



## Apoios à Investigação Científica 1994/95 | Grants for Scientific Research 1994/95

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 07/94 – “Abordagem intergeracional da organização bio-comportamental e representacional da vinculação em mães e filhos: Estudo preliminar”

Investigadores/Researchers: Isabel Soares, Pedro Lopes dos Santos, Maria Carolina Costa e Silva

Instituição/Institution: Centro de Medicina Desportiva do Norte, Porto (Portugal)

Duração/Duration: 1994/12 – 1996/09

*Peer-reviewed publications*

Soares, I., Silva, C., Costa, O. & Cunha, J. P. (1999). Avaliação da vinculação e da frequência cardíaca em bebés de 12 meses na Situação Estranha. *Revista Portuguesa de Psicossomática*, 1, 1010-114.

Soares, I. (1996). Vinculação: Questões teóricas, investigação e implicações clínicas. *Revista Portuguesa de Pedopsiquiatria*, 11, 35-71.

### 20/94 – “Previsiologia de fenómenos estocásticos, ondas cerebrais e fractalismos”

Investigadores/Researchers: António Cacho, Raul Berenguel

Instituição/Institution: Universidade Moderna, Porto (Portugal)

Duração/Duration: 1994/12 – 1996/03

*Peer-reviewed publications*

Berenguel, R. (1996). Previsiologia de Fenómenos Estocásticos e Ondas Cerebrais. *Anomalia*, 4, 141-148.

### 24/94 – “Estudo experimental da relação entre a activação emocional subliminar e a actividade fisiológica durante o reconhecimento implícito ou explícito”

Investigadores/Researchers: Pedro Barbas de Albuquerque, Teresa Freire, Mário Gonçalves

Instituição/Institution: Laboratório de Psicologia da Universidade do Minho, Braga (Portugal)

Duração/Duration: 1994/12 – 1997/01

*Peer-reviewed publications*

Albuquerque, P. B., Santos, J. A., Pandeirada, J. S., & Gonçalves, S. F. (2002). Disociación entre la memoria implícita y explícita: Efecto de la formación de imágenes en una tarea de completamiento de fragmentos de palabras. In D. Saiz (Ed.), *Psicología de la memoria: Aportaciones recientes* (pp. 77-89). Barcelona: Avesta.

### 30/94 – “Physiological responses to spiritual stimuli: Prayer and healing”

Investigador/Researcher: Joseph Conboy

Instituição/Institution: Universidade Ciências Exactas e Humanas, Faro (Portugal)

Duração/Duration: 1994/12 – 1997/08

*Peer-reviewed publications*

Conboy, J. (2005). Measuring the construct of personal belief. *INUAF Studia*, (4)8, 127-145.

### 41/94 – “Estados modificados de consciência: 1. Psiconeurofisiologia da terapia pelo imaginário vivencial regressivo personalizado (TRVP), 2. Valor terapêutico da terapia, em duas sessões”

Investigadores/Researchers: Mário Simões, Maria Teresa Pimentel, Paula Esperança, François Gysin, José Correia.

Instituição/Institution: Instituto Psicologia da Faculdade de Medicina de Lisboa (Portugal)

Duração/Duration: 1994/12 – 1998/03

*Peer-reviewed publications*

Simões, M. R. (2002). Altered states of consciousness and psychotherapy - A cross-cultural perspective. *The International Journal of Transpersonal Studies*, 21, 145-152.



## Apoios à Investigação Científica 1996/97 | Grants for Scientific Research 1996/97

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 04/96 – “Influence of the mind on a moving robot”

Investigador/Researcher: René Peoc'h

Instituição/Institution: Institut de Psychophysique, Nantes (France)

Duração/Duration: 1997/01 – 2000/08

Peer-reviewed publications

Peoc'h, R. (2001). Chick's distant psychokinesis (23 kilometres). *Revue française de parapsychologie*, 11(1), 1-5.

### 07/96 – “Human sensitivity to environmental energy fields - considering the role of electromagnetic fields as noise-based stressors and their relationship to psi phenomena”

Investigadores/Researchers: Paul Stevens, Robert Morris

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 1997/01 – 1998/10

Peer-reviewed publications

Wiseman, R., Watt, C., Stevens, P., Greening, E. & O'Keeffe, C. (2003). An investigation into alleged 'hauntings'. *British Journal of Psychology*, 94, 195-211.

Wiseman, R., Watt, C., Stevens, P., Greening, E., & O'Keeffe, C. (2002). An investigation into the alleged haunting of Hampton Court Palace: Psychological variables and magnetic fields. *Journal of Parapsychology*, 66, 387-408.

Stevens, P. (2001). Effects of 5s exposures to a 50  $\mu$ T, 20 Hz magnetic field on skin conductance and ratings of affect and arousal. *Bioelectromagnetics*, 22, 219-223.

Stevens, P. (2000). Noise, physics and psi: new ideas for research. *International Journal of Parapsychology*, 11, 63-72.

### 11/96 – “Precognition - possibilities, probabilities and events”

Investigadores/Researchers: Fiona Steinkamp, Robert Morris

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 1997/01 – 1998/12

Peer-reviewed publications

Steinkamp, F. (2000). Acting on the future: A survey of precognitive experiences. *Journal of the American Society for Psychical Research*, 95, 37-59.

Steinkamp, F. (2000). Does precognition foresee the future? A postal experiment examining the possibility of true precognition. *Journal of Parapsychology*, 64, 13-18.

Steinkamp, F. (1999). Testing clairvoyance and precognition by manipulating probabilities: A conceptual assessment of the experimental literature. *Journal of Parapsychology*, 63, 99-130.

Steinkamp, F., Milton, J., & Morris, R. (1998). A meta-analysis of forced-choice experiments comparing clairvoyance and precognition. *Journal of Parapsychology*, 62, 193-218.

### 21/96 – “Experimental investigation of physiological response to distant mental healing”

Investigadores/Researchers: Dean Radin, Jannine M. Rebman, Wellington Zangari

Instituição/Institution: Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas (USA)

Duração/Duration: 1997/01 – 1997/12

Peer-reviewed publications

Radin, D. I., Machado, F., & Zangari, W. (2000). Effects of distant healing intention through time and space: Two exploratory studies. *Subtle Energies and Energy Medicine*, 11(3), 207-240.

### **31/96 – “Indução de emoções em contextos artificiais: análise das representações fisiológicas e cognitivas”**

Investigadores/Researchers: Pedro Barbas de Albuquerque, Ângela Maia

Instituição/Institution: Laboratório de Psicologia da Universidade do Minho, Braga (Portugal)

Duração/Duration: 1997/06 – 2000/08

#### *Peer-reviewed publications*

Albuquerque, P. B., & Santos, J. A. (2000). Memória para acontecimentos emocionais: Contributos da psicologia cognitiva experimental. *Revista Portuguesa de Psicossomática*, 2(2), 21-34.

Albuquerque, P. B., & Santos, J. A. (2000). O paradoxo da influência da emoção na memória implícita: Acção nos processos ou contextualização episódica de tarefas. *Psicologia: Teoria, Investigação e Prática*, 5(1), 87-98.

Albuquerque, P. B., & Santos, J. A. (1999). Jura dizer a verdade? Traições e fidelidades dos processos mnésicos. *Psicologia: Teoria, Investigação e Prática*, 4(2), 121-134.

### **33/96 – “Noção do tempo e parâmetros dos ritmos psicofisiológicos”**

Investigadores/Researchers: Carlos Fernandes da Silva, Simon Folkard, Jorge Silvério, Anabela Pereira, Ana Allen Gomes

Instituição/Institution: Laboratório de Psicologia da Universidade do Minho, Braga (Portugal)

Duração/Duration: 1997/04 – 2000/07

#### *Peer-reviewed publications*

Queirós, A., Silva, C., & Silvério, J. M. (2000). Trabalho por turnos, diferenças individuais e ritmos circadianos cardiovasculares. *Psicologia: Teoria, Investigação e Prática*, 5(2), 313-328.

Silva, C., Rodrigues, P. F., Klein, J. M., & Macedo, F. B. (2000). Investigação em cronobiologia. *Psicologia: Teoria, Investigação e Prática*, 5(2), 267-284.

Silva, C., Santos, R., Silvério, J. M., Macedo, F. B., Losa, N., & Pereira, A. S. (2000). Ritmos biológicos e tratamento da depressão: seguimento de doentes de consulta externa. *Psicologia: Teoria, Investigação e Prática*, 5(2), 423-432.

Gomes, A., Silva, C., Clemente, V., Ferreira, A., Coelho, I., César, H., Pissarra, C., & Azevedo, M. (1999). Reliability and factor analysis of the time awareness questionnaire (Portuguese version). *Vigilia-Sueño*, 11(2), 105-110.

### **35/96 – “Observatório nacional de fenómenos paranormais e afins”**

Investigadores/Researchers: Carlos Fernandes da Silva, Stanley Krippner, Sérgio Razente, Manuel Domingos, Constança Azevedo

Instituição/Institution: Laboratório de Psicologia da Universidade do Minho, Braga (Portugal)

Duração/Duration: 1997/03 – 2001/07

#### *Peer-reviewed publications*

Thalbourne, M., Silva, C. & Razente, S. (2006). Belief in, and alleged experience of, the paranormal in the Portuguese population. *Australian Journal of Parapsychology*, 6, 155-165.

### **43/96 – “Abordagem intergeracional da organização bio-comportamental e representacional da vinculação em mães e filhos - 2ª fase: Estudo com suporte num sistema de informação multimédia”**

Investigadores/Researchers: Isabel Soares, João Paulo Silva Cunha, Maria Carolina Costa e Silva, Ovídio Costa, Pedro Lopes dos Santos

Instituição/Institution: Centro de Medicina Desportiva do Porto (Portugal)

Duração/Duration: 1997/01 – 1999/04

#### *Peer-reviewed publications*

Zhan-Jian L., Soares, I., Silva, C. F., Pinho, A., Neves, L., Costa, O. & Cunha, J. P. (1998). A multimedia system for assessment of attachment organizations and heart rate. In H. K. Chang & Y. T. Zhang (Eds.), *Proceedings of the 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Vol 20, Pts 1-6: Biomedical Engineering Towards the Year 2000 and Beyond* (Vol. 20, pp. 1226-1229). New York: IEEE.



## Apoios à Investigação Científica 1998/99 | Grants for Scientific Research 1998/99

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 02/98 – “Biological and Psychological Features of Anxious Symptoms in Children”

Investigadores/Researchers: Jerome Kagan, Nancy Snidman, Mark McManis

Instituição/Institution: Harvard University (USA)

Duração/Duration: 1998/12 – 2000/12

#### Peer-reviewed publications

Kagan, J., & Fox, N. (2006). Biology, culture and temperamental biases. In N. Eisenberg (Ed.), *Handbook of child psychology* (Vol. 6, 6th ed., pp. 167-225). New York, NY: John Wiley

Kagan, J. & Herschkowitz, N. (2005). *A young mind in a growing brain*. Mahwah, N.J.: Lawrence Erlbaum Associates.

Kagan, J. (2001). Biological constraint, cultural variety, and psychological structures. *Annals of the New York Academy of Sciences*, 935(1), 177-190. <https://doi.org/10.1111/j.1749-6632.2001.tb03480.x>

Kagan, J., & Snidman, N. (1999). Early childhood predictors of adult anxiety disorders. *Biological Psychiatry*, 46(11), 1536–1541. [https://doi.org/10.1016/S0006-3223\(99\)00137-7](https://doi.org/10.1016/S0006-3223(99)00137-7)

### 06/98 – “A descriptive and correlational study of persons claiming spontaneous psi experiences”

Investigadores/Researchers: Daniel Montanelli, Alejandro Parra

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)

Duração/Duration: 1998/12 – 2001/02

#### Peer-reviewed publications

Parra, A. (2015). Humanistic therapy, mental health and paranormal experiences (Translated into Arab by S. Khaled Zahran). *Journal of the Egyptian Association of Psychological Studies*, 25(90), 123-154.

Parra, A. (2012). Exceptional human experiences in group-psychotherapy: an Argentinean experience. In W.H. Kramer, E. Bauer, & G.H. Hovelmann (Eds.), *Clinical aspects of exceptional human experiences: An introductory reader*. Utrecht, Netherlands: Het Johan Borgman Fond.

Parra, A. (2012). Humanistic group therapy, mental health and anomalous/paranormal experience. In C. Murray (Ed.), *Mental health and anomalous experience* (pp. 205-226). Hauppauge, NY: Nova Science.

Gómez Montanelli, D. & Parra, A. (2008). Are spontaneous anomalous/paranormal experiences disturbing?: A survey among under-graduate students. *International Journal of Parapsychology*, 13, 1-14.

Gómez Montanelli, D. & Parra, A. (2005). ¿Las experiencias paranormales son psicológicamente perturbadoras?: Un estudio comparando dos muestras encuestadas. *Revista de Neuro-Psiquiatría*, 68(1-2), 107-117.

Gómez Montanelli, D. & Parra, A. (2005). ¿Las Experiencias Paranormales son psicológicamente perturbadoras? Una encuesta comparando estudiantes universitarios y aficionados a temas paranormales. *Revista Interamericana de Psicología*, 39(2), 285-294.

Gómez Montanelli, D. & Parra, A. (2004). Estudio exploratorio de las características de personalidad, psicopatología, inteligencia y mecanismos de defensa de sujetos que reportan experiencias paranormales espontáneas. *Revista Argentina de Psicología Paranormal*, 15, 31-45.

Gómez Montanelli, D. & Parra, A. (2004). A clinical approach to the emotional processing of anomalous/paranormal experiences in group therapy. *Journal of the Society for Psychical Research*, 68.3(876), 129-142.

Gómez Montanelli, D. & Parra, A. (2003). Un abordaje modelo para el procesamiento de las reacciones emocionales ante experiencias paranormales. *Revista Argentina de Psicología Paranormal*, 14, 9-27.

Gómez Montanelli, D. & Parra, A. (2002). Experiencias psi-conflictivas: Una encuesta con implicaciones en parapsicología clínica. *Revista Argentina de Psicología Paranormal*, 13, 7-47.

### **11/98 – “Investigation of animal-human telepathy”**

Investigadores/Researchers: Rupert Sheldrake, David Jay Brown, Jane Turney

Instituição/Institution: The Seven Experiments Project, London (UK)

Duração/Duration: 1998/12 – 2000/11

#### *Peer-reviewed publications*

Sheldrake, R. (2002). Apparent telepathy between babies and nursing mothers: A survey. *Journal of the Society for Psychical Research*, 66.3, 181-185.

Brown, D. J., & Sheldrake, R. (2001). The anticipation of telephone calls: A survey in California. *Journal of Parapsychology*, 65(2), 145-156.

Sheldrake, R. (2001). Experiments on the sense of being stared at: The elimination of possible artefacts. *Journal of the Society for Psychical Research*, 65.2, 122-137.

Sheldrake, R. (2000). The "sense of being stared at" does not depend on known sensory clues. *Rivista Di Biologia-Biology Forum*, 93(2), 237-252.

Sheldrake, R. (2000). The 'psychic pet' phenomenon. *Journal of the Society for Psychical Research*, 64(859), 126-128.

Sheldrake, R. (2000). Telepathic telephone calls: Two surveys. *Journal of the Society for Psychical Research* 64.4, 224-232.

Sheldrake, R., & Smart, P. (2000). A dog that seems to know when his owner is coming home: Videotaped experiments and observations. *Journal of Scientific Exploration*, 14(2), 233-255.

Sheldrake, R., & Smart, P. (2000). Testing a return-anticipating dog, Kane. *Anthrozoos*, 13(4), 203-212.

Sheldrake, R. (1999). The "sense of being stared at" confirmed by simple experiments. *Rivista Di Biologia-Biology Forum*, 92(1), 53-76.

### **13/98 – “The connection between psi and volitional competence in a non-western culture”**

Investigadores/Researchers: Hoyt Edge, Luh Ketut Suryani, Deborah Delanoy

Instituição/Institution: Rollins College, Florida (USA)

Duração/Duration: 1998/12 – 2000/12

#### *Peer-reviewed publications*

Edge, H., & Suryani, L. K. (2002). A cross-cultural analysis of volition. *Florida Philosophical Review*, 2(2), 56-72.

Edge, H., & Suryani, L. K. (2001). Investigation of psychic beliefs in Bali. *Journal of Parapsychology*, 65(4), 363-364.

### **15/98 – “Postmortem survival: A reappraisal of the evidence”**

Investigador/Researcher: Stephen Braude

Instituição/Institution: University of Maryland Baltimore County (USA)

Duração/Duration: 1999/01 – 2001/09

#### *Peer-reviewed publications*

Braude, S. E. (2014). *Crimes of reason: On mind, nature & the paranormal*. London, UK: Rowman & Littlefield.

Braude, S. E. (2014). The possibility of mental mediumship: Philosophical considerations. In A. Rock (Ed), *The survival hypothesis: Essays in mediumship* (pp. 21-39) Jefferson, NC: McFarland.

Braude, S. E. (2009). Perspectival Awareness and Postmortem Survival. *Journal of Scientific Exploration*, 23,195-210.

Braude, S. E. (2005). Personal identity and postmortem survival. *Social Philosophy and Policy*, 22(2), 226-249. <https://doi.org/10.1017/S026505250505209X> Reprinted in E. F. Paul, F. D. Miller, & J. Paul (Eds.), *Personal identity* (pp.226-249). Cambridge: Cambridge University Press.

Braude, S. E. (2003). *Immortal Remains: The Evidence for Life After Death*. Lanham, MD, Rowman & Littlefield.

Braude, S. E. (2001). Out-of-body experiences and survival of death. *International Journal of Parapsychology*, 12(1), 83-129.

Braude, S. E. (2000). Dissociation and latent abilities: The strange case of patience worth. *Journal of Trauma & Dissociation*, 1(2), 13-48. [https://doi.org/10.1300/J229v01n02\\_02](https://doi.org/10.1300/J229v01n02_02)



### 18/98 – “Investigations of Psychopraxia”

Investigadores/Researchers: Michael Thalbourne, Lance Storm

Instituição/Institution: University of Adelaide (Australia)

Duração/Duration: 1999/01 – 2001/12

#### Peer-reviewed publications

Storm, L. (2013). A comparative approach to the theory of psychopraxia. In S. Krippner, A. J. Rock, J. Beischel, & H. Friedman (Eds.), *Advances in Parapsychological Research* 9 (pp. 82-96). Jefferson, NC: McFarland.

Storm, L. (2006). Meta-analysis in parapsychology: I. The ganzfeld domain. *Australian Journal of Parapsychology*, 6, 35-53.

Storm, L. (2006). "Meta-analysis in parapsychology: II. Psi domains other than ganzfeld". *Australian Journal of Parapsychology*, 6, 135-155.

Storm, L. (2005). A socioempirical perspective on skepticism about psi. In M. A. Thalbourne & L. Storm (Eds.), *Parapsychology in the 21st century: Essays on the future of psychical research* (pp. 275-304). Jefferson, NC: McFarland.

Storm, L., & Thalbourne, M. A. (2005). The effect of a change in pro attitude on paranormal performance: A pilot study using naïve and sophisticated skeptics. *Journal of Scientific Exploration*, 19, 11-29.

Storm, L., & Thalbourne, M. A. (2005). The effects of intuition and attitudes towards gambling on ESP performance during a gambling task. *European Journal of Parapsychology*, 20, 22-49.

Storm, L. (2003). Research note: Is the *I Ching* process cybernetic or non-cybernetic? *European Journal of Parapsychology*, 18, 77-86.

Storm, L., & Thalbourne, M. A. (2003). Perceived complexity, perceived task difficulty, and other states of mind: The influence of mental states on psi outcomes. *Journal of the American Society for Psychical Research*, 97, 155-174.

Storm, L. (2001). Research note: Effect size in 'The transliminal connection between paranormal effects and personality in an experiment with the *I Ching*' by Storm & Thalbourne (1998-1999). *European Journal of Parapsychology*, 16, 107-108.

Storm, L., & Ertel, S. (2001). Does psi exist? Comments on Milton and Wiseman's (1999) meta-analysis of ganzfeld research. *Psychological Bulletin*, 127, 424-433.

Storm, L., & Thalbourne, M. A. (2001). Paranormal effects using sighted and vision-impaired participants in a quasi-ganzfeld task. *Australian Journal of Parapsychology*, 1, 133-170.

Storm, L., & Thalbourne, M. A. (2001). Studies of the *I Ching*. I: A replication. *Journal of Parapsychology*, 65, 105-124.

Storm, L., & Thalbourne, M. A. (2001). Studies of the *I Ching*. II: Additional analyses. *Journal of Parapsychology*, 65, 291-309.

Lange, R., Thalbourne, M. A., Houran, J., & Storm, L. (2000). The revised transliminality scale: Reliability and validity data from a rasch top-down purification procedure. *Consciousness and Cognition*, 9(4), 591-617. <https://doi.org/10.1006/ccog.2000.0472>

Storm, L. (2000). Research Note: Replicable evidence of psi: A revision of Milton's (1999) meta-analysis of the Ganzfeld databases. *Journal of Parapsychology*, 66, 411-416.

Storm, L., & Thalbourne, M.A. (2000). A paradigm shift away from the ESP-PK dichotomy: The theory of psychopraxia. *Journal of Parapsychology*, 64, 279-300.

Storm, L. (1999). Synchronicity, causality and acausality. *Journal of Parapsychology*, 63, 247-269.

### 20/98 – “Relação entre vivências induzidas e evocadas sob estados modificados de consciência e respostas neurovegetativas e neuroendócrinas” – “Relation between induced and evoked lives under altered states of consciousness and neurovegetative and neuroendocrine answers”

Investigadores/Researchers: Luís Sobrinho, Mário Simões, João Filipe Cancela dos Santos Raposo, Lurdes Barbosa, Pedro Lobo Fernandes

Instituição/Institution: Instituto Português de Oncologia Francisco Gentil, Lisboa (Portugal)

Duração/Duration: 1999/01 – 2001/03

#### Peer-reviewed publications

Sobrinho, L. G., Simões, M. R., Barbosa, L., Raposo, J. F., Pratas, S., Fernandes, P., Santos, M. A. (2003). Cortisol, prolactin and growth hormone responses to emotions elicited during an hypnoidal state. *Psychoneuroendocrinology*, 28(1), 1-17. [https://doi.org/10.1016/s0306-4530\(01\)00100-7](https://doi.org/10.1016/s0306-4530(01)00100-7)

Sobrinho, L. G., Simões, M. R., Raposo, J. F., & Barbosa, L. (1999). Respostas hormonais e neurovegetativas durante estados modificados de consciência. *Revista Portuguesa de Psicosomática*, 1(1), 53-62.

**24/98 – “International collaboration to plan the next proof-oriented meta-analysis and accelerate process-oriented research in the Ganzfeld”**

Investigadores/Researchers: Julie Milton, Robert Morris

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 1999/01 – 1999/09

*Peer-reviewed publications*

Milton, J. (1999). Should Ganzfeld research continue to be crucial in the search for a replicable psi effect? Part 1. Discussion paper and introduction to an electronic mail discussion. *Journal of Parapsychology*, 63, 309-335.

**25/98 – “The limits of precognition”**

Investigadores/Researchers: Fiona Steinkamp, Robert Morris

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 1999/01 – 1999/08

*Peer-reviewed publications*

Steinkamp, F. (2001). Does precognition foresee the future? Two conceptual replications. Series 2: A laboratory replication and Series 3: A World Wide Web replication. *Journal of Parapsychology*, 65(1), 17-40.

**28/98 – “Psychological characteristics of children who speak of previous-life memories: An extended study and replication in Lebanon”**

Investigadores/Researchers: Erlendur Haraldsson, Majd Abu-Izzedin, Caroline Kordahi

Instituição/Institution: University of Iceland, Reykjavik (Iceland)

Duração/Duration: 1999/01 – 2001/07

*Peer-reviewed publications*

Haraldsson, E., & Abu-Izzedin, M. (2004). Three randomly selected Lebanese cases of children who claim memories of a previous life. *Journal of the Society for Psychical Research*, 86.2(875), 65-85.

Haraldsson, E. (2003). Children who speak of past-life experiences: Is there a psychological explanation? *Psychology and Psychotherapy: Theory Research and Practice*, 76(1), 55-67. <https://doi.org/10.1348/14760830260569256>

Stevenson, I., & Haraldsson, E. (2003). The similarity of features of reincarnation type cases over many years: A third study. *Journal of Scientific Exploration*, 17(2), 283-289.

Haraldsson, E., & Abu-Izzedin, M. (2002). Development of certainty about the correct deceased person in a case of the reincarnation type: The case of Nazih Al-Danaf. *Journal of Scientific Exploration*, 16(3), 363-380.

**29/98 – “Psychic Pets – Inquérito sociológico em Portugal”**

Investigador/Researcher: Carla Alexandra Lobo

Instituição/Institution: Laboratório de Psicologia da Universidade do Minho, Braga (Portugal)

Duração/Duration: 1999/03 – 2001/02

*Peer-reviewed publications*

Razente, S., Silva, C. F., & Lobo, C. (2007). Does your animal know you are going out? A survey in Portugal about belief in psychic pets. *Australian Journal of Parapsychology*, 7(1), 33-46.

**30/98 – “Caracterização neurofisiológica e psicofisiológica de disfunções cerebrais utilizando estudos qEEG/ERP. Metodologia e Aplicações” – “Neurophysiological and psychological characterisation of cerebral dysfunctions using qEEG/ERP studies. Methodology and applications”**

Investigadores/Researchers: António Martins da Silva, Denisa Maria Vasques Mendonça, João Manuel Carmona Ferreira Lopes, Maria Regina Pinto Brito Aguiar Andrade, João Eduardo Paiva Ramalheira, João Paulo Trigueiros Silva Cunha, Miguel Oliveira e Silva, Teresa Temudo, Óscar Gomes, Óscar Alves

Instituição/Institution: Hospital Sto. António, Porto (Portugal)

Duração/Duration: 1999/06 – 2004/04

*Peer-reviewed publications*

Vilhena, E., Paiva, I., Rodrigues, H., Martins da Silva, A., & Mendonça, D. (2005). Variaciones fisiológicas de los potenciales cerebrales auditivos ERP300 en adultos jóvenes. Análisis secuencial. *Revista de Neurologia*, 41(10), 633-635.

Vilhena, E. M., Mendonça, D., & Martins da Silva, A. (2004). Aplicações de análise de variância de medidas repetidas no estudo da actividade cerebral. *Tékhne – Revista de Estudos Politécnicos*, 1(6), 47-61.

**38/98 – “O sonho e a imagem em invisuais: abordagem biofísica e neurofisiológica” – “Dream and image in blind people: biophysic and neurophysiological approach”**

Investigadores/Researchers: Teresa Paiva, Hélder Manuel Ferreira Utacílio Bértolo, Rosa Maria Capelo dos Santos

Instituição/Institution: Centro Estudos Egas Moniz / H. Sta. Maria, Lisboa (Portugal)

Duração/Duration: 1999/01 – 2001/02

*Peer-reviewed publications*

Bértolo, H., Paiva, T., Pessoa, L., Mestre, T., Marques, R., & Santos, R. (2003). Visual dream content, graphical representation and EEG alpha activity in congenitally blind subjects. *Cognitive Brain Research*, 15(3), 277-284. [https://doi.org/10.1016/S0926-6410\(02\)00199-4](https://doi.org/10.1016/S0926-6410(02)00199-4)

Bértolo H., & Paiva T. (2001). Conteúdo visual em sonhos de cegos. *Psicologia, Saúde & Doenças*, 2(1), 23-33.

Bértolo H., & Paiva T. (2000). Dream and image in blind subjects. *Hypnos* 1: 47 – II-8.

Bértolo H., & Paiva T. (1999). Visual content in blind subjects dreams. *Sleep Research Online*, 2(Suppl. 1), 271.

**39/98 – “Realidade virtual no tratamento da acrofobia” – “Virtual reality in the treatment of acrophobia”**

Investigadores/Researchers: Jorge Silvério, Mário Martins

Instituição/Institution: Laboratório de Psicologia da Universidade do Minho, Braga (Portugal)

Duração/Duration: 1999/03 – 2005/01

*Peer-reviewed publications*

Coelho, C., Santos, J., Silvério, J., & Silva, C. F. (2006). Virtual reality and acrophobia: one year follow up and case study. *CyberPsychology and Behavior*, 9(3), 336-341. <https://doi.org/10.1089/cpb.2006.9.336>

Coelho, C., Silva, C. F., Santos, J., & Silvério, J. (2005). Realidade virtual aplicada ao tratamento da acrofobia: Estudo de caso. *Psiquiatria Clínica*, 26(2), 153-165.

Coelho, C., Silva, C. F., Santos, J., & Silvério, J. (2003). Etiologia das fobias específicas. *Psiquiatria Clínica*, 24(2), 125-139.

**44/98 – “Psicofisiologia das emoções: Aprendizagem não consciente”**

Investigadores/Researchers: Francisco Esteves, Maria Paula Carneiro, Patrícia Arriaga Ferreira, Anders Flykt

Instituição/Institution: Unidade de Estudos e Investigação em Psicologia, Lisboa (Portugal)

Duração/Duration: 1999/01 – 2002/12

*Peer reviewed publication*

Esteves, F., Arriaga Ferreira, P., Carneiro, P., & Flykt, A. (2010). Emotional responses (verbal and psychophysiological) to pictures of food stimuli. *Psicologia*, 24(2), 89-111.

**46/98 – “Assessing the Role of Precognition in Practical Intuition”**

Investigadores/Researchers: Richard Broughton, Robert Bourgeois

Instituição/Institution: Rhine Research Center, Durham (USA)

Duração/Duration: 1998/12 – 1999/12

*Peer-reviewed publications*

Broughton, R., & Bourgeois, R. L. (2001). Exploring a tool for identifying intuitive talent for practical decision making. In C. S. Alvarado (Ed.), *Parapsychological Association 44th Annual Convention. Proceedings of Presented Papers* (pp. 25-37). New York, NY: Parapsychological Association, Inc.

**59/98 – “Estudo da relação entre memória de curto prazo e percepção subjectiva de tempo, usando como modelo a doença de Parkinson” – “Study of the relation between short-term memory and subjective perception of time, using the Parkinson disease mode”**

Investigadores/Researchers: Isabel Pavão Martins, Joaquim José Ferreira, Miguel Vilhena Soares Coelho

Instituição/Institution: Centro Estudos Egas Moniz / H. Sta. Maria – Lisboa (Portugal)

Duração/Duration: 1999/01 – 2002/06

*Peer-reviewed publications*

Coelho, M., Ferreira, J., Dias, B., Sampaio, C., Martins, I. P., & Castro-Caldas, A. (2004). Assessment of time perception: The effect of aging. *Journal of the International Neuropsychological Society*, 10(3), 332-341. <https://doi.org/10.1017/S1355617704103019>

Coelho, M., Dias, B., Ferreira, J., Martins, I. P., & Castro-Caldas, A. (2002). Avaliação neuropsicológica da percepção subjectiva de tempo. *Sinapse*, 2(1), 74.



Coelho, M., Dias, B., Ferreira, J., Martins, I. P., & Castro-Caldas, A. (2001). Neuropsychological assessment of temporal perception. *Journal of International Neuropsychological Society*, 7(4), 423.

Ferreira, J., Coelho, M., Martins, I. P., & Castro-Caldas, A. (1999). Subjective perception of time and immediate recall in Parkinson's disease. *Parkinsonism & Related Disorders*, 5(Suppl. 1), S89.

**64/98 – “Os efeitos da oração – Um estudo parapsicológico e psicofisiológico da evolução de quadros clínicos de pacientes em unidades hospitalares” – “The effects of praying - A parapsychological and psychophysiological study of the evolution of patients' clinical features in hospital units”**

Investigadores/Researchers: Telmo Baptista, Miguel Henrique Guerra Gonçalves Farias, Cláudia Carvalho de Matos Teixeira Coelho, Isabel Maria Mousinho de Almeida Galriça Neto

Instituição/Institution: Faculdade de Psicologia e Ciências da Educação, Lisboa (Portugal)

Duração/Duration: 1999/01 – 2001/09

*Peer-reviewed publications*

Howard, G. S., Hill, T. L., Maxwell, S. E., Baptista, T. M., Farias, M. H., Coelho, C., ... Coulter-Kem, R. (2009). *What's wrong with research literatures? And how to make them right. Review of General Psychology*, 13(2), 146-166. <https://doi.org/10.1037/a0015319>



## Apoios à Investigação Científica 2000/01 | Grants for Scientific Research 2000/01

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 01/00 – “Investigation and psychological testing of U.S. children who claim to remember previous lives”

Investigadores/Researchers: Jim Tucker, Ian Stevenson

Instituição/Institution: University of Virginia Health System (USA)

Duração/Duration: 2001/05 – 2003/05

Peer-reviewed publications

Tucker, J., & Don Nidiffer, F. (2014). Psychological Evaluation of American Children Who Report Memories of Previous Lives. *Journal of Scientific Exploration*, 28(4), 585-596.

### 03/00 – “Psychophysiology of Transliminality”

Investigador/Researcher: James Houran

Instituição/Institution: SIU School of Medicine, Springfield (USA)

Duração/Duration: 2001/01 – 2004/06

Peer-reviewed publications

Houran, J., Hughes, L. F., Thalbourne, M. A., & Delin, P. S. (2006). Quasi-experimental study of transliminality, vibrotactile thresholds and performance speed. *Australian Journal of Parapsychology*, 6, 54-80.

Houran, J., Navick, S., & Zerrusend, K. (2005). Boundary functioning in celebrity worshippers. *Personality and Individual Differences*, 38(1), 237-248. <https://doi.org/10.1016/j.paid.2004.04.014>

Thalbourne, M. A., & Houran, J. (2005). Patterns of self-reported happiness and substance use in the context of transliminality. *Personality and Individual Differences*, 38(2), 327-336. <https://doi.org/10.1016/j.paid.2004.04.011>

Houran, J., Ashe, D., & Thalbourne, M. A. (2003). Encounter experiences in the context of mental boundaries and bilaterality. *Society for Psychical Research*, 67(4), 260-279.

Houran, J., & Thalbourne, M. A. (2003). Transliminality correlates positively with aberrations in memory. *Perceptual and Motor Skills*, 96(3), 1300-1304. <https://doi.org/10.2466/pms.2003.96.3c.1300>

Houran, J., Thalbourne, M. A., & Hartmann, E. (2003). Comparison of two alternative measures of the boundary construct. *Perceptual and Motor Skills*, 96(1), 311-323. <https://doi.org/10.2466/pms.2003.96.1.311>

Houran, J., Thalbourne, M. A., & Lange, R. (2003). Methodological note: erratum and comment on the use of the Revised Transliminality Scale. *Consciousness and Cognition*, 12, 140-144.

Thalbourne, M. A., Crawley, S., & Houran, J. (2003). Temporal lobe lability in the highly transliminal mind. *Personality and Individual Differences*, 35, 1965-1974.

Thalbourne, M. A., & Houran, J. (2003). Transliminality as an index of the sheep-goat variable. *European Journal of Parapsychology*, 18, 3-14.

Thalbourne, M. A., Houran, J., & Crawley, S. (2003). Childhood trauma as a possible antecedent of transliminality. *Psychological reports*, 93(3), 687-694. <https://doi.org/10.2466/pr0.2003.93.3.687>

Houran, J., Kumar, V. K., Thalbourne, M. A., & Lavertue, N. E. (2002). Haunted by somatic tendencies: spirit infestation as psychogenic illness. *Mental Health, Religion & Culture*, 5, 119-133.

Houran, J., Wiseman, R., & Thalbourne, M. A. (2002). Perceptual-personality characteristics associated with naturalistic haunt experiences. *European Journal of Parapsychology*, 17, 17-44.

Thalbourne, M. A., Houran, J., Alias, A. G., & Brugger, P. (2001). Transliminality, brain function, and synesthesia. *Journal of Nervous and Mental Disease*, 189, 190-192.

**04/00 – “Mapeamento do Cortéx envolvido nos processos de decodificação da linguagem oral e escrita em voluntários alfabetizados na infância e voluntários alfabetizados na idade adulta utilizando magnetoencefalografia”**

Investigadores/Researchers: Alexandre Lemos de Castro Caldas, Maria Vânia da Silva Nunes, Beatriz Dias, Andrew Papanicolau, Thomas Ortiz Alonso, Fernando Maesto

Instituição/Institution: Centro de Estudos Egas Moniz, Lisboa (Portugal)

Duração/Duration: 2000/12 – 2003/10

*Peer-reviewed publications*

Castro-Caldas, A., Nunes, M. V., Maestu, F., Ortiz, T., Simoes, R., Fernandes, R., ... Goncalves, M. (2009). Learning orthography in adulthood: A magnetoencephalographic study. *Journal of Neuropsychology*, 3(1), 17-30. <https://doi.org/10.1348/174866408x289953>

Nunes, M. V., Castro-Caldas, A., Del Rio, D., Maestú, F., & Ortiz, T. (2009). The ex-illiterate brain. The critical period, cognitive reserve and HAROLD model. *Dementia & Neuropsychologia*, 3(3), 222-227.

**09/00 – “Psychological, phenomenological and parapsychological evaluation of the anomalous/paranormal detection using objects-target utilizing specially selected subjects”**

Investigadores/Researchers: Alejandro Enrique Parra, Juan Carlos Argibay

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)

Duração/Duration: 2001/02 – 2003/02

*Peer-reviewed publications*

Parra, A., & Argibay, J. C. (2007). Comparing psychics and non-psychics through a “token-object” forced choice ESP test. *Journal of the Society for Psychical Research*, 71.2(887), 80-90.

Parra, A., & Argibay, J. C. (2007). Comparing a free-response psychometry test with a free-response visual imagery test for a non-psychic sample. *Journal of the Society for Psychical Research*, 71.2(887), 91-99.

Parra, A. & Argibay, J.C. (2006). Interacción entre susceptibilidad hipnótica y experiencias disociativas en una población que reporta experiencias anómalo/paranormales. *Revista Interamericana de Psicología*, 40(2), 233-240.

**10/00 – “Psychological and phenomenological investigation of anomalous cognition applying the Ganzfeld technique: Correlational analysis under the condition Ganzfeld vs no-Ganzfeld, psi-belief vs non-psi-belief, and different types of visual and musical targets”**

Investigadores/Researchers: Alejandro Enrique Parra, Jorge Villanueva

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)

Duração/Duration: 2001/02 – 2003/02

*Peer-reviewed publications*

Parra, A. & Villanueva, J. (2006). ESP under the ganzfeld, in contrast with the induction of relaxation as a psi-conducive state. *Australian Journal of Parapsychology*, 6(2), 167-186.

Parra, A., & Villanueva, J. (2004). ¿Son los temas musicales mejores que los visuales como objetivos de PES?: Un estudio experimental bajo el estímulo de monotonización perceptual ganzfeld. *Revista Argentina de Psicología Paranormal*, 15(3-4), 195-208.

Parra, A., & Villanueva, J. (2004). Are musical themes better than visual images as ESP-targets? An experimental study using the ganzfeld technique. *Australian Journal of Parapsychology*, 4(2), 114-127.

Parra, A., & Villanueva, J. (2004). ¿Son los temas musicales mejores que los visuales como objetivos de PES?: Un estudio experimental bajo el estímulo de monotonización perceptual ganzfeld. In F. E. da Silva (Ed.), *Segundo Encontro Psi: Refletindo sobre o Futuro da Parapsicología* (pp. 165-171). Curitiba, Paraná: Facultades Integradas “Espírita”.

Parra, A., & Villanueva, J. (2003). Personality factors and psi-ganzfeld sessions: A replication and extension. *Australian Journal of Parapsychology*, 3(2), 159-174.

Parra, A., & Villanueva, J. (2003). Personality factors and ESP during ganzfeld session. *Journal of the Society for Psychical Research*, 67.1(870), 26-36.

Parra, A. & Villanueva, J. (2001). Personality factors and ESP during ganzfeld sessions. In F. Steinkamp (Ed.), *Proceedings of the 44<sup>th</sup> Annual Convention of the Parapsychological Association* (pp.402-405). Freiburg, West Germany: Parapsychological Association.

### **11/00 – “Disturbances of binding phenomenon in schizophrenia”**

Investigadores/Researchers: Valeria Strelets, A. M. Ivanitsky, V. J. Novototsky-Vlasov, J. V. Golikova, R. A. Magomedov, M. V. Magomedova

Instituição/Institution: Institute of Higher Nervous Activity and Neurophysiology, Moscow (Russia)

Duração/Duration: 2001/07 – 2003/01

#### *Peer-reviewed publications*

Strelets, V., Novototsky-Vlasov, V. Y., & Golikova, J. (2002). Cortical connectivity in high frequency beta-rhythm in schizophrenics with positive and negative symptoms. *International Journal of Psychophysiology*, 44(2), 101-115. [https://doi.org/10.1016/S0167-8760\(01\)00196-9](https://doi.org/10.1016/S0167-8760(01)00196-9)

Strelets, V. B., Novototsky-Vlasov, V. Y., Garakh, Z. V., Zeligovsky, V. A., & Kaplan, A. Y. (2007). The multipleparameter combinatory analysis of EEG rhythms in norm and at schizophrenia. *Zhurnal Vysshei Nervnoi Deyatelnosti Imeni I P Pavlova*, 57(6), 684-691.

### **15/00 – “Investigation of Telepathy in Animals and Humans”**

Investigadores/Researchers: Rupert Sheldrake, Pamela Smart, Aimee Morgana, Katy Barber

Instituição/Institution: Centre for the Seven Experiments Project, London (UK)

Duração/Duration: 2001/01 – 2003/03

#### *Peer-reviewed publications*

Sheldrake, R., & Morgana, A. (2003). Testing a language-using parrot for telepathy. *Journal of Scientific Exploration*, 17(4), 601-615.

Sheldrake, R., & Smart, P. (2003). Experimental tests for telephone telepathy. *Journal of the Society for Psychical Research*, 67.3, 184-199.

Sheldrake, R., & Smart, P. (2003). Videotaped experiments on telephone telepathy. *Journal of Parapsychology*, 67(1), 147-166.

### **19/00 – “The Go/No Go Contingent Negative Variation (CNV): Relationships with alcohol abuse and criminal recidivism”**

Investigadores/Researchers: Richard Charles Howard, John Lumsden, P. J. McCullagh, Peter Fenwick, H. G. McAllister

Instituição/Institution: Broadmoor Hospital, Crowthorne (UK)

Duração/Duration: 2001/06 – 2007/12

#### *Peer-reviewed publications*

Howard, R., & Menkes, D. (2007). Changes in brain function during acute cannabis intoxication: preliminary findings suggest a mechanism for cannabis-induced violence. *Criminal Behavior and Mental Health*, 17(2), 113-117. <https://doi.org/10.1002/cbm.646>

Lumsden, J., Hadfield, J., Littler, S., & Howard, R. (2005). The prevalence of early onset alcohol abuse in mentally disordered offenders. *The Journal of Forensic Psychiatry & Psychology*, 16(4), 651-659. <https://doi.org/10.1080/14789940500205930>

### **20/00 – “Neuropsychological bases of reality monitoring deficits in schizophrenic patients with hallucinations”**

Investigadores/Researchers: Gildas Brébion, Anthony David

Instituição/Institution: Institute of Psychiatry, King's College, London (UK)

Duração/Duration: 2000/12 – 2002/07

#### *Peer-reviewed publications*

Brébion, G., Bressan, R. A., Ohlsen, R., & David, A. S. (2013). A model of memory impairment in schizophrenia: Cognitive and clinical factors associated with memory efficiency and memory errors. *Schizophrenia Research*, 151(1), 70-77. <https://doi.org/10.1016/j.schres.2013.09.009>

Brébion, G., Ohlsen, R., Bressan, R. A., & David, A. S. (2012). Source memory errors in schizophrenia, hallucinations and negative symptoms: A synthesis of research findings. *Psychological Medicine*, 42(12), 2543-2554. <https://doi.org/10.1017/S003329171200075X>

Brébion, G., Bressan, R. A., Pilowsky, L. S., & David, A. S. (2011). Processing speed and working memory span: Their differential role in superficial and deep memory processes in schizophrenia. *Journal of the International Neuropsychological Society*, 17(3), 485-493. <https://doi.org/10.1017/S1355617711000208>

Brébion, G., Ohlsen, R., Pilowsky, L. S., & David, A. S. (2011). Serial and semantic encoding of lists of words in schizophrenia patients with visual hallucinations. *Psychiatry Research*, 186(1), 5-10. <https://doi.org/10.1016/j.psychres.2010.07.053>

Brébion, G., Bressan, R.A., Ohlsen, R.I., Pilowsky, L.S., David, A.S. (2010). Production of atypical category exemplars in patients with schizophrenia. *Journal of the International Neuropsychological Society*, 16, 822-828.

Brébion, G., Bressan, R. A., David, A. S., & Pilowsky, L. S. (2009). Role of processing speed and premorbid IQ on visual recognition in patients with schizophrenia. *Journal of Clinical and Experimental Neuropsychology*, 31(3), 302-311. <https://doi.org/10.1080/13803390802108362>

Brébion, G., Bressan, R. A., Pilowsky, L. S., & David, A. S. (2009). Depression, avolition, and attention disorders in patients with schizophrenia: Associations with verbal memory efficiency. *The Journal of Neuropsychiatry and Clinical Neurosciences*, 21(2), 206-215. <https://doi.org/10.1176/appi.neuropsych.21.2.206>

Brébion, G., David, A. S., Bressan, R. A., Ohlsen, R., & Pilowsky, L. S. (2009). Hallucinations and two types of free-recall intrusion in schizophrenia. *Psychological Medicine*, 39(6), 917-926. <https://doi.org/10.1017/S0033291708004819>

Brébion, G., David, A. S., Jones, H., & Pilowsky, L. S. (2009). Working memory span and motor and cognitive speed in schizophrenia. *Cognitive and Behavioral Neurology*, 22(2), 101-108. <https://doi.org/10.1097/WNN.0b013e3181a722a0>

Brébion, G., Ohlsen, R., Pilowsky, L. S., & David, A. S. (2008). Visual hallucinations in schizophrenia: Confusion between imagination and perception. *Neuropsychology*, 22(3), 383-389. <https://doi.org/10.1037/0894-4105.22.3.383>

Brébion, G., David, A. S., Bressan, R. A., & Pilowsky, L. S. (2007). Role of processing speed and depressed mood on encoding, storage, and retrieval memory functions in patients diagnosed with schizophrenia. *Journal of the International Neuropsychological Society*, 13(1), 99-107. <https://doi.org/10.1017/S1355617707070014>

Brébion, G., David, A. S., Jones, H., Ohlsen, R., & Pilowsky, L. S. (2007). Temporal context discrimination in patients with schizophrenia. Associations with auditory hallucinations and negative symptoms. *Neuropsychologia*, 45(4), 817-823. <https://doi.org/10.1016/j.neuropsychologia.2006.08.009>

Brébion, G., David, A. S., Ohlsen, R., Jones, H., & Pilowsky, L. S. (2007). Visual memory errors in schizophrenic patients with auditory and visual hallucinations. *Journal of the International Neuropsychological Society*, 13(5), 832-838. <https://doi.org/10.1017/S135561770707107X>

Brébion, G., David, A. S., Bressan, R. A., & Pilowsky, L. S. (2006). Processing speed: A strong predictor of verbal memory performance in schizophrenia. *Journal of Clinical and Experimental Neuropsychology*, 28(3), 370-382. <https://doi.org/10.1080/13803390590935390>

Brébion, G., David, A. S., Bressan, R. A., & Pilowsky, L. S. (2005). Word frequency effects on free recall and recognition in patients with schizophrenia. *Journal of Psychiatric Research*, 39(2), 215-222. <https://doi.org/10.1016/j.jpsychires.2004.05.010>

Brébion, G., David, A. S., Jones, H., & Pilowsky, L. S. (2005). Hallucinations, negative symptoms, and response bias in a verbal recognition task in schizophrenia. *Neuropsychology*, 19(5), 612-617. <https://doi.org/10.1037/0894-4105.19.5.612>

Brébion, G., David, A. S., Jones, H., & Pilowsky, L. S. (2004). Semantic organization and verbal memory efficiency in patients with schizophrenia. *Neuropsychology*, 18(2), 378-383. <https://doi.org/10.1037/0894-4105.18.2.378>

Brébion, G., David, A. S., Pilowsky, L. S., & Jones, H. (2004). Recognition of visual stimuli and memory for spatial context in schizophrenic patients and healthy volunteers. *Journal of Clinical and Experimental Neuropsychology*, 26(8), 1093-1102. <https://doi.org/10.1080/13803390490515513>

## **24/00 – “Developing a digital autoganzfeld testing system”**

Investigadores/Researchers: Mathew D. Smith, Jez Fox, Carl Williams

Instituição/Institution: Liverpool Hope University College (UK)

Duração/Duration: 2001/05 – 2003/05

### *Peer-reviewed publications*

Fox, J., Smith, M. D., & Williams, C. (2002). Introducing DigiGanz: Describing a digital autoganzfeld system. In C. Watt. (Ed.), *The Parapsychological Association 45th Annual Convention Proceedings of Presented Papers*, 299-401.

Simmonds, C. A. & Fox, J. (2002). A pilot investigation into sensory noise, schizotypy, and extrasensory perception. In C. Watt. (Ed), *The Parapsychological Association 45th Annual Convention Proceedings of Presented Papers*, 235-246.



#### **25/00 – “True precognition”**

Investigadores/Researchers: Fiona Steinkamp, Robert Morris

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 2001/07 – 2003/06

##### *Peer-reviewed publications*

Steinkamp, F. (2005). Does precognition foresee the future? Series 4: A postal replication. *Journal of Parapsychology*, 69(2), 341-351.

#### **26/00 – “Criação de falsas memórias: Contributos para o estudo de algumas características individuais de ocorrência” – “Induction of false memories: Contributions to the study of some occurring individual characteristics”**

Investigadores/Researchers: Emanuel Pedro Barbas de Albuquerque, Josefa das Neves Simões Pandeirada, Teresa Margarida Moreira Freire Barbas de Albuquerque, Paulo Joaquim Fonseca da Silva Farinha Rodrigues, Marta Costa Freitas

Instituição/Institution: Universidade do Minho, Braga (Portugal)

Duração/Duration: 2001/01 – 2004/10

##### *Peer-reviewed publications*

Albuquerque, P. B. (2005). Produção de evocações e reconhecimentos falsos em 100 listas de palavras associadas portuguesas. *Laboratório de Psicologia*, 3(1), 3-12.

Rocha, A., & Albuquerque, P. B. (2003). Ilusões de memória em alcoólicos. *Psicologia: Teoria Investigação e Prática*, 8(2), 269-289.

#### **28/00 – “Newborn predictors of reactivity at 4 months”**

Investigadores/Researchers: Jerome Kagan, Nancy Snidman

Instituição/Institution: Harvard University, Cambridge (USA)

Duração/Duration: 2001/01 – 2002/05

##### *Peer-reviewed publications*

Kagan, J., Snidman, N., Kahn, V., Towsley, S., Steinberg, L., & Fox, N. (2007). The preservation of two infant temperaments into adolescence. *Monographs of the Society for Research in Child Development*, 72(2), vii, 1-95.

Kagan, J. (2005). Human morality and temperament. In G. Carlo, & C. P. Edwards, C. (Eds.), *Moral motivation through the lifespan. Nebraska Symposium on Motivation* (Vol. 51, pp. 1–32). Lincoln, NE: University of Nebraska Press.

Kagan, J. (2002). Childhood predictors of states of anxiety. *Dialogues in Clinical Neuroscience*, 4(3), 197-202.

Kagan, J. (2001). Emotional development and psychiatry. *Biological Psychiatry*, 49(12), 973-979. [https://doi.org/10.1016/S0006-3223\(01\)01115-5](https://doi.org/10.1016/S0006-3223(01)01115-5)

Kagan, J. (2001). Unmet needs in diagnosis and treatment of mood disorders in children and adolescents. *Biological Psychiatry*, 49(12), 973-979. [https://doi.org/10.1016/S0006-3223\(01\)01180-5](https://doi.org/10.1016/S0006-3223(01)01180-5)

Kagan, J., Snidman, N., McManis, M., & Woodward, S. (2001). Temperamental contributions to the affect family of anxiety. *The Psychiatric Clinics of North America*, 24(4), 677-688. [https://doi.org/10.1016/S0193-953X\(05\)70257-4](https://doi.org/10.1016/S0193-953X(05)70257-4)

#### **29/00 – “The Study of Psi-performance in the Digital Ganzfeld: Experimentation Towards Theory Development”**

Investigadores/Researchers: Adrian Parker, Joakim Westerlund, Anneli Persson, Annekatrin Puhle, Annehilt Haller

Instituição/Institution: University of Gothenburg (Sweden)

Duração/Duration: 2000/12 – 2002/10

##### *Peer-reviewed publications*

Goulding, A., Westerlund, J., Parker, A., & Wackermann, J. (2004). The first digital autoganzfeld study using a real-time judging procedure. *European Journal of Parapsychology*, 19, 66-97.

Parker, A. (2003). We ask, does psi exist? But is this the right question and do we really want an answer anyway? *Journal of Consciousness Studies*, 10(6-7), 111-134.

Wright, T., & Parker, A. (2003). An attempt to improve ESP Scores using the real time digital ganzfeld technique. *European Journal of Parapsychology*, 18, 69-76.

#### **34/00 – “Experimenter effects in parapsychology: Replication and mechanism”**

Investigadores/Researchers: Richard Wiseman, Caroline Watt

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 2000/12 – 2002/01

##### *Peer-reviewed publications*

Watt, C., & Wiseman, R. (2002). Belief in the paranormal, cognitive ability and extrasensory perception: The role of experimenter effects. *Proceedings of the 45th Annual Convention of the Parapsychological Association* (pp. 333-345). Paris, France: Parapsychological Association.

Wiseman, R., & Watt, C. (2002). Experimenter differences in cognitive correlates of paranormal belief and psi. *Journal of Parapsychology*, 66(4), 371-385.

#### **35/00 – “Psi in a Relational Culture: An Exploratory DMILS Study in a Non-EuroAmerican Culture”**

Investigadores/Researchers: Hoyt Edge, Luh Ketut Suryani

Instituição/Institution: Rollins College, Florida (USA)

Duração/Duration: 2001/03 – 2003/03

##### *Peer-reviewed publications*

Edge, H., Suryani, L. K., Tiliopoulos, N., & Morris, R. (2002). Two cognitive DMILS studies in Bali. *Journal of Parapsychology*, 68(2), 289-321.

#### **36/00 – “Prestimulus Response with and without a Sender: Physiological Evidence for Precognition”**

Investigadores/Researchers: Edwin May, Zoltán Vassy

Instituição/Institution: Laboratories for Fundamental Research, Palo Alto (USA)

Duração/Duration: 2001/01 – 2002/08

##### *Peer-reviewed publications*

Marwaha, S. B., & May, E. C. (2016). Precognition: The only form of psi? *Journal of Consciousness Studies*, 23(3-4), 76-100.

May, E. C., Paulinyi, T., & Vassy, Z. (2005). Anomalous anticipatory skin conductance response to acoustic stimuli: experimental results and speculation about a mechanism. *The Journal of Alternative and Complementary Medicine*, 11(4), 695-702. <https://doi.org/10.1089/acm.2005.11.695>

Vassy, Z. (2004). A Study of Telepathy by Classical Conditioning. *Journal of Parapsychology*, 68(2), 323-350.

#### **37/00 – “Mechanisms of PSI performance”**

Investigadores/Researchers: Marios Kittenis, Robert Morris

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 2001/01 – 2004/04

##### *Peer-reviewed publications*

Kittenis, M. (2011). Anomalous Anticipatory Event-Related EEG Activity in a Face Recognition Memory Task. *Journal of Parapsychology*, 75(2), 204-206.

Kittenis, M., Caryl, P. G., & Stevens, P. (2004). Distant psychophysiological effects between related and unrelated participants. In S. Schmidt (Ed.), *Proceedings of The Parapsychological Association Convention* (pp. 67-76).

#### **52/00 – “Seeking the Intuition Response: Exploring the Human Electrodermal ‘Presponse’ as a Reliable Indicator of Precognitive Intuition”**

Investigador/Researcher: Richard S. Broughton

Instituição/Institution: Intuition Laboratories, Durham (USA)

Duração/Duration: 2000/12 – 2002/08

##### *Peer-reviewed publications*

Broughton, R. (2004). Exploring the reliability of the “presentiment” effect. In *Proceedings of the presented papers of the 47th Parapsychological Association Convention* (pp. 15-26). Vienna, Austria.

**54/00 – “Effect of Galvanic Skin Response (GSR) biofeedback on seizure frequency in patients with poorly controlled epilepsy”**

Investigadores/Researchers: Yoko Nagai, Michael Trimble, Peter Fenwick, Laura Goldstein, John Lumsden  
Instituição/Institution: Institute of Neurology, University College London (UK)

Duração/Duration: 2001/05 – 2003/03

*Peer-reviewed publications*

Nagai, Y., & Trimble, M. R. (2014). Long-term effects of electrodermal biofeedback training on seizure control in patients with drug-resistant epilepsy: Two case reports. *Epilepsy Research*, 108(1), 149-152. <https://doi.org/10.1016/j.eplepsyres.2013.10.004>

Nagai, Y. (2011). Biofeedback and epilepsy. *Current Neurology and Neuroscience Reports*, 11(4), 443-450. <https://doi.org/10.1007/s11910-011-0201-3>

Nagai, Y., Critchley, H. D., Rothwell, J. C., Duncan, J. S., & Trimble, M. R. (2009). Changes in cortical potential associated with modulation of peripheral sympathetic activity in patients with epilepsy. *Psychosomatic Medicine*, 71(1), 84-92. <https://doi.org/10.1097/PSY.0b013e31818f667c>

Nagai, Y., Critchley, H. D., Featherstone, E., Fenwick, P., Trimble, M. R., & Dolan, R. J. (2004). Brain activity relating to the Contingent Negative Variation (CNV): fMRI investigation. *NeuroImage*, 21(4), 1232-1241. <https://doi.org/10.1016/j.neuroimage.2003.10.036>

Nagai, Y., Critchley, H. D., Featherstone, E., Trimble, M. R., & Dolan, R. J. (2004). Activity in ventromedial prefrontal cortex covaries with sympathetic skin conductance level (SCL): A physiological account of a "default mode" of brain function. *NeuroImage*, 22(1), 243-251. <https://doi.org/10.1016/j.neuroimage.2004.01.019>

Nagai, Y., Goldstein, L., Critchley, H. D., & Fenwick, P. (2004). Influence of sympathetic autonomic arousal on contingent negative variation: implications for a therapeutic behavioural intervention in epilepsy. *Epilepsy Research*, 58(2/3), 185-193. <https://doi.org/10.1016/j.eplepsyres.2004.02.004>

Nagai, Y., Goldstein, L., Fenwick, P., & Trimble, M. R. (2004). Clinical efficacy of biofeedback treatment on reducing seizures in adult epilepsy: a preliminary randomized controlled study. *Epilepsy & Behaviour*, 5(2), 216-223. <https://doi.org/10.1016/j.yebeh.2003.12.003>

**58/00 – “Are ESP and PK aspects of a unitary phenomenon? Considering the relationship between ESP and PK”**

Investigadores/Researchers: Chris A. Roe, Paul Stevens

Instituição/Institution: University College Northampton (UK)

Duração/Duration: 2001/01 – 2003/10

*Peer-reviewed publications*

Roe, C. A., Davey, R., & Stevens, P. (2006). Experimenter effects in laboratory tests of ESP and PK using a common protocol. *Journal of Scientific Exploration*, 20(2), 239-253.

Roe, C. A., Davey, R., & Stevens, P. (2005). Are ESP and PK aspects of a unitary phenomenon? The effects of deception when testing the relationship between ESP and PK. *Journal of the Society for Psychical Research*, 69, 18-32.

Roe, C. A., Davey, R., & Stevens, P. (2004). Arousal and performance at ESP and PK tasks using a common protocol. *European Journal of Parapsychology*, 19, 29-43.

Roe, C.A., Davey, R., & Stevens, P. (2004). Experimenter effects in laboratory tests of ESP and PK using a common protocol. *Proceedings of Presented Papers: The Parapsychological Association 47th Annual Convention* (pp. 185-196).

Roe, C. A., Davey, R., & Stevens, P. (2003). Are ESP and PK aspects of a unitary phenomenon? A preliminary test of the relationship between ESP and PK. *Journal of Parapsychology*, 67(2), 343-366.

Roe, C.A., Davey, R., & Stevens, P. (2003) Are ESP and PK aspects of a unitary phenomenon? A further test of the relationship between ESP and PK. *Proceedings of Presented Papers: The Parapsychological Association 46th Annual Convention*, 222-236.

Roe, C.A., Davey, R., & Stevens, P. (2002) Are ESP and PK aspects of a unitary phenomenon? A preliminary test of the relationship between ESP and PK. *Proceedings of Presented Papers: The Parapsychological Association 45th Annual Convention*, 166-181.

**61/00 – “Changes in mismatch negativity during hypnosis as an indicator of susceptibility to both hypnosis and to paranormal experiences”**

Investigadores/Researchers: John Howard Gruzelier, Graham Jamieson

Instituição/Institution: Imperial College School of Medicine, London (UK)

Duração/Duration: 2001/01 – 2002/03

*Peer-reviewed publications*

Jamieson, G., Dwivedi, P., & Gruzelier, J. H. (2005). Changes in mismatch negativity across prehypnosis, hypnosis and post-hypnosis conditions distinguish high from low hypnotic susceptibility groups. *Brain Research Bulletin*, 67(4), 298-303. <https://doi.org/10.1016/j.brainresbull.2005.06.033>

Gruzelier, J. H., De Pascalis, V., Jamieson, G., Laidlaw, T., Dwivedi, P., Naito, A., Bennett, B., & Gruzelier, J. H. (2004). Relations between hypnotisability and psychopathology revisited. *Contemporary Hypnosis*, 21(4), 169–176. <https://doi.org/10.1002/ch.304>

Jamieson, G., & Gruzelier, J. H. (2001). Hypnotic susceptibility is positively related to a subset of schizotypy items. *Contemporary Hypnosis*, 18(1), 32-37. <https://doi.org/10.1002/ch.214>

**66/00 – “Anosognosia - bases biológicas da unidade da consciência”**

Investigadores/Researchers: Isabel Pavão Martins, Clara de Santos Loureiro, José M. Ferro, Tânia Fernandes

Instituição/Institution: Centro de Estudos Egas Moniz, Hospital Sta. Maria, Lisboa (Portugal)

Duração/Duration: 2002/06 – 2004/06

*Peer-reviewed publications*

Loureiro, C. (2003). Inatenção hemi-espacial selectiva: Manifestações na criança. *Psychologica*, 34, 215-230.

Loureiro, C. (2002). Técnicas de reabilitação da inatenção hemiespacial selectiva. *Psicologia*, 16(1), 177-195.

**67/00 – “Pain Control from the Brain. Novel approaches of chronic pain treatment through manipulation of supraspinal areas”**

Investigadores/Researchers: Deolinda Lima, Isaura Ferreira Tavares, Armando Alberto da Nova Pinto de Almeida, Christophe Dugast, Vasco Miguel Clara Lopes Galhardo, Marta Sofia Carvalho Teixeira Pinto

Instituição/Institution: Instituto de Histologia e Embriologia da Fac. Medicina do Porto (Portugal)

Duração/Duration: 2000/12 – 2003/12

*Peer-reviewed publications*

Dugast, C., Almeida, A., & Lima, D. (2003). The medullary dorsal reticular nucleus enhances the responsiveness of spinal nociceptive neurons to peripheral stimulation in the rat. *European Journal of Neuroscience*, 18(3), 580-588. <https://doi.org/10.1046/j.1460-9568.2003.02782.x>

Galhardo, V., Apkarian, A. V., & Lima, D. (2002). Peripheral inflammation increases the functional coherency of spinal responses to tactile but not nociceptive stimulation. *Journal of Neurophysiology*, 88(4), 2096-2103. <https://doi.org/10.1152/jn.00720.2001>

Pinto, M., Tavares, I., Castro-Lopes, J. M., & Lima, D. (2002). Noxious evoked c-fos expression in brainstem neurons immunoreactive for GABAB,  $\mu$ -opioid and NK1 receptors. *European Journal of Neuroscience*, 17(7), 1393-1402. <https://doi.org/10.1046/j.1460-9568.2003.02586.x>

**71/00 – “Experimental Enhancement of Receptive Psi by Transcerebral Application of Complex Magnetic Fields”**

Investigadores/Researchers: Michael A. Persinger, Linda St-Pierre, Sandra Tiller

Instituição/Institution: Laurentian University, Ontario (Canada)

Duração/Duration: 2000/12 – 2003/03

*Peer-reviewed publications*

Booth, J. N., & Persinger, M. A. (2009). Discrete shifts within the theta band between the frontal and parietal regions of the right hemisphere and the experiences of a sensed presence. *Journal of Neuropsychiatry and Clinical Neurosciences*, 21(3), 279-283. <https://doi.org/10.1176/jnp.2009.21.3.279>

Booth, J. N., Koren, S. A., & Persinger, M. A. (2008). Increased theta activity in quantitative electroencephalographic (QEEG) measurements during exposure to complex weak magnetic fields. *Electromagnetic Biology and Medicine*, 27(4), 426-436. <https://doi.org/10.1080/15368370802493719>

Persinger, M. A., Koren, S. A., & Tsang, E. W. (2003). Enhanced power within a specific band of theta activity in one person while another receives circumcerebral pulsed magnetic fields: a mechanism for cognitive influence at a distance? *Perceptual and Motor Skills*, 97(3), 877-894. <https://doi.org/10.2466/PMS.97.7.877-894>



Booth, J. N., Charette, J. C., & Persinger, M. A. (2002). Ranking of stimuli that evoked memories in significant others after exposure to circumcerebral magnetic fields: Correlations with ambient geomagnetic activity. *Perceptual and Motor Skills*, 95(2), 555-558. <https://doi.org/10.2466/pms.2002.95.2.555>

Koren, S. A., & Persinger, M. A. (2002). Possible disruption of remote viewing by complex weak magnetic fields around the stimulus site and the possibility of accessing real phase space: a pilot study. *Perceptual and Motor Skills*, 95(3), 989-998. <https://doi.org/10.2466/pms.2002.95.3.989>

Persinger, M. A. (2002). Geophysical variables and behavior: XCVIII, ambient, geomagnetic activity and experiences of "memories" interactions with sex and implications for receptive psi experiences. *Perceptual and Motor Skills*, 94(3), 1271-1282. <https://doi.org/10.2466/PMS.94.4.1271-1282>

Persinger, M. A., Cook, C. M. & Tiller, S. (2002). Enhancement of images of possible memories of others during exposure to circumcerebral magnetic fields: correlations with ambient geomagnetic activity. *Perceptual and Motor Skills*, 95(2), 531-543. <https://doi.org/10.2466/PMS.95.5.531-543>

Persinger, M. A., Roll, W. G., Tiller, S., Koren, S. A., & Cook, C. M. (2002). Remote viewing with the artist Ingo Swann: Neuropsychological profile, electroencephalographic correlates, magnetic resonance imaging (MRI), and possible mechanisms. *Perceptual and Motor Skills*, 94(3), 927-949. <https://doi.org/10.2466/pms.2002.94.3.927>

Richards, M. A., Koren, S. A., & Persinger, M. A. (2002). Circumcerebral application of weak complex magnetic fields with derivatives and changes in electroencephalographic power spectra within the theta range: implications for states of consciousness. *Perceptual and Motor Skills*, 95(2), 671-686. <https://doi.org/10.2466/pms.2002.95.2.671>

#### **77/00 – “Psi Reinforcement of Stochastic Mentation - the PRiSM model of dyadic ESP”**

Investigador/Researcher: Paul Stevens

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 2001/01 – 2002/12

##### *Peer-reviewed publications*

Stevens, P. (2009). Are our assumptions more anomalous than the phenomena? In M. Smith (Ed.), *Anomalous experiences: Essays from parapsychological and psychological perspectives* (pp. 50-60). Jefferson, NC: McFarland.

Stevens, P. (2004). Experimental evaluation of a feedback-reinforcement model for dyadic ESP. *Journal of Parapsychology*, 68(1), 65-92.

Stevens, P. (2002). Can we differentiate between ESP and Imagination? *Journal of the Society for Psychical Research*, 66.4, 239-246.

#### **78/00 – “Psi and the Cognitive Unconscious”**

Investigadores/Researchers: Robert Morris, Stuart Wilson

Instituição/Institution: The University of Edinburgh (UK)

Duração/Duration: 2001/02 – 2002/03

##### *Peer-reviewed publications*

Wilson, S. (2002). Psi, perception without awareness and false recognition. *Journal of Parapsychology*, 66(3) 271-291

#### **87/00 – “A Controlled Analysis of Subjective Paranormal Experiences in Temporal Lobe Dysfunction in a Neuropsychiatric Population”**

Investigadores/Researchers: John A. Palmer, Vernon M. Neppe, Heidi Nebel, Stacie Magill

Instituição/Institution: Rhine Research Center e Pacific Neuropsychiatric Institute, Durham/Seattle (USA)

Duração/Duration: 2000/12 – 2002/02

##### *Peer-reviewed publications*

Palmer, J., & Neppe, V. M. (2004). Exploratory analyses of refined predictors of subjective ESP experiences and temporal lobe dysfunction in a neuropsychiatric population. *European Journal of Parapsychology*, 19, 44-65.

Palmer, J., & Neppe, V. M. (2003). A controlled analysis of subjective paranormal experiences in a neuropsychiatric population. *Journal of Parapsychology*, 67(1), 75-97.

Palmer, J., Neppe, V. M., Nebel, H., & Magill, S. (2001). A controlled analysis of subjective paranormal experiences in temporal lobe dysfunction in a neuropsychiatric population. In *Proceedings of presented papers of the Parapsychological Association 44th Annual Convention* (pp. 218-234). New York, NY: Parapsychological Association.





## Apoios à Investigação Científica 2002/03 | Grants for Scientific Research 2002/03

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 01/02 – “The investigation of telepathy and the sense of being stared at in humans and animals”

Investigadores/Researchers: Rupert Sheldrake, Pam Smart, Kara Murray

Instituição/Institution: Centre for the Seven Experiments Project, London (UK)

Duração/Duration: 2003/03 – 2005/04

#### Peer-reviewed publications

Sheldrake, R. (2005). The sense of being stared at - Part 1: Is it real or illusory? *Journal of Consciousness Studies*, 12(6), 10-31.

Sheldrake, R. (2005). The sense of being stared at - Part 2: Its implications for theories of vision. *Journal of Consciousness Studies*, 12(6), 32-49.

Sheldrake, R. (2005). The non-visual detection of staring - Response to commentators. *Journal of Consciousness Studies*, 12(6), 117-126.

Sheldrake, R., & Smart, P. (2005). Testing for telepathy in connection with e-mails. *Perceptual and Motor Skills*, 101(3), 771-786. <https://doi.org/10.2466/pms.101.3.771-786>

Sheldrake, R. (2004a). Investigaciones experimentales en telepatia por teléfono. *Revista Argentina de Psicología Paranormal*, 15, 209-230.

Sheldrake, R., Godwin, H. & Rockell, S. (2004). A filmed experiment on telephone telepathy with the Nolan sisters. *Journal of the Society for Psychical Research*, 68, 168-172.

### 03/02 – “The neural structures involved in procedural memory”

Investigadores/Researchers: Sara Cavaco, Alexandre Castro-Caldas, Steven Anderson

Instituição/Institution: Centro de Estudos Egas Moniz, Lisboa (Portugal)

Duração/Duration: 2003/11 – 2006/10

#### Peer-reviewed publications

Cavaco, S., Gonçalves, A., Pinto, C., Almeida, E., Gomes, F., Moreira, I., Fernandes, J., & Texeira-Pinto, A. (2015). Auditory verbal learning test in a large nonclinical Portuguese population. *Applied Neuropsychology: Adult*, 22(5), 321-331. <https://doi.org/10.1080/23279095.2014.927767>

Cavaco, S., Anderson, S., Correia, M., Magalhães, M., Pereira, C., Tuna, A. . . . Damásio, H. (2011). Task specific contribution of the human striatum to perceptual-motor skill learning. *Journal of Clinical and Experimental Neuropsychology*, 33(1), 51-62. <https://doi.org/10.1080/13803395.2010.493144>

Cavaco, S., Pinto, C., Gonçalves, A., Gomes, F., Pereira, A., Silva, S., Matos, P., & Malaquias, C. (2008). Auditory Verbal Learning Test: Dados Normativos dos 21 aos 65 anos. *Psychologica*, 49, 208-221.

Cavaco, S., Pinto, C., Gonçalves, A., Gomes, F., Pereira, A., Silva, S., Matos, P., & Malaquias, C. (2008). Trail Making Test: Dados Normativos dos 21 aos 65 anos. *Psychologica*, 49, 222-238.

### 11/02 – “Os efeitos dos jogos electrónicos com equipamento de Realidade Virtual na activação psicofisiológica, estruturas cognitivas, estado emocional e comportamento agressivo”

Investigadores/Researchers: Patrícia Paula Lourenço e Arriaga Ferreira, Francisco Esteves, Mara Paula Carneiro

Instituição/Institution: Centro de Estudos de Psicologia Cognitiva e da Aprendizagem, Lisboa (Portugal)

Duração/Duration: 2003/09 – 2006/11

#### Peer reviewed publication

Arriaga, P., Esteves, F., Carneiro, P., & Monteiro, M. B. (2008). Are the effects of unreal violent videogames pronounced when playing with a virtual reality system? *Aggressive Behavior*, 34(5), 521-538.

## 15/02 – “Bases psicofisiológicas dos fenómenos de consciência visual”

Investigadores/Researchers: Miguel de Sá Castelo Branco, Lajos Kozak, Mafalda Mendes, Vasco Forjaz, Manuela Guerreiro

Instituição/Institution: Centro de Oftalmologia, Coimbra (Portugal)

Duração/Duration: 2003/01 – 2005/12

### Peer-reviewed publications

Castelo-Branco, M., Mendes, M., Silva, F., Massano, J., Januario, G., Januario, C., & Freire, A. (2009). Motion integration deficits are independent of magnocellular impairment in Parkinson's disease. *Neuropsychologia*, 47(2), 314-320. <https://doi.org/10.1016/j.neuropsychologia.2008.09.003>

Kozak, L., & Castelo-Branco, M. (2008). Peripheral influences on motion integration in foveal vision are modulated by central local ambiguity and center-surround congruence. *Investigative Ophthalmology and Visual Science*, 50(2), 980-988. <https://doi.org/10.1167/iops.08-2094>

Silva, M. F., Maia-Lopes, S., Mateus, C., Guerreiro, M., Sampalo, J., Faria, P., & Castelo-Branco, M. (2008). Retinal and cortical patterns of spatial anisotropy in contrast sensitivity tasks. *Vision Research*, 48(1), 127-135. <https://doi.org/10.1016/j.visres.2007.10.018>

Castelo-Branco, M., Mendes, M., Sebastiao, A., Reis, A., Soares, M., Saraiva, J., ... Silva, E. (2007). Visual phenotype in Williams-Beuren syndrome challenges magnocellular theories explaining human neurodevelopmental visual cortical disorders. *Journal of Clinical Investigation*, 117(12), 3720-3729. <https://doi.org/10.1172/jci32ss6>

Biedlerack, J., Castelo-Branco, M., Neuenschwander, S., Wheeler, D., Singer, W., & Nikolic, D. (2006). Brightness induction: Rate enhancement and neuronal synchronization as complementary codes. *Neuron*, 52(6), 1073-1083. <https://doi.org/10.1016/j.neuron.2006.11.012>

Castelo-Branco, M., Mendes, M., Silva, M. F., Januario, C., Machado, E., Pinto, A., ... Freire, A. (2006). Specific retinotopically based magnocellular impairment in a patient with medial visual dorsal stream damage. *Neuropsychologia*, 44(2), 238-253. <https://doi.org/10.1016/j.neuropsychologia.2005.05.005>

Castelo-Branco, M., Silva, M. F., Januario, C., & Freire, A. (2006). Concomitant impairment of multiple visual pathways in Parkinson's disease. *Brain*, 129(12), e62. <https://doi.org/10.1093/brain/awl293>

Schmidt, K., Castelo-Branco, M., Goebel, R., Payne, B., Lomber, S., & Galuske, R. (2006). Pattern motion selectivity in population responses of area 18. *European Journal of Neuroscience*, 24(8), 2363-2374. <https://doi.org/10.1111/j.1460-9568.2006.05112.x>

Fries, P., Castelo-Branco, M., Engel, A., & Singer, W. (2005). The functional role of oscillatory neuronal synchronization for perceptual organization and selection In R. Blake & D. Alais (Eds.), *Binocular Rivalry and Perceptual Ambiguity* (pp. 259-281). Cambridge, MA: MIT Press.

Mendes, M., Silva, F., Simoes, L., Jorge, M., Saraiva, J., & Castelo-Branco, M. (2005). Visual magnocellular and structure from motion perceptual deficits in a neurodevelopmental model of dorsal stream function. *Cognitive Brain Research*, 25(3), 788-798. <https://doi.org/10.1016/j.cogbrainres.2005.09.005>

Silva, M. F., Faria, P., Regateiro, F. S., Forjaz, V., Januario, C., Freire, A., & Castelo-Branco, M. (2005). Independent patterns of damage within magno-, parvo- and koniocellular pathways in Parkinson's disease. *Brain*, 128, 2260-2271. <https://doi.org/10.1093/brain/awh581>

## 20/02 – “Psychophysiological mechanisms of some aspects of neurocognitive deficit in schizophrenic patients”

Investigadores/Researchers: Valeria Strelets, Janna Golikova, Vladimir Novototsky-Vlasov, R.A. Magomedov, M.V. Magomedova

Instituição/Institution: Institute of Higher Nervous Activity and Neurophysiology, Russian Academy of Sciences (Russia)

Duração/Duration: 2003/02 – 2004/12

### Peer-reviewed publications

Magomedov, R. A., Garakh, Z. H., Orekhov, Iu. V., Zaitseva, Iu. S., & Strelets, V. (2010). Gamma-rhythm, positive, negative symptoms and cognitive dysfunction in schizophrenia [in Russian]. *Zh Nevrol Psikhiatr Im S S Korsakova*, 110(1), 78-83.

Medkour, T., Walden, A. T., Burgess, A., & Strelets, V. (2010). Brain connectivity in positive and negative syndrome schizophrenia. *Neuroscience*, 169(4), 1779-1788. <https://doi.org/10.1016/j.neuroscience.2010.05.060>

Strelets, V., Faber, P., Golikova, J., Novototsky-Vlasov, V. Y., Koenig, T., ... , Lehmann, D. (2003). Chronic schizophrenics with positive symptomatology have shortened EEG microstate durations. *Clinical Neurophysiology*, 114, 2043-2051.

**21/02 – “The use of an implicit grammar task and eye measurements to study the somatic marker hypothesis”**

Investigadores/Researchers: Dick Bierman, Axel Cleeremans, Eveline Crone

Instituição/Institution: Psychology Research Institute, Amsterdam (The Netherlands)

Duração/Duration: 2003/01 – 2005/01

*Peer-reviewed publications*

Bierman, D. J., Destrebecqz, A., & Cleeremans, A. (2005). Intuitive decision making in complex situations: Somatic markers in an artificial grammar learning task. *Cognitive, Affective, & Behavioral Neuroscience*, 5(3), 297-305.

**25/02 – “Vinculação e regulação autonómica: desenvolvimento da versão 2.0 do BioDreAMS e aplicação a um grupo não-clínico”**

Investigadores/Researchers: Isabel Maria Costa Soares, João Paulo Silva Cunha, Carlos da Silva Fernandes, Paulo Manuel Machado, Ovídio Costa, Maria Carolina Costa e Silva

Instituição/Institution: Centro de Investigação em Psicologia, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2003/05 – 2006/09

*Peer-reviewed publications*

Dias, P., Soares, I., Klein, J., Cunha, J., & Roisman, G. (2011). Autonomic Correlates of Attachment Insecurity in a Sample of Women with Eating Disorders. *Attachment and Human Development*, 13(2), 155-168.

Soares, I., Machado, P., Dias, P. & Klein, J. (2008). Bindung und Ess-Störungen. In B. Strauss (Ed), *Bindung und psychopathologie* (pp. 188-211). Munchen: Klett-Cotta.

Soares, I. & Dias, P. (2007). Apego y psicopatología en jóvenes y adultos: Contribuciones recientes de la investigación. *International Journal of Clinical and Health Psychology*, 7(1), 177-195.

Soares, I., Dias, P., Fernandes, C., Klein, J., Freitas, A., Ferreira, A., Felgueiras, I., Pinho, A., Figueiredo, B., Jongenelen, I., Matos, R., Gonçalves, S., Machado, P. & Cunha, J. (2002). Actividade psicofisiológica durante a AAI em pacientes com perturbações alimentares: estudo preliminar com análise de casos. *Psicologia: Teoria, Investigação e Prática*, 7(1), 143-158.

**27/02 – “Anomalous/paranormal detection using psi-reading tests (Phase II): New parapsychological, psychological and neuropsychological exploration data through seven tests with selected/non-selected subjects”**

Investigadores/Researchers: Alejandro Parra, Juan Carlos Argibay

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)

Duração/Duration: 2003/03 – 2005/01

Parra, A. (2018). Perceptual-personality variables associated with entity encounter experiences. *Australian Journal of Parapsychology*, 18(1), 23-48.

Parra, A., & Argibay, J.C. (2016). Individual, perceptual and psychological differences between psi-tested self-claimed psychics and non-psychics. *Australian Journal of Parapsychology*, 16(1), 63-84.

Parra, A. (2015) Límite "fino" y transliminalidad en relación con experiencias aparicionales. *Pensamiento Psicológico*, 7-12-2015.

Parra, A. (2015). Estilos de defensa predominantes en relación con experiencias anómalo/paranormales. *Liberabit*, 21(1), 115-121.

Parra, A., & Argibay, J.C. (2014). Psi y la muerte: Un experimento con representaciones icónicas altamente emocionales. *E-boletín Psi*, 9, 2. [http://www.alipsi.com.ar/e-boletin/E-BOLETIN%20PSI\\_Vol.9\\_No.2\\_Mayo\\_2014.htm#tit03](http://www.alipsi.com.ar/e-boletin/E-BOLETIN%20PSI_Vol.9_No.2_Mayo_2014.htm#tit03)

Parra, A., & Argibay, J. C. (2013). Anomalous remote diagnosis: Mental and motor psi impressions under iconic representation of the person-target. *Journal of Parapsychology*, 77(1), 123-130.

Parra, A., & Argibay, J. C. (2012). Dissociation, absorption, fantasy proneness and sensation-seeking in psychic claimants. *Journal of the Society for Psychical Research*, 76.4(909), 193-203.

Parra, A. (2012). Una exploración experimental de la psicometría usando fotografías y nombres. *E-boletín Psi*, 7, 3. [http://www.alipsi.com.ar/e-boletin/e-boletin\\_psi\\_7\\_3\\_Septiembre\\_2012.htm#tit03](http://www.alipsi.com.ar/e-boletin/e-boletin_psi_7_3_Septiembre_2012.htm#tit03)

Parra, A. (2011). ¿Qué es... *Sensibilidad Psíquica?* Buenos Aires, Argentina: Longseller.

Parra, A. & Argibay, J. C. (2009). An experimental study with ordinary people for testing “sacred” objects through psi detection. *Journal of the Society for Psychical Research*, 73.1 (894), 41-49.

Parra, A., & Argibay, J. C. (2009). "Face-to-face" psychic vs. "remote" psychic readings: Comparing psychics/non-psychic groups mediatized by "token-object" effect. *Australian Journal of Parapsychology*, 9, 57-69.

Parra, A. & Argibay, J. C. (2009). Research brief: an experimental study with ordinary people for testing “sacred” objects through psi detection. *Journal of the Society of Physical Research*, 73(1), 41-49.

Parra, A., & Argibay, J. C. (2009). Un experimento de psicometría bajo condiciones de sesiones "cara a cara" en comparación con lecturas "a distancia": Comparando psíquicos y no psíquicos. *E-boletín Psi*, 5, 1.

Parra, A., & Argibay, J. C. (2008). Reading faces: An experimental exploration of psychometry using photographs and names. *Australian Journal of Parapsychology*, 8, 47-57.

Parra, A., & Argibay, J. C. (2007). Comparing a free-response psychometry test with a free-response visual imagery test for a non-psychic sample. *Journal of the Society for Psychical Research*, 71.2(887), 91-99.

Parra, A., & Argibay, J. C. (2007). Comparing psychics and non-psychics through a "token-object" forced choice ESP test. *Journal of the Society for Psychical Research*, 71.2(887), 80-90.

Parra, A., & Argibay, J. C. (2007). Interrelación entre disociación, absorción y propensión a la fantasía con experiencia alucinatorias en poblaciones no-psicóticas. *Persona*, 10, 213-231

## **28/02 – "Emotional factors in placebo analgesia: Psychophysiological experiments"**

Investigadores/Researchers: Magne Arve Flaten, Oddmund Johansen, Terje Simonsen, Jan Brox, Arnstein Finset

Instituição/Institution: Department of Clinical Research, University Hospital of North Norway (Norway)

Duração/Duration: 2003/03 – 2006/10

### *Peer-reviewed publications*

Aslaksen, P., Myrbakk, I., Høifødt, R., & Flaten, M. (2007). The effect of experimenter gender on autonomic and subjective responses to pain stimuli. *Pain*, 129(3), 260-268. <https://doi.org/10.1016/j.pain.2006.10.011>

Flaten, M. A., Aslaksen, P., Finset, A., Simonsen, T., & Johansen, O. (2006). Cognitive and emotional factors in placebo analgesia. *Journal of Psychosomatic Research*, 61(1), 81-89. <https://doi.org/10.1016/j.jpsychores.2005.12.004>

Friborg, O., Hjemdal, O., Rosenvinge, J. H., Martinussen, M., Aslaksen, P. M., & Flaten, M. A. (2006). Resilience as a moderator of pain and stress. *Journal of Psychosomatic Research*, 61(2), 213-219. <https://doi.org/10.1016/j.jpsychores.2005.12.007>

## **30/02 – "Exploring the limits of human perception: The psychological and physiological detection of normal and remote staring"**

Investigadores/Researchers: Ian Baker, Paul Stevens

Instituição/Institution: Koestler Parapsychology Unit, The University of Edinburgh (UK)

Duração/Duration: 2004/01 – 2005/05

### *Peer-reviewed publications*

Baker, I. S., & Stevens, P. (2013). An anomaly of an anomaly: Investigating the cortical electrophysiology of remote staring detection. *Journal of Parapsychology*, 77(1), 107-122.

Baker, I. S. & Stevens, P. (2008). An investigation into the cortical electrophysiology of remote staring detection. In S. Sherwood & B. Carr (Eds.), *Proceedings of the Parapsychological Association 51st & the Society for Psychical Research 32nd Annual Convention* (pp. 8-23). The Parapsychological Association, Inc.

## **35/02 – "Near-death experiences during induced cardiac arrest"**

Investigadores/Researchers: Bruce Greyson, Paul Mounsey, Martha Mercier, Janet Holden

Instituição/Institution: Division of Personality Studies, University of Virginia (USA)

Duração/Duration: 2003/06 – 2007/03

### *Peer-reviewed publications*

Greyson, B., Holden, J. M., & Mounsey, J. P. (2006). Failure to elicit near-death experiences in induced cardiac arrest. *Journal of Near-Death Studies*, 25, 85-98.

## **37/02 – "Investigating individual differences in EDA response to emotional stimuli in a DMILS paradigm"**

Investigadores/Researchers: Peter Ramakers, Paul Stevens

Instituição/Institution: Koestler Parapsychology Unit, The University of Edinburgh (UK)

Duração/Duration: 2004/01 – 2007/01

### *Peer-reviewed publications*

Ramakers, P. (2008). ESP of emotions using skin conductance as indicator of psi. *Journal of the Society for Psychical Research*, 72.1(890), 21-33.

Ramakers, P., Stevens, P., & Morris R. L. (2005). The effect of remote emotion on receiver skin conductance. *Proceedings of the 29<sup>th</sup> International Conference of the Society for Psychical Research*, Bath.



#### **46/02 – “Preservation and change in two temperamental types”**

Investigadores/Researchers: Jerome Kagan, Nancy Snidman

Instituição/Institution: Harvard University Psychology Department, Cambridge (USA)

Duração/Duration: 2003/01 – 2005/09

##### *Peer-reviewed publications*

Kagan, J., Snidman, N., Kahn, V., Towsley, S., Steinberg, L., & Fox, N. (2007). The preservation of two infant temperaments into adolescence. *Monographs of the Society for Research in Child Development*, 72(2), vii, 1-95.

Kagan, J. (2004). The limitations of concepts in developmental psychology. *Merrill-Palmer Quarterly-Journal of Developmental Psychology*, 50(3), 291-298. <https://doi.org/10.1353/mpq.2004.0019>

Kagan, J. (2004). *The long shadow of temperament*. Cambridge, MA: Harvard University Press.

#### **47/02 – “Effects of distant emotions on the human enteric nervous system”**

Investigadores/Researchers: Marilyn Schlitz, Dean Radin

Instituição/Institution: Institute of Noetic Sciences, California (USA)

Duração/Duration: 2003/01 – 2004/03

##### *Peer-reviewed publications*

Radin, D., & Schlitz, M. (2005). Gut feelings, intuition, and emotions: An exploratory study. *Journal of Alternative and Complementary Medicine*, 11(1), 85-91. <https://doi.org/10.1089/acm.2005.11.85>

#### **51/02 – “Psychological and parapsychological investigations of alleged alien abductees: Phase I”**

Investigadores/Researchers: Christopher Charles French, Julia Samtomauro, Michael Thalbourne

Instituição/Institution: Anomalistic Psychology Research Unit, Goldsmiths College, University of London (UK)

Duração/Duration: 2003/10 – 2006/01

##### *Peer-reviewed publications*

French, C. C., Santomauro, J., Hamilton, V., Fox, R. & Thalbourne, M. A. (2008) Psychological aspects of the alien contact experience. *Cortex*, 44(10), 1387-1395.

#### **52/02 – “A qualitative analysis of rapport and alignment in experimenter-subject interaction in ganzfeld experiments”**

Investigador/Researcher: Robin Wooffitt

Instituição/Institution: Department of Sociology, University of York (UK)

Duração/Duration: 2003/07 – 2004/08

##### *Peer-reviewed publications*

Wooffitt, R., & Allistone, S. (2008). Participation, procedure and accountability: reported speech markers in a parapsychology experiment. *Discourse Studies*, 10, 407-427.

Wooffitt, R. (2007). Communication and laboratory experience in parapsychology experiments: demand characteristics and the social organization of interaction. *British Journal of Social Psychology*, 46(3) 477-498.

Wooffitt, R. (2006). The interactional basis of subjects' circumspect stance towards their imagery in mentation review stage of ganzfeld experiments. In *Proceedings of the 49th Annual Convention of the Parapsychological Association*. New York: The Parapsychological Association.

Wooffitt, R., & Allistone, S. (2005). Towards a discursive parapsychology - Language and the laboratory study of anomalous communication. *Theory & Psychology*, 15(3), 325-355. <https://doi.org/10.1177/0959354305053218>

Wooffitt, R. (2003). Conversation analysis and parapsychology: Experimenter-subject interaction in ganzfeld experiments. *Journal of Parapsychology*, 67(2), 299-323.

Wooffitt, R. (2003). Conversation analysis and parapsychology. In *Proceedings of the 46th Annual Convention of the Parapsychological Association* New York: The Parapsychological Association (pp. 305-328).

#### **54/02 – “Further developments and applications of the digital ganzfeld”**

Investigadores/Researchers: Adrian Parker, Joakim Westerlund

Instituição/Institution: Psychology Department, University of Gothenburg (Sweden)

Duração/Duration: 2003/02 – 2006/02

##### *Peer-reviewed publications*

Parker, A. (2010). A ganzfeld study using identical twins. *Journal of the Society for Psychical Research*, 74(899), 118-130.



Paulsson, T., & Parker, A. (2006). The Effects of a two week reflection-Intention training program on lucid dream Recall. *Dreaming: the Journal of the Association for the Study of Dreams*, 16(1), 22-35.

Westerlund, J., Parker, A., Dalkvist, J., & Hadlaczký, G. (2006). Remarkable correspondences between Ganzfeld mentation and target content – a psychical or psychological effect? *Journal of Parapsychology*, 70(1), 23-48.

Parker, A. (2003). We ask does psi exist? But is this right question and do we really want an answer anyway? *Journal of Consciousness Studies*, 10, 111-134.

Parker, A., & Brusewitz, G. (2003). A compendium of the evidence for Psi. *European Journal of Parapsychology*, 18, 33-52.

#### **55/02 – “Mapping the time course of emotional information processing in anxious and repressive/defensive individuals”**

Investigadores/Researchers: Nazanin Derakshan, Ottmar Lipp

Instituição/Institution: University of Leeds (UK) and University of Queensland (Australia)

Duração/Duration: 2003/04 – 2008/04

*Peer-reviewed publications*

Fox, E., Derakshan, N., & Shoker, L. (2008). Trait anxiety modulates the electrophysiological indices of rapid spatial orienting towards angry faces. *Neuroreport*, 19(3), 259-263.

#### **57/02 – “Implicit learning and parapsychology: Exploring the boundaries of unconscious processes”**

Investigador/Researcher: Stuart Wilson

Instituição/Institution: Queen Margaret University College, Edinburgh (UK)

Duração/Duration: 2003/04 – 2005/07

*Peer-reviewed publications*

Wilson, S., & Hamlin, I. (2007) Implicit Learning in a Card Prediction Task. *European Journal of Parapsychology*, 221, 3-29

#### **58/02 – “Vinculação materna: dimensões hormonais envolvidas no processo inicial de vinculação da mãe ao bebé”**

Investigadores/Researchers: Bárbara Fernandes Figueiredo, Raquel Costa, Alexandra Pacheco, Álvaro Ferreira Pais

Instituição/Institution: Centro de Investigação em Psicologia, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2003/01 – 2007/06

*Peer-reviewed publications*

Costa, R., Pacheco, A., & Figueiredo, B. (2012). Antecipação e experiência emocional de parto. *Psicologia, Saúde e Doenças*, 13(1), 2012, 15-35.

Figueiredo, B., Costa, R., Pacheco, A., & Conde, A. (2009). Mother's Stress, Mood and Emotional Involvement with the Infant: 3 months before and after childbirth. *Archives of Women's Mental Health*, 12(3), 143-153. <https://doi.org/10.1007/s00737-009-0059-4>.

Figueiredo, B., Costa, R., Pacheco, A., & Pais, A. (2009). Mother-to-infant emotional involvement at birth. *Maternal and Child Health Journal*. 13(4), 539-49. <https://doi.org/10.1007/s10995-008-0312-x>.

Conde, A., Figueiredo, B., Costa, R., Pacheco, A., & Pais, A. (2008). Perception of childbirth experience: Continuity and changes over the postpartum period. *Journal of Reproductive and Infant Psychology*, 26(2), 139-154. <https://doi.org/10.1080/02646830801918414>.

Costa, C., Pacheco, P. & Figueiredo, B. (2007). Prevalência e preditores de sintomatologia depressiva após o parto. *Revista de Psiquiatria Clínica*, 34(4), 157-165.

Figueiredo, B., Costa, R., Pacheco, A., Conde, A. & Teixeira, C. (2007). Anxiété, dépression et investissement émotionnel de l'enfant pendant la grossesse. *Devenir*, 19(3), 243-260.

Figueiredo, B., Costa, R., Pacheco, A., & Pais, A. (2007). Mother-to-infant and father-to-infant initial emotional involvement. *Early Child Development and Care*, 177(5), 521-532. <https://doi.org/10.1080/03004430600577562>

Figueiredo, B., Pacheco, A., & Costa, R. (2007). Depression during pregnancy and the postpartum period in adolescent and adult Portuguese mothers. *Archives of Women's Mental Health*, 10(3), 103-109. <https://doi.org/10.1007/s00737-007-0178-8>

Figueiredo, B. (2005). 'Bonding' pais-bebé. In I. Leal (Ed.), *Psicologia da gravidez e da parentalidade* (pp.287-314). Lisboa: Fim de Século.

Figueiredo, B., Costa, R., Marques A., Pacheco, A., & Pais, A. (2005). Envolvimento emocional inicial dos pais com o bebé. *Acta Pediátrica Portuguesa*, 36(2/3), 121-131.

Figueiredo, B., Marques, A., Costa, R., Pacheco, A., & Pais, A. (2005). Bonding: Escala para avaliar o envolvimento emocional dos pais com o bebé. *Psychologica*, 40, 133-154.

Costa, R., Figueiredo, B., Pacheco, A., Marques, A., & Pais, A. (2004). Questionário de experiência e satisfação com o parto (QESP). *Psicologia, Saúde e Doenças*, 5(2), 159-187.

Figueiredo, B. (2003). Vinculação materna: Contributo para a compreensão das dimensões envolvidas no processo inicial de vinculação da mãe ao bebé. *International Journal of Clinical and Health Psychology*, 3(3), 521-539.

#### **61/02 – “Investigation of mediums who claim to give information about deceased persons”**

Investigadores/Researchers: Emily Williams Kelly, Bruce Greyson, Jim Tucker, Dianne Arcangel, Edward Kelly

Instituição/Institution: Division of Personality Studies, University of Virginia (USA)

Duração/Duration: 2003/10 – 2008/01

*Peer reviewed publication*

Kelly, E., & Arcangel, D. (2011). An investigation of mediums who claim to give information about deceased persons. *Journal of Nervous and Mental Disease*, 199(1), 11-17. <https://doi.org/10.1097/NMD.0b013e31820439da>

#### **66/02 – “Considering the sender in ostensible ganzfeld ESP studies to be a PK source”**

Investigadores/Researchers: Chris Roe, Nicola Holt

Instituição/Institution: University College Northampton (UK)

Duração/Duration: 2003/12 – 2005/12

*Peer-reviewed publications*

Holt, N., & Roe, C. A. (2006). The sender as a PK agent in ESP studies: The Effects of agent and target system lability upon performance at a novel PK task. *Journal of Parapsychology*, 70(1), 49-67.

Roe, C. A., & Holt, N. (2006). The effects of strategy ('willing' versus absorption) and feedback (immediate versus delayed) on PK performance. *Journal of Parapsychology*, 70(1), 69-90

Roe, C. A., & Holt, N., (2006). Assessing the role of the sender as a PK agent in ESP studies: The effects of strategy ('willing' versus absorption) and feedback (immediate versus delayed) on psi performance. *Proceedings of Presented Papers: The Parapsychological Association 49th Annual Convention* (pp. 189-204).

Roe, C. A., & Holt, N. (2005). A further consideration of the sender as a PK agent in ganzfeld ESP studies. *Journal of Parapsychology*, 69, 113-127.

Holt, N. J., & Roe, C. A. (2005). The sender as a PK agent in ESP studies: The Effects of agent and target system lability upon performance at a novel PK task. *Proceedings of Presented Papers: The Parapsychological Association 48th Annual Convention*, (pp. 57-70).

Roe, C. A., & Holt, N., (2004). A further consideration of the sender as a PK agent in ganzfeld ESP studies. *Proceedings of Presented Papers: The Parapsychological Association 47th Annual Convention* (pp. 197-206).

Roe, C. A., Holt, N., & Simmonds, C. A. (2003). Considering the sender as a PK agent in ganzfeld ESP studies. *Journal of Parapsychology*, 67, 129-145.

#### **76/02 – “Extended communication of affective states: physiological and emotional responses to non-sensory stimuli”**

Investigador/Researcher: Paul Stevens

Instituição/Institution: Koestler Parapsychology Unit, The University of Edinburgh (UK)

Duração/Duration: 2004/01 – 2005/05

*Peer-reviewed publications*

Stevens, P. (2007). Affective response to 5 microT ELF magnetic field-induced physiological changes. *Bioelectromagnetics*, 28(2), 109-114. <https://doi.org/10.1002/bem.20280>

#### **81/02 – “Effects of GSM use of brain function and information processing - Phase I”**

Investigadores/Researchers: M. W. Arns, E.L.J.M. van Lijstelaar

Instituição/Institution: The Brain Resource Company, Nijmegen (The Netherlands)

Duração/Duration: 2003/01 – 2003/09

*Peer-reviewed publications*

Arns, M., Van Lijstelaar, G., Sumich, A., Hamilton, R., & Gordon, E. (2007). Electroencephalographic, personality, and executive function measures associated with frequent mobile phone use. *International Journal of Neuroscience*, 117(9), 1341-1360. <https://doi.org/10.1080/00207450600936882>

## 82/02 – “Comparative study of brain processes related to space-induced and clinical oculomotor disturbances”

Investigadores/Researchers: Inessa B. Kozlovskaya, Elena Tomilovskaya, Anna Kirenskaya, Vladimir Novototsky-Vlasov, Vadim Myamlin

Instituição/Institution: State Research Centre RF Institute for Biomedical Problems, Moscow (Russia)

Duração/Duration: 2003/02 – 2005/01

### Peer-reviewed publications

Kirenskaya, A., Kamenskov, M., Myamlin, V., Novototsky-Vlasov, V. Y., & Tkachenko, A. (2013). The antisaccade task performance deficit and specific CNV abnormalities in patients with stereotyped paraphilia and schizophrenia. *Journal of Forensic Sciences*, 58(5), 1219–1226. <https://doi.org/10.1111/1556-4029.12241>

Kirenskaya, A., Myamlin, V., Novototsky-Vlasov, V. Y., Pletnikov, M., & Kozlovskaya, I. (2011). The contingent negative variation laterality and dynamics in antisaccade task in normal and unmedicated schizophrenic subjects. *Spanish Journal of Psychology*, 14(2), 869-83. [https://doi.org/10.5209/rev\\_SJOP.2011.v14.n2.34](https://doi.org/10.5209/rev_SJOP.2011.v14.n2.34)

Slavutskaya, M., Kirenskaya, A., Novototsky-Vlasov, V. Y., Shulgovsky, V. & Kozlovskaya, I. (2005). Slow cortical potentials preceding visually guided saccades in schizophrenics. *Human physiology*, 31(5), 545-553. <https://doi.org/10.1007/s10747-005-0095-z>

Tomilovskaya, E., Kirenskaya, A., Novototsky-Vlasov, V. Y., & Kozlovskaya, I. (2004). Event-related EEG changes preceding saccadic eye movements before and after dry immersion. *Journal of Gravitational Physiology*, 11(2), 333-34.

## 88/02 – “A neuropsychological examination of orbitofrontal cortex function in eating disorders”

Investigadores/Researchers: Janet Treasure, Kate Tchanturia

Instituição/Institution: Institute of Psychiatry, King's College London (UK)

Duração/Duration: 2003/03 – 2004/09

### Peer-reviewed publications

Southgate, L., Tchanturia, K., Treasure, J. (2009). *Neuropsychological Studies in Eating Disorders: A Review*. New York: Nova Science.

Whitney, J., Easter, A., & Tchanturia, K. (2008). Service users' feedback on cognitive training in the treatment of anorexia nervosa: A qualitative study. *International Journal of Eating Disorders*, 41(6), 542–550. <https://doi.org/10.1002/eat.20536>

Tchanturia, K., Liao, P.-C., Uher, R., Lawrence, N., Treasure, J., Campbell, I. (2007). An investigation of decision making in anorexia nervosa using the Iowa Gambling Task and skin conductance measurements. *Journal of the International Neuropsychological Society*, 13(4), 635-641. <https://doi.org/10.1017/S1355617707070798>

Roberts, M., Dermietriou, L., Tchanturia, K. (2007). Neuropsychological profile in the overweight population: An exploratory study of set-shifting and detail focused processing styles. *Therapy*, 4(6), 821-824. <https://doi.org/10.2217/14750708.4.6.821>

Tchanturia, K., Campbell, I., Morris, R., Treasure, J. (2005). Neuropsychological studies in anorexia nervosa. *International Journal of Eating Disorders, Special Issue Anorexia Nervosa*, 37(S1), S72-S76. <https://doi.org/10.1002/eat.20119>

Campbell I, Tchanturia K, Connan F, Uher R. (2004) "Issues in Eating Disorders". *Journal of Georgian Psychiatry*.

## 90/02 – “Brain function, creativity, paranormal ideation and risk for psychosis”

Investigadores/Researchers: Alex Sumich, Michael Brammer, Dominic Ffytch

Instituição/Institution: Brain Image Analysis Unit, Institute of Psychiatry, King's College London (UK)

Duração/Duration: 2003/03 – 2005/04

### Peer-reviewed publications

Sumich, A., Harris, A., Whitford, T., Hermens, D., Heym, N., ..., Kumari, V. (2018). Neurophysiological correlates of excitement in men with recent-onset psychosis. *Psychiatra Danubina*, 30(1), 64-71. <https://doi.org/10.24869/psyd.2018.64>

Sumich, A., Castro, A., Anilkumar, A., Zachariach, E., & 1113i, V. (2013). Neurophysiological correlates of excitement in schizophrenia. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 46, 132–138. <https://doi.org/10.1016/j.pnpbp.2013.06.018>

Sumich, A., Kumari, V., Gorden, E., Tunstall, N., & Brammer, M. (2008). Event-related potential correlates of paranormal ideation and unusual experiences. *Cortex*, 44(10), 1342-1352. <https://doi.org/10.1016/j.cortex.2007.10.012>

Sumich, A., Harris, A., Flynn, G., Whitford, T., Tunstall, N., ..., & Williams, L. (2006). Event-related potential correlates of depression, insight and negative symptoms in males with recent-onset psychosis. *Clinical Neurophysiology*, 117(8), 1715-1727.

Sumich, A., Kumari, V., Heasman, B., Gordon, E., & Brammer, M. (2006). Abnormal asymmetry of N200 and P300 event-related potentials in subclinical depression. *Journal of Affective Disorders*, 92(2), 171-183.

#### **96/02 – “Face processing in 3-day-olds: an electrophysiological approach”**

Investigadores/Researchers: Olivier Pascalis, de Haan Michelle, Saachi Reza

Instituição/Institution: Department of Psychology, The University of Sheffield (UK)

Duração/Duration: 2003/01 – 2005/02

##### *Peer-reviewed publications*

Milne, E., Scope, A., Pascalis, O., Buckley, D., & Makeig, S. (2009). Independent component analysis reveals atypical electroencephalographic activity during visual perception in individuals with autism. *Biological Psychiatry*, 65(1), 22-30. <https://doi.org/10.1016/j.biopsych.2008.07.017>

#### **109/02 – “Retrocausal Signalling with Prestimulus Response”**

Investigador/Researcher: James Spottiswoode

Instituição/Institution: Geonet Technologies, Inc., Beverly Hills (USA)

Duração/Duration: 2003/02 – 2004/04

##### *Peer-reviewed publications*

Spottiswoode, J., & May, E. C. (2003). Skin conductance prestimulus response: Analyses, artifacts and a pilot study. *Journal of Scientific Exploration*, 17(4), 617-641.

#### **111/02 – “The pro attitude and its relationship to psi in a psychophysiological study involving the I Ching and the ProComp+ Neuro-biofeedback apparatus”**

Investigadores/Researchers: Michael Thalbourne, Lance Storm

Instituição/Institution: Anomalistic Psychology Research Unit, Dep. Psychology, University of Adelaide (Australia)

Duração/Duration: 2003/03 – 2004/09

##### *Peer-reviewed publications*

Thalbourne, M. A., & Storm, L. (2014). A further study of psychopraxia using the *I Ching*. *Australian Journal of Parapsychology*, 14, 115-142.

Storm, L., & Burns, N. R. (2007). Pro attitude and macro-PK: A pilot study using neuro-feedback and EMG biofeedback. *Australian Journal of Parapsychology*, 7, 112-133.

#### **117/02 – “Psiconeurofisiologia comparativa entre as memórias traumáticas de vida actual e as memórias traumáticas de supostas vidas passadas: SPECT cerebral em 20 pacientes submetidos à Terapia Regressiva Vivencial Peres”**

Investigadores/Researchers: Maria Júlia Prieto Peres, Júlio Prieto Peres, Regis Cavini Ferreira, Vivian Pires de Albuquerque

Instituição/Institution: Instituto Nacional de Pesquisa e Terapia Regressiva Vivencial Peres, São Paulo (Brasil)

Duração/Duration: 2003/01 – 2008/03

##### *Peer-reviewed publications*

Peres, J. F., Moores, K., Nasello, A. G., & McFarlane, A. (2008). Traumatic memories: bridging the gap between functional neuroimaging and psychotherapy. *Australian and New Zealand Journal of Psychiatry*, 42(6), 478-488.

Peres, J. F., Peres, M., & Nasello, A.G. (2008). Psychotherapy and Neurosciences: toward closer integration. *International Journal of Psychology*, 43(6), 943-957. <https://doi.org/10.1080/00207590701248487>

Peres, J. F., Newberg, A. B., Mercante, J. P., Simão, M., Albuquerque, V., Peres, M., & Nasello, A.G. (2007). Cerebral blood changes during retrieval of traumatic memories before and after psychotherapy. *Psychological Medicine*, 37, 1481-1491.

Peres, J. F., Peres, M., Moreira-Almeida, A., Nasello, A.G., & Koenig, H. (2007). Spirituality and Resilience in Trauma Victims. *Journal of Religion & Health*, 46, 343-350.



**118/02 – “Differential Responses to target vs. Non-Target Psi Stimuli: An Event-Related fMRI Study”**

Investigadores/Researchers: Stephen Kosslyn, Sam Moulton

Instituição/Institution: Harvard University Psychology Department and NMR Center (USA)

Duração/Duration: 2003/01 – 2007/01

*Peer-reviewed publications*

Moulton, S. T., & Kosslyn, S. M. (2008). Using neuroimaging to resolve the Psi debate. *Journal of Cognitive Neuroscience*, 20(1), 182-192. <https://doi.org/10.1162/jocn.2008.20.1.182>

**124/02 – “The flexibility of physical body boundaries and its relationship to out-of-body experiences”**

Investigadores/Researchers: Craig Murray, Jez Fox

Instituição/Institution: Liverpool Hope University College (UK)

Duração/Duration: 2003/08 – 2004/12

*Peer-reviewed publications*

Murray, C. D., Fox, J. (2007) Casting shadow and light on the peer review process: a reply to Neppe's 'Interpreting key variables in parapsychological phenomenology by single vs. screening questions'. *Australian Journal of Parapsychology*, 7(2), 172-181

Murray, C. D., Fox, J., & Pettifer, S. (2007). Absorption, dissociation, locus of control and presence in virtual reality. *Computers in Human Behavior*, 23(3), 1347-1354. <https://doi.org/10.1016/j.chb.2004.12.010>

Murray, C. D., & Fox, J. (2006). From dreams to (virtual) reality: Exploring behavioural embodiment in out-of-body experiences. *Australian Journal of Parapsychology*, 6(2), 125-134.

Murray, C. D., & Fox, J. (2005). The out-of-body experience and body image: Differences between experiencers and nonexperiencers. *Journal of Nervous and Mental Disease*, 193(1), 70-72. <https://doi.org/10.1097/01.nmd.0000149223.77469.da>

Murray, C., & Fox, J. (2005). Dissociational body experiences: Differences between respondents with and without prior out-of-body-experiences. *British Journal of Psychology*, 96(4), 441-456. <https://doi.org/10.1348/000712605X49169>

Murray, C., Fox, J. (2004). Body image in respondents with and without out-of-body experiences. In S. Schmidt (Ed.), *Proceedings of the Parapsychological Association, 47th Annual Convention* (pp.145-156), Vienna.

**126/02 – “Servindo dois lados: As características do trabalho como preditores de respostas psicossociais e psicofisiológicas ao stress em médicos e enfermeiros em posições de gestão”**

Investigadores/Researchers: Scott Elmes McIntyre, Teresa McIntyre, João Manuel Salgado, João Paulo Pereira, José da Costa Dantas, Derek Johnston, Martyn Jones

Instituição/Institution: Centro de Investigação, de Formação e Intervenção em Saúde, Maia (Portugal)

Duração/Duration: 2003/05 – 2007/09

*Peer-reviewed publications*

Simões, C., & Gomes, R. (2019). Psychological distress on nurses: The role of personal and professional characteristics. In P. Arezes, J. S. Baptista, M. P. Barroso, P. Carneiro, P. Cordeiro, N. Costa, R. B. Melo, A. S. Miguel, & G. Perestrelo (Eds), *Occupational and Environmental Safety and Health. Studies in Systems, Decision and Control* (Vol. 202, pp. 601-610). Cham, Switzerland: Springer. [https://doi.org/10.1007/978-3-030-14730-3\\_64](https://doi.org/10.1007/978-3-030-14730-3_64)

Simões, C., McIntyre, S., & McIntyre, T. (2019). Adaptation and validation of the work-family conflict and family-work conflict scales in Portuguese nurses: 10-item version. In P. Arezes, J. S. Baptista, M. P. Barroso, P. Carneiro, P. Cordeiro, N. Costa, R. B. Melo, A. S. Miguel, & G. Perestrelo (Eds), *Occupational and Environmental Safety and Health. Studies in Systems, Decision and Control* (Vol. 202, pp. 611-620). Cham, Switzerland: Springer. [https://doi.org/10.1007/978-3-030-14730-3\\_65](https://doi.org/10.1007/978-3-030-14730-3_65)

**127/02 – “Pursuing psi in a non-euroamerican culture: Behavioral DMILS in Bali”**

Investigadores/Researchers: Hoyt Edge, Luh Ketut Suryani

Instituição/Institution: College of Arts and Sciences, Rollins College, Winter Park (USA)

Duração/Duration: 2003/03 – 2005/03

*Peer-reviewed publications*

Edge, H., & Suryani, L. K. (2002). A cross-cultural analysis of volition. *Florida Philosophical Review*, 2(2), 56-72.



**136/02 – “Factors affecting the relationship between human intentionality and the hemolysis of red blood cells”**

Investigadores/Researchers: John Palmer, Stephen Baumann, Christine Simmonds, Colleen Rae, Anne Poole

Instituição/Institution: Rhine Research Center, Durham (USA)

Duração/Duration: 2003/05 – 2005/03

*Peer-reviewed publications*

Palmer, J., Simmonds-Moore, C. A., & Baumann, S. (2006). Geomagnetic fields and the relationship between human intentionality and the hemolysis of red blood cells. *Journal of Parapsychology*, 70, 275-301.

Palmer, J., Baumann, S., & Simmonds, C. A. (2005). Factors affecting the relationship between human intentionality and the hemolysis of red blood cells. *Proceedings of Presented Papers: The Parapsychological Association 48th Annual Convention* (pp. 119-130).

**139/02 – “Experimenter effects and Psi performance using a digital autoganzfeld system”**

Investigador/Researcher: Matthew D. Smith

Instituição/Institution: Liverpool Hope University College (UK)

Duração/Duration: 2003/10 – 2008/04

*Peer-reviewed publications*

Smith, M. D. & Savva, L. (2008). Experimenter effects in the ganzfeld. In S. J. Sherwood (Ed.), *Parapsychological Association/Society for Psychical Research Annual Conference Proceedings of Presented Papers*.

**143/02 – “Receiver's EDA and skin temperature changes in remote bio-PK attack "Toh-ate"”**

Investigadores/Researchers: Mikio Yamamoto, Hideyuki Kokubo, Weizhong Chen

Instituição/Institution: National Institute of Radiological Sciences, Chiba-shi (Japan)

Duração/Duration: 2003/02 – 2004/09

*Peer-reviewed publications*

Kokubo, H., Yoichi, H., & Yamamoto, M. (2004). Quantitative experiments on remote action toh-ate. *Journal of International Society of Life Information Science*, 22(2), 294-301.

Kokubo, H., Haraguchi, S., Kotake, J., Yoichi, H., Chen, W., Zhang, T., ... & Yamamoto, M. (2003). Estimation of receiver's discriminability index in remote action against human. *Journal of International Society of Life Information Science*, 21(1), 110-114.

Chen, W., Kokubo, H., Kawano, K., & Yamamoto, M. (2002). Skin temperature changes of receiver's laogong on the left hand in remote action experiment (II), *Journal of International Society of Life Information Science*, 20(1), 70-77.



## Apoios à Investigação Científica 2004/05 | Grants for Scientific Research 2004/05

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 07/04 – “Prestimulus Response in the Sympathetic/Parasympathetic Nervous System”

Investigador/Researcher: Edwin C. May

Instituição/Institution: Laboratories for Fundamental Research, Palo Alto (USA)

Duração/Duration: 2005/01 – 2008/04

Peer-reviewed publications

Marwaha, S. B., & May, E. C. (2016). Precognition: The only form of psi? *Journal of Consciousness Studies*, 23(3-4), 76-100.

May, E. C., Paulinyi, T., & Vassy, Z. (2005). Anomalous anticipatory skin conductance response to acoustic stimuli: experimental results and speculation about a mechanism. *The Journal of Alternative and Complementary Medicine*, 11(4), 695-702. <https://doi.org/10.1089/acm.2005.11.695>

### 09/04 – “Structural biology of human brain CNP, a protein essential for axonal survival”

Investigador/Researcher: Andreas Hofmann

Instituição/Institution: Institute of Cell & Molecular Biology, The University of Edinburgh (UK)

Duração/Duration: 2005/02 – 2007/04

Peer-reviewed publications

Rebaud, S., Simon, A., Wang, C. K., Mason, L., Blum, L., Hofmann, A., & Girard-Egrot, A. (2014). Comparison of VILIP-1 and VILIP-3 binding to phospholipid monolayers. *PLoS ONE*, 9(4): e93948. <https://doi.org/10.1371/journal.pone.0093948>

Rebaud, S., Wang, C. K., Sarkis, J., Mason, L., Simon, A., Blum, L. J., Hofmann, A., Girard-Egrot, A. P. (2014). Specific interaction to PIP2 increases the kinetic rate of membrane binding of VILIPs, a subfamily of Neuronal Calcium Sensors (NCS) proteins. *Biochimica et Biophysica Acta*, 1838(10), 2698-2707. <https://doi.org/10.1016/j.bbame.2014.06.021>

Wang, C. K., Simon, A., Jessen, C. M., Oliveira, C. L., Mack, L., Braunewell, K.-H., ... Hofmann, A. (2011). Divalent cations and redox conditions regulate the molecular structure and function of Visinin-like Protein 1. *PLoS ONE*, 6(11), e26793. <https://doi.org/10.1371/journal.pone.0026793>

Braunewell, K. H., Paul, B., Altarche-Xifro, W., Noack, C., Lange, K., & Hofmann, A. (2010). Interactions of visinin-like proteins with phospho-inositides. *Australian Journal of Chemistry*, 63(3), 350-356. <https://doi.org/10.1071/CH09355>

Braunewell, K.-H., Brackmann, M., & Hofmann, A. (2006). VILIP-1, A novel regulator of the guanylate cyclase transduction system in neurons. *Calcium Binding Proteins*, 1(1), 12-15.

### 14/04 – “Detection and Utilization of Consciousness-Related Information Fields Stimulated in Coherent Group Environments (FieldREG)”

Investigadores/Researchers: Robert G. Jahn, Brenda J. Dunne, York H. Dobyns

Instituição/Institution: Princeton Engineering Anomalies Research (PEAR), New Jersey (USA)

Duração/Duration: 2005/01 – 2006/02

Peer-reviewed publications

Jahn, R. G., Dunne, B. J., Acunzo, D. J., & Hoeger, E. S. (2007). Response of an REG-Driven robot to operator intention. *Journal of Scientific Exploration*, 21(1), 27-46.

Jahn, R. G., & Dunne, B. J. (2005). Consciousness, information, and living systems. *Cellular & Molecular Biology*, 51, 703-714. <https://doi.org/10.1170/T679>

Jahn, R. G., & Dunne, B. J. (2005). Endophysical models based on empirical data. In R. Buccheri, A. C. Elitzur, & M. Saniga (Eds.), *Endophysics, Time, Quantum and the Subjective: Proceedings of the ZiF Interdisciplinary Research Workshop* (pp. 91–94). Singapore: World Scientific Publishing.

Jahn, R. G., & Dunne, B. J. (2005). The PEAR proposition. *Journal of Scientific Exploration*, 19(2), 195-245.

#### 15/04 – “Pain control from the brain - gene therapy in the treatment of chronic pain”

Investigadores/Researchers: Deolinda Lima, Isaura Ferreira Tavares, Marta Pinto, Isabel Martins

Instituição/Institution: Instituto de Histologia e Embriologia, Faculdade de Medicina da Universidade do Porto (Portugal)

Duração/Duration: 2005/01 – 2009/01

##### Peer-reviewed publications

Martins, I., Costa-Araújo, S., Fadel, J., Wilson, S. P., Lima, D., & Tavares, I. (201). Reversal of neuropathic pain by HSV-1-mediated decrease of noradrenaline in a pain facilitatory area of the brain. *Pain*, 151(1), 137-145. <https://doi.org/10.1016/j.pain.2010.06.027>

Martins, I., Pinto, M., Wilson, S. P., Lima, D., & Tavares, I. (2008). Dynamic of migration of HSV-1 from a medullary pronociceptive centre: antinociception by overexpression of the preproenkephalin transgene. *European Journal of Neuroscience*, 28(10), 2075-2083. <https://doi.org/10.1111/j.1460-9568.2008.06492.x>

Pinto, M., Castro, A. R., Tushdy, F., Wilson, S. P., Lima, D., & Tavares, I. (2008). Opioids modulate pain facilitation from the dorsal reticular nucleus. *Molecular and Cellular Neurosciences*, 39(4), 508-518. <https://doi.org/10.1016/j.mcn.2008.07.008>

Pinto, M., Sousa, M., Lima, D., & Tavares, I. (2008). Participation of  $\mu$ -opioid, GABAB, and NK1 receptors of major pain control medullary areas in pathways targeting the rat spinal cord: Implications for descending modulation of nociceptive transmission. *Journal of Comparative Neurology*, 510(2), 175–187. <https://doi.org/10.1002/cne.21793>

Pinto, M., Lima, D., & Tavares, I. (2007). Neuronal activation at the spinal cord and medullary pain control centers after joint stimulation: a c-fos study in acute and chronic articular inflammation. *Neuroscience*, 14(4), 1076–1089. <https://doi.org/10.1016/j.neuroscience.2007.05.019>

Tavares, I., & Lima, D. (2007). From neuronatomy to gene therapy: Searching for new ways to manipulate the supraspinal endogenous pain modulatory system. *Journal of Anatomy*, 211(2) 261-268. <https://doi.org/10.1111/j.1469-7580.2007.00759.x>

Pinto, M., Lima, D., & Tavares, I. (2006). Correlation of noxious evoked c-fos expression in areas of the somatosensory system during chronic pain: involvement of spino-medullary and intra-medullary connections. *Neuroscience Letters*, 409(2), 100-105. <https://doi.org/10.1016/j.neulet.2006.08.031>

#### 16/04 – “Perceptual memory in the human visual system”

Investigadores/Researchers: Patrícia Margarida Piedade Figueiredo, Mafalda Cavalheiro Gomes Moreira Mendes, Maria Fátima Loureiro da Silva, João Abel Loureiro Marques Xavier, Carlos Gomes

Instituição/Institution: Instituto Biofísico para a Investigação em Luz e Imagem (IBILI), Coimbra (Portugal)

Duração/Duration: 2006/02 – 2010/04

##### Peer-reviewed publications

Figueiredo, P., Santana, I., Teixeira, J., Cunha, C., Machado, E., Almeida, E., Sales, F., & Castelo-Branco, M. (2008). Adaptive visual memory reorganization in right medial temporal lobe epilepsy. *Epilepsia*, 49(8), 1395-1408. <https://doi.org/10.1111/j.1528-1167.2008.01629.x>

#### 19/04 – “Parapsychological Investigations: Reflections, Adventures, and Cautionary Tales”

Investigador/Researcher: Stephen E. Braude

Instituição/Institution: University of Maryland Baltimore County, Maryland (USA)

Duração/Duration: 2005/02 – 2006/03

##### Peer-reviewed publications

Braude, S. E. (forthcoming). *Crimes of reason: On mind, nature & the paranormal*. Rowman & Littlefield.

Braude, S. E. (2007). *The gold leaf lady and other parapsychological investigations*. Chicago, IL: University of Chicago Press.

#### 21/04 – “Study of emotional perception and affective memory in a sample of normal subjects. Comparison with different clinical populations”

Investigadores/Researchers: Isabel Pavão Martins, Sílvia Fernandes, Alexandre Mendonça, Manuela Guerreiro

Instituição/Institution: Laboratório de Estudos da Linguagem, Faculdade de Medicina de Lisboa (Portugal)

Duração/Duration: 2005/05 – 2007/06

##### Peer-reviewed publications

Albuquerque, L., Martins, M., Coelho, M., Guedes, L., Ferreira, J. J., Rosa, M., & Martins, I. P.

(2016). Advanced Parkinson disease patients have impairment in prosody processing. *Journal of Clinical and Experimental Neuropsychology*, 38(2), 208-216.

**24/04 – “A Parapsychological Investigation of the I Ching: The Relationship Between Psi, Intuition, and Time Perception”**

Investigador/Researcher: Lance Storm

Instituição/Institution: Anomalistic Psychology Research Unit, University of Adelaide (Australia)

Duração/Duration: 2005/04 – 2006/03

*Peer-reviewed publications*

Storm, L. (2006). A parapsychological investigation of the I Ching: The relationships between psi, intuition, and time perspective. *Journal of Parapsychology*, 70, 121-141.

**28/04 – “Paranormal Effects Using Sighted and Vision-Impaired Participants in a Quasi-Ganzfeld Task: A Replication Study”**

Investigadores/Researchers: Lance Storm, Mikele Barrett-Woodbridge

Instituição/Institution: Anomalistic Psychology Research Unit, University of Adelaide (Australia)

Duração/Duration: 2005/02 – 2005/08

*Peer-reviewed publications*

Storm, L., & Barrett-Woodbridge, M. (2007). Psi as compensation for modality impairment: A replication study using sighted and blind participants. *European Journal of Parapsychology*, 22, 73-89.

**33/04 – “Dynamic brain patterns in neocortical areas during interpersonal transactions”**

Investigadores/Researchers: Richard Wennberg, Jose Luis Perez Velazquez

Instituição/Institution: Krembil Neuroscience Centre, Toronto Western Hospital and The Hospital for Sick Children, University of Toronto (Canada)

Duração/Duration: 2005/01 – 2008/07

*Peer-reviewed publications*

Garcia Dominguez, L., Wennberg, R., Perez Velazquez, J. L., & Guevara Erra, R. (2007). Enhanced measured synchronization of unsynchronized sources: inspecting the physiological significance of synchronization analysis of whole brain electrophysiological recordings. *International Journal of Physical Sciences*, 2(11), 305-317.

Perez Velazquez, J. L., Garcia Dominguez, L., & Guevara Erra, R. (2007). Fluctuations in neuronal synchronization in brain activity correlate with the subjective experience of visual recognition. *Journal of Biological Physics*, 33(1), 49-59. <https://doi.org/10.1007/s10867-007-9041-4>

**34/04 – “fMRI and photo emission study of presentiment: The role of "coherence" in retrocausal processes”**

Investigadores/Researchers: Dick Bierman, Eduard van Wijk

Instituição/Institution: Parapsychologist Institute, Utrecht (The Netherlands)

Duração/Duration: 2005/05 – 2007/11

*Peer-reviewed publications*

Bierman, D. J. (2011). Anomalous switching of the bi-stable percept of a necker cube: A preliminary study. *Journal of Scientific Exploration*, 25(3), 771–783.

**35/04 – “Pronouns and degeneration: Differences in processes and brain locations involved in pronoun interpretation in prodromal alzheimer's disease and in healthy ageing”**

Investigadores/Researchers: José Augusto da Veiga Pinto de Gouveia, António Manuel Horta Branco, Horácio António de Jesus Firmino, José Augusto Simões Gonçalves Leitão, Maria Isabel Ferraz Festas

Instituição/Institution: Núcleo de Estudos e Intervenção Cognitivo-Comportamental, Coimbra (Portugal)

Duração/Duration: 2005/10 – 2010/09

*Peer-reviewed publications*

Leitão, J., Couceiro, A. P., & Almeida, A. C. (2010). Normas de imaginabilidade, familiaridade e idade de aquisição para 252 nomes comuns. *Laboratório de Psicologia*, 8(1), 101-110.

**36/04 – “Identifying the determinants of stress and stress-related illness in newly qualified doctors”**

Investigadores/Researchers: Stafford L. Lightman, Mark Wetherell, Anna Crown, Kav Vedhara

Instituição/Institution: Henry Wellcome Laboratories for Integrative Neuroscience & Endocrinology, Bristol (UK)

Duração/Duration: 2005/02 – 2007/11

*Peer-reviewed publications*

Brant, H., Wetherell, M. A., Lightman, S., Crown, A., & Vedhara, K. (2010). An exploration into physiological and self-report measures of stress in pre-registration doctors at the beginning and end of a clinical rotation. *Stress*, 13(2), 155-162. <https://doi.org/10.3109/10253890903093778>

**42/04 – “Exploring Psychomanteum as a psi-conductive state of consciousness (Phase 2): Adding new perceptual, personality, abnormal thinking, and phenomenological variables of anomalous cognition using two favourable conditions: (1) visual/musical targets and (2) psychomanteum/non-psychomanteum sessions”**

Investigadores/Researchers: Alejandro Enrique Parra, Jorge Fernando Villanueva

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)

Duração/Duration: 2005/03 – 2007/01

*Peer-reviewed publications*

Parra, A. (2015). La inducción al psicomanteum como un estado de consciencia favorecedor de la percepción extrasensorial. *E-boletín Psi*, 10(2). [http://www.alipsi.com.ar/e-boletín/E-BOLETIN-PSI\\_10\\_2\\_Mayo\\_2015.htm#tit03](http://www.alipsi.com.ar/e-boletín/E-BOLETIN-PSI_10_2_Mayo_2015.htm#tit03)

Parra, A., & Villanueva, J. (2011). L'Uso dello Psychomanteum nello studio degli alterati di coscienza. *Quaderni di Parapsicologia*, 43(2), 119-128.

Parra, A. & Villanueva, J. (2011). Mirror-gazing facility and psi: examining personality measures. *Journal of the Society for Psychical Research*, 75.4(905), 178-190.

Parra, A. & Villanueva, J. (2006). ESP under the ganzfeld, in contrast with the induction of relaxation as a psi-conductive state. *Australian Journal of Parapsychology*, 6(2), 167-186.

Parra, A. & Villanueva, J. (2004). Are musical themes better than visual images as ESP-targets? An experimental study using the ganzfeld technique. *Australian Journal of Parapsychology*, 4(2), 114-127.

Parra, A. & Villanueva, J. (2004). ¿Son los temas musicales mejores que los visuales como objetivos de PES?: Un estudio experimental bajo el estímulo de monotonización perceptual ganzfeld. *Revista Argentina de Psicología Paranormal*, 15, 195-208.

Parra, A. & Villanueva, J. (2004). ¿Son los temas musicales mejores que los visuales como objetivos de PES?: Un estudio experimental bajo el estímulo de monotonización perceptual ganzfeld. In F.E. da Silva (Ed.), *Segundo Encontro Psi: Refletindo sobre o Futuro da Parapsicologia* (165-171). Curitiba, Paraná: Faculdades Integradas “Espírita”.

Parra, A. & Villanueva, J. (2003). Inducción a un estado no-ordinario de consciencia como facilitador de la PES: Comparando la PES bajo condición ganzfeld versus una condición no-ganzfeld. *Revista Argentina de Psicología Paranormal*, 14, 161-186.

Parra, A. & Villanueva, J. (2003). Personality factors and psi-ganzfeld sessions: A replication and extension. *Australian Journal of Parapsychology*, 3(2), 159-174.

Parra, A. & Villanueva, J. (2003). Personality factors and ESP during ganzfeld session. *Journal of the Society for Psychical Research*, 67.1, 870, 26-36.

Parra, A. & Villanueva, J. (2000). Personality factors and ESP during ganzfeld sessions. In F. Steinkamp (Ed.), *Proceedings of the 44<sup>th</sup> Annual Convention of the Parapsychological Association* (402-405). Freiburg, West Germany: Parapsychological Association.

**47/04 – “A combined psychophysiological and electrophysiological approach to investigate low-level visual perception in autism”**

Investigadores/Researchers: Olivier Pascalis, Elizabeth Milne, David Buckley, Laurence Vigon

Instituição/Institution: Department of Psychology, The University of Sheffield (UK)

Duração/Duration: 2005/06 – 2006/10

*Peer-reviewed publications*

Milne, E., Scope, A., Pascalis, O., Buckley, D., & Makeig, S. (2009). Independent component analysis reveals atypical EEG activity during visual perception in individuals with autism. *Biological Psychiatry*, 65(1), 22-30. <https://doi.org/10.1016/j.biopsycho.2008.07.017>

Wallace, S., Coleman, M., Pascalis, O., & Bailey, A. (2006). A study of impaired judgement of eye gaze direction and related face processing deficits in autism and Asperger's syndrome. *Perception*, 35(12), 1651-1654. <https://doi.org/10.1068/p5442>

**52/04 – “Selecting a past to remember: psychophysiological studies of forgetting and remembering”**

Investigadores/Researchers: Edward Wilding, Jane Herron, Kevin Allan

Instituição/Institution: Cardiff University, School of Psychology, Wales (UK)

Duração/Duration: 2005/02 – 2006/04

*Peer-reviewed publications*

Bridson, N. C., Fraser, C. S., Herron, J., & Wilding, E. (2006). Electrophysiological correlates of familiarity in recognition memory and exclusion tasks. *Brain Research*, 1114(1), 149-160. <https://doi.org/10.1016/j.brainres.2006.07.095>



**55/04 – “Describing the contents of consciousness: A study of the production of reports of mental imagery using parapsychological data, and a methodological review”**

Investigador/Researcher: Robin Wooffitt

Instituição/Institution: Department of Sociology, University of York (UK)

Duração/Duration: 2006/10 – 2009/02

*Peer-reviewed publications*

Wooffitt, R., & Holt, N. (2011). Introspective discourse and the poetics of subjective experience. *Research on Language and Social Interaction*, 44(2), 135–156.

Murray, C., & Wooffitt, R. (2010). Anomalous experience and qualitative research: An introduction to the special issue. *Qualitative Research in Psychology*, 7(1), 1–4. <https://doi.org/10.1080/14780880903304535>

Wooffitt, R., & Holt, N. (2010). Silence and its organisation in the pragmatics of introspection. *Discourse Studies*, 12(3), 379–406. <https://doi.org/10.1177/1461445609358520>

Wooffitt, R., Holt, N., & Allistone, S. (2010). Introspection as institutional practice: Reflections on the attempt to capture conscious experience in a parapsychology experiment. *Qualitative Research in Psychology*, 7(1), 5–20.

Wooffitt, R., & Holt, N. (2008). Reporting on consciousness: Communication in mentation narratives. In *Proceedings of the 51st Annual Convention of the Parapsychological Association* (pp. 288–303). New York: The Parapsychological Association.

**57/04 – “Imagery and emotion production during hypnosis: an electrophysiological approach”**

Investigadores/Researchers: Zvonikov Vyacheslav Michailovich, Stroganova Tatiana Alexandrovna, Tsetlin Marina Mihailovna, Anna Kirenskaya, Vladimir Y. Novototsky-Vlasov, Anastasia V. Marushkina

Instituição/Institution: Psychological Institute, Russian Academy of Education, Moscow (Russia)

Duração/Duration: 2005/04 – 2007/05

*Peer-reviewed publications*

Kirenskaya, A., Novototsky-Vlasov, V. Y., Chistyakov, A. N., & Zvonikov, V. M. (2011). The relationship between hypnotizability, internal imagery and efficiency of neurolinguistic programming. *International Journal of Clinical and Experimental Hypnosis*, 59(2), 225–241. <https://doi.org/10.1080/00207144.2011.546223>

Kirenskaya, A., Novototsky-Vlasov, V. Y., & Zvonikov, V. M. (2011). Waking EEG spectral power and coherence differences between high and low hypnotizable subjects. *International Journal of Clinical and Experimental Hypnosis*, 59(4), 441–453. <https://doi.org/10.1080/00207144.2011.594744>

**58/04 – “Comparative study of brain processes related to microgravity-induced and clinical oculomotor disturbances in subjects with the right and left eye dominance”**

Investigadores/Researchers: Inessa B. Kozlovskaya, Elena S. Tomilovskaya, Anna Kirenskaya, Vladimir Y. Novototsky-Vlasov, Vadim V. Myamlin, Nelly R. Gallyamova

Instituição/Institution: Institute of Biomedical Problems, Russian Academy of Sciences, Moscow (Russia)

Duração/Duration: 2005/04 – 2007/04

*Peer-reviewed publications*

Kirenskaya, A., Myamlin, V., Novototsky-Vlasov, V. Y., Pletnikov, M., & Kozlovskaya, I. (2011). The contingent negative variation laterality and dynamics in antisaccade task in normal and unmedicated schizophrenic subjects. *Spanish Journal of Psychology*, 14(2), 869–83. [https://doi.org/10.5209/rev\\_SJOP.2011.v14.n2.34](https://doi.org/10.5209/rev_SJOP.2011.v14.n2.34)

Lazarev, I. E., & Kirenskaya, A. V. (2008). The influence of eye dominance on saccade characteristics and slow presaccadic potentials. *Human Physiology*, 34(2), 150–160. <https://doi.org/10.1134/S0362119708020035>

Kirenskaya, A., Tomilovskaya, E., Novototsky-Vlasov, V. Y., & Kozlovskaya, I. (2006). The effects of simulated microgravity on characteristics of slow presaccadic potentials. *Human Physiology*, 32(2), 131–139. <https://doi.org/10.1134/S0362119706020022>

Kirenskaya, A., Tomilovskaya, E., Novototsky-Vlasov, V. Y., & Kozlovskaya, I. (2006). The effects of simulated microgravity on characteristics of slow presaccadic potentials. *Fiziologiya cheloveka*, 32(2), 10–19.

Tomilovskaya, E., Kirenskaya, A., Novototsky-Vlasov, V. Y., & Kozlovskaya, I. (2004). Event-related EEG changes preceding saccadic eye movements before and after dry immersion. *Journal of gravitational physiology: a journal of the International Society for Gravitational Physiology*, 11(2), P33–34.

#### **61/04 – “A neuropsychological examination of specific and global frontal lobe functions in siblings with and without eating disorders”**

Investigadores/Researchers: Ulrike Schmidt, Kate Tchanturia, Pei-Chi (Thomas) Liao

Instituição/Institution: Institute of Psychiatry, King's College London (UK)

Duração/Duration: 2005/08 – 2006/11

##### *Peer-reviewed publications*

Roberts, M., Lavender, A., & Tchanturia, K. (2010). Measuring self-report obsessionality in anorexia nervosa: Maudsley obsessive-compulsive inventory (MOCI) or obsessive-compulsive inventory-revised (OCI-R)? *European Eating Disorders Review*, 19(6), 501–508. <https://doi.org/10.1002/erv.1072>

Davies, H., Liao, P.-C., Campbell, I. C., & Tchanturia, K. (2009). Multidimensional self reports as a measure of characteristics in people with eating disorders. *Eating and Weight Disorders*, 14(2), e84-e91.

Liao, T., Uher, R., Lawrence, N., Treasure, J., Schmidt, U., Campbell, I., & Tchanturia, K. (2009). An examination of decision-making in bulimia nervosa. *Journal of Clinical and Experimental Neuropsychology*, 31(4), 455-461.

Southgate, L., Tchanturia, K., Collier, D., & Treasure, J. (2008). The development of the childhood retrospective perfectionism questionnaire (CHIRP) in an eating disorder sample. *European Eating Disorders Review*, 16(6), 451-62.

Southgate, L., Tchanturia, K., & Treasure, J. (2008). Information processing bias in anorexia nervosa. *Psychiatry Research*, 160(2), 221-227. <https://doi.org/10.1016/j.psychres.2007.07.017>

Southgate, L., Tchanturia, K., & Treasure, J. (2006). Neuropsychological studies in eating disorders: A review. In P. I. Swain (Ed.), *Progress in Eating Disorders* (pp. 1-69). Hauppauge, NY: Nova Science Publishers.

Whitney, J., Easter, A., & Tchanturia, K. (2008). Service users' feedback on cognitive training in the treatment of anorexia nervosa: A qualitative study. *International Journal of Eating Disorders*, 41(6), 542–550. <https://doi.org/10.1002/eat.20536>

Tchanturia, K., Liao, P.-C., Uher, R., Lawrence, N., Treasure, J., & Campbell, I. C. (2007). An investigation of decision making in anorexia nervosa using the Iowa Gambling Task and skin conductance measurements. *Journal of the International Neuropsychological Society*, 13(4), 635-641. <https://doi.org/10.1017/S1355617707070798>

Davies, H., & Tchanturia, K. (2005). Cognitive remediation therapy as an intervention for acute anorexia nervosa: A case report. *European Eating Disorders Review*, 13(5), 311-316. <https://doi.org/10.1002/erv.655>

Southgate, L., Tchanturia, K., & Treasure, J. (2005). Building a model of the aetiology of eating disorders by translating experimental neuroscience into clinical practice. *Journal of Mental Health*, 14(6), 553-566. <https://doi.org/10.1080/09638230500347541>

#### **62/04 – “Developing a “Recipe” for success in ESP experimental research (Phase II): Testing and Improving a Protocol”**

Investigador/Researcher: José M Pérez Navarro

Instituição/Institution: Department of Psychology and Counselling, University of Greenwich, London (UK)

Duração/Duration: 2005/01 – 2007/06

##### *Peer-reviewed publications*

Pérez Navarro, J. M., & Cox, K. (2012). Context-dependence, visibility, and prediction using state and trait individual differences as moderators of ESP in a Ganzfeld environment. *Europe's Journal of Psychology*, 8(4), 559–572. <https://doi.org/10.5964/ejop.v8i4.507>

#### **63/04 – “Attentional modulation in neural responses to faces”**

Investigador/Researcher: Jaime Iglesias Dorado

Instituição/Institution: Universidad Autónoma de Madrid, Facultad de Psicología (Spain)

Duração/Duration: 2005/02 – 2009/07

##### *Peer-reviewed publications*

Olivares, E. I., Saavedra, C., Trujillo-Barreto, N. J., & Iglesias, J. (2013). Long-term information and distributed neural activation are relevant for the “internal features advantage” in face processing: electrophysiological and source reconstruction evidence. *Cortex*, 49(10), 2735-2747. <https://doi.org/10.1016/j.cortex.2013.08.001>

Olivares, E. I., & Iglesias, J. (2010). Brain potential correlates of the “internal features advantage” in face recognition. *Biological Psychology*, 83(2), 133-142. <https://doi.org/10.1016/j.biopsycho.2009.11.011>

Saavedra, C., Iglesias, J., & Olivares, E. I. (2010). Event-related potentials elicited by the explicit and implicit processing of familiarity in faces. *Clinical EEG and Neuroscience*, 41(1), 24-31.

<https://doi.org/10.1177/155005941004100107> (Corrigendum publicado en Clinical EEG and Neuroscience, 2010, 41 (2): IV.)

Olivares, E. I., & Iglesias, J. (2008). Brain potentials and integration of external and internal features into face representations. *International Journal of Psychophysiology*, 68(1), 59-69. <https://doi.org/10.1016/j.ijpsycho.2008.01.003>

Saavedra, C., Iglesias, J., & Olivares, E. I. (2006). Potenciales evocados relacionados con el procesamiento de la identidad facial: Personas mayores con y sin deterioro cognitivo. *Journal of Psychophysiology*, 20(3), 247. <https://doi.org/10.1027/0269-8803.20.3.223>

Santos, I. M., Iglesias, J., Olivares, E. I., & Young, A. W. (2008). Differential effects of object-based attention on evoked potentials to fearful and disgusted faces. *Neuropsychologia*, 46(5), 1468-1479. <https://doi.org/10.1016/j.neuropsychologia.2007.12.024>

#### **64/04 – “Degree of Meditation Attainment and Comparison of Type of Meditation in Relation to Awareness of Precognition Targets”**

Investigadores/Researchers: Serena M. Roney-Dougal, Jerry Solvvin

Instituição/Institution: Psi Research Centre, Glastonbury (UK)

Duração/Duration: 2005/01 – 2008/04

##### *Peer-reviewed publications*

Roney-Dougal, S. M., & Solvvin, J. (2011). Exploring the relationship between Tibetan meditation attainment and precognition. *Journal of Scientific Exploration*, 25(1), 29-46.

Roney-Dougal, S. M., Solvvin, J., & Fox, J. (2008). An exploration of degree of meditation attainment in relation to psychic awareness with Tibetan Buddhists. *Journal of Scientific Exploration*, 22(2), 161-178.

Roney-Dougal, S. M. (2006). Taboo and belief in Tibetan psychic tradition. *Journal of the Society for Psychical Research*, 70(4), 193-210.

Roney-Dougal, S. M., & Solvvin, J. (2006). Yogic attainment in relation to awareness of precognitive targets. *Journal of Parapsychology*, 70(1), 91-120.

#### **65/04 – “An investigation into the possibility of a stimulus-response causal relationship in the Electronic Voice Phenomenon”**

Investigadores/Researchers: Alexander MacRae, Charl Vorster

Instituição/Institution: Skylab, Portree, Scotland (UK)

Duração/Duration: 2005/02 – 2007/03

##### *Peer-reviewed publications*

MacRae, A. (2011). Information and Spirit. *The Open Information Science Journal*, 3, 54-62. <https://doi.org/10.2174/1874947X01103010054>

MacRae, A. (2005). Report of an electronic voice phenomenon experiment inside a double-screened room. *Journal of the Society for Psychical Research*, 69.4, 191-201.

MacRae, A. (2004). A means of producing the electronic voice phenomenon based on electrodermal activity. *Journal of the Society for Psychical Research*, 68.1, 35-50.

#### **66/04 – “Extrasensory perception and implicit sequence learning in a computer guessing task”**

Investigadores/Researchers: John Palmer, Peter Brugger, Enrique Wintsch

Instituição/Institution: Neurology Clinic, University Hospital Zurich (Switzerland)

Duração/Duration: 2005/04 – 2006/10

##### *Peer reviewed publication*

Palmer, J. (2009). Decision augmentation in a computer guessing task. *Journal of Parapsychology*, 73, 119-135.

#### **68/04 – “The emotional Stroop effect: Cognitive, emotional, and physiological aspects”**

Investigadores/Researchers: Isabelle Blanchette, Anne Richards

Instituição/Institution: University of Manchester (UK), Birkbeck College, University of London (UK)

Duração/Duration: 2005/05 – 2007/07

##### *Peer-reviewed publications*

Blanchette, I., & Richards, A. (2013). Is emotional Stroop interference linked to affective responses? Evidence from skin conductance and facial electromyography. *Emotion*, 13(1), 129-138. <https://doi.org/10.1037/a0029520>

Blanchette, I., & Richards, A. (2010). The influence of affect on higher level cognition: A review of research on interpretation, judgement, decision making and reasoning. *Cognition & Emotion*, 24(4), 561-595. <https://doi.org/10.1080/02699930903132496>

Blanchette, I., & Richards, A. (2010). The influence of affect on higher level cognition: A review of research on interpretation, judgement, decision making and reasoning. In J. De Houwer & D. Hermans (Eds.), *Cognition and emotion: Reviews of current research and theories* (pp. 276-324). Hove, UK: Psychology Press.

**73/04 – “Spontaneous brain blood flow during guess - research with near infrared spectroscopy”**

Investigadores/Researchers: Mikio Yamamoto, Hideyuki Kokubo, Hideo Yoichi

Instituição/Institution: Institute for Body Measurements, IRI, Schiba-shi (Japan)

Duração/Duration: 2005/01 – 2006/07

*Peer-reviewed publications*

Kokubo, H., & Yamamoto, M. (2006). Brain activity while guessing: Research by functional near-infrared spectroscopy (fNIRS). In F. E. Silva, C. F. Grubhifer, E. Brito, S. Pilato, S. Muniz, & N. M. Ganz (Eds.), *Proceedings of Presented Papers of 3rd Psi Meeting: Implications and Applications of PSI* (pp. 133-139). Curitiba, Brazil: Faculdades Integradas "Espírita".

Kokubo, H., Yamamoto, M., Watanabe, T., Kawano, K., & Sakamoto, K. (2006). Brain blood flow change with functional near infrared spectroscopy while guessing. *Journal of International Society of Life Information Science*, 24(1), 224-230.

Kokubo, H., Yamamoto, M., & Kawano, K. (2005). Research on brain activities by functional near infrared spectroscopy while guessing for hidden figures. *Japanese Journal of Parapsychology*, 10(1/2), 33-36 [in Japanese].

Kokubo, H., Yamamoto, M., & Watanabe, T. (2005). Impression and spontaneous blood flow change at the temporal lobe while guessing for a hidden figure. *Journal of International Society of Life Information Science*, 23(2), 306-313.

**74/04 – “High performance REG array with simultaneous Read-Out - Exploration of a new REG design, involving self-selective amplification and EEG triggered read-out for PK studies”**

Investigadores/Researchers: Harald Walach, Tilmann Faul, Matthias Braeunig

Instituição/Institution: Institute for Environmental Medicine and Hospital Epidemiology, University Hospital Freiburg (Germany)

Duração/Duration: 2005/01 – 2007/07

*Peer-reviewed publications*

Braeunig, M., Faul, T., & Walach, H. (2005). REG-array with non-deterministic time scheme for PK studies. In *Proceedings of presented papers: The Parapsychological Association 48th Annual Convention* (pp. 224-226).

**75/04 – “Measurement of Event-related EEG correlations between two human subjects over a large distance”**

Investigadores/Researchers: Harald Walach, Christian Seiter, Thilo Hinterberger

Instituição/Institution: University College Northampton (UK)

Duração/Duration: 2006/01 – 2007/09

*Peer-reviewed publications*

Hinterberger, T., Mochty, U., Schmidt, S., Erat, L. -M., & Walach, H. (2008). EEG-Korrelationen zwischen räumlich weit entfernten Paaren. *Zeitschrift für Anomalistik*, 8, 55-75.

Hinterberger, T., Studer, P., Jäger, M., Haverly-Stacke, C., & Walach, H. (2007). Can a slide-show presentiment effect be discovered in brain electrical activity? *Journal of the Society for Psychical Research*, 71.3, 148-166.

**76/04 – “Remote staring detected by conscious and Psychophysiological variables - Combining and improving two successful paradigms”**

Investigadores/Researchers: Stefan Schmidt, Susanne Muller, Harald Walach

Instituição/Institution: Department for Evaluation of Complementary and Alternative Medicine, Hospital Epidemiology, Freiburg (Germany)

Duração/Duration: 2005/01 – 2006/12

*Peer-reviewed publications*

Müller, S., Schmidt, S., & Walach, H. (2009). The feeling of being stared at: A parapsychological classic with a facelift. *European Journal of Parapsychology*, 24(2), 117-138.

Schmidt, S. (2008). Bohrende Blicke? Stechende Blicke? Das Phänomen der "Blickwahrnehmung" wissenschaftlich untersucht. *Zeitschrift für Anomalistik*, 8, 32-54.



**81/04 – “Photon emission of living witness in human healing and cognitive experiences”**

Investigadores/Researchers: Roeland Van Wijk, G. L. R. Godaert, E. P. A. Van Wijk, R. Bajpai

Instituição/Institution: International Institute of Biophysics, Neuss (Germany)

Duração/Duration: 2005/01 – 2006/12

*Peer-reviewed publications*

Van Wijk, R., Bajpai, R., & Van Wijk, E. (2006). Photo count distribution of photons emitted from three sites of a human body. *Journal of Photochemistry and Photobiology B: Biology*, 84(1), 46-55. <https://doi.org/10.1016/j.jphotobiol.2006.01.010>

**82/04 – “Detecção de informação emocional e sua interferência no processamento neurocognitivo: um estudo em criminosos reincidentes” – “Detection of emotional information and its interference on neurocognitive processing: a study on recidivistic criminals”**

Investigadores/Researchers: João Eduardo Marques Teixeira, Manuel Fernando Santos Barbosa, Pedro Manuel Rocha Almeida

Instituição/Institution: Centro de Ciências do Comportamento Desviante, Porto (Portugal)

Duração/Duration: 2005/01 – 2008/07

*Peer-reviewed publications*

Barbosa, F., Almeida, P. R., Ferreira-Santos, F., & Marques-Teixeira, J. (2016). Using signal detection theory in the analysis of emotional sensitivity of male recidivist offenders. *Criminal Behaviour and Mental Health*, 26(1), 18-29. <https://doi.org/10.1002/cbm.1950>

Marques-Teixeira, J., Barbosa, F., & Almeida, P. R. (2009). Using Signal Detection Theory Indexes for the Experimental Manipulation of Emotional States. *Methodology*, 5(2), 55-59.

**84/04 – “A consciência da dor: alterações induzidas por dor crónica nos mecanismos neurobiológicos de aprendizagem, atenção e recompensa” – “Pain conscience: changes induced by chronic pain on the neurobiological mechanisms of learning, attention and rewarding”**

Investigadores/Researchers: Vasco Miguel Clara Lopes Galhardo, Deolinda Maria Valente Alves de Lima Teixeira, Miguel Santos Pais-Vieira, Clara Maria Pires Costa Bastos Monteiro

Instituição/Institution: IBMC - Instituto de Biologia Molecular e Celular, Porto (Portugal)

Duração/Duration: 2005/01 – 2008/11

*Peer-reviewed publications*

Ji, G., Sun, H., Fu, Y., Li, Z., Galhardo, V., & Neugebauer, V. (2010). Cognitive impairment in pain through amygdala-driven prefrontal cortical deactivation. *Journal of Neuroscience*, 30(15), 5451-5464. <https://doi.org/10.1523/JNEUROSCI.0225-10.2010>

Neugebauer, V., Galhardo, V., Maione, S., Mackey, S. C. (2009). Forebrain pain mechanisms. *Brain Research Reviews*, 60(1), 226-242. <https://doi.org/10.1016/j.brainresrev.2008.12.014>

Pais-Vieira, M., Lima, D., & Galhardo, V. (2009). Sustained attention deficits in rats with chronic inflammatory pain. *Neuroscience Letters*, 463(1), 98-102. <https://doi.org/10.1016/j.neulet.2009.07.050>

Ji, G., Sun, H., Fu, Y., Li, Z., Galhardo, V., & Neugebauer, V. (2010). Cognitive impairment in pain through amygdala-driven prefrontal cortical deactivation. *The Journal of Neuroscience*, 30(15), 5451-5464. <https://doi.org/10.1523/JNEUROSCI.0225-10.2010>

Aguiar, P., Mendonça, L., & Galhardo, V. (2007). OpenControl: A free opensource software for video tracking and automated control of behavioral mazes. *Journal of Neuroscience Methods*, 166(1), 66-72. <https://doi.org/10.1016/j.jneumeth.2007.06.020>

Pais-Vieira, M., Lima, D., & Galhardo, V. (2007). Orbitofrontal cortex lesions disrupt risk assessment in a novel serial decision-making task for rats. *Neuroscience*, 145(1), 225-231. <https://doi.org/10.1016/j.neuroscience.2006.11.058>

Bi, G.-Q., Bolshakov, V., Bu, G., Cahill, C., Chen, Z.-F., Collingridge, G., ... Zhuo, M. (2006). Recent advances in basic neurosciences and brain disease: from synapses to behavior. *Molecular Pain*, 2(1), 38-51. <https://doi.org/10.1186/1744-8069-2-38>

Monteiro, C., Lima, D., & Galhardo, V. (2006). Switching-on and -off of bistable spontaneous discharges in rat spinal deep dorsal horn neurons. *Neuroscience Letters*, 398(3), 258-63. <https://doi.org/10.1016/j.neulet.2006.01.008>



#### **87/04 – “Early neurophysiological correlates of autism: visual attention and EEG rhythms”**

Investigadores/Researchers: Stroganova Tatiana Alexandrovna, Elam Mikael, Orekhova Elena, Tsetlin Mariana Mihailovna, Morozov Alexei Alexandrovich

Instituição/Institution: Moscow University for Psychology and Education, Faculty of Abnormal Psychology, Moscow (Russia)

Duração/Duration: 2005/01 – 2007/04

##### *Peer-reviewed publications*

Orekhova, E. V., Stroganova, T. A., Nygren, G., Tsetlin, M. M., Posikera, I. N., Gillberg, C., & Elam, M. (2007). Excess of high frequency electroencephalogram oscillations in boys with autism. *Biological Psychiatry*, 62(9), 1022–1029. <https://doi.org/10.1016/j.biopsych.2006.12.029>

Stroganova, T. A., Nygren, G., Tsetlin, M. M., Posikera, I. N., Gillberg, C., Elam, M., & Orekhova, E. V. (2007). Abnormal EEG lateralization in boys with autism. *Clinical Neurophysiology*, 118(8), 1842-1854. <https://doi.org/10.1016/j.clinph.2007.05.005>

Stroganova, T. A., Orekhova, E. V., Prokofyev, A. O., Posikera, I. N., Morozov, A. A., Obukhov, Y. V., & Morozov, V. A. (2007). Inverted event-related potentials response to illusory contour in boys with autism. *Neuroreport*, 18 (9), 931-935. <https://doi.org/10.1097/WNR.0b013e32811e151b>

Orekhova, E. V., Stroganova, T. A., Posikera, I. N., & Elam, M. (2006). EEG theta rhythm in infants and preschool children. *Clinical Neurophysiology*, 117(5), 1047-1062. <https://doi.org/10.1016/j.clinph.2005.12.027>

#### **104/04 – “Is psi a type of knowledge?”**

Investigadores/Researchers: Dean Radin, Edwin May

Instituição/Institution: Institute of Noetic Sciences, California (USA)

Duração/Duration: 2005/01 – 2006/11

##### *Peer-reviewed publications*

Radin, D. I. (2008). Testing nonlocal observation as a source of intuitive knowledge. *Explore: The Journal of Science and Healing*, 4(1), 25-35.

Radin, D. I. (2006). Experiments testing models of mind-matter interaction. *Journal of Scientific Exploration*, 20(3), 375-401.

Radin, D., Hayssen, G., Emoto, M., & Kizu, T. (2006). Double-blind test of the effects of distant intention on water crystal formation. *Explore: The Journal of Science and Healing*, 2(5), 408-411. <https://doi.org/10.1016/j.explore.2006.06.004>

Radin, D., Nelson, R. D., Dobyns, Y., & Houtkooper, J. (2006). Assessing the evidence for mind-matter interaction effects. *Journal of Scientific Exploration*, 20(3), 361-374.

Schlitz, M., Wiseman, R., Watt, C., & Radin, D. (2006). Of two minds: Skeptic-proponent collaboration within parapsychology. *British Journal of Psychology*, 97(3), 313-322. <https://doi.org/10.1348/000712605X80704>

#### **106/04 – “The effect of pre-sensory emotional primes on ESP performance, subject mood, and the mere exposure effect”**

Investigadores/Researchers: James Carpenter, Christine Simmonds-Moore

Instituição/Institution: Rhine Research Center, Durham, NC (USA)

Duração/Duration: 2005/11 – 2009/07

##### *Peer-reviewed publications*

Carpenter, J., Simmonds-Moore, C., Moore, S., & Carpenter, F. (2021). ESP contributes to the unconscious formation of preferences. *Journal of Parapsychology*, 85(1), 28–53. <https://doi.org/10.30891/jopar.2021.01.06>

#### **108/04 – “A pilot study into the incidence of deathbed phenomena in nursing homes and hospices in Hampshire England, and in Rotterdam Holland”**

Investigadores/Researchers: Peter Fenwick, Sue Brayne, Shirley Firth, Bart van de Lugt, Julian Candy, Frans Reynders, Frans Baar

Instituição/Institution: University Department of Mental Health, Royal Southampton Hospital, Hampshire (UK)

Duração/Duration: 2008/11 – 2016/01

##### *Peer-reviewed publications*

Santos, F. S., & Fenwick, P. (2012). Death, end of life experiences, and their theoretical and clinical implications for the mind-brain relationship. In A. Moreira-Almeida & F. S. Santos (Eds.), *Exploring frontiers*

of the mind-brain relationship (pp. 165-189). New York, NY: Springer Science. [https://doi.org/10.1007/978-1-4614-0647-1\\_9](https://doi.org/10.1007/978-1-4614-0647-1_9)

Fenwick, P., & Brayne, S. (2011). End-of-life experiences: Reaching out for compassion, communication, and connection-meaning of deathbed visions and coincidences. *American Journal of Hospice and Palliative Medicine*, 28(1), 7-15. <https://doi.org/10.1177/1049909110374301>

Fenwick, P., Lovelace, H., & Brayne, S. (2010). Non local effects in the process of Dying: Can quantum mechanics help? *Neuroquantology*, 8(2), 142-154.

Fenwick, P., Lovelace, H., & Brayne, S. (2010). Comfort for the dying: Five year retrospective and one year prospective studies of end of life experiences. *Archives of Gerontology and Geriatrics*, 51(2), 173-179. <https://doi.org/10.1016/j.archger.2009.10.004>

Brayne, S., Lovelace, H., & Fenwick, P. (2008). Life experiences and the dying process in a Gloucestershire nursing home as reported by nurses and care assistants. *American Journal of Hospice and Palliative Medicine*, 25(3), 195-206. <https://doi.org/10.1177/1049909108315302>

Brayne, S., & Fenwick, P. (2008). *End-of-life experiences: A guide for carers of the dying*. In Association with The Clinical Neuroscience Division, University of Southampton. [www.horizonresearch.org](http://www.horizonresearch.org) Home/for patients and caregivers

Brayne, S., & Fenwick, P. (2008). *Nearing the end of life: A guide for relatives and friends of the dying*. In Association with The Clinical Neuroscience Division, University of Southampton. [www.horizonresearch.org](http://www.horizonresearch.org) Home/for patients and caregivers pub.

Brayne, S., & Fenwick, P. (2008). The case for training to deal with end-of-life experiences. *European Journal of Palliative Care*, 15(3), 118-120.

Brayne, S., Lovelace, H., & Fenwick, P. (2008). End-of-life experiences and the dying process in a Gloucestershire nursing home as reported by nurses and care assistants. *American Journal of Hospice and Palliative Medicine*, 25(3), 195-206. <https://doi.org/10.1177/1049909108315302>

Fenwick, P., & Fenwick, E. (2008). *The art of dying*. Bloomsbury Continuum. ISBN: 978-0-8264-9923-3.

Fenwick, P., Lovelace, H., & Brayne, S. (2007). End of life experiences and their implications for palliative care. *International Journal of Environmental Studies*, 64(3), 315-323. <https://doi.org/10.1080/00207230701394458>

Brayne, S., Farnham, C., & Fenwick, P. (2006). Deathbed phenomena and their effect on a palliative care team: A pilot study. *American Journal of Hospice and Palliative Medicine*, 23(1), 17-24. <https://doi.org/10.1177/104990910602300104>

#### **112/04 – “Improvement of transcranial magnetic stimulation (TMS) coils for psychiatric applications”**

Investigadores/Researchers: Pedro Cavaleiro Miranda, Yiftach Roth, Ludovic Correia, Ricardo Salvador, Abraham Zangen

Instituição/Institution: Instituto de Biofísica e Engenharia Biomédica, Faculdade de Ciências da Universidade de Lisboa (Portugal)

Duração/Duration: 2005/01 – 2007/11

##### *Peer-reviewed publications*

Salvador, R., Miranda, P. C., Roth, Y., & Zangen, A. (2009). High permeability cores to optimize the stimulation of deeply located brain regions using transcranial magnetic stimulation. *Physics in Medicine and Biology*, 54(10), 3113-3128. <https://doi.org/10.1088/0031-9155/54/10/010>

Levkovitz, Y., Roth, Y., Harel, E. V., Braw, Y., Sheer, A., & Zangen, A. (2007). A randomized controlled feasibility and safety study of deep transcranial magnetic stimulation. *Clinical Neurophysiology*, 118(12), 2730-2744. <https://doi.org/10.1016/j.clinph.2007.09.061>

Roth, Y., Amir, A., Levkovitz, Y., & Zangen, A. (2007). Three-dimensional distribution of the electric field induced in the brain by transcranial magnetic stimulation using figure-8 and deep H-coils. *Journal of Clinical Neurophysiology*, 24(1), 31-38. <https://doi.org/10.1097/WNP.0b013e31802fa393>

**115/04 – “Psychophysiological Analysis of Learning and Memory using Zebrafish as an in vivo Model System”**

Investigadores/Researchers: Florian Engert, André Valente, Bettina Reiter, Johann Bollmann, Adam Kampff, Michael Orger

Instituição/Institution: Harvard Biological Laboratories, Cambridge (USA)

Duração/Duration: 2006/01 – 2012/09

*Peer-reviewed publications*

Valente, A., Huang, K.-H., Portugues, R., & Engert, F. (2012). Ontogeny of classical and operant learning behaviors in zebrafish. *Learning & Memory*, 19(4), 170-177. <https://doi.org/10.1101/lm.025668.112>

**116/04 – “Comparing conscious and physiological measurements in a cognitive DMILS study in Bali”**

Investigadores/Researchers: Hoyt Edge, Luh Ketut Suryani, Niko Tiliopoulos, Annemieka Bikker

Instituição/Institution: College of Arts and Sciences, Rollins College, Florida (USA)

Duração/Duration: 2005/03 – 2006/12

*Peer-reviewed publications*

Edge, H. (2012). Gibt es vorbegriffliche Beobachtungen? *Zeitschrift fur Anomalistik*, 12(2-3), 179-184.

Schmidt, S. (2012). Can we help just by good intentions? A meta-analysis of experiments on distant intention effects. *Journal of Alternative and Complementary Medicine*, 18(6), 529-533. <https://doi.org/10.1089/acm.2011.0321>

Schmidt, S. (2012). Die Fliege des Aristoteles. Bemerkungen zur Anomalistik und eine Forschungsübersicht zum Zusammenhang zwischen Meditation und Psi. *Zeitschrift fuer Anomalistik*, 12(2-3), 158-178.

**119/04 – “Event-related potentials of temperament traits in ADHD and conduct disorder”**

Investigadores/Researchers: Katya Rubia, Alex Sumich, Asherson, Eric Taylor

Instituição/Institution: Dept. Child Adolescent Psychiatry, Institute of Psychiatry, London (UK)

Duração/Duration: 2005/06 – 2007/11

*Peer-reviewed publications*

Sumich, A., Sarkar, S., Dadds, M., Kelesidi, K., Taylor, E., & Rubia, K. (2012). Electrophysiological correlates of CU traits show abnormal regressive maturation in adolescents with conduct problems. *Personality and Individual Differences*, 53(7), 862–867.

Sumich, A., Sarkar, S., Hermens, D., Ibrahimovic, A., Taylor, A., & Rubia, K. (2012). Sex differences in brain maturation as measured using event-related potentials. *Developmental Neuropsychology*, 37(5), 415-433. <https://doi.org/10.1080/87565641.2011.653461>

**134/04 – “Investigating the multidimensional nature of body image, sensorial representation, and phenomenology in relation to different forms of out-of-body experience”**

Investigadores/Researchers: Craig Murray, Jez Fox

Instituição/Institution: Manchester University (UK)

Duração/Duration: 2005/06 – 2006/07

*Peer-reviewed publications*

Murray, C., & Fox, J. (2006). Differences in body image between people reporting near-death and spontaneous out-of-body-experiences. *Journal of the Society for Psychical Research*, 70.2, 98-109.

Murray, C., Fox, J., & Wilde, D. (2006). The relationship between belief in the paranormal and performance on a visual imagery task: Do out-of-body experients have better visual imagery skills than non-experients? *Journal of the Society for Psychical Research*, 70.3, 170-176.

Murray, C. D., Wilde, D., & Fox, J. (2006) Self-concept and body investment in out-of-body experients. *European Journal of Parapsychology*, 21(1), 27-37.

Wilde, D., Murray, C. D., & Fox, J. (2006). Do out-of-body experients have better visual imagery skills than non-experients? In *Proceedings of Presented Papers: The Parapsychological Association 48th Annual Convention* (pp. 349-354).

Murray, C. D., Fox, J., & Wilde, D. (2005). Self-concept and body investment in out-of-body experients. In *Proceedings of Presented Papers: The Parapsychological Association 48th Annual Convention* (pp. 231-235).

Wilde, D., Murray, C., & Fox, J. (2006). Do out-of-body experients have better visual imagery skills than non-experients? In *Proceedings of Presented Papers: The Parapsychological Association 48th Annual Convention* (pp. 349-354).

#### **135/04 – “Telepresence and telepathy in immersive virtual reality”**

Investigadores/Researchers: Craig Murray, Christine Simmonds, Jez Fox

Instituição/Institution: Manchester University (UK)

Duração/Duration: 2005/11 – 2006/11

##### *Peer-reviewed publications*

Murray, C. D., Howard, T., Wilde, D., Fox, J., & Simmonds-Moore, C. (2007). Testing for telepathy using an immersive virtual environment. *Journal of Parapsychology*, 71, 105-124.

Murray, C.D., Howard, T., Fox, J., Caillette, F., Simmonds-Moore, C. and Wilde, D. (2006) The design and implementation of the telepathic immersive virtual reality system. In C. Simmonds-Moore, editor, *Proceedings of The Parapsychological Association 49th Annual Convention*, pages 100-114, Stockholm, August 2006.

Murray, C., Howard, T., Fox, J., Caillette, F., Simmonds-Moore, C., & Wilde, D. (2006). The design and implementation of the telepathic immersive reality system. *The International Journal of Parapsychology*, 13, 1-25.

Murray, C. D., Simmonds, C., & Fox, J. (2005). Telepathy and telepresence in immersive virtual reality. In *Proceedings of Presented Papers: The Parapsychological Association 48th Annual Convention* (pp. 236-241).

#### **150/04 – “Electrocortical activity during deep hypnosis experiences”**

Investigadores/Researchers: Etzel Cardeña, Dietrich Lehmann, Mark Winkel

Instituição/Institution: Department of Psychology, University of Lund (Sweden)

Duração/Duration: 2005/11 – 2007/02

##### *Peer-reviewed publications*

Cardeña, E., & Terhune, D. B. (2014). Hypnotizability, personality traits, and the propensity to experience alterations of consciousness. *Psychology of Consciousness: Theory, Research, and Practice*, 1(3), 292-307. <https://doi.org/10.1037/cns0000026>

Cardeña, E., Jönsson, P., Terhune, D. B., & Marcusson-Clavertz, D. (2013). The neurophenomenology of neutral hypnosis. *Cortex*, 49(2), 375-85. <https://doi.org/10.1016/j.cortex.2012.04.001>

Cardeña, E., Lehmann, D., Faber, P., Jönsson, P., Milz, P., Pascual-Marqui, R., & Kochi, K. (2012). EEG sLORETA functional imaging during hypnotic arm levitation and voluntary arm lifting. *International Journal of Clinical and Experimental Hypnosis*, 60(1), 31-53. <https://doi.org/10.1080/00207144.2011.622184>

Cardeña, E., & Terhune, D. B. (2009). A note of caution on the Waterloo Stanford Group Scale of Hypnotic Susceptibility: A brief communication. *International Journal of Clinical and Experimental Hypnosis*, 57(2), 222-226. <https://doi.org/10.1080/00207140802665484>

Cardeña, E., Terhune, D. B., Löff, A., & Buratti, S. (2008). Hypnotic experience is related to emotional contagion. *International Journal of Clinical and Experimental Hypnosis*, 57(1), 33-46. <https://doi.org/10.1080/00207140802463500>

Cardeña, E., Kallio, S., Terhune, D., Buratti, S., & Löff, A. (2007). The effect of translation and sex on hypnotizability testing. *Contemporary Hypnosis*, 24, 154-160 (see also erratum).

Cardeña, E., Lehmann, D., Jönsson, P., Terhune, D., & Faber, P. (2007). The neurophenomenology of hypnosis. In *Proceedings of the 50th Annual Convention of the Parapsychological Association* (pp. 17-30).

#### **152/04 – “Relating psi to a theory of intuition: using precognition habituation to improve ganzfeld scores”**

Investigadores/Researchers: Adrian Parker, Torbjorn Fagerberg

Instituição/Institution: Psychology Department, Gothenburg University (Sweden)

Duração/Duration: 2006/09 – 2008/05

##### *Peer-reviewed publications*

Parker, A. (2010). A ganzfeld study using identical twins. *Journal of the Society for Psychical Research*, 74.2, 118-126.

Parker, A., & Sjöden, B. (2010). Do some of us habituate to future emotional events? *Journal of Parapsychology*, 74(1), 99-115.

Parker, A., & Sjöden, B. (2010). The effect of priming of film clips prior to ganzfeld mentation. *European Journal of Parapsychology*, 25, 76-88.

Parker, A., & Sjöden, B. (2008). The subliminal priming of film clips used in the ganzfeld. In *Proceedings of the 51 st Annual Convention of The Parapsychological Association, Winchester* (pp. 356-359).



**153/04 – “The neural basis of attention disorder in schizophrenia”**

Investigadores/Researchers: Trevor J. Crawford, Bill Deakin, Stephen Higham

Instituição/Institution: Mental Health Research Unit (Lancaster) & Neuroscience and Psychiatry Unit (Manchester) (UK)

Duração/Duration: 2005/02 – 2007/02

*Peer-reviewed publications*

Crawford, T. J., Higham, S., Mayes, J., Dale, M., Shaunak, S., & Lekwuwa, G. (2013). The role of working memory and attentional disengagement on inhibitory control: effects of aging and Alzheimer's disease. *Age (Dordrecht, Netherlands)*, 35(5), 1637–1650. <https://doi.org/10.1007/s11357-012-9466-y>

Crawford, T. J., Kean, M., Klein, R. M., & Hamm, J. P. (2006). The effects of illusory line motion on incongruent saccades: Implications for saccadic eye movements and visual attention. *Experimental Brain Research*, 173(3), 498–506. <https://doi.org/10.1007/s00221-006-0392-z>

Crawford, T. J., Hill, S., & Higham, S. (2005). The inhibitory effect of a recent distracter. *Vision Research*, 45(27), 3365–3378. <https://doi.org/10.1016/j.visres.2005.07.024>

**155/04 – “Creativity, schizotypy, paranormal experiences and mental health: Developing a new cognitive-parapsychological paradigm for the assessment of psi performance in the laboratory”**

Investigadores/Researchers: Christine Simmonds-Moore, Nicola Holt

Instituição/Institution: University College Northampton (UK)

Duração/Duration: 2006/06 – 2009/07

*Peer-reviewed publications*

Holt, N., Simmonds-Moore, C., & Moore, S. (2020). Does latent inhibition underpin creativity, positive schizotypy and anomalous cognition? *Journal of Parapsychology*, 84(2), 156–178. <https://doi.org/10.30891/jopar.2020.02.02>

**163/04 – “Effects of different Biofeedback training procedures on quantitative Electroencephalographic parameters of healthy subjects”**

Investigadores/Researchers: Martijn Arns, Wytze van der Zwaag, Erica Heesen, Rien Breteler

Instituição/Institution: Brain Resource Company B.V., Nijmegen (The Netherlands)

Duração/Duration: 2005/01 – 2006/04

*Peer-reviewed publications*

van Dijk, H., van Wingen, G., Denys, D., Olbrich, S., van Ruth, T., & Arns, M. (2022). The two decades brainclinics research archive for insights in neurophysiology (TDBRAIN) database. *Scientific Data*, 9(1), 333. <https://doi.org/10.1038/s41597-022-01409-z>

Spronk, D., Kleinnijenhuis, M., Luijcklaar, G., & Arns, M. (2010). Discrete-Trial SCP and GSR training and the interrelationship between central and peripheral arousal. *Journal of Neurotherapy*, 14(3), 217–228. <https://doi.org/10.1080/10874208.2010.501501>

Kleinnijenhuis, M., Arns, M., Spronk, D., & Breteler, R. (2007). Comparison of discrete-trial based SMR and SCP training and the interrelationship between SCP and SMR networks: Implications for brain-computer interfaces and neurofeedback. *Journal of Neurotherapy*, 11(4), 19–35. <https://doi.org/10.1080/10874200802162808>

**168/04 – “Electrocortical studies of the hippocampal-parahippocampal (HP) structures in humans: Foramen ovale (FO) electrodes, as a research tool in human cognition and epilepsy”**

Investigadores/Researchers: Péter Halász, Zsófia Clemens, Csaba Borbély, Dániel Fabó

Instituição/Institution: National Institute of Psychiatry and Neurology, Department of Neurology, Epilepsy Center, Budapest (Hungary)

Duração/Duration: 2005/02 – 2007/07

*Peer-reviewed publications*

Clemens, Z., Mölle, M., Eross, L., Barsi, P., Halász, P., & Born, J. (2007). Temporal coupling of parahippocampal ripples, sleep spindles and slow oscillations in humans. *Brain*, 130, 2868–2878. <https://doi.org/10.1093/brain/awm146>

Clemens, Z., Fabó, D., & Halász, P. (2006). Twenty-four hours retention of visuospatial memory correlates with the number of parietal sleep spindles. *Neuroscience Letters*, 403(1–2), 52–56. <https://doi.org/10.1016/j.neulet.2006.04.035>





## Apoios à Investigação Científica 2006/07 | Grants for Scientific Research 2006/07

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 01/06 – “Automated testing for telepathy using emails and telephone calls”

Investigadores/Researchers: Rupert Sheldrake, Pamela Smart, David Luke

Instituição/Institution: Perrot-Warrick Project, London (UK)

Duração/Duration: 2007/10 – 2010/06

*Peer-reviewed publications*

Sheldrake, R., & Beeharee, A. (2016). Is joint attention detectable at a distance? Three automated, internet-based tests. *Explore: The Journal of Science and Healing*, 12(1), 34-41. <https://doi.org/10.1016/j.explore.2015.10.006>

Sheldrake, R. (2014). Telepathy in connection with telephone calls, text messages and emails. *Journal of International Society of Life Information Science (ISLIS)*, 32(1), 7-10.

Sheldrake, R., & Avraamides, L. (2009). An automated test for telepathy in connection with emails. *Journal of Scientific Exploration*, 23(1), 29-36.

Sheldrake, R., Avraamides, L., & Novak, M. (2009). Sensing the sending of SMS messages: An automated test. *Explore: The Journal of Science and Healing*, 5(5), 272-276. <https://doi.org/10.1016/j.explore.2009.06.004>

Sheldrake, R., & Beeharee, A. (2009). A rapid online telepathy test. *Psychological Reports*, 104(3), 957-970. <https://doi.org/10.2466/pr0.104.3.957-970>

### 07/06 – “Further investigations of the I Ching: Reliability and replication studies”

Investigador/Researcher: Lance Storm

Instituição/Institution: Anomalous Psychology Research Unit, Dep. of Psychology, University of Adelaide (Australia)

Duração/Duration: 2007/03 – 2008/05

*Peer-reviewed publications*

Storm, L. (2009). Investigations of the I Ching: II. Reliability and validity studies. *Australian Journal of Parapsychology*, 9(1), 111-142.

Storm, L. (2008). Investigations of the I Ching: I. Relationships between psi, time perspective, paranormal belief and meaningfulness. *Australian Journal of Parapsychology*, 8(2), 103-127.

### 12/06 – “The impact of mindfulness meditation on visuomotor performance and awareness of action: an EEG study of short- and long-term meditators”

Investigadores/Researchers: Stefan Schmidt, Jose Raul Naranjo

Instituição/Institution: Institute of Environmental Medicine and Hospital Epidemiology, University Hospital Freiburg (Germany)

Duração/Duration: 2007/05 – 2009/11

*Peer-reviewed publications*

Naranjo, J. R., & Schmidt, S. (2012). Is it me or not me? Modulation of perceptual-motor awareness and visuomotor performance by mindfulness meditation. *BMC Neuroscience*, 13: 88. <https://doi.org/10.1186/1471-2202-13-88>

**13/06 – “Vinculação em bebés institucionalizados e competência narrativa dos seus principais cuidadores: estudo sobre a actividade cardíaca do bebé na interacção com a figura de cuidados através do BioBeAMS 2.0”**

Investigadores/Researchers: Isabel Maria Costa Soares, João Paulo Silva Cunha, Margarida Isabel Rangel Santos Henriques, Carla Cristina Esteves Martins, Pedro Miguel Brito da Silva Dias

Instituição/Institution: Centro de Investigação em Psicologia (CIPSi), Universidade do Minho, Braga (Portugal)

Duração/Duration: 2007/04 – 2010/05

*Peer-reviewed publications*

Baptista, J., Belsky, J., Marques, S., Silva, J. R., Martins, C., & Soares, I. (2019). Early family adversity, stability and consistency of institutional care and infant cognitive, language and motor development across the first six months of institutionalization. *Infant Behavior and Development*, 57, 101387. <https://doi.org/10.1016/j.infbeh.2019.101387>

Baptista, J., Silva, J. R., Marques, S., Martins, C., & Soares, I. (2018). Early maltreatment and current quality of relational care predict socioemotional problems among institutionalized infants and toddlers. *Infant Mental Health Journal*, 39(6), 718-729. <https://doi.org/10.1002/imhj.21741>

Baptista, J., Belsky, J., Mesquita, A., & Soares, I. (2017). Serotonin transporter polymorphism moderates the effects of caregiver intrusiveness on ADHD symptoms among institutionalized preschoolers. *European Child & Adolescent Psychiatry*, 26, 303-313. <https://doi.org/10.1007/s00787-016-0890-x>

Baptista, J., Belsky, J., Marques, S., Silva, J., Oliveira, P., Mesquita, A., Martins, C., & Soares, I. (2014). The interactive effect of maltreatment in the family and unstable institutional caregiving in predicting behavior problems in toddlers. *Child Abuse and Neglect*, 38(12), 2072-2079. <https://doi.org/10.1016/j.chiabu.2014.10.015>

Baptista, J., Soares, I., & Henriques, M. R. (2013). O impacto da adoção no desenvolvimento da criança. *Psicologia*, 27(2), 63-79.

Soares, I., Belsky, J., Oliveira, P., Silva, J., Marques, J., Baptista, J., & Martins, C. (2014). Does early family risk and current quality of care predict indiscriminate behavior in institutionalized Portuguese children? *Attachment and Human Development*. <https://doi.org/10.1080/14616734.2013.869237>

Baptista J., Belsky, J., Martins, C., Silva, J., Marques, S., Mesquita, A. R., & Soares, I. (2013). Social withdrawal in institutionalized toddlers: Individual, early family and institutional determinants. *Infant Mental Health Journal*, 34(6), 562-573. <https://doi.org/10.1002/imhj.21416>

Baptista, J., Soares, I., & Henriques, M. R. (2013). Recuperação desenvolvimental após a adopção: Características da criança e da família adoptiva. *Psicologia: Reflexão e crítica*, 26(2), 396-404.

Martins, C., Belsky, J., Marques, S., Baptista, J., Silva, J., Mesquita, A., Castro, F., Sousa, N., & Soares, I. (2013). Diverse physical growth trajectories in institutionalized Portuguese children below age 3: Relation to child, family, and institutional factors. *Journal of Pediatric Psychology*, 38(4), 438-448. <https://doi.org/10.1093/jpepsy/jss129>

Soares, I., Belsky, J., Mesquita, A. R., Osório, A., & Sampaio, A. (2013). Why do only some institutionalized children become indiscriminately friendly? Insights from the Study of Williams Syndrome. *Child Development Perspectives*, 7(3), 187-192. <https://doi.org/10.1111/cdep.12036>

Oliveira, P., Soares, I., Martins, C., Silva, J., Marques, S., Baptista, J., & Lyons-Ruth, K. (2012). Indiscriminate behavior observed in the strange situation among institutionalized toddlers: Relations to caregiver report and to early family risk. *Infant Mental Health Journal*, 33(2), 187-196. <https://doi.org/10.1002/imhj.20336>

Pereira, M., Soares, I., & Dias, P. (2010). Desenvolvimento, psicopatologia e vinculação: Estudo exploratório com crianças em Centros de Acolhimento Temporário e suas cuidadoras. *Psicologia: Reflexão e Crítica*, 23(2), 222-231.

**23/06 – “Massagem ao bebé prematuro em cuidados intensivos neonatais: Efeito no funcionamento psicofisiológico dos bebés e pais”**

Investigadores/Researchers: Bárbara Fernandes de Carvalho Figueiredo, Clara Sofia Domingues Paz Dias, Maria Alice Peixoto Freitas, Maria Agostinha Costa Andrade, Maria José Faria Novais Rebelo, Susana Nunes da Silva, Maria de Lurdes Alves Senra, Maria José Carvalho Ferreira, César Bessa Pinheiro Teixeira, Mariana Pinto Basto Teixeira, Diana Patrícia Pires Pinto, Mariana Bianchi de Aguiar, Ana Guedes, Pombeiro

Instituição/Institution: Cipsi, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2007/07 – 2010/11

*Peer-reviewed publications*

Bianchi Aguiar, M., & Figueiredo, B. (2010). Prematuridade e baixo peso à nascença: Da investigação à intervenção. *Nursing*, 253, 7-17.

Figueiredo, B. (2007). Massagem ao bebé. *Acta Pediátrica Portuguesa*, 38(1), 29-38.

**32/06 – “A review and analysis of conceptual frameworks in accounts of animal psi”**

Investigadores/Researchers: Diane Dutton, Carl Williams  
Instituição/Institution: Liverpool Hope University, Liverpool (UK)  
Duração/Duration: 2007/09 – 2009/10

*Peer-reviewed publications*

Williams, C., & Dutton, D. (2010). What the animals have to say: Conceptual frameworks, commonalities and tensions in professional animal psi research and lay-animal psychic communication. *Journal of the Society for Psychical Research*, 74.2(899), 94-117.

Dutton, D., & Williams, C. (2009). Cleverbeasts and faithful pets: A critical review of animal psi research. *Journal of Parapsychology*, 73(1), 43-68.

**35/06 – “Developmental and genetic correlates of brain function in children at high- and low-risk for developing schizophrenia”**

Investigadores/Researchers: Kristin Robyn Laurens, Sheilagh Hodgins, Robin M. Murray, Eric A. Taylor, David Collier, Sir Michael Rutter  
Instituição/Institution: Department of Forensic Mental Health Science, Institute of Psychiatry, King's College London (UK)  
Duração/Duration: 2008/01 – 2011/07

*Peer-reviewed publications*

Si, S., Kempton, M., Hedges, E., Antoniades, M., Roberts, R. E., Cullen, A. E., & Laurens, K. R. (2026). Trajectories of gray and white matter volume in children at elevated risk for schizophrenia. *CNS spectrums*, 31(1), e23. <https://doi.org/10.1017/S1092852926101047>

Carpendale, E. J., Bell, M. C., Cullen, A. E., Dickson, H., Roberts, R. E., Fisher, H. L., & Laurens, K. R. (2025). Differentiation of childhood risk profiles for schizophrenia according to the development of verbal and performance intelligence. *Schizophrenia Research*, 283, 144–151. <https://doi.org/10.1016/j.schres.2025.07.001>

Haussler, S. M., Zahid, U., Day, F., Ciufolini, S., Petros, N., Gifford, G., Alameda, L., Quattrone, D., Dazzan, P., Pariante, C., Fisher, H. L., Laurens, K. R., Di Forti, M., Wood, S. J., Murray, R. M., McGuire, P., Mondelli, V., & Cullen, A. E. (2025). Salivary cortisol measures across the clinical stages of psychosis: An individual participant data (IPD) meta-analysis. *Psychoneuroendocrinology*, 173, 107283. <https://doi.org/10.1016/j.psyneuen.2025.107283>

Gutteridge, T. P., Kelly, A. B., & Laurens, K. R. (2023). Increased likelihood of distressing and functionally impairing psychotic-like experiences among children with co-occurring internalising and externalising problems. *Schizophrenia Research*, 252, 225-230. <https://doi.org/10.1016/j.schres.2023.01.017>

Carpendale, E. J., Cullen, A. E., Dickson, H., & Laurens, K. R. (2022) Dissociable impairments of verbal learning differentiate childhood risk profiles for schizophrenia. *Schizophrenia Research: Cognition*, 28, 100239. <https://doi.org/10.1016/j.scog.2022.100239>

Cullen, A., Fisher, H., Gullett, N., Fraser, E., Roberts, R. E., Zahid, U., To, M., Yap, N., Zunszain, P., Pariante, C., Wood, S., McGuire, P., Murray, R., Mondelli, V., & Laurens, K. R. (2022). Cortisol levels in childhood associated with emergence of attenuated psychotic symptoms in early adulthood. *Biological psychiatry*, 91(2), 226-235. <https://doi.org/10.1016/j.biopsych.2021.08.009>

Ahmedt-Aristizabal, D., Fernando, T., Denman, S., Robinson, J. E., Sridharan, S., Johnston, P. J., Laurens, K. R., & Fookes, C. (2021). Identification of children at risk of schizophrenia via deep learning and EEG responses. *IEEE Journal of Biomedical and Health Informatics*, 25(1), 69-76. <https://doi.org/10.1109/JBHI.2020.2984238>

Fernando, T., Denman, S., Ahmedt-Aristizabal, D., Sridharan, S., Laurens, K. R., Johnston, P., & Fookes, C. (2020). Neural memory plasticity for medical anomaly detection. *Neural Networks*, 127, 67-81. <https://doi.org/10.1016/j.neunet.2020.04.011>

Hobbs, M., & Laurens, K. (2020). Psychometric comparability of self-report by children aged 9–10 versus 11 years on the Strengths and Difficulties Questionnaire (SDQ). *Child Indicators Research*, 3, 301–318. <https://doi.org/10.1007/s12187-019-09633-7>

Gutteridge, T. P., Lang, C. P., Turner, A. M., Jacobs, B. W., & Laurens, K. R. (2020). Criterion validity of the Psychotic-Like Experiences Questionnaire for Children (PLEQ-C). *Schizophrenia Research*. <https://doi.org/10.1016/j.schres.2020.03.067>

Laurens K. R., Murphy J. R., Dickson H., Roberts R. E., & Gutteridge T. P. (2020). Trajectories of mismatch negativity and P3a amplitude development from age 9 to 16 years in children with risk factors for schizophrenia. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. <https://doi.org/10.1016/j.bpsc.2020.07.01>

Cullen, A., Day, F., Roberts, R., Pariante, C., & Laurens, K. (2015). Pituitary gland volume and psychosocial stress among children at elevated risk for schizophrenia. *Psychological Medicine*, 45(15), 3281-3292. <https://doi.org/10.1017/S0033291715001282>

Cullen, A. E., Fisher, H., Roberts, R. E., Pariante, C. M., & Laurens, K. R. (2014). Daily stressors and negative life events in children at risk for developing schizophrenia. *British Journal of Psychiatry*, 204, 354-360. <https://doi.org/10.1192/bjp.bp.113.127001>

Cullen, A. E., Zunszain, P. A., Dickson, H., Roberts, R. E., Fisher, H. L., Pariante, C. M., & Laurens, K. R. (2014). Cortisol awakening response and diurnal cortisol among children at elevated risk for schizophrenia: relationship to psychosocial stress and cognition. *Psychoneuroendocrinology*, 46(100):1-13. <https://doi.org/10.1016/j.psyneuen.2014.03.010>

Dickson, H., Cullen, A. E., Reichenberg, A., Hodgins, S., Campbell, D. D., Morris, R. G., & Laurens, K. R. (2014). Cognitive impairment among children at-risk for schizophrenia. *Journal of Psychiatric Research*, 50, 92-99. <https://doi.org/10.1016/j.jpsychires.2013.12.003>

Dickson, H., Calkins, M. E., Kohler, C., Hodgins, S., & Laurens, K. R. (2014). Misperceptions of facial emotions among youth aged 9-14 years who present multiple antecedents of schizophrenia. *Schizophrenia Bulletin*, 40(2), 460-468. <https://doi.org/10.1093/schbul/sbs193>

Bruggeman, J. M., Stockill, H. V., Lenroot, R. K., & Laurens, K. R. (2013). Mismatch negativity (MMN) and sensory auditory processing in children aged 9–12 years presenting with putative antecedents of schizophrenia. *International Journal of Psychophysiology*, 89(3), 374-380. <https://doi.org/10.1016/j.ijpsycho.2013.05.008>

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Laurens, K. R., Hodgins, S., Taylor, E., & Murray, R. (2011). Is earlier intervention for schizophrenia possible? Identifying antecedents of schizophrenia in children aged 9-12 years. In A. S. David, S. Kapur, & P. McGuffin (Eds.), *Schizophrenia: The Final Frontier* (pp. 19-32). London, UK: Psychology Press.

Cullen, A. E., Dickson, H., West, S. A., Morris, R., Mould, G. L., Hodgins, S., Murray, R., & Laurens, K. R. (2010). Neurocognitive performance in children aged 9 – 12 years who present putative antecedents of schizophrenia. *Schizophrenia Research*, 121(1-3), 15-23. <https://doi.org/10.1016/j.schres.2010.05.034>

Laurens, K. R., Hodgins, S., Mould, G. L., West, S. A., Schoenberg, P. L., Murray, R., & Taylor, E. (2010). Error-related processing dysfunction in children aged 9-12 years presenting putative antecedents of schizophrenia. *Biological Psychiatry*, 67(3), 238-245. <https://doi.org/10.1016/j.biopsych.2009.07.030>

Laurens, K. R., West, S. A., Murray, R., & Hodgins, S. (2008). Psychotic-like experiences and other developmental antecedents of schizophrenia in children aged 9-12 years: A comparison of ethnic and migrant groups in the United Kingdom. *Psychological Medicine*, 38(8), 1103-1112. <https://doi.org/10.1017/S0033291707001845>

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### 36/06 – “The psychophysiology of neurological abnormalities in first episode psychosis and in healthy individuals - A study using multimodal brain imaging”

Investigadores/Researchers: Paola Dazzan, Philip McGuire, Carmine Pariante, Marta Di Forti, Julia Lappin, Valeria Mondelli

Instituição/Institution: Division of Psychological Medicine, Institute of Psychiatry, London (UK)

Duração/Duration: 2007/03 – 2010/09

#### Peer-reviewed publications

Tosato, S., Ira, E., Russo, M., Iyegbe, C., Lasalvia, A., Di Forti, M., ... Dazzan, P. (2015). Association between the COMT gene and neurological abnormalities and poorer executive function in psychosis. *Psychiatry Research*, 230(2), 742-743. <https://doi.org/10.1016/j.psychres.2015.05.105>

Zhao, Q., Ma, Y. T., Lui, S. S., Liu, W. H., Xu, T., Yu, X., Tan, S. P., ..., Chan, R. C. K. (2013). Neurological soft signs discriminate schizophrenia from major depression but not bipolar disorder. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 43, 72-78. <https://doi.org/10.1016/j.pnpbp.2012.12.006>

Aas, M., Navari, S., Gibbs, A., Mondelli, V., Fisher, H. L., Morgan, C., Morgan, K., MacCabe, J., Reichenberg, A., Zanelli, J., Fearon, P., Jones, P. B., Murray, R. M., Pariante, C. M., & Dazzan, P. (2012). Is there a link between childhood trauma, cognition, and amygdala and hippocampus volume in first-episode psychosis? *Schizophrenia Research*, 137(1-3), 73-79. <https://doi.org/10.1016/j.schres.2012.01.035>

Hepgul, N., Pariante, C. M., Dipasquale, S., Di Forti, M., Taylor, H., Marques, T. R., Morgan, C., Dazzan, P., Murray, R. M., & Mondelli, V. (2012). Childhood maltreatment is associated with increased body mass index and increased C-reactive protein levels in first-episode psychosis patients. *Psychological Medicine*, 42(9), 1893-1901.

Mellacqua, Z., Eyeson, J., Orr, K. D., Morgan, K. D., Zanelli, J., Lloyd, T., Morgan, C., Fearon, P., Hutchinson, G., Doody, G. A., Chan, R. C., Harrison, G., Jones, P. B., Murray, R. M., Reichenberg, A., & Dazzan, P. (2012). Differential relationship between neurological and cognitive dysfunction in first episode psychosis patients and in healthy individuals. *Schizophrenia Research*, 142(1-3), 159-164. <https://doi.org/10.1016/j.schres.2012.09.016>

Mourao-Miranda, J., Reinders, A. A., Rocha-Rego, V., Lappin, J., Rondina, J., Morgan, C., Morgan, K. D., Fearon, P., Jones, P. B., Doody, G. A., Murray, R. M., Kapur, S., & Dazzan, P. (2012). Individualized prediction of illness course at the first psychotic episode: A support vector machine MRI study. *Psychological Medicine*, 42(5), 1037-1047. <https://doi.org/10.1017/S0033291711002005>

Peng, Z. W., Xu, T., Miao, G. D., He, Q. H., Zhao, Q., Dazzan, P., & Chan, R. C. (2012). Neurological soft signs in obsessive-compulsive disorder: the effect of co-morbid psychosis and evidence for familiarity. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 39(1), 200-205. <https://doi.org/10.1016/j.pnpbp.2012.06.015>

Belvederi Murri M, Pariante CM, Dazzan P, Hepgul N, Papadopoulos AS, Zunszain P, Di Forti M, Murray RM, Mondelli V (2011). Hypothalamic-pituitary-adrenal axis and clinical symptoms in first-episode psychosis. *Psychoneuroendocrinology*, 37(5), 629-644.

Dazzan, P., & Chan, R. C. K. (2011). Which neurological abnormalities and neuropsychological impairments share the same substrate in psychosis? *Chinese Science Bulletin*, 56(32), 3372-3375. <https://doi.org/10.1007/s11434-011-4737-z>

Mondelli, V., Cattaneo, A., Belvederi Murri, M., Di Forti, M., Handley, R., ... Pariante, C. (2011). Stress and inflammation reduce brain-derived neurotrophic factor expression in first-episode psychosis: a pathway to smaller hippocampal volume. *Journal of Clinical Psychiatry*, 72(12), 1677-1684. <https://doi.org/10.4088/JCP.10m06745>

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Demjaha, A., Morgan, K., Morgan, C., Landau, S., Dean, K., Reichenberg, A., ... Dazzan, P. (2009). Combining dimensional and categorical representation of psychosis: the way forward for DSM-V and ICD-11? *Psychological Medicine*, 39(12), 1943-1955. <https://doi.org/10.1017/S0033291709990651>

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#### 44/06 – “Brain electric activity in meditation: Extension of earlier work and hypothesis testing”

Investigadores/Researchers: Dietrich Lehmann, Shisei Tei, Pascal Faber, Hiraoki Kumano, Lorena Gianotti, Roberto Pascual-Marqui

Instituição/Institution: The KEY Institute for Brain-Mind Research, University Hospital of Psychiatry, Zurich (Switzerland)

Duração/Duration: 2007/10 – 2011/01

##### Peer-reviewed publications

Milz, P., Faber, P. L., Lehmann, D., Kochi, K., & Pascual-Marqui, R. D. (2014). sLORETA intracortical lagged coherence during breath counting in meditation-naïve participants. *Frontiers in Human Neuroscience*, 8, 303. <https://doi.org/10.3389/fnhum.2014.00303>

Faber, P., Lehmann, D., Tei, S., Tsujiuchi, T., Kumano, H., Pascual-Marqui, R., & Kochi, K. (2012). EEG source imaging during two Qigong meditations. *Cognitive Processing*, 13(3), 255-265. <https://doi.org/10.1007/s10339-012-0441-4>

Lehmann, D., Faber, P., Tei, S., Pascual-Marqui, R., Milz, P., & Kochi, K. (2012). Reduced functional connectivity between cortical sources in five meditation traditions detected with lagged coherence using EEG tomography. *Neuroimage*, 60(2), 1574-1586. <https://doi.org/10.1016/j.neuroimage.2012.01.042>

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#### 49/06 – “Exploring extrasensory perception under hypnosis stimulation: Personality, imagery, creativity dimension using emotional/neutral targets and relax-tension/hypnosis condition”

Investigadores/Researchers: Alejandro Enrique Parra, Juan Carlos Argibay, Sérgio Matteucci

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)

Duração/Duration: 2007/02 – 2009/01

##### Peer-reviewed publications

Parra, A., & Argibay, J. C. (2016). Exploratory study of the temperament theory and paranormal experiences. *Journal of the Society for Psychical Research*, 80(3), 214-223.

Parra, A., & Argibay, J. C. (2016). Individual, perceptual and psychological differences between psi-tested self-claimed psychics and non-psychics. *Australian Journal of Parapsychology*, 16(1), 63-84.

Parra, A. (2015). Gender differences in sensation seeking and paranormal/anomalous experiences. *The Open Psychology Journal*, 8, 54-58.

Parra, A. (2015). Seeing rare things with the mind's eye: Visual imagery vividness and paranormal/anomalous experiences. *Australian Journal of Parapsychology*, 15(1), 37-51.

Parra, A. (2015). Framework of belief in paranormal experiences and its relation to positive/negative schizotypy. *Paranthropology: Journal of Anthropological Approaches to the Paranormal*, 6(1), 26-34.

Parra, A. (2013). Mauvais sommeil et perceptions inhabituelles: Une relation de cause à effet? *Bulletin Métapsychique*, 14, 10-15

Parra, A., & Argibay, J. C. (2013). A free-response ESP test in two hypnotic susceptibility groups: A pilot study. *Australian Journal of Parapsychology*, 13(1), 27-35.

Parra, A. & Argibay, J.C. (2012). Dos experimentos de percepción extrasensorial en individuos hipnotizables. *E-boletín Psi*, 7, 1. [http://www.alipsi.com.ar/e-boletín/e-boletín-psi\\_vol.7\\_no.1\\_enero\\_2012.htm#tit03](http://www.alipsi.com.ar/e-boletín/e-boletín-psi_vol.7_no.1_enero_2012.htm#tit03)

#### 51/06 – “Hallucination Experience and PSI: A psychological, psychopathological, psychophysiological and transcultural approach”

Investigadores/Researchers: Alejandro Enrique Parra, Luis Santiago Espinoza Paul

Instituição/Institution: Universidad Abierta Interamericana, Facultad de Psicología, Buenos Aires (Argentina)

Duração/Duration: 2007/02 – 2009/01

##### Peer-reviewed publications

Parra, A. (2018). Perceptual-personality variables associated with entity encounter experiences. *Australian Journal of Parapsychology*, 18(1), 23-48.

Parra, A. (2012). Experiencias perceptuales inusuales, experiencias anómalo/paranormales y propensión a la esquizotipia. *Universitas Psychologica*, 11(1), 269-278.

Parra, A. (2011). Encuesta on-line de experiencias anómalo/paranormales y su impacto emocional: Relación con género, edad, y otras variables. *Persona*, 14, 211-228.

Parra, A. (2010). Exámen correlacional entre experiencias anómalo/paranormales, disociación, absorción y propensidad a la fantasía: exploración sobre una muestra de estudiantes. *Revista Iberoamericana de Diagnóstico y Evaluación Psicológica*, 29(2), 77-96.

Parra, A. (2010). Indicadores de propensión a la esquizotipia en individuos creyentes en lo paranormal: Examinando la intensidad de la imaginación y las experiencias alucinatorias. *Psicología: Teoría e Práctica*, 12(3), 78-94.

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Parra, A. & Espinoza Paul, L. (2010) Comparación entre la esquizotipia positiva y negativa con la intensidad de la espiritualidad y las experiencias paranormales en población no-clínica. *Revista Argentina de Clínica Psicológica*, 19(2), 163-172.

Parra, A. (2010). Experiencias extrasensoriales y experiencias alucinatorias: Examinando la hipótesis del continuo de experiencias esquizotípicas. *Liberabit*, 16(1), 1-10.

Parra, A. (2010) Out-of-body experiences and hallucinatory experiences: A psychological approach. *Imagination, Cognition and Personality*, 29(3), 211-224.

Parra, A. & Espinoza Paul, L. (2010). Extrasensory experiences and hallucinatory experience: Comparison between two non-clinical samples linked with psychological measures. *Journal of the Society for Psychical Research*, 74.3 (900), 1-11.

Parra, A. (2009). Testeando el modelo disociacional de las experiencias alucinatorias en individuos saludables: Relación con la personalidad y la propensión a la fantasía. *Revista Latinoamericana de Psicología*, 41(3), 571-586.

Parra, A. (2009). ¿Las experiencias extracorporales son una forma de alucinación corporal? *Subjetividad y Procesos Cognitivos*, 13, 164-173.

Parra, A. (2009). Experiencias alucinatorias nocturnas: Relación con la esquizotipia, tendencias disociativas y propensión a la fantasía. *Revista Internacional de Psicología*, 43,(1), 134-143.

Parra, A. (2009) Variables cognitivas y perceptuales en la experiencia del déjà vu. *Acta Psiquiátrica y Psicológica de América Latina*, 55(4), 29-36.

Parra, A. & Espinoza Paul, L. (2009). Alucinaciones y apariciones: Exploración intercultural de mediciones perceptuales entre estudiantes limeños y pucallpinos. *Persona*, 12, 187-206.

Parra, A. & Espinoza Paul, L. (2009). Experiencias extracorpóreas en relación a la propensión a alucinar, esquizotipia y disociación en estudiantes argentinos y peruanos. *Límite: Revista de Filosofía y Psicología*, 4(20), 95-121.

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Parra, A. (2008). Esperienze fuori del corpo ed esperienze allucinatorie: Un approccio psicologico. *Quaderni di Parapsicologia*, 39(9), 32-51.

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Parra, A. (2008). Efectos de las experiencias espirituales/paranormales en la vida de las personas y su bienestar psicológico. *Revista Argentina de Clínica Psicológica*, 17, 233-242.

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Parra, A. (2008). Alucinaciones "negativas": ¿Falla en la percepción o disociación amnésica? *Actualidad Psicológica*, 33(366), 29-31.

Parra, A. (2008). Aura vision as a hallucinatory experience: Its relation to fantasy proneness, absorption, and other perceptual maladjustments. En S. Sherwood (Ed.), *Proceedings of the 51<sup>st</sup> Annual Convention of the Parapsychological Association* (166-175). West Downs Centre, The University of Winchester: Winchester, England.

Parra, A. (2007). La experiencia alucinatoria: El continuo de experiencias en individuos normales y psicóticos. *Acta Psiquiátrica y Psicológica de América Latina*, 53(4), 244-256.

Parra, A. (2007). ¿Es la alucinación una experiencia normal?: Una evaluación dimensional de la experiencia alucianatoria en individuos no-psicóticos. *Actualidad Psicológica*, 32(359), 20-24.

Parra, A. (2007). Interrelación entre disociación, absorción y propensión a la fantasía con experiencias alucinatorias en población no-clínica. *Alcmeón: Revista Argentina de Clínica Neuropsiquiátrica*, 16(1), 61-71.

Parra, A. (2007). Seeing and feeling ghosts: Absorption, fantasy proneness, and healthy schizotypy as predictors of crisis apparitional crisis. En J. Palmer (Ed.), *Proceedings of the 50<sup>th</sup> Annual Convention of the Parapsychological Association* (84-94). Holiday Inn Hotel Halifax, NS, Canadá.

Parra, A.; Adróver, J. F. & González, G. (2006). Estudio exploratorio de la experiencia alucinatoria: Comparación entre población clínica y no-clínica. En A. Trimboli, J.C. Fantin; S. Raggi y P. Fridman (Eds.), *Encrucijadas actuales en salud mental: Primer Congreso Argentino de Salud Mental* (pp. 258-267) Buenos Aires: Akadia.

Parra, A. (2006). "Seeing and feeling ghosts": Absorption, fantasy proneness, and healthy schizotypy as predictors of crisis apparition experiences. *Journal of Parapsychology*, 70, 357-372.

#### **54/06 – "Heterogeneity in high hypnotic suggestibility and its implications for the study of anomalous experiences"**

Investigadores/Researchers: Devin Blair Terhune, Etzel Cardeña

Instituição/Institution: Department of Psychology, Lund University, Lund (Sweden)

Duração/Duration: 2007/09 – 2010/10

##### *Peer-reviewed publications*

Acunzo, D., Cardeña, E., & Terhune, D. B. (2020). Anomalous experiences are more prevalent among highly suggestible individuals who are also highly dissociative. *Cognitive Neuropsychiatry*. <https://doi.org/10.1080/13546805.2020.1715932>

Cardeña, E., & Terhune, D. B. (2014). Hypnotizability, personality traits, and the propensity to experience alterations of consciousness. *Psychology of Consciousness: Theory, Research, and Practice*, 1(3), 292-307. <https://doi.org/10.1037/cns0000026>

Terhune, D. B., & Cardeña, E. (2015). Heterogeneity in high hypnotic suggestibility and the neurophysiology of hypnosis. *Neurophysiologie Clinique/Clinical Neurophysiology*, 45(2), 177-179. <https://doi.org/10.1016/j.neucli.2014.10.003>

Marcusson-Clavertz, D., Terhune, D. B., & Cardeña, E. (2012). Individual differences and state effects on mind-wandering: Hypnotizability, dissociation, and sensory homogenization. *Consciousness and Cognition*, 21(3), 1097–1108. <https://doi.org/10.1016/j.concog.2012.04.002>

Terhune, D. B., & Brugger, P. (2011). Doing better by getting worse: Posthypnotic amnesia improves random number generation. *PLoS ONE*, 6, e29206.

Terhune, D. B., Cardeña, E., & Lindgren, M. (2011). Dissociative tendencies and individual differences in high hypnotic suggestibility. *Cognitive Neuropsychiatry*, 16, 113-135.

Terhune, D. B., Cardeña, E., & Lindgren, M. (2011). Differential frontal-parietal phase synchrony during hypnosis as a function of hypnotic suggestibility. *Psychophysiology*, 48, 1444-1447.

Terhune, D. B., Cardeña, E., & Lindgren, M. (2011). Dissociated control as a signature of typological variability in high hypnotic suggestibility. *Consciousness and Cognition*, 20, 727-736.

Terhune, D. B., & Cardeña, E. (2010). Differential patterns of spontaneous experiential response to a hypnotic induction: A latent profile analysis. *Consciousness and Cognition*, 19, 1140-1150.

Terhune, D. B., Cardeña, E., & Lindgren, M. (2010). Disruption of synaesthesia by posthypnotic suggestion: An ERP study. *Neuropsychologia*, 48, 3360-3364.

Cardeña, E., & Terhune, D. B. (2009). A note of caution on the Waterloo-Stanford Group Scale of hypnotic susceptibility: a brief communication. *International Journal of Clinical and Experimental Hypnosis*, 57, 222-226.

#### **57/06 – "The diurnal pattern of cortisol secretion in relation to season in healthy participants and those with seasonal affective disorder (SAD)"**

Investigadores/Researchers: Angela Clow, Phil Evans, Frank Hucklebridge, Lisa Thorn

Instituição/Institution: Psychophysiology and Stress Research Group, Dep. of Psychology and Human and Health Sciences, University of Westminster, London (UK)

Duração/Duration: 2007/02 – 2009/05

##### *Peer-reviewed publications*

Thorn, L., Evans, P., Cannon, A., Hucklebridge, F., & Clow, A. (2011). Seasonal differences in the diurnal pattern of cortisol secretion in healthy participants and those with self-assessed seasonal affective disorder. *Psychoneuroendocrinology*, 36(6), 816–823. <https://doi.org/10.1016/j.psyneuen.2010.11.003>

Clow, A., Hucklebridge, F., & Thorn, L. (2010). The cortisol awakening response in context. *International Review of Neurobiology*, 93, 153-175. [https://doi.org/10.1016/S0074-7742\(10\)93007-9](https://doi.org/10.1016/S0074-7742(10)93007-9)

**59/06 – “Probing the human mirror neuron system using EEG: action observation, error monitoring and empathy”**

Investigadores/Researchers: Joseph Patrick Levy, Armanda H. R. Holmes, Lance Slade, Jonathan Silas, Maria Nielson

Instituição/Institution: Centre for Research in Cognition, Emotion and Interaction, School of Human and Life Sciences, Roehampton University, London (UK)

Duração/Duration: 2007/04 – 2011/09

*Peer-reviewed publications*

Silas, J., Levy, J., Nielsen, M., Slade, L., & Holmes, A. (2010). Sex and individual differences in induced and evoked EEG measures of action observation. *Neuropsychologia*, 48(9), 2417-2426. <https://doi.org/10.1016/j.neuropsychologia.2010.03.004>

**62/06 – “The pilgrimage project: A study of motivations and experiences in sacred spaces”**

Investigadores/Researchers: Miguel H. Farias, Alana Harris, Christina Aus der Au, Katja Wiech, Pedro Soares, Wiebke Frieze

Instituição/Institution: Ian Ramsey Centre, University of Oxford (UK)

Duração/Duration: 2007/03 – 2010/02

*Peer-reviewed publications*

Farias, M., Coleman, T. J., Bartlett, J. E., Oviedo, L., Soares, P., & Bas, M. (2019). Atheists on the Santiago way: Examining motivations to go on pilgrimage. *Sociology of Religion*, 80(1), 28-44. <https://doi.org/10.1093/socrel/sry019>

Farias, M., van Mulukom, V., Kahane, G., Kreplin, U., Joyce, A., ..., Möttönen, R. (2017). Supernatural belief is not modulated by intuitive thinking style or cognitive inhibition. *Scientific Reports*, 7, Article number: 15100. <https://doi.org/10.1038/s41598-017-14090-9>

Oviedo, L., De Courcier, S., & Farias, M. (2014). Rise of pilgrims on the camino to Santiago: Sign of change or religious revival? *Review of Religious Research*, 56(3), 433-442. <https://doi.org/10.1007/s13644-013-0131-4>

Harris, A. (2013). Lourdes and holistic spirituality: Contemporary catholicism, the therapeutic and religious thermalism. *Culture and Religion*, 4(1), 23-43. <https://doi.org/10.1080/14755610.2012.756411>

**64/06 – “Brain imaging study of the psychological antecedents and neural correlates of moral judgement”**

Investigadores/Researchers: Nicholas Shackel, Katja Wiech, Guy Kahane, Miguel Farias

Instituição/Institution: Ian Ramsey Centre, University of Oxford (UK)

Duração/Duration: 2007/02 – 2008/12

*Peer-reviewed publications*

Wiech, K., Kahane, G., Shackel, N., Farias, M., Savulescu, J., & Tracey, I. (2013). Cold or calculating? Reduced activity in the subgenual cingulate cortex reflects decreased emotional aversion to harming in counterintuitive utilitarian judgment. *Cognition*, 126(3), 364-72. <https://doi.org/10.1016/j.cognition.2012.11.002>

Kahane, G., Wiech, K., Shackel, N., Farias, M., Savulescu, J., & Tracey, I. (2011). The neural basis of intuitive and counterintuitive moral judgment. *Social Cognitive and Affective Neuroscience*, 7(4), 393-402. <https://doi.org/10.1093/scan/nsr005>

**65/06 – “Exploring the relationship of out-of-body experiences and hallucinations: The role of depersonalization experiences”**

Investigadores/Researchers: Carlos S. Alvarado, Nancy Zingrone

Instituição/Institution: Parapsychology Foundation Satellite Office, Virginia (USA)

Duração/Duration: 2007/03 – 2009/05

*Peer-reviewed publications*

Zingrone, N. L., Alvarado, C. S., & Agee, N. (2009). Psychological correlates of aura vision: Psychic experiences, dissociation, absorption, and synaesthesia-like experiences. *Australian Journal of Clinical and Experimental Hypnosis*, 37(2), 57-94.



### **70/06 – “Out of body” and “In the body” experience: Psychophysiology of bodily self-consciousness”**

Investigador/Researcher: Patrick Haggard

Instituição/Institution: University College London Institute of Cognitive Neuroscience, London (UK)

Duração/Duration: 2007/09 – 2008/05

#### *Peer-reviewed publications*

Papeo, L., Longo, M. R., Feurra, M., & Haggard, P. (2010). The role of the right temporoparietal junction in intersensory conflict: detection or resolution? *Experimental Brain Research*, 206, 129-39. <https://doi.org/10.1007/s00221-010-2198-2>

Serino, A., & Haggard, P. (2010). Touch and the body. *Neuroscience & Biobehavioral Reviews*, 34(2), 224-236. <https://doi.org/10.1016/j.neubiorev.2009.04.004>

Tsakiris, M., Longo, M. R., & Haggard, P. (2010). Having a body versus moving your body: neural signatures of agency and body-ownership. *Neuropsychologia*, 48(9), 2740–2749. <https://doi.org/10.1016/j.neuropsychologia.2010.05.021>

Haggard, P., & Jundt, S. (2009). Rubber hand illusions and size-weight illusions: Self-representation modulates representation of external objects. *Perception*, 38(12), 1796-1803. <https://doi.org/10.1068/p6399>

Kammers, M. P., Longo, M. R., Tsakiris, M., Dijkerman, H. C., & Haggard, P. (2009). Specificity and coherence of body representations. *Perception*, 38(12), 1804-1820. <https://doi.org/10.1068/p6389>

Longo, M. R., & Haggard, P. (2009). Sense of agency primes manual motor responses. *Perception*, 38(1), 69-78.

Longo, M. R., Cardozo, S., & Haggard, P. (2008). Visual enhancement of touch and the bodily self. *Consciousness and Cognition*, 17, 1181-1191.

Longo, M. R., Schüür, F., Kammers, M. P. M., Tsakiris, M., & Haggard, P. (2008). What is embodiment? A psychometric approach. *Cognition*, 107, 978-998.

Tsakiris, M., Costantini, M., & Haggard, P. (2008). The role of the right temporo-parietal junction in maintaining a coherent sense of one's body. *Neuropsychologia*, 46, 3014-3018.

### **71/06 – “Ultra-weak photon emission and EEG in a study on color perception in the dark”**

Investigadores/Researchers: Roeland Van Wijk, R. Bajpai, E.P.A. Van Wijk, S. Bosman, J.M. Acherman

Instituição/Institution: International Institute of Biophysics, Neus (Germany)

Duração/Duration: 2007/03 – 2008/04

#### *Peer-reviewed publications*

Van Wijk, R., Bosman, S., Ackerman, J., & Van Wijk, E. (2008). Correlation between fluctuations in human ultra-weak photon emission and EEG alpha rhythm. *NeuroQuantology*, 6(4), 452-463.

### **72/06 – “Required time for cognitive and motor activities in lucid dreams”**

Investigadores/Researchers: Daniel Erlacher, Michael Schredl, Carmen Gebhart

Instituição/Institution: University of Heidelberg, Institute for Sport and Sports Science, Heidelberg (Germany)

Duração/Duration: 2007/01 – 2009/01

#### *Peer-reviewed publications*

Erlacher, D., Schädlich, M., Stumbrys, T., & Schredl, M. (2014). Time for actions in lucid dreams: effects of task modality, length, and complexity. *Frontiers in Psychology*, 4, 1013. <https://doi.org/10.3389/fpsyg.2013.01013>

Erlacher, D., & Chapin, H. (2010). Lucid dreaming: Neural virtual reality as a mechanism for performance enhancement. *International Journal of Dream Research*, 3(1), 7-10. <https://doi.org/10.11588/ijodr.2010.1.588>

### **73/06 – “The role of the cortico-basal ganglia circuit in learning and memory: From patient studies to functional neuroimaging”**

Investigadores/Researchers: Marieke van Asselen, Albert Postma, António Freire Gonçalves, Inês Almeida, José Rebola

Instituição/Institution: IBILI - Faculdade de Medicina, Universidade de Coimbra (Portugal)

Duração/Duration: 2008/01 – 2011/09

#### *Peer-reviewed publications*

Van Asselen, M., Júlio, F., Januário, C., Bobrowicz-Campos, E., Almeida, I., Cavaco, S., & Castelo-Branco, M. (2012). Scanning patterns of faces do not explain impaired emotion recognition in Huntington disease: Evidence for a high level mechanism. *Frontiers in Psychology*, 3, 31. <https://doi.org/10.3389/fpsyg.2012.00031>

Van Asselen, M., Almeida, I., Júlio, F., Januário, C., Bobrowicz Campos, E., Simões, M., Castelo-Branco, M. (2012). Implicit contextual learning in prodromal and early stage Huntington's disease patients. *Journal of the International Neuropsychological Society*, 18(4), 689-696.

Van Asselen, M., Sampaio, J., Pina, A., Castelo-Branco, M., (2010). Object based implicit contextual learning: A study of eye movements. *Attention, Perception & Psychophysics*, 73(2) 297-302.

Van Asselen, M., Almeida, I., André, R., Januário, C., Freire Gonçalves, A., Castelo-Branco, M. (2009). The role of the basal ganglia in implicit contextual learning: A study of Parkinson's disease. *Neuropsychologia*, 47(5), 1269-1273.

Van Asselen, M., & Castelo-Branco, M. (2009). The role of peripheral vision in implicit contextual cueing. *Attention, Perception, & Psychophysics*, 71(1), 76-81. <https://doi.org/10.3758/APP.71.1.76>

#### **78/06 – “ERP correlates of relational learning: Testing a behavioural model of word webs”**

Investigadores/Researchers: Simon Dymond, Lanny Fields

Instituição/Institution: Wales Institute of Cognitive Neuroscience, Dep. of Psychology, University of Wales, Swansea (UK)

Duração/Duration: 2007/01 – 2009/03

##### *Peer-reviewed publications*

Wang, T., & Dymond, S. (2013). Event-related potential correlates of emergent inference in human arbitrary relational learning. *Behavioural Brain Research*, 236(1), 332–343. <https://doi.org/10.1016/j.bbr.2012.08.033>

#### **80/06 – “Understanding the role of dendrites in cortical information processing”**

Investigadores/Researchers: Drazen Domijan, Mladenka Tkalcic, Mia Setic, Ana Prorokvic, Pavle Valerjev  
Instituição/Institution: Dep. of Psychology, Faculty of Arts and Sciences, University of Rijeka, Rijeka (Croatia)

Duração/Duration: 2007/02 – 2010/02

##### *Peer-reviewed publications*

Domijan, D. (2011). A computational model of fMRI activity in the intraparietal sulcus that supports visual working memory. *Cognitive, Affective, & Behavioral Neuroscience*, 11(4), 573-599.

Domijan, D., & Setic, M. (2010). Perception as a context for conceptual processing and language understanding. *Review of Psychology*, 17, 47-51.

Domijan, D., & Setic, M. (2008). A feedback model of figure-ground assignment *Journal of Vision*, 8(7):10, 1-27, <http://journalofvision.org/8/7/10/>.

Setic, M., & Domijan, D. (2008). Modeling the top-down influences on the lateral interactions in the visual cortex. *Brain Research*, 1225, 86-101.

Domijan, D. (2007). Cortical synchronization as a neural basis for visual perception. *Review of Psychology*, 14, 3-12.

#### **85/06 – “The occurrence, phenomenology and psychological correlates of Out-Of-Body and Near-Death Experiences”**

Investigadores/Researchers: Craig Murray, David J. Wilde

Instituição/Institution: Manchester University, Manchester (UK)

Duração/Duration: 2007/06 – 2009/11

##### *Peer-reviewed publications*

Wilde, D., & Murray, C. (2010). Interpreting the anomalous: Finding meaning in out-of-body and near-death experiences. *Qualitative Research in Psychology*, 7(1), 57-72. <https://doi.org/10.1080/14780880903304550>

Wilde, D., & Murray, C. (2009). An interpretative phenomenological analysis of out-of-body experiences in two cases of novice meditators. *Australian Journal of Clinical and Experimental Hypnosis*, 37(2), 90-118.

Wilde, D., & Murray, C. (2009). The evolving self: finding meaning in near-death experiences using interpretative phenomenological analysis. *Mental Health, Religion and Culture*, 12(3), 223-239. <https://doi.org/10.1080/13674670802334910>

**94/06 – “Feedback modulation of visual processing by limbic circuits: a functional connectivity approach to visual face processing / Modulação retroactiva do processamento visual medida por circuitos límbicos: conectividade funcional dos circuitos envolvidos no processamento visual de faces”**

Investigadores/Researchers: Miguel de Sá e Sousa de Castelo-Branco, Cristina Januário, Solange Silva, Aldina Reis, Catarina Mateus, Miguel Cordeiro

Instituição/Institution: IBILI - Faculdade de Medicina, Coimbra (Portugal)

Duração/Duration: 2008/01 – 2011/02

*Peer-reviewed publications*

Almeida, I., Van Asselen, M., & Van Asselen, M. (2013). The role of the amygdala and the basal ganglia in visual processing of central vs. peripheral emotional content. *Neuropsychologia*, 51(11), 2120-2129. <https://doi.org/10.1016/j.neuropsychologia.2013.07.007>

Bernardino, I., Castelhana, J., Farivar, R., Silva, E., & Castelo-Branco, M. (2013). Neural correlates of visual integration in Williams syndrome: gamma oscillation patterns in a model of impaired coherence. *Neuropsychologia*, 51(7), 1287-1295. <https://doi.org/10.1016/j.neuropsychologia.2013.03.020>

Graewe, B., Lemos, R., Ferreira, C., Santana, I., Farivar, R., ..., & Castelo-Branco, M. (2013). Impaired processing of 3D motion-defined faces in mild cognitive impairment and healthy aging: an fMRI study. *Cerebral Cortex*, 23(10), 2489-99. <https://doi.org/10.1093/cercor/bhs246>

Graewe, B., De Weerd, P., Farivar, R., & Castelo-Branco, M. (2012). Stimulus dependency of object-evoked responses in human visual cortex: An inverse problem for category specificity. *PLoS ONE* 7(2), e30727. <https://doi.org/10.1371/journal.pone.0030727>

Lemos, R., Figueiredo, P., Santana, I., Simoes, M. R., & Castelo-Branco, M. (2012). Temporal Integration of 3D Coherent Motion Cues Defining Visual Objects of Unknown Orientation is Impaired in Amnesic Mild Cognitive Impairment and Alzheimer's Disease. *Journal of Alzheimers Disease*, 28(4), 885-896. <https://doi.org/10.3233/jad-2011-110719>

Rebola, J., Castelhana, J., Ferreira, C., & Castelo-Branco, M. (2012). Functional parcellation of the operculo-insular cortex in perceptual decision making: An fMRI study. *Neuropsychologia*, 50(14), 3693-3701. <https://doi.org/10.1016/j.neuropsychologia.2012.06.020>

Van Asselen, M., Júlio, F., Januário, C., Campos, E. B., Almeida, I., Cavaco, S., & Castelo-Branco, M. (2012). Scanning patterns of faces do not explain impaired emotion recognition in Huntington disease: evidence for a high level mechanism. *Frontiers in Psychology*, 3: 31. <https://doi.org/10.3389/fpsyg.2012.00031>

Sampaio, J., Bobrowicz-Campos, E., Andre, R., Almeida, I., Faria, P., Januario, C., . . . Castelo-Branco, M. (2011). Specific impairment of visual spatial covert attention mechanisms in Parkinson's disease. *Neuropsychologia*, 49(1), 34-42. <https://doi.org/10.1016/j.neuropsychologia.2010.11.002>

Gonçalves, O., Reis Marques, T., Lori, N., Sampaio, A., & Castelo-Branco, M. (2010). Obsessive-compulsive disorder as a visual processing impairment. *Medical Hypotheses*, 74(1), 107-109. <https://doi.org/10.1016/j.mehy.2009.07.048>

Nunes, T., Fragata, I., Ribeiro, F., Palma, T., Maroco, J., ... Mendonça, A. (2010). The outcome of elderly patients with cognitive complaints but normal neuropsychological tests. *Journal of Alzheimer's disease*, 19(1), 137-145. <https://doi.org/10.3233/JAD-2010-1210>

Pires, G., Nunes, U., & Castelo-Branco, M. (2010). Statistical spatial filtering for a P300-based BCI: tests in able-bodied, and patients with cerebral palsy and amyotrophic lateral sclerosis. *Journal of Neuroscience Methods*, 195(2), 270-281. <https://doi.org/10.1016/j.jneumeth.2010.11.016>

Van Asselen, M., Sampaio, J., Pina, A., & Castelo-Branco, M. (2010). Object based implicit contextual learning: a study of eye movements. *Attention, Perception & Psychophysics*, 73(2), 297-302. <https://doi.org/10.3758/s13414-010-0047-9>

Castelo-Branco, M., Kozak, L., Formisano, E., Teixeira, J., Xavier, J., & Goebel, R. (2009). The type of featural attention differentially modulates hMT+responses to illusory motion aftereffects. *Journal of Neurophysiology*, 102(5), 3016-3025. <https://doi.org/10.1152/jn.90812.2008>

Marques, J., Rebola, J., Figueiredo, P., Pinto, A., Sales, F., & Castelo-Branco, M. (2009). ICA decomposition of EEG signal for fMRI processing in epilepsy. *Human Brain Mapping*, 30(9), 2986-2996. <https://doi.org/10.1002/hbm.20723>

Van Asselen, M., & Castelo-Branco, M. (2009). The role of peripheral vision in implicit contextual learning. *Perception and Psychophysics*, 71(1), 76-81. <https://doi.org/10.3758/APP.71.1.76>

**110/06 – “Paranormal belief and well being: An exploratory of cognitive-perceptual bias”**

Investigadores/Researchers: Neil Andrew Dagnall, Gary Munley, Andrew Parker

Instituição/Institution: The Manchester Metropolitan University, Research Institute of Health and Social Change, Manchester (UK)

Duração/Duration: 2007/02 – 2009/09

*Peer-reviewed publications*

Dagnall, N., Drinkwater, K., & Parker, A. (2011). Alien visitation, extra-terrestrial life, and paranormal beliefs. *Journal of Scientific Exploration*, 25(4), 699-720.

Dagnall, N., Drinkwater, K., Parker, A., & Munley, G. (2011). Reality Testing, Belief in the Paranormal, and Urban Legends. *European Journal of Parapsychology*, 21(2), Special Issue, 182–202.

Dagnall, N., Munley, G., Parker, A., & Drinkwater, K. (2010). Paranormal Belief, Schizotypy and Transliminality. *Journal of Parapsychology*, 74, 117-143.

Dagnall, N., Parker, A., Munley, G., & Drinkwater, K. (2010) Common Paranormal Belief Dimensions. *Journal of Scientific Exploration*, 24, 477-494.

Dagnall, N., Parker A., Munley, G., & Drinkwater, K (2010). The relationship between belief in extra-terrestrial life, UFOs-related beliefs and paranormal belief. *Society for Psychical Research*, 74, 1-14.

**120/06 – “Psicoendocrinologia do comportamento parental humano: Alterações hormonais, síndrome de couvade e responsividade parental em pais-expectantes”**

Investigadores/Researchers: Isabel Maria Pereira Leal, Rui Filipe Nunes Pais de Oliveira, Luís Adriano Neves Gonçalves Sobrinho, Rita Maria Morgado Gomez

Instituição/Institution: Centro de Investigação e Intervenção, Instituto Superior de Psicologia Aplicada, Lisboa (Portugal)

Duração/Duration: 2007/02 – 2009/01

*Peer-reviewed publications*

Gomez, R., & Leal, I. (2009). Stress parental no período pós-parto: Adaptação do Parental Stress Inventory para a população portuguesa. *Psychologica*, 50, 375-386.

Gomez, R., & Leal, I. (2008). Ajustamento conjugal: Características psicométricas da versão portuguesa da Dyadic Adjustment Scale. *Análise Psicológica*, 4(26), 625-638.

Gomez, R., & Leal, I. (2007). Envolvimento paterno no pós-parto: Estudo de validação da Escala de Confirmação das Expectativas Maternas de Suporte. *Psicologia: Teoria, Investigação e Prática*, 12(2), 305-317.

Gomez, R., & Leal, I. (2007). Vinculação parental durante a gravidez: Versão portuguesa da forma materna e paterna da ‘Antenatal Emotional Attachment Scale’. *Psicologia, Saúde & Doenças*, 8(2), 153-165.

**122/16 – “A fully transparent pre-registered replication study of precognitive detection of reinforcement using an expert consensus design”**

Investigadores/Researchers: Zoltan Kekecs, Balazs Aczel, Bence Palfi, Aba Szollosi, Barnabas Szaszi

Instituição/Institution: Decision Making Laboratory, Faculty of Education and Psychology, Eotvos Lorand University, Budapest (Hungary)

Duração/Duration: 2017/05 – 2023/02

*Peer-reviewed publications*

Kekecs, Z., Palfi, B., Szaszi, B., Szecsi, P., Zrubka, M., Kovacs, M., Bakos, B. E., Cousineau, D., Tressoldi, P., Schmidt, K., Grassi, M., Evans, T. R., Yamada, Y., Miller, J. K., Liu, H., Yonemitsu, F., Dubrov, D., Röer, J. P., Becker, M., Schnepfer, R., ... Aczel, B. (2023). Raising the value of research studies in psychological science by increasing the credibility of research reports: the transparent Psi project. *Royal Society Open Science*, 10(2), 191375. <https://doi.org/10.1098/rsos.191375>

**131/06 – “How do we learn to associate events separate in time: a study using trace auditory fear conditioning”**

Investigadores/Researchers: Marta de Aragão Pacheco Moita, Marta Guimarães

Instituição/Institution: Instituto Gulbenkian de Ciência, Oeiras (Portugal)

Duração/Duration: 2007/01 – 2010/07

*Peer-reviewed publications*

Guimarães, M., Gregório, A., Cruz, A., Guyon, N., & Moita, M. (2011). Time determines the neural circuit underlying associative fear learning. *Frontiers in Behavioral Neuroscience*, 5:89. <https://doi.org/10.3389/fnbeh.2011.00089>



**134/06 – “The role of stress in cortico-basal ganglia loop processing and instrumental conditioning”**

Investigadores/Researchers: Nuno Jorge Carvalho de Sousa, Rui Manuel Fernandes da Costa, Eduardo Miguel Gonçalves Dias Ferreira, João José Cardoso Cerqueira, Pedro Alexandre Teixeira  
Instituição/Institution: Life and Health Sciences Research Unit, School of Health Sciences, University of Minho, Braga (Portugal)

Duração/Duration: 2007/01 – 2010/02

*Peer-reviewed publications*

Dias-Ferreira, E., Sousa, J., Melo, I., Morgado, P., Mesquita, A. R., Cerqueira, J., ... Sousa, N. (2009). Chronic stress causes frontostriatal reorganization and affects decision-making. *Science*, 325(5940), 621-625. <https://doi.org/10.1126/science.1171203>

**137/06 – “Influências das Emoções e dos Sentimentos na Percepção do Tempo Cronológico”**

Investigadores/Researchers: Teresa Maria Morais Garcia-Marques, Alexandre Constâncio Fernandes  
Instituição/Institution: Unidade de Investigação em Psicologia, do Desenvolvimento e da Educação, Instituto Superior de Psicologia Aplicada, Lisboa (Portugal)

Duração/Duration: 2007/02 – 2010/10

*Peer-reviewed publications*

Fernandes, A. C., & Garcia-Marques, T. (2010). Impacto da expressão facial na percepção de tempo: papel da valência e da activação. *Psicologia*, 24(2), 61-88.

Fernandes, A. C., & Garcia-Maques, T. (2009). Psychophysiological mediation effects of emotional faces impact in time perception. *Psychophysiology*, 46(S1), 52.

Fernandes, A. C., & Garcia-Marques, T. (2008). Affective interference in temporal perception. *International Journal of Psychology*, 43(3/4), 423-424.

**144/06 – “Event-related brain potential correlates of conscious and non-conscious processing in anxiety”**

Investigadores/Researchers: Anne Richards, Amanda Holmes, Emily Hannon

Instituição/Institution: Birkbeck College, University of London and Roehampton University, London (UK)

Duração/Duration: 2007/10 – 2010/11

*Peer-reviewed publications*

Richards, A., Holmes, A., Bethell, E., & Pell, P. (2013). Adapting effects of emotional expression in anxiety: Evidence for an enhanced Late Positive Potential. *Social Neuroscience*, 8(6), 650-664. <https://doi.org/10.1080/17470919.2013.854273>

Richards, A., Bethell, E., Holmes, A., & Hannon, E. (2010). Adaptation effects of emotional expressions in anxiety: Evidence for an enhanced late positive potential. *International Journal of Psychophysiology*, 77(3), 234–235. <https://doi.org/10.1016/j.ijpsycho.2010.06.345>

**147/06 – “Cognitive and affective trait effects of meditation-training on brain and behaviour: An event-related longitudinal fMRI study”**

Investigadores/Researchers: Ulrike Halsband, Susanne Muller

Instituição/Institution: Department of Psychology/Neuropsychology, University of Freiburg (Germany)

Duração/Duration: 2007/03 – 2009/09

*Peer-reviewed publications*

Halsband, U., Müller, S., Hinterberger, T., & Strickner, S. (2009). Plasticity changes in the brain in hypnosis and meditation. *Contemporary Hypnosis*, 26(4), 194–215. <https://doi.org/10.1002/ch.386>

**150/16 – “An investigation into the causal role of alpha oscillations in attention”**

Investigadores/Researchers: Alexander Jones, Jonathan Silas, Lars Wicke

Instituição/Institution: The Behavioural, Affective, and Cognitive Neuroscience research group - BACneuro, Middlesex University London (UK)

Duração/Duration: 2017/03 – 2023/02

*Peer-reviewed publications*

Silas, J., Jones, A., Yarrow, K., & Anderson, W. (2023). Spatial attention is not affected by alpha or beta transcranial Alternating Current Stimulation: A registered report. *Cortex*, 164, 33-50. <https://doi.org/10.17605/OSF.IO/P7AME>

Jones, A., Yarrow, K. & Silas, J. (2018). Are alpha oscillations generated by the somatosensory cortex involved in tactile attention? A registered report using transcranial Alternating Current Stimulation (tACS). *Cortex*, Registered report: In Principle Accepted. <https://doi.org/10.17605/OSF.IO/P7AME>

Silas, J., Tipple, A., & Jones, A. (2019). Event-related alpha desynchronization in touch –Comparing attention and perception. *Neuroscience Letters*, 705, 131-137. <https://doi.org/10.1016/j.neulet.2019.04.058>

**151/06 – “The measurement and characterization of charge accumulation and electromagnetic energy emissions from bioenergy healers: Part 2”**

Investigador/Researcher: William Joines

Instituição/Institution: Rhine Research Centre, Durham, North Carolina (USA)

Duração/Duration: 2007/02 – 2012/05

*Peer-reviewed publications*

Joines, W., Baumann, S., & Kruth, J. (2012). Electromagnetic emission from humans during focused intent. *Journal of Parapsychology*, 76(2), 275-294.

**154/06 – “High-frequency oscillations and rhythmic slow activity during virtual navigation, REM sleep and wake-sleep transitions: Studies on intracranial recordings in humans”**

Investigadores/Researchers: Péter Halász, Zsófia Clemens, Csaba Borbély, Daniel Fabó

Instituição/Institution: Budapest-Bethel Epilepsy Center Foundation (BBEC), Budapest (Hungary)

Duração/Duration: 2008/01 – 2009/10

*Peer-reviewed publications*

Clemens, Z., Borbély, C., Weiss, B., Eross, L., Szucs, A., Kelemen, A., Fabó, D., Rásonyi, G., Janszky, J., & Halász, P. (2013). Increased mesiotemporal delta activity characterizes virtual navigation in humans. *Neuroscience Research*, 76(1-2), 67-75. <https://doi.org/10.1016/j.neures.2013.03.004>

Clemens, Z., Mölle, M., Eross, L., Jakus, R., Rásonyi, G., Halász, P., & Born, J. (2009). Fine-tuned coupling between human parahippocampal ripples and sleep spindles. *European Journal of Neuroscience*, 33(3), 511-520. <https://doi.org/10.1111/j.1460-9568.2010.07505.x>

Clemens, Z., Weiss, B., Szucs, A., Eross, L., Rásonyi, G., & Halász, P. (2009). Phase coupling between rhythmic slow activity and gamma characterizes mesiotemporal rapid-eye-movement sleep in humans. *Neuroscience*, 163(1), 388-96. <https://doi.org/10.1016/j.neuroscience.2009.06.044>

Eross, L., Entz, L., Fabó, D., Jakus, R., Szucs, A., Rásonyi, G., ... Halász, P. (2009). Interhemispheric propagation of seizures in mesial temporal lobe epilepsy. *Ideggyogy Sz*, 62(9-10), 319–325.

**157/06 – “Enhancing hit rates on psi tests with optimal levels of transliminality”**

Investigador/Researcher: James Houran

Instituição/Institution: Integrated Knowledge Systems Inc., Springfield (USA)

Duração/Duration: 2007/01 – 2008/07

*Peer-reviewed publications*

Houran, J., & Lange, R. (2009). Searching for an optimal level of transliminality in relation to putative psi. *Journal of the Society for Psychical Research*, 73, 92-102.

Houran, J., & Lange, R. (2012). I Ching outcomes from experimental manipulations of transliminality and paranormal belief. *Australian Journal of Parapsychology*, 12(1), 39-58.

Houran, J. (2007). Entropy and environmental mystery: A parapsychological perspective. *Perceptual and Motor Skills*, 105, 688-690.

**161/06 – “The relation of mind to body. Psychophysiological studies of the placebo effect”**

Investigadores/Researchers: Magne Arve Flaten, Oddmund Johansen, Simonsen, Per M. Aslaksen, Peter Lyby, Espen Bjorkedal

Instituição/Institution: Department of Psychology, University of Tromsø (Norway)

Duração/Duration: 2007/01 – 2010/05

*Peer-reviewed publications*

Bjorkedal, E., & Flaten, M. (2012). Expectations of increased and decreased pain explain the effect of conditioned pain modulation in females. *Journal of Pain Research*, 5, 289-300. <https://doi.org/10.2147/JPR.S33559>

Aslaksen, P., Vambheim, S., Bystad, M., & Flaten, M. (2011). Gender differences in placebo analgesia: event-related potentials and emotional modulation. *Psychosomatic Medicine*, 73(2), 193-199. <https://doi.org/10.1097/PSY.0b013e3182080d73>

Bjorkedal, E., & Flaten, M. (2011). Interaction between expectancies and drug effects: an experimental investigation of placebo analgesia with caffeine as an active placebo. *Psychopharmacology*, 215(3), 537-548. <https://doi.org/10.1007/s00213-011-2233-4>

Flaten, M., Aslaksen, P., Lyby, P., & Bjorkedal, E. (2011). The relation of emotions to placebo responses. *Philosophical Transactions of the Royal Society B*, 366, 1818–1827. <https://doi.org/10.1098/rstb.2010.0407>

Lyby, P., Aslaksen, P., & Flaten, M. (2011). Variability in placebo analgesia and the role of fear of pain—an ERP study. *Pain*, 152(10), 2405-2412. <https://doi.org/10.1016/j.pain.2011.07.010>

Lyby, P., Aslaksen, P., & Flaten, M. (2010). Is fear of pain related to placebo analgesia? *Journal of Psychosomatic Research*, 68(4), 369-377. <https://doi.org/10.1016/j.jpsychores.2009.10.009>

Åsli, O., Kulvedrøsten, S., Solbakken, L., & Flaten, M. (2009). Fear potentiated startle at short intervals following conditioned stimulus onset during delay but not trace conditioning. *Psychophysiology*, 46(4), 880-888. <https://doi.org/10.1111/j.1469-8986.2009.00809.x>

Flaten, M. (2009). Drug effects: agonistic and antagonistic processes. *Scandinavian Journal of Psychology*, 50(6), 652-659. <https://doi.org/10.1111/j.1467-9450.2009.00776.x>

Aslaksen, P., & Flaten, M. (2008). The roles of physiological and subjective stress in the effectiveness of a placebo on experimentally induced pain. *Psychosomatic Medicine*, 70(7), 811-818. <https://doi.org/10.1097/PSY.0b013e31818105ed>

Aslaksen, P., Myrbakk, I., Høifødt, R., & Flaten, M. (2007). The effect of experimenter gender on autonomic and subjective responses to pain stimuli. *Pain*, 129(3), 260-268. <https://doi.org/10.1016/j.pain.2006.10.011>

#### **162/06 – “Paranormal healing, paranormal belief, and physical and psychological well-being”**

Investigadores/Researchers: Caroline Watt, Alison Easter

Instituição/Institution: Koestler Parapsychology Unit, Psychology Department, The University of Edinburgh (UK)

Duração/Duration: 2007/01 – 2009/03

##### *Peer-reviewed publications*

Easter, A., & Watt, C. (2011). It's good to know: How treatment knowledge and belief affect the outcome of distant healing intentionality for arthritis sufferers. *Journal of Psychosomatic Research*, 71, 86-89.

#### **163/06 – “Effects of hypnotizability on EEG and autonomic concomitants of imagery and emotion production”**

Investigadores/Researchers: Zvonikov Vyacheslav Michailovich, Stroganova Tatiana Alexandrovna, Anna Kirenskaya, Vladimir Novototsky-Vlasov, Andrey Chistyakov

Instituição/Institution: Serbsky National Research Centre for Social and Forensic Psychiatry, Moscow (Russia)

Duração/Duration: 2007/06 – 2009/07

##### *Peer-reviewed publications*

Kirenskaya, A. V., Novototsky-Vlasov, V. Y., Chistyakov, A. N., & Zvonikov, V. M. (2011). The relationship between hypnotizability, internal imagery and efficiency of neurolinguistic programming. *International Journal of Clinical and Experimental Hypnosis*, 59(2), 225-241. <https://doi.org/10.1080/00207144.2011.546223>

Kirenskaya, A., Novototsky-Vlasov, V. Y., & Zvonikov, V. M. (2011). Waking EEG spectral power and coherence differences between high and low hypnotizable subjects. *International Journal of Clinical and Experimental Hypnosis*, 59(4), 441-453. <https://doi.org/10.1080/00207144.2011.594744>

#### **165/06 – “The sense of self in the brain: neural correlates of self-recognition”**

Investigadores/Researchers: Emmanouil (Manos) Tsakiris, Angela Sirigu, Patrick Haggard, Matteus Joffily

Instituição/Institution: Department of Psychology, Royal Holloway, University of London (UK)

Duração/Duration: 2007/09 – 2010/01

##### *Peer-reviewed publications*

Tsakiris M, Longo MR & Haggard P (2010). Having a body versus moving your body: neural signatures of agency and body-ownership. *Neuropsychologia*, 48(9):2740-2749.

Haggard P & Tsakiris M. (2009) The experience of agency: feeling, judgment and responsibility. *Current Directions in Psychological Science*, 18(4), 242-246.

Tsakiris, M. (2008). The self-other distinction: insights from self-recognition experiments. In F. Morganti, A., Carassa, & G. Riva (Eds), *Enacting intersubjectivity: A cognitive and social perspective to the study of interactions* (pp. 149-164). Amsterdam, Netherlands: IOP Press.

**167/06 – “A study to assess the Validity of Applied Kinesiology (AK) as a diagnostic tool and as a nonlocal proximity effect”**

Investigadores/Researchers: Stephan A. Schwartz, Ginette Nachman, William Frazer Morris

Instituição/Institution: Laboratories for Fundamental Research, California (USA)

Duração/Duration: 2007/02 – 2010/01

*Peer-reviewed publications*

Schwartz, S. A., Utts, J., Spottiswoode, J., Shade, C., Tully, L., Morris, W., & Nachman, G. (2014). A double-blind, randomized study to assess the validity of Applied Kinesiology (AK) as a diagnostic tool and as a nonlocal proximity effect. *Explore: The Journal of Science and Healing*, 10(2), 99-108. <https://doi.org/10.1016/j.explore.2013.12.002>

**169/06 – “Exploring the relationship between paranormal belief, the propensity to make the type I error and the detection of paranormal and weak signals amid visual and auditory noise”**

Investigador/Researcher: Christine Simmonds-Moore

Instituição/Institution: Liverpool Hope University (UK)

Duração/Duration: 2009/09 – 2011/01

*Peer-reviewed publications*

Simmonds-Moore, C. (2014). Exploring the perceptual biases associated with believing and disbelieving in paranormal phenomena. *Consciousness and Cognition*, 28, 30-46. <https://doi.org/10.1016/j.concog.2014.06.004>

**170/06 – “Seeing the future: Exploring presentiment with eye gaze and pupillary dilation”**

Investigador/Researcher: Dean Radin

Instituição/Institution: Institute of Noetic Sciences, California (USA)

Duração/Duration: 2007/01 – 2008/10

*Peer-reviewed publications*

Radin, D. I. & Borges, A. (2009). Intuition through time: What does the seer see? *Explore: The Journal of Science and Healing*, 5(4), 200-211.

**181/06 – “Brain activity during psychokinetic task - Research with Near Infrared Spectroscopy”**

Investigadores/Researchers: Mikio Yamamoto, Hideyuki Kokubo

Instituição/Institution: Institute for Living Body Measurements, International Research Institute, Chiba (Japan)

Duração/Duration: 2007/02 – 2008/04

*Peer-reviewed publications*

Kokubo, H., Usui, T., Yamamoto, M., & Yoichi, H. (2008). Psychophysiological study on a psychic during PK and facial recognition tasks. *Japanese Journal of Parapsychology*, 13, 18-27. [in Japanese]

Kokubo, H., & Yamamoto, M. (2008). Research on brain activity during psychokinesis task. In *Proceedings of presented papers of the 4th Psi Meeting: Parapsychology & Psychology* (pp. 66-80). Curitiba, Brazil: Faculdades Intergradadas Espirita.

Kokubo, H., Yamamoto, M., Usui, T., & Yoichi, H. (2008). Brain blood flow during psychokinesis tasks - Biophysical and psychophysiological study on a psychic. *Journal of International Society of Life Information Science*, 26(2), 223-246.

**195/06 – “Seeing into the future: Temporally reversed implicit perceptual priming”**

Investigadores/Researchers: Jonathan Wolf Schooler, Merill McSpadden

Instituição/Institution: Memory, Emotion, Thought and Awareness Labs, Department of Psychology, University of British Columbia, Vancouver (Canada)

Duração/Duration: 2007/05 – 2011/03

*Peer-reviewed publications*

Schooler, J. W. (2011). Unpublished results hide the decline effect. *Nature*, 470(7335), 437. <https://doi.org/10.1038/470437a>





## Apoios à Investigação Científica 2008/09 | Grants for Scientific Research 2008/09

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 23/08 – “A test for mindfulness – The bistable images test”

Investigadores/Researchers: Harald Walach, Ursula Mochty

Instituição/Institution: University of Northampton, School of Social Sciences (UK)

Duração/Duration: 2009/01 – 2010/09

Peer-reviewed publications

Sauer, S., Lemke, J., Wittmann, M., Kohls, N., Mochty, U., & Walach, H. (2012). How long is now for mindfulness meditators? *Personality and Individual Differences*, 52(6), 750-754. <https://doi.org/10.1016/j.paid.2011.12.026>

### 29/08 – “Emotional processing from language and music: Comparative neurocognitive and functional neuroimaging studies”

Investigadores/Researchers: Maria de São Luís de Vasconcelos Fonseca e Castro Schöner, Armando César Ferreira Lima, António José de Bastos Leite, Maria Carolina Lobo Almeida Garrett

Instituição/Institution: Centro de Psicologia da Universidade do Porto, Grupo de Investigação em Linguagem (Portugal)

Duração/Duration: 2009/01 – 2015/09

Peer-reviewed publications

Lima, C. F., Anikin, A., Monteiro, A. C., Scott, S. K., & Castro, S. L. (2019). Automaticity in the recognition of nonverbal emotional vocalizations. *Emotion*, 19(2), 219-233. <https://doi.org/10.1037/emo0000429>

Castro, S. L., & Lima, C. F. (2014). Age and musical expertise influence emotion recognition in music. *Music Perception*, 32(2), 125-142. <https://doi.org/10.1525/MP.2014.32.2.125>

Lima, C. F., Alves, T., Scott, S. K., & Castro, S. L. (2014). In the ear of the beholder: How age shapes emotion processing in nonverbal vocalizations. *Emotion*, 14(1), 145-160. <https://doi.org/10.1037/a0034287>

Lima, C. F., Castro, S. L., & Scott, S. K. (2013). When voices get emotional: A corpus of nonverbal vocalizations for research on emotion processing. *Behavior Research Methods*, 45(4), 1234-1245. <https://doi.org/10.3758/s13428-013-0324-3>

Lima, C. F., Garrett, C., & Castro, S. L. (2013). Not all sounds sound the same: Parkinson's disease affects differently emotion processing in music and in speech prosody. *Journal of Clinical and Experimental Neuropsychology*, 35(4), 373-392. <https://doi.org/10.1080/13803395.2013.776518>

Lima, C. F., & Castro, S. L. (2011). Emotion recognition in music changes across the adult life span. *Cognition & Emotion*, 25, 585-598. <https://doi.org/10.1080/02699931.2010.502449>

Lima, C. F., & Castro, S. L. (2011). Speaking to the trained ear: Musical expertise enhances the recognition of emotions in speech prosody. *Emotion*, 11, 1021-1031. <https://doi.org/10.1037/a0024521>

Castro, S. L., & Lima, C. F. (2010). Recognizing emotions in spoken language: A validated set of Portuguese sentences and pseudo-sentences for research on emotional prosody. *Behavior Research Methods*, 42, 74-81. <https://doi.org/10.3758/BRM.42.1.74>

### 30/08 – “Does meditation practice modulate the dynamics of attentional neural networks? An EEG study”

Investigadores/Researchers: Peter Malinowski, Thomas Gruber, Gernot G. Supp

Instituição/Institution: Liverpool John Moores University, School of Psychology (UK)

Duração/Duration: 2009/09 – 2011/04

Peer-reviewed publications

Pozuelos, J. P., Mead, B., R., Rueda, M. R., & Malinowski, P. (2019). Short-term mindful breath awareness training improves inhibitory control and response monitoring. *Progress in Brain Research*, 244, 137-163. <https://doi.org/10.1016/bs.pbr.2018.10.019>

Malinowski, P. (2013). Neural mechanisms of attentional control in mindfulness meditation. *Frontiers in Neuroscience*, 7, 8. <https://doi.org/10.3389/fnins.2013.00008>

Moore, A. W., Gruber, T., Deroose, J. & Malinowski, P. (2012). Regular, brief mindfulness meditation practice improves electrophysiological markers of attentional control. *Frontiers in Human Neuroscience*, 6, 18. <https://doi.org/10.3389/fnhum.2012.00018>

Chiesa, A. & Malinowski, P. (2011). Mindfulness based interventions: are they all the same? *Journal of Clinical Psychology*, 67(4), 404-424.

### **32/08 – “Conscious will and voluntary actions: is there a last ventriloquist in the brain?”**

Investigadores/Researchers: Jose Luis Perez Velazquez, Richard Wennberg, Luis Garcia Dominguez  
Instituição/Institution: Hospital for Sick Children, University of Toronto (Canada)

Duração/Duration: 2009/04 – 2012/02

#### *Peer-reviewed publications*

Kostecki, W., Mei, Y., Garcia Dominguez L., & Pérez Velázquez, J. L. (2012). Patterns of brain activity distinguishing free and forced actions: contribution from sensory cortices. *Frontiers in Integrative Neuroscience*, 6(84), 1-7. <https://doi.org/10.3389/fnint.2012.00084>

Perez Velazquez, J. L. (2012). The biophysical bases of will-less behaviors. *Frontiers in Integrative Neuroscience*, 6(98). <https://doi.org/10.3389/fnint.2012.00098>

Garcia Dominguez, L., Kostecki, W., Wennberg, R., & Perez-Velazquez, J. (2011). Distinct dynamical patterns that distinguish willed and forced actions. *Cognitive Neurodynamics*, 5(1), 67-76. <https://doi.org/10.1007/s11571-010-9140-y>

Kostecki, W., Garcia Dominguez, L., & Perez-Velazquez, J. (2011). Single trial classification of magnetoencephalographic recordings using Granger causality. *Journal of Neuroscience Methods*, 199(2), 183-191. <https://doi.org/10.1016/j.jneumeth.2011.04.032>

### **34/08 – “Process- and proof-focused investigation of anomalous information reception by mediums: A two-part quantitative study”**

Investigadores/Researchers: Julie Beischel, Adam Rock, Mark E. Boccuzzi, Michael Biuso  
Instituição/Institution: The Windbridge Institute for Applied Research in Human Potential, Tucson (USA)

Duração/Duration: 2009/01 – 2011/02

#### *Peer-reviewed publications*

Beischel, J., Boccuzzi, M., Biuso, M., & Rock, A. J. (2015). Anomalous information reception by research mediums under blinded conditions II: Replication and extension. *EXPLORE: The Journal of Science & Healing*, 11(2), 136-142. <https://doi.org/10.1016/j.explore.2015.01.001>

Rock, A. J., Beischel, J., Boccuzzi, M., & Biuso, M. (2014). Discarnate readings by claimant mediums: Assessing phenomenology and accuracy under beyond double-blind conditions. *Journal of Parapsychology*, 78(2), 183–194.

### **36/08 – “Neural correlates of sympathetic magical belief”**

Investigadores/Researchers: Bruce M. Hood, Nathalia Gjersoe, Richard Wise

Instituição/Institution: Cardiff University Brain & Repair Imaging Centre (UK)

Duração/Duration: 2009/02 – 2012/02

#### *Peer-reviewed publications*

Hood, B., Gjersoe, N. L., & Bloom, P. (2012). Do children think that duplicating the body also duplicates the mind? *Cognition*, 125(3), 466-474. <https://doi.org/10.1016/j.cognition.2012.07.005>

Lindeman, M., Riekk, T., & Hood, B. (2011). Is weaker inhibition associated with supernatural beliefs? *Journal of Cognition and Culture*, 11(1-2), 231-239. <https://doi.org/10.1163/156853711X570038>

Hood, B.M., Donnelly, K., Leonards, U., & Bloom, P. (2010). Implicit voodoo: electrodermal activity reveals a susceptibility to sympathetic magic. *Journal of Culture and Cognition*, 3(4), 391-399

### **39/08 – “Anomalous communication: The transmission of subjective significance”**

Investigadores/Researchers: Wolfgang Ambach, Tim Schönwetter

Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health (IGPP), Freiburg (Germany)

Duração/Duration: 2009/02 – 2011/09

#### *Peer-reviewed publications*

Dagnall, N., Denovan, A., Drinkwater, K., Parker, A., Clough, P. (2016). Toward a better understanding of the relationship between belief in the paranormal and statistical bias: The potential role of schizotypy. *Frontiers in Psychology*, 7: 1045. <https://doi.org/10.3389/fpsyg.2016.01045>

Schönwetter, T., Ambach, W., & Veitl, D. (2011). Does autonomic nervous system activity correlate with events conventionally considered as unperceivable? Using a guessing task with physiological measurement. *Journal of Parapsychology*, 75(2), 327.

Schönwetter, T., Ambach, W., & Vaitl, D. (2011). Does a modified guilty knowledge test reveal anomalous interactions within pairs of participants? *Journal of Parapsychology*, 75(1), 93-118.

#### **42/08 – “Marcadores Fisiológicos de Processamento Sensorial do Recém-Nascido” - “Physiological markers of the sensory processing in the neonate”**

Investigadores/Researchers: Adriana da Conceição Soares Sampaio, Maria de Góis Vicente Ramalho Eanes, Clédna Patrícia de Oliveira Silva, Hugo Miguel Braga de Almeida Tavares

Instituição/Institution: CIPsi - Centro de Investigação em Psicologia, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2009/02 – 2013/02

##### *Peer-reviewed publications*

Zivna, V., Sousa, M., Sampaio, A., & Cruz, S. (2026). Self-regulation at one month predicts language development at 12 months of age. *European Journal of Developmental Psychology*, 23(2), 193–210. <https://doi.org/10.1080/17405629.2025.2607718>

Cruz, S., Crego, A., Moreira, C., Ribeiro, E., Gonçalves, Ó., Ramos, R., & Sampaio, A. (2022). Cortical auditory evoked potentials in 1-month-old infants predict language outcomes at 12 months. *Infancy*, 27(2), 324-340. <https://doi.org/10.1111/inf.12454>

Mateus, V., Cruz, S., Ferreira-Santos, F., Osório, A., Sampaio, A., & Martins, C. (2018). Contributions of infant vagal regulation at 1 month to subsequent joint attention abilities. *Developmental Psychobiology*, 60(1), 111–117. <https://doi.org/10.1002/dev.21582>

Cruz, S., Ferreira-Santos, F., Oliveira-Silva, P., Ribeiro, E., Gonçalves, O. F., & Sampaio, A. (2018). Vagal modulation of 1-month-old infants to auditory stimuli is associated with self-regulatory behavior. *Social Development*, 27(2), 322-334. <https://doi.org/10.1111/sode.12270>

Cruz, S., Crego, A., Ribeiro, E., Gonçalves, O., & Sampaio, A. (2015). A VEP study in sleeping and awake one-month-old infants and its relation with social behavior. *International Journal of Developmental Neuroscience*, 41, 37-43. <https://doi.org/10.1016/j.ijdevneu.2014.12.00>

Góis-Eanes, M., Gonçalves, O., Caldeira-da-Silva, P., & Sampaio, A. (2012). Biological and physiological markers of tactile sensorial processing in healthy newborns. *Infant Mental Health Journal*, 33(5), 535-542. <https://doi.org/10.1002/imhj.21328>

#### **44/08 – “A Test of the Model of Pragmatic Information (MPI) using European Cases of Anomalous Experiences”**

Investigadores/Researchers: Caroline Watt, Ian Tierney

Instituição/Institution: Koestler Parapsychology Unit, The University of Edinburgh (UK)

Duração/Duration: 2009/04 – 2012/01

##### *Peer-reviewed publications*

Watt, C., & Tierney, I. (2013). A preliminary test of the Model of Pragmatic Information using cases of spontaneous anomalous experience. *Journal of Consciousness Studies*, 20(11-12), 205-220.

#### **45/08 – “Refining the methodology of alpha electroencephalographic biofeedback and exploring its effect on cognition and mood”**

Investigadores/Researchers: David Vernon, Soren Andersen, Neil Rutterford, Marcia Pasqualini, Olga Bazanova

Instituição/Institution: Dept. of Applied Social Sciences, Canterbury Christ Church University (UK), University of East Anglia Norwich (UK), Dept. of Psychology, Avila University, Kansas City (USA), Siberian Branch of the Russian Medical Academy, State Institute for Molecular Biology and Biophysics, Novosibirsk (Russia)

Duração/Duration: 2009/02 – 2012/04

##### *Peer-reviewed publications*

Bazanova, O., & Vernon, D. (2013). Interpreting EEG alpha activity. *Neuroscience and Biobehavioral Reviews*, 44, 94-110. <https://doi.org/10.1016/j.neubiorev.2013.05.007>

Bazanova, O. M. (2012). Alpha EEG activity depends on the individual dominant rhythm frequency. *Journal of Neurotherapy*, 16(4), 270-284. <https://doi.org/10.1080/10874208.2012.730786>

Bazanova, O. (2010). Individual alpha peak frequency variability and reproducibility in various experimental conditions. *Zh Vyssh Nerv Deiat Im I P Pavlova*, 60(6), 767-776.

Vernon, D., Dempster, T., Bazanova, O., Rutterford, N., Pasqualini, M., Andersen, S. (2009). Alpha neurofeedback training for performance enhancement: reviewing the methodology. *Journal of Neurotherapy*, 13, 1-13.

#### **48/08 – “ERP correlates of relational learning II: Testing a visual-visual and auditory-visual priming”**

Investigadores/Researchers: Simon Dymond, Sara Tapaeru Minster

Instituição/Institution: Department of Psychology, Wales Institute of Cognitive Neuroscience, Swansea University, Wales (UK)

Duração/Duration: 2009/09 – 2011/03

##### *Peer-reviewed publications*

Want, T., & Dymond, S. (2013). Event-related potential correlates of emergent inference in human arbitrary relational learning. *Behavioural Brain Research*, 236(1), 332-43. <https://doi.org/10.1016/j.bbr.2012.08.033>

#### **54/08 – “Brain activity during remote information access”**

Investigadores/Researchers: Jérôme Daltrozzo, Boris Kotchoubey, Ahmed A. Karim

Instituição/Institution: Institute of Medical Psychology and Behavioral Neurobiology, Eberhard-Karls-University, Tübingen (Germany)

Duração/Duration: 2009/10 – 2011/06

##### *Peer-reviewed publications*

Daltrozzo, J., Kotchoubey, B., Gueler, F., & Karim, A. A. (2016). Effects of transcranial magnetic stimulation on body perception: No evidence for specificity of the right temporo-parietal junction. *Brain Topography*, 29(5), 704-715. <https://doi.org/10.1007/s10548-016-0496-0>

Klein, E., Mann, A., Huber, S., Bloechle, J., Willmes, K., Karim, A. A., Nuerk, H. C., & Moeller, K. (2013). Bilateral bi-cephalic tDCS with two active electrodes of the same polarity modulates bilateral cognitive processes differentially. *Plos One*, 8(8): e71607. <https://doi.org/10.1371/journal.pone.0071607>

Krippel, M. & Karim, A. A. (2011). "Theory of Mind" und ihre neuronalen Korrelate bei forensisch relevanten Störungen. *Der Nervenarzt*, 82(7), 843-852. <https://doi.org/10.1007/s00115-010-3073-x>

Karim, A. A. (2010). Transcranial cortex stimulation as a novel approach for probing the neurobiology of dreams: Clinical and neuroethical implications. *International Journal of Dream Research*, 3(1), 17-20. <https://doi.org/10.11588/ijodr.2010.1.593>

Noreika, V., Windt, J., Lenggenhager, B., & Karim, A. A. (2010). New perspectives for the study of lucid dreaming: from brain stimulation to philosophical theories of self-consciousness. *International Journal of Dream Research*, 3(1), 36-45. <https://doi.org/10.11588/ijodr.2010.1.586>

#### **56/08 – “The sheep-goat effect as a matter of compliance vs. noncompliance: The effect of reactance in a forced-choice ball selection test”**

Investigadores/Researchers: Lance Storm, Adam Rock, Suitbert Ertel

Instituição/Institution: Anomalistic and Transpersonal Psychology Research Unit, School of Psychology, Deakin University, Burwood (Australia)

Duração/Duration: 2009/03 – 2010/09

##### *Peer-reviewed publications*

Storm, L., Ertel, S., & Rock, A. J. (2013). The sheep-goat effect as a matter of compliance vs. noncompliance: The effect of reactance in a forced-choice ball selection test. *Journal of Scientific Exploration*, 27(3), 393-411.

Storm, L., Ertel, S., & Rock, A. J. (2013). Paranormal effects and behavioural characteristics of participants in a forced-choice psi task: Ertel's Ball Selection Test under scrutiny. *Australian Journal of Parapsychology*, 13, 111-131.

#### **59/08 – “Generating psi with optimal levels of transliminality - a critical replication and extension”**

Investigador/Researcher: James Houran

Instituição/Institution: Integrated Knowledge Systems, Springfield (USA)

Duração/Duration: 2009/02 – 2010/02

##### *Peer-reviewed publications*

Houran, J., Lynn, S., & Lange, R. (2017). Commentary on Stokes's (2017) Quest for “White Crows” in Spontaneous Cases of Psi. *Australian Journal of Parapsychology*, 17(1), 61-88.

Lange, R., & Houran, J. (2013). Towards a replicable formula for significant 'I Ching' outcomes. *Australian Journal of Parapsychology*, 13(1), 9-25.

Lange, R., & Houran, J. (2010). Transliminal view of intuitions in the workplace. *North American Journal of Psychology*, 12(3), 501-516.



### **63/08 – “Experimental tests of the role of consciousness in the physical world”**

Investigadores/Researchers: Dean Radin, Paul Wendland, Robert Rickenbach, Cassandra Vieten

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2009/02 – 2011/02

#### *Peer-reviewed publications*

Radin, D., Michel, L., Delorme, A. (2016). Psychophysical modulation of fringe visibility in a distant double-slit optical system. *Physics Essays*, 29(1), 14-22.

Radin, D., Michel, L., Delorme, A. (2015). Reassessment of an independent verification of psychophysical interactions with a double-slit interference pattern. *Physics Essays*, 28(4), 415-416.

Radin, D., Delorme, A., & Michel, L. (2013). Psychophysical interactions with a double-slit interference pattern. *Physics Essays*, 26(4), 553-566.

Radin, D., Michel, L., Galdamez, K., Wendland, P., Rickenbach, R., & Delorme, A. (2012). Consciousness and the double-slit interference pattern: Six experiments. *Physics Essays*, 25(2), 157-171. <https://doi.org/10.4006/0836-1398-25.2.157>

Radin, D., Vieten, C., Michel, L., & Delorme, A. (2011). Electrocorical activity prior to unpredictable stimuli in meditators and nonmeditators. *Explore: The Journal of Science and Healing*, 7(5), 286-299. <https://doi.org/10.1016/j.explore.2011.06.004>

### **66/08 – “Spirituality, religious coping and paranormal beliefs and their relation to OCD and anxiety disorders' symptomatology and treatment outcome”**

Investigadores/Researchers: Agorastos Agorastos, Steffen Moritz, Michael Kellner, Christoph Muhtz

Instituição/Institution: University Medical Centre UKE – Hamburg Eppendorf, Centre of Psychosocial Medicine, University Clinic of Psychiatry and Psychotherapy, Department for Anxiety Disorders, Hamburg (Germany)

Duração/Duration: 2009/01 – 2011/06

#### *Peer-reviewed publications*

Agorastos, A., Metscher, T., Huber, C.G., Jelinek, L., Vitzthum, F.,... & Moritz, S. (2012). Religiosity, magical ideation, and paranormal beliefs in anxiety disorders and obsessive-compulsive disorder: a cross-sectional study. *Journal of Nervous and Mental Disease*, 200(10), 876-84. <https://doi.org/10.1097/NMD.0b013e31826b6e92>

### **71/08 – “Emergent information in the visual environment: the role of fractal dimension in anomalous information acquisition”**

Investigador/Researcher: Paul Stevens

Instituição/Institution: Bournemouth University, Poole (UK)

Duração/Duration: 2009/02 – 2011/04

#### *Peer-reviewed publications*

Stevens, P. (2018). Fractal dimension links responses to a visual scene to its biodiversity. *Ecopsychology*, 10(2). <https://doi.org/10.1089/eco.2017.0049>

### **73/08 – “Learning and generalization on psi perceptual tasks”**

Investigador/Researcher: Julia Mossbridge

Instituição/Institution: Visual Perception, Cognition, and Neuroscience Laboratory, Department of Psychology, Northwestern University, Evanston (USA)

Duração/Duration: 2009/01 – 2011/04

#### *Peer-reviewed publications*

Mossbridge, J. (2023). Precognition at the boundaries: An empirical review and theoretical discussion. *Journal of Anomalous Experience and Cognition*, 3(1), 5-41. <https://doi.org/10.31156/jaex.24216>

Mossbridge, J., Tressoldi, P., & Utts, J. (2012). Predictive physiological anticipation preceding seemingly unpredictable stimuli: A meta-analysis. *Frontiers in Psychology*, 3, 390, 1-18. <https://doi.org/10.3389/fpsyg.2012.00390>

**77/08 – “How do you know what others feel? A psychophysiological study of social cognition and aging”**

Investigadores/Researchers: Sarah MacPherson, Edyta Monika Hunter, Louise H. Phillips

Instituição/Institution: Human Cognitive Neuroscience Research Group, Department of Psychology, The University of Edinburgh (UK)

Duração/Duration: 2009/01 – 2011/02

*Peer-reviewed publications*

Hunter, E.M., Phillips, L.H., & MacPherson, S.E. (2010). Effects of age on cross-modal emotion perception. *Psychology & Aging*, 25(4), 779-787.

**81/08 – “Subjective experiences associated with seizures”**

Investigadores/Researchers: Bruce Greyson, Nathan B. Fountain, Donna K. Broshek, Lori L. Derr

Instituição/Institution: Division of Perceptual Studies, University of Virginia Health System (USA)

Duração/Duration: 2009/10 – 2012/10

*Peer-reviewed publications*

Greyson, B., Fountain, N., Derr, L., & Broshek, D. (2014). Mystical experiences associated with seizures. *Religion, Brain & Behavior*. <https://doi.org/10.1080/2153599X.2014.895775>

Greyson, B., Fountain, N., Derr, L., & Broshek, D. (2014). Out-of-body experiences associated with seizures. *Frontiers in Human Neuroscience*, 8, 65, 1-11. <https://doi.org/10.3389/fnhum.2014.00065>

**83/08 – “Measurement and analysis of interindividual psychophysiological differences in experienced meditators”**

Investigadores/Researchers: Thilo Hinterberger, Niko Kohls

Instituição/Institution: Institut für Umweltmedizin und Krankenhaushygiene, Universitätsklinikum Freiburg (Germany)

Duração/Duration: 2009/10 – 2011/03

*Peer-reviewed publications*

Hinterberger, T., Schöner, J., and Halsband, U. (2011). An Analysis of EEG State Transitions during Hypnosis Induction. *International Journal of Clinical & Experimental Hypnosis*, 59(2), 1-15. <https://doi.org/10.1080/00207144.2011.546188>.

Halsband, U. & Hinterberger, T. (2010). Veränderungen der Plastizität im Gehirn unter Hypnose. *Hypnose - Zeitschrift für Hypnose und Hypnotherapie (Hypnose-ZHH)*, 5(1), 33-50.

**86/08 – “How psychophysiological anticipatory information can be used to solve intuitive tasks with random events”**

Investigadores/Researchers: Patrizio Tressoldi, Stefano Massaccesi, Massimiliano Martinelli

Instituição/Institution: Dipartimento di Psicologia Generale, Padova (Italy)

Duração/Duration: 2009/01 – 2011/03

*Peer-reviewed publications*

Tressoldi, P., Martinelli, M., Semenzato, L. & Cappato, S. (2011). Let your eyes predict: Prediction accuracy of pupillary responses to random alerting and neutral sounds. *SAGE*, 1-7. <https://doi.org/10.1177/2158244011420451>

Tressoldi P.E., Martinelli, M., Scartezzini, L., & Massaccesi, S. (2010). Further evidence of the possibility of exploiting anticipatory physiological signals to assist implicit intuition of random events. *Journal of Scientific Exploration*, 24, 411-424.

Tressoldi, P.E., Martinelli, M., Zaccaria, E., & Massaccesi, S. (2009). Implicit intuition: How heart rate can contribute to prediction of future events. *Journal of the Society for Psychical Research*, 73,1,1-16.

**89/08 – “The neuropsychophysiological basis of empathy: The role of neuroendocrine, autonomic and central nervous system variables”**

Investigadores/Researchers: Óscar Filipe Coelho Neves Gonçalves, Patrícia Silva, Ana Pinheiro

Instituição/Institution: Cipsi – Centro de Investigação em Psicologia, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2009/01 – 2012/05

*Peer-reviewed publications*

Oliveira-Silva, P., Maia, L., Coutinho, J., Moreno, A. F., Penalba, L., Frank, B., Soares, J. M., Sampaio, A., & Gonçalves, Ó. F. (2023). Nodes of the default mode network implicated in the quality of empathic responses: A clinical perspective of the empathic response. *International Journal of Clinical and Health Psychology*, 23(1), 100319. <https://doi.org/10.1016/j.ijchp.2022.100319>

Oliveira-Silva, P., Maia, L., Coutinho, J., Frank, B., Soares, J. M., Sampaio, A., & Gonçalves, Ó. F. (2018). Empathy by default: Correlates in the brain at rest. *Psicothema*, 30(1), 97-103. <https://doi.org/10.7334/psicothema2016.366>

Leite, J., Carvalho, S., Galdo-Álvarez, S., Alves, J., Sampaio, A., & Gonçalves, O. (2012). Affective picture modulation: Valence, arousal, attention allocation and motivational significance. *International Journal of Psychophysiology*, 83(3), 375-381. <https://doi.org/10.1016/j.ijpsycho.2011.12.005>

Carvalho, S., Leite, J., Galdo-Álvarez, S., & Gonçalves, O. (2011). Psychophysiological correlates of sexually and non-sexually motivated attention to film clips in a workload task. *PLoS ONE*, 6(12), e29530. <https://doi.org/10.1371/journal.pone.0029530>

Oliveira-Silva, P., & Gonçalves, O. (2011). Responding empathically: A question of heart, not a question of skin. *Applied Psychophysiology and Biofeedback*, 36(3), 201-207. <https://doi.org/10.1007/s10484-011-9161-2>

#### **94/08 – “Manipulação da emoção em ambientes de realidade virtual imersiva: Validação metodológica”**

Investigadores/Researchers: Luís Manuel Coelho Monteiro, João Eduardo Marques Teixeira, Manuel Fernando Santos Barbosa, Jorge Silvério

Instituição/Institution: UnIPSa – Unidade de Investigação em Psicologia e Saúde: Laboratório de Psicofisiologia / Grupo de Psicobiologia / Instituto Superior de Ciências da Saúde – Norte, Paredes (Portugal)

Duração/Duration: 2009/01 – 2011/10

##### *Peer-reviewed publications*

Barbosa, F., Pasion, R., Silvério, J., Coelho, C. M., Marques-Teixeira, J., & Monteiro, L. C. (2019). Attention allocation to 2D and 3D emotion-inducing scenes: A neurophysiological study. *Neuroscience Letters*, 698, 165-168. <https://doi.org/10.1016/j.neulet.2019.01.011>

Dores, A. R., Barbosa, F., Carvalho, I. P., Almeida, I., Guerreiro, S., da Rocha, B. M., de Sousa, L., & Castro-Caldas, A. (2017). Study of behavioural and neural bases of visuo-spatial working memory with an fMRI paradigm based on an n-back task. *Journal of Neuropsychology*, 11(1), 122-134. <https://doi.org/10.1111/jnp.12076>

Dores, A., Barbosa, F., Monteiro, L., Reis, M., Coelho, C., Ribeiro, E., Leitão, M., ... Castro-Caldas, A. (2014). Amygdala Activation in Response to 2D and 3D Emotion-Inducing Stimuli. *PsychNology Journal*, 12(1-2), 29-43.

Dores, A. R., Almeida, I., Barbosa, F., Castelo-Branco, M., Monteiro, L., Reis, M., ... Castro-Caldas, A. (2013). Effects of emotional valence and three-dimensionality of visual stimuli on brain activation: An fMRI study. *NeuroRehabilitation*, 33(4), 505-512. <https://doi.org/10.3233/nre-130987>

#### **96/08 – “Brain activity during PK and facial recognition tasks – Research with near Infrared Spectroscopy”**

Investigadores/Researchers: Mikio Yamamoto, Hideyuki Kokubo

Instituição/Institution: Bio-Emission Laboratory, International Research Institute (IRI), Chiba (Japan)

Duração/Duration: 2009/03 – 2011/01

##### *Peer-reviewed publications*

Kokubo, H., Takagi, O., Koyama, S., & Yamamoto, M. (2010). Spatial distribution of potential of controlled healing power – Exploratory measurement using cucumber as a bio-sensor. *Journal of International Society of Life Information Science*, 28(2), 236-249.

#### **105/08 – “Testing the psi-mediated instrumental response theory using an implicit psi task”**

Investigador/Researcher: Chris A. Roe

Instituição/Institution: Centre for the Study of Anomalous Psychological Processes, School of Social Science, The University of Northampton (UK)

Duração/Duration: 2009/01 – 2012/06

##### *Peer-reviewed publications*

Hitchman, G. A., Pfeuffer, C. U., Roe, C. A., & Sherwood, S. J. (2016). The effects of experimenter-participant interaction qualities in a goal-oriented nonintentional precognition task. *Journal of Parapsychology*, 80(1), 45-69.

Hitchman, G.A., Roe, C.A., & Sherwood, S.J. (2015). The relationship between liability and performance at intentional and non-intentional versions of an implicit PMIR-type psi task. *Journal of Parapsychology*, 79(1), 65-86.

Hitchman, G. A., Sherwood, S. J., & Roe, C. A. (2015). The relationship between latent inhibition and performance at a non-intentional precognition task. *Explore: The Journal of Science and Healing*, 11(2), 118-126. <https://doi.org/10.1016/j.explore.2014.12.004>

Hitchman, G. A., Roe, C. A., & Sherwood, S. (2012). A re-examination of non intentional precognition with openness to experience, creativity, psi beliefs and luck beliefs as predictors of success. *Journal of Parapsychology*, 76(1), 109-145.

#### **118/08 – “An interpretative phenomenological analysis of anomalous experience at the end-of-life”**

Investigadores/Researchers: Craig D. Murray, Joanne Murray

Instituição/Institution: Division of Health Research, Lancaster University (UK)

Duração/Duration: 2009/11 – 2015/09

##### *Peer-reviewed publications*

Murray, C., McDonald, C., & Atkin, H. (2015). The communication experiences of patients with palliative care needs: A systematic review and metasynthesis of qualitative findings. *Palliative and Supportive Care*, 13(02), 369-383. <https://doi.org/10.1017/S1478951514000455>

McDonald, C., Murray, C., & Atkin, H. (2014). Palliative-care professionals' experiences of unusual spiritual phenomena at the end of life. *Mental Health, Religion & Culture*, 17(5), 479-493. <https://doi.org/10.1080/13674676.2013.849668>

Keen, C., Murray, C., & Payne, S. (2013). A qualitative exploration of sensing the presence of the deceased following bereavement. *Mortality: Promoting the interdisciplinary study of death and dying*, 18(4), 339-357. <https://doi.org/10.1080/13576275.2013.819320>

Keen, C., Murray, C., & Payne, S. (2013). Sensing the presence of the deceased: A narrative review. *Mental Health, Religion & Culture*, 16(4), 384-402. <https://doi.org/10.1080/13674676.2012.678987>

#### **122/08 – “Mindfulness and emotional factors contributing to intuitive decision-making in the medical settings”**

Investigadores/Researchers: Henk Barendregt, Stephen Whitmarsh, Eva Lobach, Dick J. Bierman, Fabio Giommi

Instituição/Institution: Mind Brain Mindfulness research group (MBM) of the Institute of Computing and Information Sciences (ICIS), Nijmegen (The Netherlands)

Duração/Duration: 2009/10 – 2012/11

##### *Peer-reviewed publications*

Whitmarsh, S., Uddén, J., Barendregt, H., & Petersson, K. (2013). Mindfulness reduces habitual responding based on implicit knowledge: evidence from artificial grammar learning. *Consciousness and Cognition*, 22(3), 833-845. <https://doi.org/10.1016/j.concog.2013.05.007>

#### **126/08 – “A experiência da dor: alterações funcionais induzidas por dor crónica nos circuitos neuronais de recompensa e aversão”**

Investigadores/Researchers: Vasco Miguel Clara Lopes Galhardo, Deolinda Maria Valente Alves de Lima Teixeira, Clara Maria Pires Costa Bastos Monteiro, Hélder Cardoso Cruz, Maria Leonor Godinho, Daniela Seixas, Sónia Margarida Dourado

Instituição/Institution: IBMC – Instituto de Biologia Molecular e Celular, Porto (Portugal)

Duração/Duration: 2009/03 – 2013/10

##### *Peer-reviewed publications*

Monteiro, C., Cardoso-Cruz, H., Matos, M., Dourado, M., Lima, D., & Galhardo, V. (2016). Increased fronto-hippocampal connectivity in the Prrxl1 knockout mouse model of congenital hypoalgesia. *Pain*, 157(9), 2045-2056. <https://doi.org/10.1097/j.pain.0000000000000611>

Cardoso-Cruz, H., Dourado, M., Monteiro, M., Matos, M., & Galhardo, V. (2014). Activation of dopaminergic d2/d3 receptors modulates dorsoventral connectivity in the hippocampus and reverses the impairment of working memory after nerve injury. *The Journal of Neuroscience*, 34(17), 5861-5873. <https://doi.org/10.1523/JNEUROSCI.0021-14.2014>

Monteiro, C., Dourado, M., Matos, M., Duarte, I., Lamas, S., Galhardo, V., & Lima, D. (2014). Critical care and survival of fragile animals: The case of Prrxl1 knockout mice. *Applied Animal Behaviour Science*, 158, 86-94. <https://doi.org/10.1016/j.applanim.2014.06.007>

Cardoso-Cruz, H., Lima, D., & Galhardo, V. (2013). Impaired spatial memory performance in a rat model of neuropathic pain is associated with reduced hippocampus-prefrontal cortex connectivity. *Journal of Neuroscience*, 33(6), 2465-2480. <https://doi.org/10.1523/JNEUROSCI.5197-12.2013>

Cardoso-Cruz, H., Sousa, M., Vieira, J. B., Lima, D., & Galhardo, V. (2013). Prefrontal cortex and mediodorsal thalamus reduced connectivity is associated with spatial working memory impairment in rats with inflammatory pain. *Pain*, 154(11), 2397-2406. <https://doi.org/10.1016/j.pain.2013.07.020>



Oliveira-Maia, A.J., De Araújo, I.E., Monteiro, C., Workman, V., Galhardo, V., & Nicolelis, M. (2012). The Insular Cortex Controls Food Preferences Independently of Taste Receptor Signaling. *Frontiers in Systems Neuroscience*, 6, 5. <https://doi.org/10.3389/fnsys.2012.00005>

Pais-Vieira, M., Aguiar, P., Lima, D., Galhardo, V. (2012). Inflammatory pain disrupts the orbitofrontal neuronal activity and risk-assessment performance in a rodent decision-making task. *Pain*, 153(8), 1625-1635. <https://doi.org/10.1016/j.pain.2012.04.011>

Cardoso-Cruz, H., Lima, D., & Galhardo, V. (2011). Instability of spatial encoding by CA1 hippocampal place cells after peripheral nerve injury. *European Journal of Neuroscience*, 33(12), 2255-2264. <https://doi.org/10.1111/j.1460-9568.2011.07721.x>

Cardoso-Cruz, H., Sameshima, K., Lima, D., & Galhardo, V. (2011). Dynamics of Circadian Thalamocortical Flow of Information during a Peripheral Neuropathic Pain Condition. *Frontiers in Integrative Neuroscience*, 5, 43. <https://doi.org/10.3389/fnint.2011.00043>

De Visser, L., Homberg, J., Mitsogiannis, M., Zeeb, F., Rivalan, M., ..., Dellu-Hagedorn, F. (2011). Rodent Versions of the Iowa Gambling Task: Opportunities and Challenges for the Understanding of Decision-Making. *Frontiers in Neuroscience*, 5, 109. <https://doi.org/10.3389/fnins.2011.00109>

Monteiro, C., Rebelo, S., Galhardo, V., Reguenga, C., & Lima, D. (2011). Postnatal expression of the homeobox gene *Prrxl1* (*Drg11*) is increased in inflammatory but not neuropathic pain. *European Journal of Pain*, 15(5), 477-481. <https://doi.org/10.1016/j.ejpain.2010.10.007>

Seixas, D., Galhardo, V., Guimarães, J., & Lima, D. (2011). Pain in portuguese patients with multiple sclerosis. *Frontiers in Neurology*, 31, 2. <https://doi.org/10.3389/fneur.2011.00020>

Ji, G., Sun, H., Fu, Y., Li, Z., Pais-Vieira, M., ..., Neugebauer, V. (2010). Cognitive impairment in pain through amygdala-driven prefrontal cortical deactivation. *Journal of Neuroscience*, 30(15), 5451-5464. <https://doi.org/10.1523/JNEUROSCI.0225-10.2010>

Silva, A., Cardoso-Cruz, H., Silva, F., Galhardo, V., & Antunes, L. (2010). Comparison of anesthetic depth indexes based on thalamocortical local field potentials in rats. *Anesthesiology*, 112(2), 355-363. <https://doi.org/10.1097/ALN.0b013e3181ca3196>

#### **127/08 – “Prefrontal control of impulsive action”**

Investigadores/Researchers: Masayoshi Murakami, Zachary F. Mainen

Instituição/Institution: Instituto Gulbenkian de Ciência, Oeiras (Portugal)

Duração/Duration: 2009/02 – 2011/03

##### *Peer-reviewed publications*

Ebbesen, C. L., Insanally, M. N., Kopec, C. D., Murakami, M., Saiki, A., & Erlich, J. C. (2018). More than just a "Motor": Recent surprises from the frontal cortex. *Journal of Neuroscience*, 38(44), 9402-9413. <https://doi.org/10.1523/JNEUROSCI.1671-18.2018>

Murakami, M., Shteingart, H., Loewenstein, Y., & Mainen, Z. F. (2017). Distinct sources of deterministic and stochastic components of action timing decisions in rodent frontal cortex. *Neuron*, 94(4), 908-919. <https://doi.org/10.1016/j.neuron.2017.04.040>

Murakami, M., Vicente, M. I., Costa, G., & Mainen, Z. (2014). Neural antecedents of self-initiated actions in secondary motor cortex. *Nature Neuroscience*, 17(11), 1574–1582. <https://doi.org/10.1038/nn.3826>

#### **130/08 – “As experiências ótimas na vida diária e padrões fisiológicos associados: para um conhecimento da personalidade autotélica”**

Investigadores/Researchers: Teresa Freire, Mário João Pereira Sequeira Santos, Marta Bassi, Gabriela Matias

Instituição/Institution: Centro de Investigação em Psicologia (CIPsi), Universidade do Minho, Braga (Portugal)

Duração/Duration: 2009/01 – 2011/09

##### *Peer-reviewed publications*

Matias, G., Nicolson, N., & Freire, T. (2011). Solitude and cortisol: Associations with state and trait affect in daily life. *Biological Psychology*, 86(3), 314-319. <https://doi.org/10.1016/j.biopsycho.2010.12.01>

Matias, G., & Freire, T. (2009). Experiência Ótima e Cortisol: A Psicofisiologia no Quotidiano. *Psicologica*, 50, 233-248

**134/08 – “How does cognitive enrichment impact on neuronal networks and behavioral performance?”**

Investigadores/Researchers: João José Fernandes Cardoso de Araújo Cerqueira, Igor L. M. Spínola, Irene Melo Carvalho, Pedro Ricardo Luís Morgado, Ricardo Jorge Moreira Taipa

Instituição/Institution: Life and Health Sciences Research Institute (ICVS), School of Health Sciences, University of Minho, Braga (Portugal)

Duração/Duration: 2010/05 – 2012/04

*Peer-reviewed publications*

Jacinto, L. R., Reis, J. S., Dias, N. S., Cerqueira, J. J., Correia, J. H., & Sousa, N. (2013). Stress affects theta activity in limbic networks and impairs novelty-induced exploration and familiarization. *Frontiers in Behavioral Neuroscience*, 7, 127. <https://doi.org/10.3389/fnbeh.2013.00127>

Lima, A., Sardinha V. M., Oliveira A. F., Reis M., Mota C., Silva, M., . . . Oliveira, J. F. (2014). Astrocyte pathology in the prefrontal cortex impairs the cognitive function of rats. *Molecular Psychiatry* (1), 1-8. <https://doi.org/10.1038/mp.2013.182>

Oliveira, J. F., Dias, N., Correia, M., Gama-Pereira, F., Sardinha, V. M., . . . , Sousa, N. (2013). Chronic stress disrupts neural coherence between cortico-limbic structures. *Frontiers in Neural Circuits*, 7, 10, 1-12. <https://doi.org/10.3389/fncir.2013.00010>

**135/08 – “Electrophysiological correlates of learning new faces: A study with event-related potentials and skin-conductance responses”**

Investigadores/Researchers: Isabel Maria Barbas dos Santos, Christopher Alexander Longmore, Jorge Manuel Costa Oliveira

Instituição/Institution: Laboratório de Psicologia Experimental e Aplicada (PsyLab) do Centro de Investigação em Educação e Ciências do Comportamento (CIECC), Universidade de Aveiro, Departamento de Ciências da Educação (Portugal)

Duração/Duration: 2009/05 – 2014/05

*Peer-reviewed publications*

Longmore, C. A., Santos, I. M., Silva, C. F., Hall, A., Faloyin, D., & Little, E. (2017). Image dependency in the recognition of newly learnt faces. *The Quarterly Journal of Experimental Psychology*, 70(5), 863-873. <https://doi.org/10.1080/17470218.2016.1236825>

**136/08 – “Psychophysiological markers of externalizing personality in non-clinical and criminal populations”**

Investigadores/Researchers: Isabel Maria Barbas dos Santos, Jorge Manuel Costa Oliveira, Paula Emanuel Rocha Martins Vagos, Nick Anthony DeFilippis

Instituição/Institution: Laboratório de Psicologia Experimental e Aplicada (PsyLab) do Centro de Investigação em Educação e Ciências do Comportamento (CIECC), Universidade de Aveiro, Departamento de Ciências da Educação (Portugal)

Duração/Duration: 2009/01 – 2014/01

*Peer-reviewed publications*

Teixeira, A. R., Santos, I. M., Lang, E. W., & Tome, A. M. (2019). Mining EEG scalp maps of independent components related to HCT tasks. *41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 3888-3891. <https://doi.org/10.1109/EMBC.2019.8857600>

Santos, I. M., Teixeira, A. R., Tomé, A. M., Pereira, A. T., Rodrigues, P., . . . , Silva, C. F. (2016). ERP correlates of error processing during performance on the Halstead Category Test. *International Journal of Psychophysiology*, 106, 97-105. <https://doi.org/10.1016/j.ijpsycho.2016.06.010>

Teixeira, A. R., Santos, I. M., & Tome, A. M. (2019). Identifying evoked potential response patterns using independent component analysis and unsupervised learning. *Biomedical Physics & Engineering Express*, 5(1), 015019. <https://doi.org/10.1088/2057-1976/aaeeed>

Teixeira, A. R., Tomé, A. M., & Santos, I. M. (2016). A new approach to eliminate high amplitude artifacts in EEG signals. *Sensors & Transducers*, 204(9), 11-20.

**141/08 – “Neural and computational mechanisms of conscious and unconscious decisions under uncertainty”**

Investigadores/Researchers: Edward Vul, Nancy Kanwisher, Joshua Tenenbaum

Instituição/Institution: Department of Psychology, University of California, San Diego, CA (USA)

Duração/Duration: 2010/10 – 2013/11

*Peer-reviewed publications*

Smith, K., Huber, D., & Vul, E. (2013). Multiply-constrained semantic search in the Remote Associates Test. *Cognition*, 128(1), 64-75. <https://doi.org/10.1016/j.cognition.2013.03.001>

Smith, K., & Vul, E. (2013). Sources of uncertainty in intuitive physics. *Topics in Cognitive Science*, 5(1), 185-99. <https://doi.org/10.1111/tops.12009>

Gershman, S. J., Vul, E., & Tenenbaum, J. (2012). Multistability and perceptual inference. *Neural Computation*, 24(1), 1-24. [https://doi.org/10.1162/NECO\\_a\\_00226](https://doi.org/10.1162/NECO_a_00226)

Griffiths, T., Vul, E., & Sanborn, N. (2012). Bridging levels of analysis for probabilistic models of cognition. *Current Directions in Psychological Science*, 21(4), 263-268. <https://doi.org/10.1177/0963721412447619>

Vul, E., Lashkari, D., Hsieh, P.-J., Golland, P., Kanwisher, N. (2012). Data-driven functional clustering reveals dominance of face, place, and body selectivity in the ventral visual pathway. *Journal of Neurophysiology*, 108(8), 2306-2322. <https://doi.org/10.1152/jn.00354.2011>

Téglás, E., Vul, E., Girotto, V., Gonzalez, M., Tenenbaum, J., & Luca, L. (2011). Pure reasoning in 12-month-old infants as probabilistic inference. *Science*, 332(6033), 1054-1059. <https://doi.org/10.1126/science.1196404>

**142/08 – “Multi-centre study into the relationship of memories, consciousness and near-death experiences during cardiac arrest”**

Investigadores/Researchers: Sam Parnia, Fritz Sterz, Roland Beisteiner, Harry Walmsley, Peter Doyle, Mr. Ken Spearpoint, Stephen Holgate, Susan Jones, Sue Hampshire, Celia Warlow, Russell Metcalf Smith, Leanne Smyth, Hayley Killingback, Salli Lovett, Paul Wills, Penny Sartori, Iain Mcleod, Jon Taylor

Instituição/Institution: University of Southampton Department of Medical Specialities, Southampton General Hospital (UK)

Duração/Duration: 2010/01 – 2017/01

*Peer-reviewed publications*

Reagan, E., Nguyen, R., Ravishankar, S., Chabra, V., Fuentes, B., Spiegel, R., & Parnia, S. (2018). Monitoring the relationship between changes in cerebral oxygenation and electroencephalography patterns during cardiopulmonary resuscitation: A feasibility study. *Critical Care Medicine*, 46(5), 757-763. <https://doi.org/10.1097/CCM.0000000000003014>

Parnia, S., Spearpoint, S., de Vos, G., Fenwick, P., Goldberg, D., Yang, J., Zhu, J., . . . Schoenfeld, E. (2014). AWARE - AWAREness during Resuscitation: A prospective study. *Resuscitation*, 85(2), 1799-1805. <https://doi.org/10.1016/j.resuscitation.2014.09.004>

**146/08 – “Life-span changes in electrophysiological patterns associated with temporal discrimination”**

Investigadores/Researchers: Patrizia Bisiacchi, Giovanni Sparacino, Vincenza Tarantino, Sami Schiff

Instituição/Institution: Department of General Psychology, University of Padua (Italy)

Duração/Duration: 2009/01 – 2012/02

*Peer-reviewed publications*

Schiff, S., D'Avanzo, C., Cona, G., Goljahani, A., Montagnese, S., Volpato, C., . . . Bisiacchi, P. (2014). Insight into the relationship between brain/behavioral speed and variability in patients with minimal hepatic encephalopathy. *Clinical Neurophysiology*, 125(2), 287-97. <https://doi.org/10.1016/j.clinph.2013.08.004>

Mento, G., Tarantino, V., Sarlo, M., & Bisiacchi, P. (2013). Automatic temporal expectancy: a high-density event-related potential study. *PLoS One*, 8(5): e62896. <https://doi.org/10.1371/journal.pone.0062896>

Cona, G., Arcara, G., Tarantino, V., & Bisiacchi, P. (2012). Electrophysiological correlates of strategic monitoring in event-based and time-based prospective memory. *PLoS ONE*, 7(2), e31659. <https://doi.org/10.1371/journal.pone.0031659>

Cona, G., Arcara, G., Tarantino, V., & Bisiacchi, P. (2012). Age-related differences in the neural correlates of remembering time-based intentions. *Neuropsychologia*, 50(11), 2692-2704. <https://doi.org/10.1016/j.neuropsychologia.2012.07.033>

Goljahani, A., D'Avanzo, C., Schiff, S., Amodio, P., Bisiacchi, P., & Sparacino, G. (2012). A novel method for the determination of the EEG individual alpha frequency. *NeuroImage*, 60(1), 774-786. <https://doi.org/10.1016/j.neuroimage.2011.12.001>

Chiarelli, V., El Yagoubi, R., Mondini, S., Bisiacchi, P., & Semenza, C. (2011). The Syntactic and Semantic Processing of Mass and Count Nouns: An ERP Study. *PLOS ONE*, 6(10), 1-15. <https://doi.org/10.1371/journal.pone.0025885>

D'Avanzo, C., Schiff, S., Amodio, P., Sparacino, G. (2011). A Bayesian method to estimate single-trial event-related potentials with application to the study of the P300 variability. *Journal of Neuroscience Methods*, 198(1), 114-124.

Tarantino, V., Ehlis, A.-C., Baehne, C., Boreatti-Huемmer, A., Jacob, C., Bisiacchi, P., & Fallgatter, A. J. (2010). The time course of temporal discrimination: An ERP study. *Clinical Neurophysiology*, 121(1), 43-52. <https://doi.org/10.1016/j.clinph.2009.09.014>

D'Avanzo C., Tarantino V., Bisiacchi P., & Sparacino G. (2009). A Wavelet methodology for EEG time frequency analysis in a time discrimination task. *International Journal of Bioelectromagnetism*, 11(4), 185-188.

#### **148/08 – “Design and testing of a wearable device for neurofeedback of physiological correlates to states of consciousness”**

Investigador/Researcher: Thilo Hinterberger

Instituição/Institution: Institut für Umweltmedizin und Krankenhaushygiene, Universitätsklinikum Freiburg (Germany)

Duração/Duration: 2009/04 – 2011/03

##### *Peer-reviewed publications*

Hinterberger, T., (2011). The sensorium: A multimodal neurofeedback environment. *Advances in Human-Computer Interaction*, Article ID 724204, 1-10. <https://doi.org/10.1155/2011/724204>

#### **149/08 – “A closer look at meditation: Challenging the attentional network on different types of meditative procedures”**

Investigadores/Researchers: Stefan Schmidt, Harald Walach, Thilo Hinterberger, Matthias Braeunig, Dr. Jose Raul Naranjo, Kathrin Simshäuser

Instituição/Institution: Mindfulness, Meditation and Neuroscience Research, Institute of Environmental Health Sciences, University Medical Center Freiburg (Germany)

Duração/Duration: 2010/04 – 2011/09

##### *Peer-reviewed publications*

Jo, H. -G., Malinowski, P., & Schmidt, S. (2017). Frontal theta dynamics during response conflict in long-term mindfulness meditators. *Frontiers in Human Neuroscience*, 11: 299. <https://doi.org/10.3389/fnhum.2017.00299>

Jo, H. -G., Schmidt, S., Inacker, E., Markowiak, M., & Hinterberger, T. (2016). Meditation and attention: A controlled study on long-term meditators in behavioral performance and event-related potentials of attentional control. *International Journal of Psychophysiology*, 99, 33-39. <https://doi.org/10.1016/j.ijpsycho.2015.11.016>

Hinterberger, T., Kamei, T., & Walach, H. (2011). Psychophysiological classification and staging of mental states during meditative practice. *Biomed Tech (Berl)*, 56(6), 341-50. <https://doi.org/10.1515/BMT.2011.021>

#### **159/08 – “Developing a “Recipe” for success in ESP experimental research (Phase III): Integrating psi-conductive practices”**

Investigador/Researcher: Jose M. Perez Navarro

Instituição/Institution: University of Greenwich, Eltham, London (UK)

Duração/Duration: 2009/01 – 2011/01

##### *Peer-reviewed publications*

Pérez Navarro, J. M., & Guerra, X. M. (2019). Personality, cognition, and morbidity in the understanding of paranormal belief. *PsyCh Journal*. <https://doi.org/10.1002/pchj.295>

Pérez Navarro, J. M. (2012). An empirical evaluation of a set of recommendations for extrasensory perception experimental research. *Europe's Journal of Psychology*, 8(1), 32-48. <https://doi.org/10.5964/ejop.v8i1.297>



**162/08 – “Meditation at the core: Neuroscientific comparison of attentional resource allocation in different meditation practices”**

Investigadores/Researchers: Arnaud Delorme, Claire Braboszcz, Romain Granchamps, Rael Cahn, Emmanuel Fernandez

Instituição/Institution: CERCO, Centre de Recherche Cerveau et Cognition, Toulouse (France)

Duração/Duration: 2009/02 – 2012/07

*Peer-reviewed publications*

Brandmeyer, T., & Delorme, A. (2020). Meditation and the wandering mind: A theoretical framework of underlying neurocognitive mechanisms. *Perspectives on Psychological Science*, 1-28. <https://doi.org/10.1177/1745691620917340>

Brandmeyer, T., & Delorme, A. (2020). Closed-loop frontal midline theta neurofeedback: A novel approach for training focused-attention meditation. *Frontiers in Human Neuroscience*, 14: 246. <https://doi.org/10.3389/fnhum.2020.00246>

Brandmeyer, T., & Delorme, A. (2018). Reduced mind wandering in experienced meditators and associated EEG correlates. *Experimental Brain Research*, 236, 2519-2528. <https://doi.org/10.1007/s00221-016-4811-5>

Braboszcz, C., Cahn, B. R., Levy, J., Fernandez, M., & Delorme, A. (2017). Increased gamma brainwave amplitude compared to control in three different meditation traditions. *PLoS One*, 12(1): e0170647. <https://doi.org/10.1371/journal.pone.0170647>

**167/08 – “Testing the ontological status of the experience of meditation-induced timeless states”**

Investigadores/Researchers: Cassandra Vieten, Dean Radin, Marilyn Schlitz

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2009/02 – 2011/06

*Peer-reviewed publications*

Radin, D.I., Vieten, C., Michel, L. & DeLorme, A. (2011). Electro cortical Activity Prior to Unpredictable Stimuli in Meditators and Nonmeditators. *Explore: The Journal of Science and Healing*, 7(5), 286-299.

**169/08 – “When rejection hurts: Probing the neural basis of childhood social exclusion with a dense-array EEG”**

Investigadores/Researchers: Michael J. Crowley, Linda C. Mayes, Christopher A. Bailey

Instituição/Institution: Yale Child Study Center, New Haven (USA)

Duração/Duration: 2009/02 – 2011/06

*Peer-reviewed publications*

Baddam, S., Laws, H., Crawford, J. L., Wu, J., Bolling, D., Mayes, L., & Crowley, M. (2016). What they bring: baseline psychological distress differentially predicts neural response in social exclusion by children's friends and strangers in best friend dyads. *Social Cognitive and Affective Neuroscience*, 11(11), 1729-1740. <https://doi.org/10.1093/scan/nsw083>

Van Noordt, S., White, L., Wu, J., Mayes, L., & Crowley, M. (2015). Social exclusion modulates event-related frontal theta and tracks ostracism distress in children. *NeuroImage*, 118, 248-255. <https://doi.org/10.1016/j.neuroimage.2015.05.085>

Sreekrishnan, A., Herrera, T. A., Wu, J., Borelli, J. L., White, L., Rutherford, H., Mayes, L., & Crowley, M. (2014). Kin rejection: Social signals, neural response and perceived distress during social exclusion. *Developmental Science*, 17(6), 1029-1041. <https://doi.org/10.1111/desc.12191>

White, L., Wu, J., Borelli, J., Mayes, L., & Crowley, L. (2013). Play it again: neural responses to reunion with excluders predicted by attachment patterns. *Developmental Science*, 16(6), 850–863. <https://doi.org/10.1111/desc.12035>

Chamberlain, P. D., Rodgers, J., Crowley, M. J., White, S. E., Freeston, M. H., & South, M. (2013). A potentiated startle study of uncertainty and contextual anxiety in adolescents diagnosed with autism spectrum disorder. *Molecular Autism*, 4: 31. <https://doi.org/10.1186/2040-2392-4-31>

White, L., Wu, J., Borelli, J., Rutherford, H., David, D., ... Crowley, M. (2012). Attachment dismissal predicts frontal slow-wave ERPs during rejection by unfamiliar peers. *Emotion*, 12(4), 690-700. <https://doi.org/10.1037/a0026750>

Bolling, D., Pitskel, N., Deen, B., Crowley, M., Mayes, L., Pelphrey, K. (2011). Development of neural systems for processing social exclusion from childhood to adolescence. *Developmental Science*, 14(6), 1431-1444. <https://doi.org/10.1111/j.1467-7687.2011.01087.x>

Bolling, D., Pitskel, N., Deen, B., Crowley, M., Mayes, L.,

Pelphrey, K. (2011). Dissociable brain mechanisms for processing social exclusion and rule violation. *Neuroimage*. 54(3), 2462-2471. <https://doi.org/10.1016/j.neuroimage.2010.10.049>

Bolling, D., Pitskel, N., Deen, B., Crowley, M., McPartland, J., ... Pelphrey, K. (2011). Enhanced neural responses to rule violation in children with autism: A comparison to social exclusion, *Developmental Cognitive Neuroscience*, 1(3), 280-294. <https://doi.org/10.1016/j.dcn.2011.02.002>

McPartland, J., Crowley, M., Perszyk, D., Naples, A., Mukerji, C., ... Mayes, L. (2011). Temporal dynamics reveal atypical brain response to social exclusion in autism. *Developmental Cognitive Neuroscience*, 1(3), 271-279. <https://doi.org/10.1016/j.dcn.2011.02.003>

Crowley, M., Molfese, P., & Mayes, L. (2010). Social exclusion in middle childhood: rejection events, slow-wave neural activity, and ostracism distress. *Social Neuroscience*, 5(5-6), 483-495. <https://doi.org/10.1080/17470919.2010.500169>

Crowley, M., Wu, J., McCarty, E., David, D., Bailey, C., Mayes, L. (2009). Exclusion and micro-rejection: event-related potential response predicts mitigated distress. *Neuroreport*, 20(17), 1518-1522. <https://doi.org/10.1097/WNR.0b013e328330377a>

**176/08 – “How do we choose a partner? Neural circuits involved in inbreeding avoidance and mate selection”**

Investigadores/Researchers: Susana Sá Couto Quelhas Lima, Léa Zinck

Instituição/Institution: Instituto Gulbenkian de Ciência, Oeiras (Portugal)

Duração/Duration: 2009/02 – 2011/03

*Peer-reviewed publications*

Moreira, L., Zinck, L., Nomoto, K., & Lima, S. Q. (2020). Sexual imprinting overrides order effects during sampling of prospective mates. *Current Biology*, 30, R237–R262. <https://doi.org/10.1016/j.cub.2020.02.033>

Zinck, L., & Lima S. (2013). Mate choice in *Mus musculus* is relative and dependent on the estrous state. *PLoS ONE* 8(6): e66064. <https://doi.org/10.1371/journal.pone.0066064>

**180/08 – “Emotional influences on psychophysiological indices of focused attention and response anticipation in social anxiety: A combined neuroimaging and electroencephalographic study”**

Investigadores/Researchers: Yoko Nagai, Hugo Critchley, Marcus Gray

Instituição/Institution: Clinical Imaging Sciences Centre, Brighton and Sussex Medical School, University of Sussex (UK)

Duração/Duration: 2009/10 – 2014/07

*Peer-reviewed publications*

Nagai, Y., Jones, C. I., & Sen, A. (2019). Galvanic skin response (GSR)/Electrodermal/skin conductance biofeedback on epilepsy: A systematic review and meta-analysis. *Frontiers in Neurology*, 10: 377. <https://doi.org/10.3389/fneur.2019.00377>

Nagai, Y. (2015). Modulation of autonomic activity in neurological conditions: Epilepsy and Tourette Syndrome. *Frontiers in Neuroscience*, 9: 278. <https://doi.org/10.3389/fnins.2015.00278>

**189/08 – “Exploration of the effect of local geomagnetic activity and tibetan buddhist meditation on psychic awareness”**

Investigadores/Researchers: Serena M. Roney-Dougal, Adrian Ryan

Instituição/Institution: Psi Research Centre, Glastonbury, Somerset (UK)

Duração/Duration: 2009/10 – 2013/07

*Peer-reviewed publications*

Roney-Dougal, S. M., Ryan, A., & Luke, D. (2014). The relationship between local geomagnetic activity and psychic awareness. *Journal of Parapsychology*, 78(2), 235–254.

Roney-Dougal, S.M., Ryan, A., & Luke, D. (2013). The relationship between local geomagnetic activity, meditation and psi. Part 1: Literature review and theoretical model. *Journal of the Society for Psychical Research*, 77.2, 72-88.

**192/08 – “Brain dynamics underlying motor awareness in language”**

Investigadores/Researchers: Francesca Carota, Angela Sirigu, Claude Delpuech, Andres Posada, Sylvain Harquel

Instituição/Institution: Centre de Neuroscience Cognitive, Bron (France)

Duração/Duration: 2009/10 – 2014/09

*Peer-reviewed publications*

Carota, F., Desmurget, M., & Sirigu, A. (2010). Forward modeling mediates motor awareness. In Sinnott-Armstrong, W., & Nadel, L. (Eds.), *Conscious will and responsibility: A tribute to Benjamin Libet* (pp. 97-108). New York: Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780195381641.003.0010>

Carota, F., Posada, A., Harquel, S., Delpuech, C., Bertrand, O., & Sirigu, A. (2010). Neural dynamics of the intention to speak. *Cerebral Cortex*, 20(8), 1891-1897. <https://doi.org/10.1093/cercor/bhp255>.

#### **201/08 – “Posterior parietal cortex involvement in skill learning”**

Investigadores/Researchers: Sara Cavaco, Steven Wayne Anderson, Pedro Soares Pinto, Ricardo Taipa  
Instituição/Institution: Laboratory of Neurobiology of Human Behavior of Hospital de Santo António, Porto (Portugal) e Division of Behavioral Neurology and College of Medicine of the University of Iowa, Carver College of Medicine (USA)

Duração/Duration: 2010/02 – 2014/07

##### *Peer-reviewed publications*

Cavaco, S., Anderson, S., Chen, K.-H., Teixeira-Pinto, A., & Damásio, H. (2015). Parietal damage impairs learning of a visuo motor tracking skill. *Neuropsychologia*, 79, Part A, 106–112. <https://doi.org/10.1016/j.neuropsychologia.2015.10.038>

Cavaco, S., Gonçalves, A., Pinto, C., Almeida, E., Gomes, F., Moreira, I., Fernandes, J., & Teixeira-Pinto, A. (2015). Auditory verbal learning test in a large nonclinical Portuguese population. *Applied Neuropsychology: Adult*. <https://doi.org/10.1080/23279095.2014.927767>

Cavaco, S. (2014). Neurobiology of nondeclarative memory: A selected review on motor. *Perspectives on Neurophysiology and Neurogenic Speech and Language Disorders*, 24(2), 43-49. <https://doi.org/10.1044/nnsld24.2.43>



## Apoios à Investigação Científica 2010/11 | Grants for Scientific Research 2010/11

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 01/10 – “Neurocognitive correlates of the out-of-body experience and kindred hallucinations of embodiment and the ‘Self’”

Investigador/Researcher: Jason John Braithwaite

Instituição/Institution: Selective Attention and Awareness Laboratory (SAAL) Behavioural Brain Sciences centre, School of Psychology, University of Birmingham (UK)

Duração/Duration: 2011/03 – 2013/05

#### Peer-reviewed publications

Braithwaite, J. J., Brogna, E., & Watson, D.G (2014). Autonomic emotional responses to the induction of the rubber-hand illusion in those that report anomalous bodily experiences: Evidence for specific psychophysiological components associated with illusory body representations. *Journal of Experimental Psychology: Human Perception & Performance*, 40(3), 1131-1145. <https://doi.org/10.1037/a0036077>

Braithwaite, J. J., Brogna, E., Bagshaw, A. P., & Wilkins, A. J. (2013). Evidence for elevated cortical hyperexcitability and its association with out-of-body experiences in the non-clinical population: new findings from a pattern-glare task. *Cortex*, 49(3), 793-805. <https://doi.org/10.1016/j.cortex.2011.11.013>

Braithwaite, J. J., James, K., Dewe, H., Medford, N., Takahashi, C., & Kessler, K. (2013). Fractionating the unitary notion of dissociation: disembodied but not embodied helan are associated with exocentric perspective-taking. *Frontiers in Human Neuroscience*, 7: 719, 1-12. <https://doi.org/10.3389/fnhum.2013.00719>

### 08/10 – “Hallucination experience and Psi (Phase II): New psychological, psychopathological, psychophysiological and transcultural approach”

Investigadores/Researchers: Alejandro Enrique Parra, Romina Ileana Mielgo, Irma Juana Caputo

Instituição/Institution: Universidad Abierta Interamericana, Facultad de Psicología, Buenos Aires (Argentina)

Duração/Duration: 2011/03 – 2013/01

#### Peer-reviewed publications

Parra, A. (2013). Cognitive and emotional empathy in relation to five paranormal/anomalous experiences. *North American Journal of Psychology*, 15(3), 405-412.

Parra, A. & Corbetta, J. (2013). Experiencias paranormales y su relación con el sentido de la vida. *Liberabit*, 19(2), 33-44.

Parra, A. (2012). Experiencias perceptuales inusuales, experiencias anómalo/paranormales y propensión a la esquizotipia. *Universitas Psychologica*, 11(1), 269-278.

Parra, A. (2012). Dissociation, absorption, fantasy proneness and sensation-seeking in psychic claimants. *Journal of the Society for Psychical Research*, 76.4, (909), 193-203.

Parra (2012). Relación entre las experiencias paranormales y esquizotipia positiva/negativa. *Acta Psiquiátrica y Psicológica de América Latina*, 58(4), 246-255.

Parra, A. (2011). Encuesta on-line de experiencias anómalo/paranormales y su impacto emocional: Relación con género, edad, y otras variables. *Persona*, 14, 211-228.

Parra, A. (2010). Indicadores de propensión a la esquizotipia entre individuos creyentes en lo paranormal: examinando la intensidad de la imaginaria, esquizotipia y experiencias alucinatorias. *Psicología: Teoría e Prática*, 12(3) 78-94.



### 21/10 – “Effects of intentionally enhanced tea on mood”

Investigadores/Researchers: Yung-Jong Shiah, Dean Radin

Instituição/Institution: Psychology Department of Kaohsiung Medical University, Kaohsiung, (Taiwan)

Duração/Duration: 2011/04 – 2013/01

#### Peer-reviewed publications

Shiah, Y. -J., & Radin, D. (2013). Metaphysics of the tea ceremony: A randomized trial investigating the roles of intention and belief on mood while drinking tea. *EXPLORE: The Journal of Science & Healing*, 9(6), 355-360. <https://doi.org/10.1016/j.explore.2013.08.005>

### 27/10 – “From trance to transcendence during meditation”

Investigadores/Researchers: Joseph Glicksohn, Abraham Goldstein, Aviva Berkovich Ohana

Instituição/Institution: The Leslie and Susan Golda (Goldschmied) Multidisciplinary Brain Research Center, Bar-Ilan University, Ramat Gan (Israel)

Duração/Duration: 2011/06 – 2013/06

#### Peer-reviewed publications

Glicksohn, J., & Berkovich-Ohana, A. (2019). When meditators avoid counting during time production things get interesting. *PsyCh Journal*, 8, 17-27. <https://doi.org/10.1002/pchj.250>

Berkovich-Ohana, A. (2017). A case study of a meditation-induced altered state: increased overall gamma synchronization. *Phenomenology and the Cognitive Sciences*, 16(1), 91–106. <https://doi.org/10.1007/s11097-015-9435-x>

Berkovich-Ohana, A., & Glicksohn, J. (2017). Meditation, absorption, transcendent experience and affect: Tying it all together by the Consciousness State Space (CSS) model. *Mindfulness*, 8, 68-77. <https://doi.org/10.1007/s12671-015-0481-9>

Dor-Ziderman, Y., Ataria, Y., Fulder, S., Goldstein, A., & Berkovich-Ohana, A. (2016). Self-specific processing in the meditating brain: a MEG neurophenomenology study. *Neuroscience of consciousness*, 2016(1), niw019. <https://doi.org/10.1093/nc/niw019>

Berkovich-Ohana, A., & Glicksohn, J. (2014). The consciousness state space (CSS) - a unifying model for consciousness and self. *Frontiers in Psychology*, 5: 341. <https://doi.org/10.3389/fpsyg.2014.00341>

Ataria, Y., Dor-Ziderman, Y., & Berkovich-Ohana, A. (2015). How does it feel to lack a sense of boundaries? A case study of a long-term mindfulness meditator. *Consciousness and Cognition*, 37, 133-147. <https://doi.org/10.1016/j.concog.2015.09.002>

Berkovich-Ohana, A., Dor-Ziderman, Y., Glicksohn, J., & Goldstein, A. (2013). Alterations in the sense of time, space, and body in the mindfulness-trained brain: a neurophenomenologically-guided MEG study. *Frontiers in Psychology*, 4: 912. <https://doi.org/10.3389/fpsyg.2013.00912>

Berkovich-Ohana, A., Glicksohn, J., & Goldstein, A. (2013). Studying the default mode and its mindfulness-induced changes using EEG functional connectivity. *Social Cognitive and Affective Neuroscience*. <https://doi.org/10.1093/scan/nst153>

Dor-Ziderman, Y., Berkovich-Ohana, A., Glicksohn, J., & Goldstein, A. (2013). Mindfulness-induced selflessness: a MEG neurophenomenological study. *Frontiers in Human Neuroscience*, 7: 582. <https://doi.org/10.3389/fnhum.2013.00582>

Berkovich-Ohana, A., Glicksohn, J., & Goldstein, A. (2012). Mindfulness-induced changes in gamma band activity - implications for the default mode network, self-reference and attention. *Clinical Neurophysiology*, 123(4), 700-710. <https://doi.org/10.1016/j.clinph.2011.07.048>

Glicksohn, J., & Berkovich-Ohana, A. (2012). Absorption, immersion, and consciousness. In J. Gackenbach (Ed.), *Video game play and consciousness* (pp. 83-99). New York, NY: Nova Science Publishers, Inc.

Glicksohn, J., & Berkovich-Ohana, A. (2011). From trance to transcendence: A neurocognitive approach. *The Journal of Mind and Behavior*, 32, 49-62.

### 32/10 – “Facilitating healthy ageing: Investigating neuroprotective effects of mindfulness”

Investigadores/Researchers: Peter Malinowski, Thomas Gruber, Cathy Montgomery

Instituição/Institution: Liverpool John Moores University, School of Natural Sciences and Psychology Byrom Street, Liverpool (UK)

Duração/Duration: 2011/04 – 2013/05

#### Peer-reviewed publications

Malinowski, P., Moore, A. W., Mead, B. R., & Gruber, T. (2017). Mindful Aging: The effects of regular brief mindfulness practice on electrophysiological markers of cognitive and affective processing in older adults. *Mindfulness*, 8(1), 78-94. <https://doi.org/10.1007/s12671-015-0482-8>

### **37/10 – “Psychophysiological mechanisms of hierarchical novelty detection in the human auditory brain”**

Investigadores/Researchers: Carles Escera, Sabine Grimm, Marc Recasens

Instituição/Institution: Research Institute for Brain, Cognition and Behavior (IR3C) and Department of Psychiatry and Clinical Psychobiology, Faculty of Psychology, University of Barcelona (Spain)

Duração/Duration: 2011/04 – 2013/03

#### *Peer-reviewed publications*

Grimm, S., & Escera, C. (2012). Auditory deviance detection revisited: Evidence for a hierarchical novelty system. *International Journal of Psychophysiology*, 85(1), 88-92. <https://doi.org/10.1016/j.ijpsycho.2011.05.012>

Grimm, S., Recasens, M., Althen, H., & Escera, C. (2012). Ultrafast tracking of sound location changes as revealed by human auditory evoked potentials. *Biological Psychology*, 89(1), 232-239. <https://doi.org/10.1016/j.biopsycho.2011.10.014>

Althen, H., Grimm, S., & Escera, C. (2011). Fast detection of unexpected sound intensity decrements as revealed by human evoked potentials. *PLoS ONE*, 6(12): e28522. <https://doi.org/10.1371/journal.pone.0028522>

### **39/10 – “Paranormal belief, evaluation of paranormal experiences, schizotypy and reality testing”**

Investigadores/Researchers: Neil Andrew Dagnall, Gary Munley, Andrew Parker

Instituição/Institution: The Manchester Metropolitan University, Research Institute of Health and Social Change, Faculty of Health, Psychology and Social Care, Dep. of Psychology, Manchester (UK)

Duração/Duration: 2011/09 – 2013/11

#### *Peer-reviewed publications*

Dagnall, N., Denovan, A., Drinkwater, K., Parker, A., Clough, P. (2016). Toward a better understanding of the relationship between belief in the paranormal and statistical bias: The potential role of schizotypy. *Frontiers in Psychology*, 7: 1045. <https://doi.org/10.3389/fpsyg.2016.01045>

Dagnall, N., Drinkwater, K., Denovan, A., & Parker, A. (2016). Misperception of chance, conjunction, framing effects and belief in the paranormal: A further evaluation. *Applied Cognitive Psychology*, 30(3), 409-419. <https://doi.org/10.1002/acp.3217>

Dagnall, N., Drinkwater, K., Denovan, A., & Parker, A. (2015). Suggestion, belief in the paranormal, proneness to reality testing deficits and perception of an allegedly haunted building. *Journal of Parapsychology*, 79(1), 87-104.

Dagnall, N., Drinkwater, K., Parker, A., Denovan, A., & Parton, M. (2015). Conspiracy theory and cognitive style: a worldview. *Frontiers in Psychology*, 6:206. <https://doi.org/10.3389/fpsyg.2015.00206>

Dagnall, N., Drinkwater, K., Parker, A., & Rowley, K. (2014). Misperception of Chance, Conjunction, Belief in the Paranormal and Reality Testing: A Reappraisal. *Applied Cognitive Psychology*, 28(5), 711-719. <https://doi.org/10.1002/acp.3057>

### **42/10 – “Conscious induction of Theta EEG patterns by a healing procedure”**

Investigadores/Researchers: Stefan Schmidt, Thilo Hinterberger

Instituição/Institution: Center for Mindfulness, Meditation and Neuroscience Research, Institute of Environmental Health Sciences, University Medical Center Freiburg (Germany)

Duração/Duration: 2011/11 – 2013/03

#### *Peer-reviewed publications*

Hinterberger, T., von Haugwitz, A., & Schmidt, S. (2016). Does a healing procedure referring to theta rhythms also generate theta rhythms in the brain? *The Journal of Alternative and Complementary Medicine*, 22(1), 66-74. <https://doi.org/10.1089/acm.2014.0394>

### **45/10 – “Shamanic-like journeying and psi-hitting: Searching for the psi-conductive component(s) of a novel experimental protocol”**

Investigador/Researcher: Adam Rock

Instituição/Institution: Phoenix Institute of Victoria, Prahran (Australia)

Duração/Duration: 2011/04 – 2012/12

#### *Peer-reviewed publications*

Rock, A., Storm, L., Harris, K., & Friedman, H. (2013). Shamanic-like journeying and psi-signal detection: I. In search of the psi-conductive components of a novel experimental protocol. *Journal of Parapsychology*, 76(2), 321-347.

Rock, A., & Storm, L. (2012). Shamanism, imagery cultivation, and psi-signal detection: A theoretical model, experimental protocol, and preliminary data. *International Journal of Transpersonal Studies*, 31(2), 91-102.

#### 50/10 – “Trance: Cortical representations”

Investigadores/Researchers: Alessandra Ghinato Mainieri, Julio Fernando Prieto Peres, Alexander Moreira de Almeida, Ute Habel, Nils Kohn

Instituição/Institution: Department of Psychiatry and Psychotherapy, RWTH Aachen University, Aachen (Germany)

Duração/Duration: 2011/03 – 2013/05

##### Peer-reviewed publications

Mainieri, A., Peres, J. F., Moreira-Almeida, A., Mathiak, K., Habel, U., & Kohn, N. (2017). Neural correlates of psychotic-like experiences during spiritual-trance state. *Psychiatry Research: Neuroimaging*, 266, 101-107. <https://doi.org/10.1016/j.pscychresns.2017.06.006>

#### 55/10 – “The developmental and psychophysiological emergence of dreams and nightmares: state-dependent and state-independent fronto-cortical disconnectivity”

Investigadores/Researchers: Róbert Bódizs, Peter Daniel Simor, Piroska Sándor, Szilvia Csóka, Klára Horváth

Instituição/Institution: Institute of Behavioural Sciences, Semmelweis University, Budapest (Hungary)

Duração/Duration: 2011/03 – 2014/02

##### Peer-reviewed publications

Bódizs, R., Szalárdy, O., Horváth, C., Ujma, P. P., Gombos, F., Simor, P., ... Dresler, M. (2021). A set of composite, non-redundant EEG measures of NREM sleep based on the power law scaling of the Fourier spectrum. *Scientific Reports*, 11(1):2041. <https://doi.org/10.1038/s41598-021-81230-7>

Sándor, P., Szakadát, S., & Bódizs, R. (2016). Emotion regulation as reflected in children's dreams – a developmental test of the neurocognitive dream theory. *Mentálhigiéné és Pszichoszomatika*, 17(2), 167-190. <https://doi.org/10.1556/0406.17.2016.2.5>

Sándor, P., Szakadát, S., & Bódizs, R. (2016). The development of cognitive and emotional processing as reflected in children's dreams: Active self in an eventful dream signals better neuropsychological skills. *Dreaming*, 26(1), 58-78. <https://doi.org/10.1037/drm0000022>

Ujma, P. P., Sándor, P., Gombos, F., & Bódizs, R. (2016). Sleep spindles and intelligence in early childhood – Developmental and trait-dependent aspects. *Developmental Psychology*, 52(12), 2118-2129. <https://doi.org/10.1037/dev0000233>

Sándor, P., Szakadát, S., Kertész, K., Bódizs, R. (2015). Content analysis of 4 to 8 year-old children's dream reports. *Frontiers in Psychology*, 6: 534. <https://doi.org/10.3389/fpsyg.2015.00534>

Sándor, P., Szakadát, S., & Bódizs, R. (2014). Ontogeny of dreaming: A review of empirical studies. *Sleep Medicine Reviews*, 18(5), 435-449. <https://doi.org/10.1016/j.smrv.2014.02.001>

Kis, A., Szakadát, S., Simor, P., Gombos, F., Horváth, K., & Bódizs, R. (2013). Objective and subjective components of the first-night effect in young nightmare sufferers and healthy participants. *Behavioral Sleep Medicine*, 12, 1-12. <https://doi.org/10.1080/15402002.2013.829062>

Simor, P., Bódizs, R., Horváth, K., & Ferri, R. (2013). Disturbed dreaming and the instability of sleep: Altered nonrapid eye movement sleep microstructure in individuals with frequent nightmares as revealed by the cyclic alternating pattern. *Sleep*, 36(3), 413-419. <https://doi.org/10.5665/sleep.2462>

Simor, P., Horváth, K., Ujma, P., Gombos, F., & Bódizs, R. (2013). Fluctuations between sleep and wakefulness: Wake-like features indicated by increased EEG alpha power during different sleep stages in nightmare disorder. *Biological Psychology*, 94(3), 592-600. <https://doi.org/10.1016/j.biopsycho.2013.05.022>

Simor, P., Horváth, K., Gombos, F., Takács, K., & Bódizs, R. (2012). Disturbed dreaming and sleep quality: Altered sleep architecture in subjects with frequent nightmares. *European Archives of Psychiatry and Clinical Neuroscience*, 262(8), 687-696. <https://doi.org/10.1007/s00406-012-0318-7>

Simor, P., Pajkossy, P., Horváth, K., & Bódizs, R. (2012). Impaired executive functions in subjects with frequent nightmares as reflected by performance in different neuropsychological tasks. *Brain and Cognition*, 78(3), 274-283. <https://doi.org/10.1016/j.bandc.2012.01.006>

#### 57/10 – “Psychophysiological, behavioural and experiential responses to evoked positive and negative emotion in people with eating disorders”

Investigadores/Researchers: Kate Tchanturia, Helen Davies

Instituição/Institution: King's College London, Institute of Psychiatry, London (UK)

Duração/Duration: 2011/03 – 2012/04

##### Peer-reviewed publications

Tchanturia, K., Hambrook, D., Curtis, H., Jones, T., Lounes, N., Fenn, K., Keyes, A., Stevenson, L., & Davies, H. (2013). Work and social adjustment in patients with anorexia nervosa. *Comprehensive Psychiatry*, 54(1), 41-45. <https://doi.org/10.1016/j.comppsy.2012.03.014>

Davies, H., Fox, J., Naumann, U., Treasure, J., Schmidt, U., & Tchanturia, K. (2012). Cognitive remediation and emotion skills training for anorexia nervosa: An observational study using neuropsychological outcomes. *European Eating Disorder Review*, 20(3), 211-217. <https://doi.org/10.1002/erv.2170>

Davies, H., Swan, N., Schmidt, U., & Tchanturia, K. (2011). An experimental investigation of verbal expression of emotion in anorexia and bulimia nervosa. *European Eating Disorders Review*, 20(6), 476-483. <https://doi.org/10.1002/erv.1157>

Tchanturia, K., Davies, H., Harrison, A., Fox, J., Treasure, J., & Schmidt, U. (2012). Altered social hedonic processing in eating disorders. *International Journal of Eating Disorders*, 45(8), 962-969. <https://doi.org/10.1002/eat.22032>

Tchanturia, K., Liao, T., Forcano, L., Fernandez-Aranda, F., Uher, R., Treasure, J., ... Campbell, I. (2012). Poor decision making in male patients with anorexia nervosa. *European Eating Disorders Review*, 20(2), 169-173. <https://doi.org/10.1002/erv.1154>

Lounes, N., Khan, G., & Tchanturia, K. (2011). Assessment of cognitive flexibility in anorexia nervosa-self-report or experimental measure? A brief report. *Journal of the International Neuropsychological Society*, 17(5), 925-928. <https://doi.org/10.1017/S1355617711000671>

### **58/10 – “Somatic psi vs. Survival psi: A quantitative investigation of mediums’ phenomenology comparing psychic readings and ostensible communication with the deceased”**

Investigadores/Researchers: Julie Beischel, Adam Rock, Mark Boccuzzi, Michael Biuso

Instituição/Institution: The Windbridge Institute for Applied Research in Human Potential, Tucson (USA)

Duração/Duration: 2011/03 – 2013/02

#### *Peer-reviewed publications*

Beischel, J., Rock, A. J., Pekala, R. J., & Boccuzzi, M. (2021). Survival psi and somatic psi: Exploratory quantitative phenomenological analyses of blinded mediums’ experiences of communication with the deceased and psychic readings for the living. *Journal of Near-Death Studies*, 39(2), 61–102. <https://doi.org/10.17514/JNDS-2021-39-2-p61-102>

### **61/10 – “Translation of neuron-glia interactions in complex cognitive functions”**

Investigadores/Researchers: João Filipe Pedreira de Oliveira, Nuno Sérgio Mendes Dias, Luis Ricardo Monteiro Jacinto

Instituição/Institution: Instituto de Investigação em Ciências da Vida e da Saúde (ICVS), Escola de Ciências da Saúde, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2011/05 – 2015/07

#### *Peer-reviewed publications*

Oliveira, J. F., Sardinha, V. M., Guerra-Gomes, S., Araque, A., & Sousa, N. (2015). Do stars govern our actions? Astrocyte involvement in rodent behavior. *Trends in Neurosciences*, 38(9), 535-549. <https://doi.org/10.1016/j.tins.2015.07.006>

Lima, A., Sardinha V. M., Oliveira A. F., Reis M., Mota C., Silva, M., . . . Oliveira, J. F. (2014). Astrocyte pathology in the prefrontal cortex impairs the cognitive function of rats. *Molecular Psychiatry*, 19(7), 834-841. <https://doi.org/10.1038/mp.2013.182>

Oliveira, J. F., Dias, N., Correia, M., Gama-Pereira, F., Sardinha, V. M., ..., Sousa, N. (2013). Chronic stress disrupts neural coherence between cortico-limbic structures. *Frontiers in Neural Circuits*, 7:10, 1-12. <https://doi.org/10.3389/fncir.2013.00010>

### **63/10 – “Mindful ageing. Avoiding age related cognitive decline”**

Investigadores/Researchers: Isabel Pavão Martins, Nuno Lunet, Carolina Maruta, Clara Loureiro, Vanda Freitas, Joana Morgado, Sofia Reimão, Joana Tavares

Instituição/Institution: Laboratório de Estudos de Linguagem, Unidade Neurológica de Investigação Clínica, Faculdade de Medicina de Lisboa e Instituto de Medicina Molecular, Universidade de Lisboa (Portugal)

Duração/Duration: 2011/04 – 2014/07

#### *Peer-reviewed publications*

Martins, I. P., Maruta, C., Alves, P. N., Loureiro, C., Morgado, J., Tavares, J., & Gil-Gouveia, R. (2020). Cognitive aging in migraine sufferers is associated with more subjective complaints but similar age-related decline: a 5-year longitudinal study. *The Journal of Headache and Pain*, 21(1): 31. <https://doi.org/10.1186/s10194-020-01100-x>

Maruta, C., & Martins, I. P. (2019). May Subjective Language Complaints Predict Future Language Decline in Community-Dwelling Subjects? *Frontiers in Psychology*, 10: 1974. <https://doi.org/10.3389/fpsyg.2019.01974>



Martins, I. P., Maruta, C., Morgado, J., Loureiro, C., Tavares, J., Freitas, V., Lunet, N., Viana, P., & Marques, P. (2018). Predictors of cognitive stability or decline during aging: A longitudinal study in primary care. *Applied Neuropsychology: Adult*, 5, 1-13. <https://doi.org/10.1080/23279095.2018.1476866>

#### **66/10 – “The Spiritual Brain: neuropsychological and neurophysiologic investigations of Self-transcendence and Spirituality”**

Investigadores/Researchers: Salvatore Maria Aglioti, Cosimo Urgesi, Franco Fabbro, Matteo Candidi, Fabio Campanella

Instituição/Institution: Department of Psychology, University of Rome “La Sapienza”, Roma (Italy)

Duração/Duration: 2011/04 – 2013/02

##### *Peer-reviewed publications*

Crescentini, C., Di Bucchianico, Fabbro, F., & Urgesi, C. (2015). Excitatory stimulation of the right inferior parietal cortex lessens implicit religiousness/spirituality. *Neuropsychologia*, 70, 71-79. <https://doi.org/10.1016/j.neuropsychologia.2015.02.016>

Campanella, F., Crescentini, C., Urgesi, C., & Fabbro, F. (2014). Mindfulness-oriented meditation improves self-related character scales in healthy individuals. *Comprehensive Psychiatry*, 55(5), 1269-1278. <https://doi.org/10.1016/j.comppsy.2014.03.009>

Crescentini, C., Aglioti, S., Fabbro, F., & Urgesi, C. (2014). Virtual lesions of the inferior parietal cortex induce fast changes of implicit religiousness/spirituality. *Cortex*, 54, 1–15. <https://doi.org/10.1016/j.cortex.2014.01.023>

Crescentini, C., Fabbro, F., & Urgesi, C. (2014). Mental spatial transformations of objects and bodies: Different developmental trajectories in children from 7 to 11 years of age. *Developmental Psychology*, 50(2), 370-383. <https://doi.org/10.1037/a0033627>

Crescentini, C., Urgesi, C., Campanella, F., Eleopra, R., & Fabbro, F. (2014). Effects of an 8-week meditation program on the implicit and explicit attitudes toward religious/spiritual self-representations. *Consciousness and Cognition*, 30, 266-280. <https://doi.org/10.1016/j.concog.2014.09.013>

Crescentini, C., Urgesi, C., Fabbro, F., Eleopra, R. (2014). Cognitive and brain reserve for mind-body therapeutic approaches in multiple sclerosis: a review. *Restorative Neurology and Neuroscience*, 32(5), 575-595. <https://doi.org/10.3233/RNN-130364>

#### **72/10 – “Neurocognitive mechanisms supporting the influence of memory on visual attention in healthy and disease”**

Investigadores/Researchers: José Miguel Pinto Cardoso de Bourbon Teles, David Soto, Paul Bentley

Instituição/Institution: Centre for Neuroscience, Faculty of Medicine, Department of Neuroscience and Mental Health, Imperial College London (UK)

Duração/Duration: 2011/04 – 2013/10

##### *Peer-reviewed publications*

de Bourbon Teles, J., & Soto, D. (2019). Assessing the role of the left dorsal frontal cortex in working memory guidance: attentional or mnemonic? A neurostimulation study. *Neuroscience*, 411, 140-149. <https://doi.org/10.1016/j.neuroscience.2019.04.049>

de Bourbon Teles, J., Bentley, P., Koshino, S., Shah, K., Dutta, A., Malhotra, P., . . . Soto, D. (2014). Thalamic control of human attention driven by memory and learning. *Current Biology*, 24(9), 993-999. <https://doi.org/10.1016/j.cub.2014.03.024>

#### **74/10 – “The psychobiological effects of yoga/meditation in a prison population”**

Investigadores/Researchers: Miguel Farias, Amy Bilderbeck

Instituição/Institution: Department of Experimental Psychology, University of Oxford (UK)

Duração/Duration: 2011/12 – 2013/11

##### *Peer-reviewed publications*

Bilderbeck, A., Brazil, I., & Farias, M. (2015). Preliminary evidence that yoga practice progressively improves mood and decreases stress in a sample of UK prisoners. *Evidence-Based Complementary and Alternative Medicine*, Article ID 819183. <https://doi.org/10.1155/2015/819183>

Bilderbeck, A., Farias, M., Brazil, I., Jakobowitz, S., & Wikholm, C. (2013). Participation in a 10-week course of yoga improves behavioural control and decreases psychological distress in a prison population. *Journal of Psychiatric Research*, 47(10), 1438-1445. <https://doi.org/10.1016/j.jpsychires.2013.06.014>

**76/10 – “Transcendental meditation (TM) or hypnotherapy for the treatment of children with tension-type headache: A multi-centre randomized controlled clinical trial in the Netherlands”**

Investigadores/Researchers: Miek C. Jong, E.P. van Wijk, I. Boers, A. M. Vlieger

Instituição/Institution: The Louis Bolk Institute, La Driebergen (The Netherlands)

Duração/Duration: 2011/10 – 2017/09

*Peer-reviewed publications*

Jong, M. C., Boers, I., van Wietmarschen, H. A., Tromp, E., Busari, J. O., Wennekes, R., Snoeck, I., Bekhof, J., & Vlieger, A. M. (2019). Hypnotherapy or transcendental meditation versus progressive muscle relaxation exercises in the treatment of children with primary headaches: a multi-centre, pragmatic, randomised clinical study. *European Journal of Pediatrics*, 178(2), 147-154. <https://doi.org/10.1007/s00431-018-3270-3>

**82/10 – “An investigation into the prevalence and phenomenology of synchronicity experiences in the clinical setting”**

Investigador/Researcher: Elizabeth Roxburgh

Instituição/Institution: Centre for the Study of Anomalous Psychological Processes (CSAPP), The University of Northampton (UK)

Duração/Duration: 2011/03 – 2012/07

*Peer-reviewed publications*

Roxburgh, E. C., Ridgway, S., & Roe, C. A. (2016). Synchronicity in the therapeutic setting: A survey of practitioners. *Counselling and Psychotherapy Research*, 16(1), 44-53. <https://doi.org/10.1002/capr.12057>

Roxburgh, E. C., Ridgway, S., & Roe, C. A. (2015). Exploring the meaning in meaningful coincidences: An interpretative phenomenological analysis of synchronicity in therapy. *European Journal of Psychotherapy & Counselling*, 17(2), 144-161. <https://doi.org/10.1080/13642537.2015.1027784>

**86/10 – “The different faces of one's self: Neural correlates of changes in selfidentity”**

Investigadores/Researchers: Ana Tajadura-Jiménez, Emmanouil (Manos) Tsakiris

Instituição/Institution: Department of Psychology, Royal Holloway University of London (UK)

Duração/Duration: 2011/09 – 2012/10

*Peer-reviewed publications*

Apps, M. A., Tajadura-Jiménez, A., Sereno, M., Blanke, O., & Tsakiris, M. (2013). Plasticity in unimodal and multimodal brain areas reflects multisensory changes in self-face identification. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bht199>

Apps, M. A., Tajadura-Jiménez, A., Turley, G., & Tsakiris, M. (2012). The different faces of one's self: An fMRI study into the recognition of current and past self-facial appearances. *NeuroImage*, 63(3), 1720-1729. <https://doi.org/10.1016/j.neuroimage.2012.08.053>

**94/10 – “Cortical and autonomic responses associated with accurate intuition”**

Investigadores/Researchers: Paul J. Mills, Arnaud Delorme, Julie Beischel, Dean Radin, Rael Cahn

Instituição/Institution: Institute of Noetic Sciences, California (USA)

Duração/Duration: 2011/10 – 2013/04

*Peer reviewed publication*

Delorme, A., Beischel, J., Michel, L., Boccuzzi, M., Radin, D., & Mills, P. (2013). Electro cortical activity associated with subjective communication with the deceased. *Frontiers in Psychology*, 4: 834. <https://doi.org/10.3389/fpsyg.2013.00834>

**96/10 – “The psychophysiology of positive psychology”**

Investigadores/Researchers: Angela Clow, Lisa Thorn, Nina Smyth, Frank Hucklebridge

Instituição/Institution: Psychophysiology and Stress Research Group, Department of Psychology, University of Westminster, London (UK)

Duração/Duration: 2011/06 – 2013/10

*Peer-reviewed publications*

Evans, P., Smyth, N., Thorn, L., Hucklebridge, F., & Clow, A. (2019). Salience versus magnitude in the measurement of the cortisol awakening response. *Psychoneuroendocrinology*, 103, 249-258. <https://doi.org/10.1016/j.psyneuen.2019.01.023>

Smyth, N., Bianchin, M., Thorn, L., Hucklebridge, F., Kirschbaum, C., Stalder, T., Clow, A. (2016). Hair cortisol concentrations in relation to ill-being and well-being in healthy young and old females. *International Journal of Psychophysiology*, 102, 12-17.

Smyth, N., Thorn, L., Hucklebridge, F., Clow, A., & Evans, P. (2016). Assessment of the cortisol awakening response: Real-time analysis and curvilinear effects of sample timing inaccuracy. *Psychoneuroendocrinology*, 74, 380-386. <https://doi.org/10.1016/j.psyneuen.2016.09.026>

Smyth, N., Thorn, L., Hucklebridge, F., Evans, P., & Clow, A. (2015). Post awakening salivary cortisol secretion and trait well-being: The importance of sample timing accuracy. *Psychoneuroendocrinology*, 58, 141-151. <https://doi.org/10.1016/j.psyneuen.2015.04.019>

Smyth, N., Clow, A., Thorn, L., Hucklebridge, F., & Evans, P. (2013). Delays of 5-15min between awakening and the start of saliva sampling matter in assessment of the cortisol awakening response. *Psychoneuroendocrinology*, 38(9), 1476-1483. <https://doi.org/10.1016/j.psyneuen.2012.12.013>

Smyth, N., Hucklebridge, F., Thorn, L., Evans, P., & Clow, A. (2013). Salivary cortisol as a biomarker in social science research. *Social and Personality Psychology Compass*, 7(9), 605-625. <https://doi.org/10.1111/spc3.12057>

#### **100/10 – “Replicating von Lucadou’s psycho-physical correlation matrices”**

Investigadores/Researchers: Harald Walach, Nikolaus von Stillfried

Instituição/Institution: Institute for Transcultural Health Sciences (INTRAG), European University Viadrina, Frankfurt Oder (Germany)

Duração/Duration: 2011/11 – 2014/06

##### *Peer-reviewed publications*

Walach, H. (2020). Naturalizing religion, spiritualizing science: The role of consciousness research. *Journal of Consciousness Studies*, 27(7-8), 165-194.

Walach, H., Horan, M., Hinterberger, T., & von Ludacou, W. (2020). Evidence for anomalistic correlations between human behavior and a random event generator – Result of an independent replication of a micro-PK experiment. *Psychology of Consciousness: Theory, Research, and Practice*, 7(2), 173-188. <https://doi.org/10.1037/cns0000199>

#### **102/10 – “The importance of the rapid eye movement sleep stage for creativity and for creative problem solving”**

Investigadores/Researchers: Ingegerd Carlsson, Per Davidson, Una Gustafsson, Markus Jansson-Fröjmark, Sara Mednick, Marianne Ors

Instituição/Institution: Department of Psychology, Lund University, Lund (Sweden)

Duração/Duration: 2011/07 – 2013/11

##### *Peer-reviewed publications*

Carlsson, I., Davidson, P., & Ors, M. (2019). Effects of a daytime nap on primed and repeated remote associates tests and relations with divergent creativity. *Creativity Research Journal*, 31(2), 207-214.

#### **105/10 – “Analgesic properties of computer games”**

Investigadores/Researchers: Stephen Fairclough, Helen Poole

Instituição/Institution: School of Natural Sciences and Psychology, Liverpool John Moores University, Liverpool (UK)

Duração/Duration: 2011/09 – 2013/02

##### *Peer-reviewed publications*

Burns, C. G., & Fairclough, S. H. (2015). Use of auditory event-related potentials to measure immersion during a computer game. *International Journal of Human-Computer Studies*, 73, 107-114. <https://doi.org/10.1016/j.ijhcs.2014.09.002>

Fairclough, S., & Burns, N. (2013). Decomposing immersion: effects of game demand and display type on auditory evoked potentials. In W. E. Mackay, S. Brewster, & S. Bødker (Eds.), *CHI '13 Extended Abstracts on Human Factors in Computing Systems - CHI EA '13* (pp. 1095-1100). New York, NY: ACM Press. <https://doi.org/10.1145/2468356.2468552>

#### **106/10 – “Mapping the psychophysiology of anxiety responses using virtual reality”**

Investigadores/Researchers: Simon Dymond, Philip M. Newton, Bryan Roche

Instituição/Institution: Department of Psychology, Wales Institute of Cognitive Neuroscience, Swansea University, Swansea (UK)

Duração/Duration: 2011/07 – 2014/01

##### *Peer-reviewed publications*

Allcoat, D., Greville, W. J., Newton, P. M., & Dymond, S. (2015). Frozen with fear: Conditioned suppression in a virtual reality model of human anxiety. *Behavioural Processes*, 118, 98-101. <https://doi.org/10.1016/j.beproc.2015.06.011>

Greville, J., Dymond, S., Newton, P., & Roche, B. (2013). Acquired equivalence and generalized suppression in a virtual reality environment. *Learning & Behavior*, 1-8. <https://doi.org/10.3758/s13420-013-0129-3>

Greville, J., Newton, P., Roche, B., & Dymond, S. (2013). Conditioned suppression in a virtual environment. *Computers in Human Behavior*, 29(3), 552-558. <https://doi.org/10.1016/j.chb.2012.11.016>

**119/10 – “Psychophysiological indicators of stress reactivity and disease adaptation: Attachment styles, coping and emotions regulation / Indicadores psicofisiológicos da reatividade ao stress e adaptação à doença: Estilos de vinculação, coping e regulação emocional”**

Investigadores/Researchers: Sílvia Raquel Soares Ouakinin, Luísa Maria Vaqueiro Lopes, Susana Filipa Gonçalves Eusébio, Luísa Maria Vaqueiro Lopes, Marco Alberto Vicente Barreto Torrado, Isabel Maria Rolão Nabais, Graça Maria Vilhena da Cruz Gonçalves Costa Diogo

Instituição/Institution: Centro Multidisciplinar de Psicopatologia Barahona Fernandes, Faculdade de Medicina da Universidade de Lisboa (Portugal)

Duração/Duration: 2011/03 – 2015/09

*Peer-reviewed publications*

Ouakinin, S., Eusébio, S., Torrado, M., Silva, H., Nabais, I., Gonçalves, G., & Bacelar-Nicolau, L. (2015). Stress reactivity, distress and attachment in newly diagnosed breast cancer patients. *Health Psychology and Behavioral Medicine*, 3(1), 424-438. <https://doi.org/10.1080/21642850.2015.1121491>

Sousa, V. C., Vital, J., Costenla, A. R., Batalha, V. L., Sebastião, A. M., Ribeiro, J. A., & Lopes, L. V. (2014). Maternal separation impairs long term-potential in CA1-CA3 synapses and hippocampal-dependent memory in old rats. *Neurobiology of Aging*, 35(7), 1680-1685. <https://doi.org/10.1016/j.neurobiolaging.2014.01.024>

Eusébio, S., & Ouakinin, S. (2013). Da vinculação à saúde na idade adulta. *Revista Portuguesa de Psicossomática*, Vol. II – Online

Eusébio, S. (2013). Evaluation of stress reactivity and coping in breast cancer patients. *Psychotherapy and Psychosomatics*, 82(Suppl 1), 29. <https://doi.org/10.1159/000354142>

Ouakinin, S., Eusébio, S., Torrado, M., Gonçalves, G., Nabais, I., & Lopes, L. (2013). Can stress vulnerability predict patients reactivity to breast cancer diagnosis? *Psychotherapy and Psychosomatics*, 82(Suppl. 1), 80. <https://doi.org/10.1159/000354142>

Plácido da Silva, H., Fred, A., Eusébio, S., & Ouakinin, S. (2013). Psychophysiological measurements in emotion analysis and research. *Psychotherapy and Psychosomatics*, 82(Suppl 1), 86. <https://doi.org/10.1159/000354142>

**128/10 – “Extending the spiritual healing paradigm to explore distant mental interaction effects with Wiccan healers”**

Investigadores/Researchers: Chris Roe, Charmaine Marie Sonnex

Instituição/Institution: Centre for the Study of Anomalous Psychological Processes (CSAPP), University of Northampton, Psychology Division, Northampton (UK)

Duração/Duration: 2014/10 – 2019/05

*Peer-reviewed publications*

Sonnex, C., Roe, C. A., & Roxburgh, E. C. (2020). Flow, liminality, and eudaimonia: Pagan ritual practice as a gateway to a life with meaning. *Journal of Humanistic Psychology*. <https://doi.org/10.1177/0022167820927577>

Sonnex, C., Roe, C. A., & Roxburgh, E. C. (2020). Testing the pagan prescription: Using a randomized controlled trial to investigate pagan spell-casting as a form of noncontact healing. *The Journal of Alternative and Complementary Medicine*. <https://doi.org/10.1089/acm.2019.0279>

**141/10 – “Pattern classification of emotion-induced physiological changes”**

Investigadores/Researchers: Julia Mossbridge, David Little

Instituição/Institution: Northwestern University Visual Perception, Cognition, and Neuroscience Laboratory, Evanston (USA)

Duração/Duration: 2011/04 – 2015/04

*Peer-reviewed publications*

Mossbridge, J. (2023). Precognition at the boundaries: An empirical review and theoretical discussion. *Journal of Anomalous Experience and Cognition*, 3(1), 5-41. <https://doi.org/10.31156/jaex.24216>

Mossbridge J. (2017). Characteristic alpha reflects Predictive Anticipatory Activity (PAA) in an auditory-visual task. In D. Schmorow & C. Fidopiastis (Eds), *Augmented Cognition*. *Neurocognition and*



*Machine Learning. AC 2017. Lecture Notes in Computer Science* (Vol. 10284, pp. 79-89). Springer, Cham. [https://doi.org/10.1007/978-3-319-58628-1\\_7](https://doi.org/10.1007/978-3-319-58628-1_7)

Mossbridge, J. (2017). Examining the nature of retrocausal effects in biology and psychology. *AIP Conference Proceedings*, 1841, 030004. <https://doi.org/10.1063/1.4982775>

Dalkvist, J., Mossbridge, J., & Westerlund, J. (2014). How to remove the influence of expectations bias in presentimento and similar experiments: A recommended strategy. *Journal of Parapsychology*, 78(1), 80–97.

Mossbridge, J., Tressoldi, P., Utts, J., Ives, J. A., Radin, D., & Jonas, W. B. (2014). Predicting the unpredictable: Critical analysis and practical implications of predictive anticipatory activity. *Frontiers in Human Neuroscience*, 8, 146, 1-10. <https://doi.org/10.3389/fnhum.2014.00146>

Mossbridge, J., Tressoldi, P., & Utts, J. (2012). Predictive physiological anticipation preceding seemingly unpredictable stimuli: A meta-analysis. *Frontiers in Psychology*, 3, 390, 1-18. <https://doi.org/10.3389/fpsyg.2012.00390>

#### **142/10 – “Towards a replicable formula for significant intuitive ability in an applied setting”**

Investigadores/Researchers: James Houran, Rense Lange

Instituição/Institution: Integrated Knowledge Systems, Illinois (USA)

Duração/Duration: 2011/03 – 2012/06

##### *Peer-reviewed publications*

Houran, J., Lynn, S., & Lange, R. (2017). Commentary on Stokes's (2017) Quest for “White Crows” in Spontaneous Cases of Psi. *Australian Journal of Parapsychology*, 17(1), 61-88.

Houran, J., & Lange, R. (2013). Applying the theory of reasoned action to a computerized test of intuition, Part II: Decision-making in a hidden test of psi. *Journal of the Society for Psychical Research*, 77.4(913), 236-251.

Lange, R., Houran, J., & Lange, X. (2013). Applying the theory of reasoned action to a computerized test of intuition: Part I. methodological note. *Journal of the Society for Psychical Research*, 77.3(912), 178-189.

#### **155/10 – “Memory for personal experience and the parietal cortex”**

Investigadores/Researchers: Charlotte Russell, Pareesh Malhotra, Adrian Williams

Instituição/Institution: Centre for Cognition and Neuroimaging, Department of Psychology, Brunel University, Uxbridge (UK)

Duração/Duration: 2011/06 – 2015/09

##### *Peer-reviewed publications*

Russell, C., Davies, S., Li, K., Musil, A. S., Malhotra, P. A., & Williams, A. L. (2019). Self-perspective in episodic memory after parietal damage and in healthy ageing. *Neuropsychologia*, 124, 171-181. <https://doi.org/10.1016/j.neuropsychologia.2018.12.013>

Malhotra, P., Soto, D., Li, K., & Russell, C. (2013). Reward modulates spatial neglect. *Journal of Neurology, Neurosurgery & Psychiatry*, 84(4), 366-369. <https://doi.org/10.1136/jnnp-2012-303169>

#### **157/10 – “Control of cognitive and emotional processing of faces by the frontal theta Rhythm/Controlo do processamento cognitivo e emocional das faces pelo ritmo teta frontal”**

Investigadores/Researchers: Alberto João Rodrigues Leal, Ricardo Jorge de Pina Ramos Machado Lopes, Patrícia Arriaga Ferreira, Francisco Esteves

Instituição/Institution: Centro de Investigação e Intervenção Social, ISCTE-IUL, Lisboa (Portugal)

Duração/Duration: 2011/04 – 2014/10

##### *Peer-reviewed publications*

Leal, A., Lopes, R., Arriaga Ferreira, P., & Esteves, F. (2014). The brain mapping of emotion in human faces: Clinical application in epilepsy. *IEEE International Symposium on Medical Measurements and Applications (MeMeA)*. <https://doi.org/10.1109/MeMeA.2014.6860028>

#### **161/10 – “Investigating the function of synaptic competition in memory formation and mental retardation”**

Investigadores/Researchers: Inbal Israely, Anna Hobbiss, Ana Vaz

Instituição/Institution: Champalimaud Foundation, Lisbon (Portugal)

Duração/Duration: 2011/09 – 2015/09

##### *Peer-reviewed publications*

Argunsah, A. Ö., & Israely, I. (2023). Homosynaptic plasticity induction causes heterosynaptic changes at the unstimulated neighbors in an induction pattern and location-specific manner. *Frontiers in Cellular Neuroscience*, 17, 1253446. <https://doi.org/10.3389/fncel.2023.1253446>

Argunsah, A. Ö., & Israely, I. (2023). The temporal pattern of synaptic activation determines the longevity of structural plasticity at dendritic spines. *iScience*, 26(6), 106835. <https://doi.org/10.1016/j.isci.2023.106835>

Argunsah, A. Ö., Erdil, E., Ghani, M. U., Ramiro-Cortés, Y., Hobbiss, A., Karayannis, T., Çetin, M., Israely, I., & Ünay, D. (2022). An interactive time series image analysis software for dendritic spines. *Scientific Reports*, 12(1), 12405. <https://doi.org/10.1038/s41598-022-16137-y>

Hobbiss, A. F., Ramiro-Cortés, Y., & Israely, I. (2018). Homeostatic plasticity scales dendritic spine volumes and changes the threshold and specificity of hebbian plasticity. *iScience*, 8, 161-174. <https://doi.org/10.1016/j.isci.2018.09.015>

Ramiro-Cortés, Y., Hobbis, A., & Israely, I. (2013). Synaptic competition in structural plasticity and cognitive function. *Philosophical Transactions of the Royal Society B Biological Sciences*, 369(1633): 20130157. <https://doi.org/10.1098/rstb.2013.0157>

Ramiro-Cortés, Y., & Israely, I. (2013). Long lasting protein synthesis- and activity-dependent spine shrinkage and elimination after synaptic depression. *PLoS ONE* 8(8): e71155. <https://doi.org/10.1371/journal.pone.0071155>

### **167/10 – “Elucidating the molecular mechanisms mediating feeding behavior”**

Investigadores/Researchers: Carlos Vidal Ribeiro, Maria Teresa Montez, Laura Belmonte, Samantha Herbert

Instituição/Institution: Champalimaud Foundation, Lisboa (Portugal)

Duração/Duration: 2011/05 – 2014/09

#### *Peer-reviewed publications*

Herbert, S., & Ribeiro, C. (2014). Nutrition: Rejection Is the Fly's Protection. *Current Biology*, 24(7), R278–R280. <https://doi.org/10.1016/j.cub.2014.02.043>

Itskov, P. M., Moreira, J., Vinnik, E., Lopes, G., Safarik, S., Dickinson, M., & Ribeiro, C. (2014). Automated monitoring and quantitative analysis of feeding behaviour in *Drosophila*. *Nature Communications*, 5: 4560. <https://doi.org/10.1038/ncomms5560>

Itskov, P. M., & Ribeiro, C. (2013). The dilemmas of the gourmet fly: the molecular and neuronal mechanisms of feeding and nutrient decision making in *Drosophila*. *Frontiers in Neuroscience*, 7, 12. <https://doi.org/10.3389/fnins.2013.00012>

Piper, M. D., Yang, M., Linford, N. J., Hoddinott, M. P., Hopfen, C., Soultoukis, G., ... Partridge, L. (2013). A holidic medium for *Drosophila melanogaster*. *Nature Methods*, 11(1), 100-105. <https://doi.org/10.1038/nmeth.2731>

### **170/10 – “The role of fusion of multisensory percepts in dynamic facial/body expressions: an fMRI study / A função da integração multisensorial na percepção de expressões faciais e corporais dinâmicas: um estudo em fMRI”**

Investigadores/Researchers: Gina Maria Costa Caetano, Miguel Castelo-Branco, Beatrice de Gelder, Gregor Philipak

Instituição/Institution: Instituto Biomédico de Investigação de Luz e Imagem - IBILI, Faculdade de Medicina, Universidade de Coimbra (Portugal)

Duração/Duration: 2011/04 – 2013/11

#### *Peer-reviewed publications*

Marques, D. R., Gomes, A. A., Clemente, V., Moutinho dos Santos, J., Duarte, I. C., Caetano, G., & Castelo-Branco, M. (2020). The effect of tailored cognitive-behavioral therapy for insomnia on brain's resting-state networks. *Sleep Vigilance*, 4, 29-33. <https://doi.org/10.1007/s41782-020-00086-5>

Marques, D. R., Gomes, A. A., Clemente, V., Duarte, I. C., Caetano, G., & Castelo-Branco, M. (2019). Does cognitive-behavioral therapy for insomnia change the brain? A case series study. *Sleep Vigilance*, 4, 35-42. <https://doi.org/10.1007/s41782-019-00081-5>

Marques, D. R., Gomes, A. A., Caetano, G., & Castelo-Branco, M. (2018). Insomnia disorder and brain's default-mode network. *Current Neurology and Neuroscience Reports*, 18: 45. <https://doi.org/10.1007/s11910-018-0861-3>

Marques, D. R., Gomes, A. A., Clemente, V., dos Santos, J. M., Duarte, I. C., Caetano, G., & Castelo-Branco, M. (2017). Self-referential dysfunction and default-mode hyperactivation in psychophysiological insomnia patients: A case-control fMRI study. *Journal of Psychophysiology*. <https://doi.org/10.1027/0269-8803/a000194>

Marques, D., Gomes, A. A., Clemente, V., dos Santos, J. M., Duarte, I. C., Caetano, G., & Castelo-Branco, M. (2017). Unbalanced resting-state networks activity in psychophysiological insomnia. *Sleep and Biological Rhythms*, 15(2), 167-177. <https://doi.org/10.1007/s41105-017-0096-8>

Almeida, I., Van Asselen, M., & Castelo-Branco, M. (2013). The role of the amygdala and the basal ganglia in visual processing of central vs. peripheral emotional content. *Neuropsychologia*, 51(11), 2120-2129. <https://doi.org/10.1016/j.neuropsychologia.2013.07.007>

**172/10 – “Attitudes sensitivity to context: presence of other and physiological evidences”**

Investigadores/Researchers: Teresa Maria Morais Garcia-Marques, Ricardo Fonseca, Marília Prada, Alexandre Fernandes

Instituição/Institution: Unidade de Investigação em Psicologia Cognitiva, do Desenvolvimento e da Educação (UIPCDE), ISPA - Instituto Universitário, Lisboa (Portugal)

Duração/Duration: 2011/05 – 2015/10

*Peer-reviewed publications*

Garcia-Marques, T., Fonseca, R., & Blascovich, J., (2015). Familiarity challenge and processing of persuasive messages. *Social Cognition*, 33(6), 585-604. <https://doi.org/10.1521/soco.2015.33.6.58>

Garcia-Marques, T., Fernandes, A., Fonseca, R., & Prada, M., (2015). Seeing the big picture: Size perception is more context-sensitive in the presence of others. *PLoS ONE*, 10(11), e0141992. <https://doi.org/10.1371/journal.pone.0141992>

Garcia-Marques, T., Fernandes, A., Fonseca, R., & Prada, M. (2015). Social presence and the composite face effect. *Acta Psychologica*, 158, 61-66. <https://doi.org/10.1016/j.actpsy.2015.04.001>

Fonseca, R., Blascovich, J., & Garcia-Marques, T. (2014). Challenge and threat motivation: Effects on superficial and elaborative information processing. *Frontiers in Psychology*, 5:1170. <https://doi.org/10.3389/fpsyg.2014.01170>

Prada, M., Fonseca, R., Garcia-Marques, T., & Fernandes, A. (2014). Se correr o bicho pega... Normas de avaliação de imagens de animais negativos. *Laboratório de Psicologia*, 12, 41-56. <https://doi.org/10.14417/lp.851>

**176/10 – “Dopaminergic regulation of dietary learning in humans and rodents”**

Investigadores/Researchers: Albino Jorge Carvalho de Sousa Oliveira Maia, Rui M. Costa

Instituição/Institution: Champalimaud Foundation, Lisboa (Portugal)

Duração/Duration: 2011/07 – 2014/07

*Peer-reviewed publications*

Ribeiro, G., Fernandes, A. B., Oliveira, F. P. M., Duarte, J. S., Oliveira, M., Limbert, C., Costa, R. M., Costa, D. C., & Oliveira-Maia, A. J. (2024). Postingestive reward acts through behavioral reinforcement and is conserved in obesity and after bariatric surgery. *PLoS Biology*, 22(12), e3002936. <https://doi.org/10.1371/journal.pbio.3002936>

Ribeiro, G., Torres, S., Fernandes, A. B., Camacho, M., Branco, T. L., Martins, S. S., Raimundo, A., Oliveira-Maia, A. J., & Food Reward in Bariatric Surgery Portuguese Study Group (2022). Enhanced sweet taste perception in obesity: Joint analysis of gustatory data from multiple studies. *Frontiers in Nutrition*, 9, 1028261. <https://doi.org/10.3389/fnut.2022.1028261>

Oliveira-Maia, A. J., & Ribeiro, G. (2021). Sweet taste and obesity. *European Journal of Internal Medicine*, 92, 3–10. <https://doi.org/10.1016/j.ejim.2021.01.023>

Ribeiro, G., Camacho, M., Fernandes, A. B., Cotovio, G., Torres, S., Oliveira-Maia, A., & Food Reward in Bariatric Surgery Portuguese Study Group (2021). Reward-related gustatory and psychometric predictors of weight loss following bariatric surgery: a multicenter cohort study. *The American Journal of Clinical Nutrition*, nqaa349. <https://doi.org/10.1093/ajcn/nqaa349>

Fernandes, A. B., Alves da Silva, J., Almeida, J., Cui, G., Gerfen, C. R., Costa, R. M., & Oliveira-Maia, A. (2020). Postingestive modulation of food seeking depends on vagus-mediated dopamine neuron activity. *Neuron*. <https://doi.org/10.1016/j.neuron.2020.03.009>

Ribeiro, G., Camacho, M., Santos, O., Pontes, C., Torres, S., & Oliveira-Maia, A. (2018). Association between hedonic hunger and body-mass index versus obesity status. *Scientific Reports*, 8: 5857. <https://doi.org/10.1038/s41598-018-23988-x>

Torres, S., Camacho, M., Costa, P., Ribeiro, G., Santos, O., Vieira, F. M., ... Oliveira-Maia, A. (2017). Psychometric properties of the Portuguese version of the Yale Food Addiction Scale. *Eating and Weight Disorders*, 22, 259–267. <https://doi.org/10.1007/s40519-016-0349-6>

Bugalho, P., & Oliveira-Maia, A. J. (2013). Impulse control disorders in Parkinson's disease: crossroads between neurology, psychiatry and neuroscience. *Behavioural Neurology*, 27(4), 547-557. <https://doi.org/10.3233/BEN-129019>

Castro-Rodrigues, P., & Oliveira-Maia, A. J. (2013). Exploring the effects of depression and treatment of depression in reinforcement learning. *Frontiers in Integrative Neuroscience*, 7: 72. <https://doi.org/10.3389/fnint.2013.00072>

#### 178/10 – “Neural mechanisms of social transmission of fear”

Investigadores/Researchers: Marta de Aragão Pacheco Moita, Ana Pereira, Susana Lima

Instituição/Institution: Champalimaud Foundation, Lisboa (Portugal)

Duração/Duration: 2011/10 – 2013/07

*Peer-reviewed publications*

Pereira, A., Cruz, A., Lima, S. & Moita, M. A. (2012). Silence resulting from the cessation of movement signals danger. *Current Biology*, 22(16), R627-R628. <https://doi.org/10.1016/j.cub.2012.06.015>

#### 180/10 – “Neuronal mechanisms underlying sex hormone-dependent switching of sexual receptivity”

Investigadores/Researchers: Kensaku Nomoto, Susana Quelhas Lima

Instituição/Institution: Champalimaud Foundation, Lisboa (Portugal)

Duração/Duration: 2011/05 – 2013/07

*Peer-reviewed publications*

Nomoto, K., & Lima, S. (2015). Enhanced male-evoked responses in the ventromedial hypothalamus of sexually receptive female mice. *Current Biology*, 25(5), 589-594. <https://doi.org/10.1016/j.cub.2014.12.048>

#### 186/10 – “Brain Mechanisms of Placebo Analgesia”

Investigadores/Researchers: Magne Arve Flaten, Per M. Aslaksen, Torgil R. Vangberg, Odd Petter Eldevik, Jan Bergdahl, Sara Vambheim, Just C. Thoner

Instituição/Institution: University of Tromsø and University Hospital of North Norway, Tromsø (Norway)

Duração/Duration: 2011/03 – 2014/01

*Peer-reviewed publications*

Vambheim, S. M., Daniali, H., & Flaten, M. A. (2021). Placebo effects on stress, but not on pain reports. A multi-experiment study. *Frontiers in Psychology*, 12, 2093. <https://doi.org/10.3389/fpsyg.2021.639236>

Flaten, M. A., Bjørkedal, E., Lyby, P. S., Figenschau, Y., & Aslaksen, P. M. (2018). Failure to find a conditioned placebo analgesic response. *Frontiers in Psychology*, 9, 1198. <https://doi.org/10.3389/fpsyg.2018.01198>

Vambheim, S. M., & Øien, R. A. (2017). Sex differences in fear of pain: item-level analysis of the Fear of Pain Questionnaire III. *Journal of Pain Research*, 10, 825-831. <https://doi.org/10.2147/JPR.S128850>

Vambheim, S. M. & Flaten, M. A. (2017). A systematic review of sex differences in the placebo and the nocebo effect. *Journal of Pain Research*, 10, 1831-1839. <https://doi.org/10.2147/JPR.S134745>

Vambheim, S. M., Lyby, P. S., Aslaksen, P. M., Flaten, M. A., Åsli, O., & Martinussen, L. M. (2017). The fear of pain questionnaire III and the fear of pain questionnaire short form: A confirmatory factor analysis. *Journal of Pain Research*, 10, 1871-1878. <https://doi.org/10.2147/JPR.S133032>

Vambheim, S., Lyby, P., Aslaksen, P., Flaten, M., Åsli, O., Bjørkedal, E., & Martinussen, L. M. (2017). Developing a model for measuring fear of pain in Norwegian samples: The Fear of Pain Questionnaire Norway. *Scandinavian Journal of Pain*, 17, 425-430.

Flaten, M.A., Firan, A., & Blumenthal, T.D. (2016). Somatosensory pain is not reliably modulated by weak acoustic stimuli. *International Journal of Psychophysiology*. <https://doi.org/10.1016/j.ijpsycho.2015.12.004>

Flaten, M.A. (2014). Pain related negative emotions and placebo analgesia. In F. Benedetti, P. Enck, E. Frisaldi, M. Schedlowski (Eds.), *Handbook of Experimental Pharmacology* (pp. 81-96). New York, NY: Springer. [https://doi.org/10.1007/978-3-662-44519-8\\_5](https://doi.org/10.1007/978-3-662-44519-8_5)

Colloca, L., Flaten, M., & Meissner, K. (2013). *Placebo and pain: From bench to bedside*. San Diego, CA: Elsevier. <https://doi.org/10.1016/B978-0-12-397928-5.01001-1>

Flaten, M. A. (2013). Placebo responses, antagonistic responses, and homeostasis. In L. Colloca, M. A. Flaten, & K. Meissner (Eds.), *Placebo and pain* (pp. 103-113). San Diego, CA: Academic Press. <https://doi.org/10.1016/B978-0-12-397928-5.00011-8>

Flaten, M. (2013). Nocebo and nocebo effect. In M. Gellman & J. R. Turner (Eds.), *Encyclopedia of Behavioral Medicine* (pp. 1340-1341). New York, NY: Springer. [https://doi.org/10.1007/978-1-4419-1005-9\\_1622](https://doi.org/10.1007/978-1-4419-1005-9_1622)

Flaten, M., & al'Absi, M. (2013). Placebo and placebo effect. In M. Gellman & J. R. Turner (Eds.), *Encyclopedia of Behavioral Medicine* (pp. 1497-1499). New York, NY: Springer. [https://doi.org/10.1007/978-1-4419-1005-9\\_275](https://doi.org/10.1007/978-1-4419-1005-9_275)



Flaten, M. A., Aslaksen, P. M., & Lyby, P. S. (2013). Positive and negative emotions and placebo analgesia. In L. Colloca, M. A. Flaten & K. Meissner (Eds.), *Placebo and pain* (pp. 73-81). San Diego, CA: Academic Press. <https://doi.org/10.1016/B978-0-12-397928-5.00008-8>

Flaten, M. A., Meissner, K., & Colloca, L. (2013). Methodologic aspects of placebo research. In L. Colloca, M. A. Flaten & K. Meissner (Eds.), *Placebo and Pain* (pp. 149-157). San Diego, CA: Academic Press. <https://doi.org/10.1016/B978-0-12-397928-5.00015-5>

Bjørkedal, E. & Flaten, M. A. (2012). Expectations of increased or decreased pain explain the effect of conditioned pain modulation in females. *Journal of Pain Research*, 5, 289-300. <https://doi.org/10.2147/JPR.S33559>

Lyby, P., Forsberg, J. T., Asli, O., & Flaten, M. A. (2012). Induced fear reduces the effectiveness of a placebo intervention on pain. *Pain*, 153(5), 1114-1121. <https://doi.org/10.1016/j.pain.2012.02.042>

Flaten, M. A., & Asli, O. (2012). How fast is fear? Automatic and controlled processing in conditioned fear. *Journal of Psychophysiology*, 26, 20-28. <https://doi.org/10.1027/0269-8803/a000063>

Flaten, M., Aslaksen, P., Lyby, P., & Bjørkedal, E. (2011). The relation of emotions to placebo responses. *Philosophical Transactions of the Royal Society B*, 366, 1818-1827. <https://doi.org/10.1098/rstb.2010.0407>

Lyby, P., Aslaksen, P., & Flaten, M. (2011). Variability in placebo analgesia and the role of fear of pain - an ERP study. *Pain*, 152(10), 2405-2412. <https://doi.org/10.1016/j.pain.2011.07.010>

Meissner, K., Bingel, U., Colloca, L., Wager, T., Watson, A., & Flaten, M. (2011). The placebo effect: advances from different methodological approaches. *Journal of Neuroscience*, 31(45), 16117-16124. <https://doi.org/10.1523/JNEUROSCI.4099-11.2011>

#### **191/10 – “Lucid dream induction by transcranial cortex stimulation: A test of the prefrontal hypothesis of lucid dreaming”**

Investigadores/Researchers: Michael Schredl, Claudia Schilling, Ahmed Karim, Daniel Erlacher, Birgit Schüt  
Instituição/Institution: Central Institute of Mental Health, Mannheim (Germany)

Duração/Duration: 2011/08 – 2012/10

##### *Peer-reviewed publications*

Stumbrys, T., Erlacher, D., & Schredl, M. (2013). Testing the involvement of the prefrontal cortex in lucid dreaming: A tDCS study. *Consciousness and Cognition*, 22(4), 1214-1222. <https://doi.org/10.1016/j.concog.2013.08.005>

#### **193/10 – “Attachment and exceptional experiences amongst twins reporting “exceptional experiences”**

Investigadores/Researchers: Göran Brusewitz, Adrian Parker, Lynn Cherkas

Instituição/Institution: Greenwich University (UK), Department of Psychology, University of Gothenburg (Sweden), Department of Twin Research and Genetic Epidemiology, King's College, London (UK)

Duração/Duration: 2013/10 – 2015/06

##### *Peer-reviewed publications*

Brusewitz, G., & Parker, A. (2024). An experiment with three studies of physiological connectedness amongst twins and its possible relationship to attachment. *Explore*, 20(5), 102982. <https://doi.org/10.1016/j.explore.2024.01.008>

Brusewitz, G., Cherkas, L., Harris, J., & Parker, A. (2013). Exceptional experiences amongst twins. *Journal of the Society for Psychical Research*, 77.4(913), 220-235.

#### **196/10 – “Emotional responses in patients with disconnection of the left and right brain hemispheres”**

Investigadores/Researchers: Lynn Kerlin Paul, Ralph Adolphs, Remya Nair

Instituição/Institution: Caltech Emotion and Social Cognition Laboratory, California Institute of Technology, California (USA)

Duração/Duration: 2011/04 – 2012/01

##### *Peer-reviewed publications*

Brown, W. S., Anderson, L. B., Symington, M. F., & Paul, L. K. (2012). Decision-making in individuals with agenesis of the corpus callosum: expectancy-valence in the Iowa Gambling Task. *Archives of Clinical Neuropsychology*, 27(5), 532-544. <https://doi.org/10.1093/arclin/acs052>

Marco, E. J., Harrell, K. M., Brown, W. S., Hill, S. S., Jeremy, R. J., ..., & Paul, L. K. (2012). Processing speed delays contribute to executive function deficits in individuals with agenesis of the corpus callosum. *Journal of the International Neuropsychological Society*, 18(3), 521-529. <https://doi.org/10.1017/S1355617712000045>

Paul, L. K. (2011). Developmental malformation of the corpus callosum: a review of typical callosal development and examples of developmental disorders with callosal involvement. *Journal of Neurodevelopmental Disorders*, 3(1), 3-27. <https://doi.org/10.1007/s11689-010-9059-y>

Tyszka, J. M., Kennedy, D. P., Adolphs, R., & Paul, L. K. (2011). Intact Bilateral Resting-State Networks in the Absence of the Corpus Callosum. *Journal of Neuroscience*, 31(42), 15154-15162. <https://doi.org/10.1523/JNEUROSCI.1453-11.2011>

**201/10 – “The effects of audience size and audience rating on field random number generator output: A case study of Japanese professional baseball”**

Investigadores/Researchers: Takeshi Shimizu, Masato Ishikawa, Tatsu Hirukawa

Instituição/Institution: Science Communicatoin Laboratory, Meiji University, Tokyo (Japan)

Duração/Duration: 2011/03 – 2012/10

*Peer-reviewed publications*

Shimizu, T., & Ishikawa, M. (2012). Audience size effects in field RNG experiments: The case of Japanese professional baseball games. *Journal of Scientific Exploration*, 26(3), 67-83.

Shimizu, T., & Ishikawa, M. (2012). Examination of retroactive effects in a field RNG experiment using prerecorded files. *Journal of the International Society of Life Information Science*, 30(1), 5-16.

Shimizu, T., & Ishikawa, M. (2012). Field RNG experiments using short movies: An examination of the focused-attention and emotion hypotheses. *Journal of the International Society of Life Information Science*, 30(1), 17-30.

Shimizu, T., & Ishikawa, M. (2012). Reliability of outputs of field random number generator movie experiments. *NeuroQuantology*, 10(3), 389-393.

**215/10 – “Vestibular contributions to self-awareness”**

Investigadores/Researchers: Patrick Haggard, Elisa Raffaella Ferre

Instituição/Institution: Institute of Cognitive Neuroscience, University College London (UK)

Duração/Duration: 2011/03 – 2012/11

*Peer-reviewed publications*

Ferrè, E. R., Bottini, G., Iannetti, G. D., & Haggard, P. (2013). The balance of feelings: Vestibular modulation of bodily sensations. *Cortex*, 49(3), 748-758. <https://doi.org/10.1016/j.cortex.2012.01.012>

Ferrè, E. R., Day, B. L., Bottini, G., & Haggard, P. (2013). How the vestibular system interacts with somatosensory perception: A sham-controlled study with galvanic vestibular stimulation. *Neuroscience Letters*, 550, 35–40. <https://doi.org/10.1016/j.neulet.2013.06.046>

Ferrè, E. R., Vagnoni, E., & Haggard, P. (2013). Vestibular contributions to bodily awareness. *Neuropsychologia*, 51(8), 1445-1452. <https://doi.org/10.1016/j.neuropsychologia.2013.04.006>

Ferrè, E. R., Bottini, G., & Haggard, P. (2012). Vestibular inputs modulate somatosensory cortical processing. *Brain Structure and Function*, 217(4), 859-864. <https://doi.org/10.1007/s00429-012-0404-7>

Ferrè, E. R., Vagnoni, E., & Haggard, P. (2012). Galvanic vestibular stimulation influences randomness of number generation. *Experimental Brain Research*, 224(2), 233-241. <https://doi.org/10.1007/s00221-012-3302-6>

**223/10 – “Exploring the relationship between the synaesthesias and anomalous experiences”**

Investigadores/Researchers: Christine Simmonds-Moore, Carlos S. Alvarado, Nancy Zingrone, Ferrell Carpenter

Instituição/Institution: University of West Georgia (USA)

Duração/Duration: 2011/09 – 2013/05

*Peer-reviewed publications*

Simmonds-Moore, C. (2020). Synesthesia and the perception of unseen realities. *Journal of Humanistic Psychology*. <https://doi.org/10.1177/0022167820918691>

Simmonds-Moore, C. (2016). An interpretative phenomenological analysis exploring synesthesia as an exceptional experience: insights for consciousness and cognition. *Qualitative Research in Psychology*, 13(4), 303-327. <https://doi.org/10.1080/14780887.2016.1205693>

**226/10 – “Brain decoding of spontaneous memory processes”**

Investigadores/Researchers: Pierre Maquet, Christophe Phillips, Jessica Schrouff, Caroline Kussé

Instituição/Institution: Cyclotron Research Centre, University of Liège (Belgium)

Duração/Duration: 2011/06 – 2016/01

*Peer-reviewed publications*

Coppieters 't Wallant, D., Muto, V., Gaggioni, G., Jaspar, M., Chellappa, S. L., Meyer, C., Vandewalle, G., Maquet, P., & Phillips, C. (2016). Automatic artifacts and arousals detection in whole-night sleep EEG

recordings. *Journal of Neuroscience Methods*, 258, 124-133.  
<https://doi.org/10.1016/j.jneumeth.2015.11.005>

Coppieters 't Wallant, D., Maquet, P., & Phillips, C. (2016). Sleep spindles as an electrographic element: Description and automatic detection methods. *Neural plasticity*, 2016, 6783812.  
<https://doi.org/10.1155/2016/6783812>

Meyer, C., Muto, V., Jaspar, M., Kussé, C., Lambot, E., Chellappa, S. L., ..., Vandewalle, G. (2016). Seasonality in human cognitive brain responses. *Proceedings of the National Academy of Sciences of the United States of America*, 113(11), 3066–3071. <https://doi.org/10.1073/pnas.1518129113>

Muto, V., Jaspar, M., Meyer, C., Kussé, C., Chellappa, S. L., Degueldre, C., ... Maquet, P. (2016). Local modulation of human brain responses by circadian rhythmicity and sleep debt. *Science*, 353(6300), 687-690. <https://doi.org/10.1126/science.aad2993>

Schrouff, J., Foster, V., Rangarajan, C., Phillips, C., Mourão-Miranda, C., & Parvizi, J. (2014). Decoding memory processing from electro-corticography in human posteromedial cortex. In *Proceedings 2014 International Workshop on Pattern Recognition in NeuroImaging* (pp. 1-4). IEEE Computer Society Conference Publishing Services. <https://doi.org/10.1109/PRNI.2014.6858543>

Schrouff, J., Cremers, J., Garraux, G., Baldassare, L., Mourão-Miranda, C., & Phillips, C. (2013). Localizing and comparing weight maps generated from linear kernel machine learning models. In *Proceedings 2013 International Workshop on Pattern Recognition in NeuroImaging* (pp. 124-127). IEEE Computer Society Conference Publishing Services. <https://doi.org/10.1109/PRNI.2013.40>

Schrouff, J., Kussé, C., Wehenkel, L., Maquet, P., & Phillips, C. (2012). Decoding semi-constrained brain activity from fMRI using support vector machines and gaussian processes. *PLoS ONE*, 7(4): e35860. <https://doi.org/10.1371/journal.pone.0035860>

Schrouff, J., Kussé, C., Wehenkel, L., Maquet, P., & Phillips, C. (2012). Decoding spontaneous brain activity from fMRI using Gaussian Processes: tracking brain reactivation. In *Proceedings 2012 Second International Workshop on Pattern Recognition in NeuroImaging* (pp. 61-64). IEEE Computer Society Conference Publishing Services. <https://doi.org/10.1109/PRNI.2012.19>

## **227/10 – “Evaluation of alterations of consciousness and the model of pragmatic information in a ganzfeld protocol”**

Investigadores/Researchers: Etzel Cardeña, David Marcusson-Clavertz

Instituição/Institution: CERCAP, Dept. of Psychology, Lund University (Sweden)

Duração/Duration: 2011/04 – 2015/07

### *Peer-reviewed publications*

Cardeña, E., Sparhuber, M., & Marcusson-Clavertz, D. (in press). Hypnosis and ganzfeld experiences: How different are they? *Journal of Anomalous Experience and Cognition*.

Cardeña, E., & Marcusson-Clavertz, D. (2020). Changes in state of consciousness and psi in ganzfeld and hypnosis conditions. *Journal of Parapsychology*, 84(1), 66-84.

Cardeña, E., & Marcusson-Clavertz, D. (2016). The relation of hypnotizability and dissociation to everyday mentation: An experience sampling study. *Psychology of Consciousness: Theory, Research, and Practice*, 3(1), 61-79. <https://doi.org/10.1037/cns0000080>

Marcusson-Clavertz, D., Cardeña, E., & Blair, D. (2016). Daydreaming style moderates the relation between working memory and mind wandering: Integrating two hypotheses. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 42(3), 451-464. <https://doi.org/10.1037/xlm0000180>

## **231/10 – “Toward understanding visual awareness: An intracranial EEG study on transient suppression phenomena of conscious visual perception”**

Investigadores/Researchers: Tonio Ball, Andreas Schulze-Bonhage, Ad Aertsen, Jörn Rickert, Markus Kern

Instituição/Institution: Epilepsy Center, University Hospital, Freiburg (Germany)

Duração/Duration: 2011/06 – 2014/07

### *Peer-reviewed publications*

Kern, M., Schulze-Bonhage, A., & Ball, T. (2021). Blink- and Saccade-related suppression effects in early visual areas of the human brain: Intracranial EEG investigations during natural viewing conditions. *NeuroImage*, 230: 117788. <https://doi.org/10.1016/j.neuroimage.2021.117788>

Kern, M., Aertsen, A., Schulze-Bonhage, A., & Ball, T. (2013). Heart cycle-related effects on event-related potentials, spectral power changes, and connectivity patterns in the human ECoG. *Neuroimage*, 81, 178-190. <https://doi.org/10.1016/j.neuroimage.2013.05.042>



## Apoios à Investigação Científica 2012/13 | Grants for Scientific Research 2012/13

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 10/12 – “Enhancing psychokinesis task performance through the practice of imagery strategies: New psychophysiological approach (stage 2)”

Investigadores/Researchers: Alejandro Parra, Juan Corbetta

Instituição/Institution: Instituto de Psicología Paranormal, Asoc. Civil, Buenos Aires (Argentina)

Duração/Duration: 2013/02 – 2015/02

Peer-reviewed publications

Parra, A., & Argibay, J. C. (2013). Psi and death of the person-target: An experiment with highly emotional iconic representations. *NeuroQuantology*, 11(4), 537-543.

### 21/12 – “The depersonalized brain: Psychophysiological correlates of cortical hyperexcitability associated with signs of depersonalization, derealization and dissociation, in non-clinical samples”

Investigador/Researcher: Jason John Braithwaite

Instituição/Institution: Behavioural Brain Sciences Centre, School of Psychology, University of Birmingham (UK)

Duração/Duration: 2013/06 – 2015/09

Peer-reviewed publications

Braithwaite, J. J., Marchant, R., Takahashi, C., Dewe, H., & Watson, D. (2015). The Cortical Hyperexcitability Index (CHI): a new measure for quantifying correlates of visually driven cortical hyperexcitability. *Cognitive Neuropsychiatry*, 20(4), 330-348.  
<https://doi.org/10.1080/13546805.2015.1040152>

Braithwaite, J. J., Mevorach, C., & Takahashi, C. (2015). Stimulating the aberrant brain: Evidence for increased cortical hyperexcitability from a transcranial direct current stimulation (tDCS) study of individuals predisposed to anomalous perceptions. *Cortex*, 69, 1–13. <https://doi.org/10.1016/j.cortex.2015.03.023>

### 28/12 – “A test of thermodynamic entropy effects in anomalous cognition”

Investigadores/Researchers: Edwin May, Sonali Bhatt Marwaha

Instituição/Institution: Laboratories for Fundamental Research, Palo Alto, California (USA)

Duração/Duration: 2013/03 – 2016/01

Peer-reviewed publications

May, E. C., Hawley, L., Changanti, V., & Ratra, N. (2014). Natural anomalous cognition targets: A fuzzy set application. *Journal of Parapsychology*, 78(2), 195-208.

### 30/12 – “Regularity encoding and deviance detection in the human auditory brainstem”

Investigadores/Researchers: Carles Escera, Katarzyna Żarnowiec, Lilla Náfrádi

Instituição/Institution: Institute for Brain, Cognition and Behavior (IR3C), University of Barcelona (Spain)

Duração/Duration: 2013/07 – 2015/06

Peer-reviewed publications

Gorina-Careta, N., Żarnowiec, K., Costa-Faidella, J., & Escera, C. (2016). Timing predictability enhances regularity encoding in the human subcortical auditory pathway. *Scientific Reports*, 6: 37405.  
<https://doi.org/10.1038/srep37405>



### 38/12 – “Testing a methodological formula for consistent hit rates: Matching psi ability to task difficulty”

Investigadores/Researchers: James Houran, Rense Lange

Instituição/Institution: Integrated Knowledge Systems, Inc., Illinois (USA)

Duração/Duration: 2013/02 – 2014/09

#### Peer-reviewed publications

Houran, J., Lange, R., & Hooper, D. (2018). Cross-examining the case for precognition: Comment on Mossbridge and Radin (2018). *Psychology of Consciousness: Theory, Research, and Practice*, 5(1), 98-109. <https://doi.org/10.1037/cns0000126>

Lange, R., & Houran, J. (2015). "A picture is worth a thousand words:" perceptual-personality profiling via a free-response imagery task. *North American Journal of Psychology*, 17(3), 387-402.

Houran, J. (2013). Anomalous experiences as transliminal drama: The case of Wasney de Almeida. *Australian Journal of Parapsychology*, 13(2), 169-185.

Houran, J., & Lange, R. (2012). Reflections on Paranormal Beliefs as Informed vs. Pseudo Beliefs: Comment on Jinks. *Australian Journal of Parapsychology*, 12(2), 159-167.

### 41/12 – “The body beyond the body”

Investigadores/Researchers: Marcello Costantini, Francesca Ferri

Instituição/Institution: Department of Neuroscience and Imaging, University "G. d'Annunzio", Chieti (Italy)

Duração/Duration: 2013/03 – 2015/01

#### Peer-reviewed publications

Ferri, F., Ambrosini, E., Pinti, P., Merla, A., & Costantini, M. (2017). The role of expectation in multisensory body representation - neural evidence. *European Journal of Neuroscience*, 46(3), 1897-1905. <https://doi.org/10.1111/ejn.13629>

Finotti, G., & Costantini, M. (2016). Multisensory body representation in autoimmune diseases. *Scientific Reports*, 6: 21074. <https://doi.org/10.1038/srep21074>

Ferri, F., Tajadura-Jiménez, A., Väljamäe, A., Vastano, R., & Costantini, M. (2015). Emotion-inducing approaching sounds shape the boundaries of multisensory peripersonal space. *Neuropsychologia*, 70:4 768-75. <https://doi.org/10.1016/j.neuropsychologia.2015.03.001>

Costantini, M. (2014). Body perception, awareness, and illusions. *Wiley Interdisciplinary Reviews: Cognitive Science*, 5(5), 551–560. <https://doi.org/10.1002/wcs.1309>

Costantini, M., Frassinetti, F., Maini, M., Ambrosini, E., Gallese, V., & Sinigaglia, C. (2014). When a laser pen becomes a stick: remapping of space by tool-use observation in hemispatial neglect. *Experimental Brain Research*, 232, 3233–3241. <https://doi.org/10.1007/s00221-014-4012-z>

Ferri, F., Chiarelli, A.M., Merla, A., Gallese, V., & Costantini, M. (2013). The body beyond the body: expectation of a sensory event is enough to induce ownership over a fake hand. *Proceedings of the Royal Society B: Biological Sciences*, 280, 1-7. <https://doi.org/10.1098/rspb.2013.1140>

### 46/12 – “Motivational intensity in the prefrontal cortex”

Investigadores/Researchers: Stephen Fairclough, Christopher Burns

Instituição/Institution: School of Natural Sciences and Psychology, Liverpool John Moores University (UK)

Duração/Duration: 2013/03 – 2014/07

#### Peer-reviewed publications

Fairclough, S., Burns, C., & Kreplin, U. (2018). FNIRS activity in the prefrontal cortex and motivational intensity: impact of working memory load, financial reward, and correlation-based signal improvement. *Neurophoton*, 5(3), 035001. <https://doi.org/10.1117/1.NPh.5.3.035001>

### 51/12 – “The interpretation and evaluation of meaningful coincidences suggestive of psi communication in everyday life”

Investigadores/Researchers: Robin Wooffitt, Germaine Gunther

Instituição/Institution: Anomalous Experiences Research Unit, Dep. of Sociology, University of York (UK)

Duração/Duration: 2013/09 – 2018/01

#### Peer-reviewed publications

Stockbridge, G., & Wooffitt, R. (2019). Coincidence by design. *Qualitative Research*, 19(4), 437–454. <https://doi.org/10.1177/1468794118773238>

Wooffitt, R. (2019). Poetic confluence: A sociological analysis of an enigmatic moment. *Psychoanalytic Dialogues*, 29(3), 328–345. <https://doi.org/10.1080/10481885.2019.1614838>

Wooffitt, R. (2018). Poetic confluence and the public formulation of others' private matters. *Sociological Research Online*, 23(3), 687–704. <https://doi.org/10.1177/1360780418778860>

Wooffitt, R. (2018). Shared subjectivities: enigmatic moments and mundane intimacies. *Subjectivity*, 11(1), 40–56. <https://doi.org/10.1057/s41286-017-0041-y>

#### **52/12 – “The embodied experience of time: modulations of mindfulness meditation”**

Investigadores/Researchers: Marc Christoph Wittmann, Karin Meissner, Stefan Schmidt

Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health, Freiburg, Institute of Medical Psychology, University of Munich - LMU (Germany)

Duração/Duration: 2013/05 – 2015/01

##### *Peer-reviewed publications*

Wittmann, M. (2020). Altered states of conscious self and time during meditation. *International Journal for the Study of Chan Buddhism and Human Civilization*, 7, 27-39.

Otten, S., Schötz, E., Wittmann, M., Kohls, N., Schmidt, S., & Meissner, K. (2015). Psychophysiology of duration estimation in experienced mindfulness meditators and matched controls. *Frontiers in Psychology*, 6: 1215. <https://doi.org/10.3389/fpsyg.2015.01215>

Schötz, E., Otten, S., Wittmann, M., Schmidt, S., Kohls, N., & Meissner, K. (2015). Time perception, mindfulness and attentional capacities in transcendental meditators and matched controls. *Personality and Individual Differences*. <https://doi.org/10.1016/j.paid.2015.10.023>

Wittmann, M. (2015). Modulations of the experience of self and time. *Consciousness and Cognition*, 38, 172–181. <https://doi.org/10.1016/j.concog.2015.06.008>

Wittmann, M., Otten, S., Schötz, E., Sarikaya, A., Lehnen, H., Jo, H. -G., Kohls, N., Schmidt, S., & Meissner, K. (2015) Subjective expansion of extended time-spans in experienced meditators. *Frontiers in Psychology*, 5: 1586. <https://doi.org/10.3389/fpsyg.2014.01586>

Jo, H. -G., Wittmann, M., Hinterberger, T., & Schmidt, S. (2014). The readiness potential reflects intentional binding. *Frontiers in Human Neuroscience*, 8: 421. <https://doi.org/10.3389/fnhum.2014.00421>

#### **53/12 – “Libet revisited - The effects of mindfulness meditation training on voluntary action and on time perception: a controlled study with experienced meditators”**

Investigadores/Researchers: Stefan Schmidt, Han-Gue Jo, Marc Christoph Wittmann

Instituição/Institution: Dep. of Psychosomatic Medicine, University Medical Center Freiburg (Germany)

Duração/Duration: 2013/05 – 2015/03

##### *Peer-reviewed publications*

Jo, H.-G., Hinterberger, T., Wittmann, M., & Schmidt, S. (2016). Rolandic beta-band activity correlates with decision time to move. *Neuroscience Letters*, 616, 119–124. <https://doi.org/10.1016/j.neulet.2016.01.051>

Jo, H. -G., Hinterberger, T., Wittmann, M., & Schmidt, S. (2015). Do meditators have higher awareness of their intentions to act? *Cortex*, 65, 149–158. <https://doi.org/10.1016/j.cortex.2014.12.015>

Jo, H. -G., Wittmann, M., Hinterberger, T., & Schmidt, S. (2014). The readiness potential reflects intentional binding. *Frontiers in Human Neuroscience*, 8: 421. <https://doi.org/10.3389/fnhum.2014.00421>

#### **54/12 – “A rasch scaling validation of a core “Near-Death Experience (NDE)””: A critical replication and extension”**

Investigador/Researcher: Rense Lange

Instituição/Institution: Integrated Knowledge Systems, Inc., Illinois (USA)

Duração/Duration: 2013/02 – 2014/03

##### *Peer-reviewed publications*

Houran, J., Lange, R., & Greyson, B. (2017). Exploring linguistic patterns in NDE accounts. *Journal of the Society for Psychological Research*, 81(4), 228-240.

Lange, R., Greyson, B., & Houran, J. (2015). Using Computational Linguistics to Understand Near-Death Experiences: Concurrent Validity for the Near-Death Experience Scale. *Psychology of Consciousness: Theory, Research, and Practice*, 19. <https://doi.org/10.1037/cns0000040>

#### **56/12 – “Psychophysical interactions with a single-photon double-slit optical system”**

Investigadores/Researchers: Dean Radin, Arnaud Delorme, Leena Michel

Instituição/Institution: Institute of Noetic Sciences, Petaluma (USA)

Duração/Duration: 2013/06 – 2015/02

##### *Peer-reviewed publications*

Radin, D., Wahbeh, H., Michel, L., & Delorme, A. (2021). Psychophysical interactions with a double-slit interference pattern: Exploratory evidence of a causal influence. *Physics Essays*, 34(1), 79-88. <https://doi.org/10.4006/0836-1398-34.1.79>

Radin, D., Michel, L., Pierce, A., & Delorme, A. (2015). Psychophysical interactions with a single-photon double-slit optical system. *Quantum Biosystems*, 6(1), 82-98.

**57/12 – “Neurophysiological mechanisms of aging: Novel view of old concepts”**

Investigadores/Researchers: Maria José de Oliveira Diógenes Nogueira, Alexandre de Mendonça, Antonina Pereira, Bruno Teixeira da Silva, Raquel Dias

Instituição/Institution: Instituto de Medicina Molecular, Lisboa (Portugal)

Duração/Duration: 2014/03 – 2017/01

*Peer-reviewed publications*

Pinto, J., Vale, R., Batalha, V. L., Costenla, A. R., Dias, R., Rombo, D., Sebastião, A., de Mendonça, A., & Diógenes, M. J. (2017). Enhanced LTP in aged rats: Detrimental or compensatory? *Neuropharmacology*, 114, 12–19. <https://doi.org/10.1016/j.neuropharm.2016.11.017>

**60/12 – “To see or not to see? Hallucinations in multidisciplinary perspective”**

Investigadores/Researchers: Mattia Riccardi, Frank Larøi, Sofia Miguens, Tommaso Piazza, Ana Pinheiro, João Pinto, Manuela Teles, Charles Travis

Instituição/Institution: Instituto de Filosofia, Faculdade de Letras da Universidade do Porto - FLUP (Portugal)

Duração/Duration: 2013/09 – 2015/07

*Peer-reviewed publications*

Riccardi, M. (2019). Perceptual presence: An attentional account. *Synthese*, 196(7), 2907-2926. <https://doi.org/10.1007/s11229-017-1588-4>

Piazza, T. (2016). Counterfeiting perceptual experience: Scepticism, internalism, and the disjunctive conception of experience. *Journal of Consciousness Studies. Special Issue on Hallucinations*, 23(7-8), 100-131.

Riccardi, M., & Larøi, F. (2016). Editorial Introduction. *Journal of Consciousness Studies. Special Issue on Hallucinations*, 23(7-8), 9-22.

**63/12 – “Forefeeling guilty knowledge - An innovative approach in presentiment research”**

Investigadores/Researchers: Wolfgang Ambach, Alexander Siller

Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health (IGPP), Freiburg (Germany)

Duração/Duration: 2013/03 – 2016/02

*Peer-reviewed publications*

Siller, A., Ambach, W., & Vaitl, D. (2015). Investigating expectation effects using multiple physiological measures. *Frontiers in Psychology*, 6:1553. <https://doi.org/10.3389/fpsyg.2015.01553>

**64/12 – “Hematological and psychophysiological correlates of anomalous information reception in mediums”**

Investigadores/Researchers: Julie Beischel, Shawn Tassone, Mark Boccuzzi

Instituição/Institution: The Windbridge Institute for Applied Research in Human Potential, Tucson (USA)

Duração/Duration: 2013/05 – 2015/06

*Peer-reviewed publications*

Beischel, J., Tassone, S., & Boccuzzi, M. (2019). Hematological and psychophysiological correlates of anomalous information reception in mediums: A preliminary exploration. *EXPLORE: The Journal of Science & Healing*, 15(2), 126-133. <https://doi.org/10.1016/j.explore.2018.04.009>

**66/12 – “Body and soul: A computational neurophysiological and qualitative investigation of Ganzfeld-induced imagery”**

Investigadores/Researchers: Alexander Sumich, Daniel Wilson, Nicholas Blagden

Instituição/Institution: Nottingham Trent University (NTU), Division of Psychology (UK)

Duração/Duration: 2013/04 – 2017/09

*Peer-reviewed publications*

Zandbagleh, A., Mirzakuchaki, S., Daliri, M. R., Sumich, A., Anderson, J. D., & Sanei, S. (2023). Graph-based analysis of EEG for schizotypy classification applying flicker Ganzfeld stimulation. *Schizophrenia*, 9(1), 64. <https://doi.org/10.1038/s41537-023-00395-4>

Sumich, A., Anderson, J. D., Howard, C. J., Heym, N., Castro, A., Baker, J., & Belmonte, M. K. (2018). Reduction in lower-alpha power during Ganzfeld flicker stimulation is associated with the production of imagery and trait positive schizotypy. *Neuropsychologia*, 121, 79-87. <https://doi.org/10.1016/j.neuropsychologia.2018.11.004>

## 72/12 – “The psychophysiology of human attachment and stress”

Investigadores/Researchers: Angela Clow, Lisa Thorn, Andrea Oskis, Nina Smyth

Instituição/Institution: Department of Psychology, University of Westminster, London (UK)

Duração/Duration: 2013/10 – 2015/09

### Peer-reviewed publications

Oskis, A., Smyth, N., Flynn, M., & Clow, A. (2019). Repressors exhibit lower cortisol reactivity to group psychosocial stress. *Psychoneuroendocrinology*, 103, 33-40. <https://doi.org/10.1016/j.psyneuen.2018.12.220>

Wood, C. J., Clow, A., Hucklebridge, F., Law, R., & Smyth, N. (2018). Physical fitness and prior physical activity are both associated with less cortisol secretion during psychosocial stress. *Anxiety, Stress, & Coping*, 31(2), 135-145. <https://doi.org/10.1080/10615806.2017.1390083>

Ramachandran, N., Smyth, N., Thorn, L., Eardley, A., Evans, P., & Clow, A. (2016). Relationship between post-awakening salivary cortisol and melatonin secretion in healthy participants. *Stress: The International Journal on the Biology of Stress*. <https://doi.org/10.3109/10253890.2016.1146671>

Smyth, N., Thorn, L., Hucklebridge, F., Clow, A., & Evans, P. (2016). Assessment of the cortisol awakening response: Real-time analysis and curvilinear effects of sample timing inaccuracy. *Psychoneuroendocrinology*, 74, 380-386. <https://doi.org/10.1016/j.psyneuen.2016.09.026>

Smyth, N., Thorn, L., Oskis, A., Hucklebridge, F., Evans, P., & Clow, A. (2015). Anxious attachment style predicts an enhanced cortisol response to group psychosocial stress. *Stress*. <https://doi.org/10.3109/10253890.2015.1021676>

## 74/12 – “Mechanisms of self-other distinction in mirror-touch synaesthesia”

Investigadores/Researchers: Michael Joseph Banissy, James Moore

Instituição/Institution: Department of Psychology, Goldsmiths University of London (UK)

Duração/Duration: 2013/10 – 2016/04

### Peer-reviewed publications

Rigato, S., Banissy, M. J., Romanska, A., Thomas, R., van Velzen, J., & Bremner, A. (2019). Cortical signatures of vicarious tactile experience in four-month-old human infants. *Current Biology. Developmental Cognitive Neuroscience*, 35, 75-80. <https://doi.org/10.1016/j.dcn.2017.09.003>

Cioffi, M.C., Cocchini, G., Banissy, M. J., & Moore, J. W. (2017). Ageing and agency: age-related changes in susceptibility to illusory experiences of control. *Royal Society Open Science*, 4(5): 161065. <https://doi.org/10.1098/rsos.161065>

Grice-Jackson, T., Critchley, H. D., Banissy, M. J., & Ward, J. (2017). Common and distinct neural mechanisms associated with the conscious experience of vicarious pain. *Cortex*, 94, 152-163. <https://doi.org/10.1016/j.cortex.2017.06.015>

Janik McErlean, A. B., & Banissy, M. J. (2017). Color processing in synesthesia: What synesthesia can and cannot tell us about mechanisms of color processing. *Topics in Cognitive Science*, 9(1), 215-227. <https://doi.org/10.1111/tops.12237>

Janik McErlean, A. B., Susilo, T., Rezlescu, C., Bray, A., & Banissy, M. J. (2016). Social perception in synaesthesia for colour. *Cognitive Neuropsychology*, 33(7-8), 378-387. <https://doi.org/10.1080/02643294.2016.1261820>

Janik, A. B., & Banissy, M. (2016). Examining the relationship between schizotypy and self-reported visual imagery vividness in grapheme-color synaesthesia. *Frontiers in Psychology*, 7: 131. <https://doi.org/10.3389/fpsyg.2016.00131>

Cioffi, M., Banissy, M., & Moore, J. (2015). Am I moving? An illusion of agency and ownership in mirror-touch synaesthesia. *Cognition*, 146, 426-430. <https://doi.org/10.1016/j.cognition.2015.10.020>

Santesteban, I., Bird, G., Tew, O., Cioffi, M., & Banissy, M. J. (2015). Mirror-touch synaesthesia: Difficulties inhibiting the other. *Cortex*, 71, 116-121. <https://doi.org/10.1016/j.cortex.2015.06.019>

Ward, J., & Banissy, M.J. (2015). Explaining mirror-touch synesthesia. *Cognitive Neuroscience*, 6, 118-133. <https://doi.org/10.1016/j.cognition.2015.10.020>

Cioffi, M., Moore, J., & Banissy, M. (2014). What can mirror-touch synaesthesia tell us about the sense of agency? *Frontiers in Human Neuroscience*, 8: 256. <https://doi.org/10.3389/fnhum.2014.00256>

Banissy, M., & Ward, J. (2013). Mechanisms of self-other representations and vicarious experiences of touch in mirror-touch synesthesia. *Frontiers in Human Neuroscience*, 7: 112. <https://doi.org/10.3389/fnhum.2013.00112>



#### 77/12 – “Human motor re-learning – The use of sensor information fusion”

Investigadores/Researchers: Sandra Maria Caldas da Silva Mouta, Miguel Velhote Correia, Carolina Vila-Chã, Cláudia Silva, Ana Silva, Carla Borges, António Salazar, Dominic Noy

Instituição/Institution: INESC - Porto (Portugal)

Duração/Duration: 2013/06 – 2015/09

##### *Peer-reviewed publications*

Quesque, F., Ruggiero, G., Mouta, S., Santos, J., Iachini, T., & Coello, Y. (2017). Keeping you at arm's length: modifying peripersonal space influences interpersonal distance. *Psychological Research*, 81, 709-720. <https://doi.org/10.1007/s00426-016-0782-1>

Silva, R. M., Sousa, E., Fonseca, P., Pinheiro, A. R., Silva, C., Correia, V. M., & Mouta, S. (2016). Analysis and quantification of upper-limb movement in motor rehabilitation after stroke. *Converging Clinical and Engineering Research on Neurorehabilitation II: Proceedings of the 3rd International Conference on NeuroRehabilitation (ICNR2016), October 18-21, 2016, Segovia, Spain* (pp. 209-213). [https://doi.org/10.1007/978-3-319-46669-9\\_37](https://doi.org/10.1007/978-3-319-46669-9_37)

#### 83/12 – “The impact of future relevance on dream content and sleep-dependent memory processing”

Investigadores/Researchers: Erin J. Wamsley, Robert Stickgold, Nam Nguyen

Instituição/Institution: Furman University, Greenville (USA)

Duração/Duration: 2013/05 – 2016/11

##### *Peer-reviewed publications*

Wamsley, E. J. (2022) Constructive episodic simulation in dreams. *PLoS ONE*, 17(3), e0264574. <https://doi.org/10.1371/journal.pone.0264574>

Wamsley, E. (2019). Memory consolidation during waking rest. *Trends in Cognitive Sciences*, 23(3), 171-173. <https://doi.org/10.1016/j.tics.2018.12.007>

Wamsley, E., Hamilton, K., Graveline, Y., Manceor, S., & Parr, E. (2016). Test expectation enhances memory consolidation across both sleep and wake. *PLoS ONE*, 11(10): e0165141. <https://doi.org/10.1371/journal.pone.0165141>

Wamsley, E. J. (2014). Dreaming and offline memory consolidation. *Current Neurology and Neuroscience Reports*, 14(3): 433. <https://doi.org/10.1007/s11910-013-0433-5>

#### 84/12 – “Neural bases of time processing: combining neuroimaging techniques and clinical evidence”

Investigadores/Researchers: Patrizia Bisiacchi, Gianna Maria Toffolo, Vincenza Tarantino, Elias Casula, Giovanni Mento, Demis Basso

Instituição/Institution: Dipartimento di Psicologia Generale, Università di Padova (Italy)

Duração/Duration: 2013/03 – 2016/04

##### *Peer-reviewed publications*

Casula, E. P., Bertoldo, A., Tarantino, V., Maiella, M., Koch, G., Rothwell, J. C., Toffolo, G. M., & Bisiacchi, P. S. (2017). TMS-evoked long-lasting artefacts: A new adaptive algorithm for EEG signal correction. *Clinical Neurophysiology*, 128(9), 1563-1574. <https://doi.org/10.1016/j.clinph.2017.06.003>

Cavazzana, A., Begliomini, C., & Bisiacchi, P. S. (2017). Intentional binding as a marker of agency across the lifespan. *Consciousness and Cognition*, 52, 104-114. <https://doi.org/10.1016/j.concog.2017.04.016>

Cappon, D., D'Ostilio, K., Garraux, G., Rothwell, J. C., & Bisiacchi, P. (2016). Effects of 10Hz and 20Hz transcranial alternating current stimulation on automatic motor control. *Brain stimulation*, 9(4), 518-524. <https://doi.org/10.1016/j.brs.2016.01.001>

Cappon, D., Jahanshahi, M., & Bisiacchi, P. (2016). Value and Efficacy of Transcranial Direct Current Stimulation in the Cognitive Rehabilitation: A Critical Review Since 2000. *Frontiers in Neuroscience*, 10, 157. <https://doi.org/10.3389/fnins.2016.00157>

Cona, G., Bisiacchi, P., Scarpazza, C., & Sartori, G. (2016). Effects of cue focality on the neural mechanisms of prospective memory: A meta-analysis of neuroimaging studies. *Scientific Reports*, 6, 25983. <https://doi.org/10.1038/srep25983>

Mioni, G., Grassi, M., Tarantino, V., Stablum, F., Grondin, S., & Bisiacchi, P. S. (2016). The impact of a concurrent motor task on auditory and visual temporal discrimination tasks. *Attention, Perception, & Psychophysics*, 78(3), 742-748. <https://doi.org/10.3758/s13414-016-1082-y>

Cappon, D., D'Ostilio, K., Garraux, G., Rothwell, J. C., & Bisiacchi, P. (2015). Cortical modulation of automatic facilitation and inhibition by 10hz and 20hz transcranial alternating current stimulation *Brain stimulation*, 8(2), 356-357. <https://doi.org/10.1016/j.brs.2015.01.149>

Cavazzana, A., Penolazzi, B., Begliomini, C., & Bisiacchi, P. (2015). Neural underpinnings of the “agent brain”: new evidence from transcranial direct current stimulation. *European Journal of Neuroscience*, 42(3), 1889–1894. <https://doi.org/10.1111/ejn.12937>

Cona, G., Arcara, G., Tarantino, V., & Bisiacchi, P. (2015). Does predictability matter? Effects of cue predictability on neurocognitive mechanisms underlying prospective memory. *Frontiers in Human Neurosciences*, 9:188. <https://doi.org/10.3389/fnhum.2015.00188>

Cona, G., Kliegel, M., & Bisiacchi, P. (2015). Differential effects of emotional cues on components of prospective memory: An ERP study. *Frontiers in Human Neuroscience*, 9:10. <https://doi.org/10.3389/fnhum.2015.00010>

Cona, G., Scarpazza, C., Sartori, G., Moskovitch, M., & Bisiacchi, P. S. (2015). Neural bases of prospective memory: A meta-analysis and the “Attention to Delayed Intention” (AtoDI) model. *Neuroscience & Biobehavioral Reviews*, 52, 21–37. <https://doi.org/10.1016/j.neubiorev.2015.02.007>

Mento, G., Tarantino, V., Vallesi, A., & Bisiacchi, P. (2015). Spatiotemporal neurodynamics underlying internally and externally driven temporal prediction: A high spatial resolution ERP study. *Journal of Cognitive Neuroscience*, 27(3), 425–439. [https://doi.org/10.1162/jocn\\_a\\_00715](https://doi.org/10.1162/jocn_a_00715)

Bisiacchi, P., Cona, G., Tarantino, V., Schiff, S., Montagnese, S., Amodio, P., & Capizzi, G. (2014). Assessing inter- and intra-individual cognitive variability in patients at risk for cognitive impairment: the case of minimal hepatic encephalopathy. *Metabolic Brain Disease*, 29(4), 945–953. <https://doi.org/10.1007/s11011-014-9529-0>

Casula, E., Tarantino, V., Basso, D., Arcara, G., Marino, G., Toffolo, G., Rothwell, J. C., & Bisiacchi, P. (2014). Low-frequency rTMS inhibitory effects in the primary motor cortex: Insights from TMS-evoked potentials. *NeuroImage*, 98, 225–232. <https://doi.org/10.1016/j.neuroimage.2014.04.065>

Cavazzana, A., Begliomini, C., & Bisiacchi, P. (2014). Intentional binding effect in children: insights from a new paradigm. *Frontiers in Human Neurosciences*, 8:651. <https://doi.org/10.3389/fnhum.2014.00651>

Correa, Á., Cona, G., Arbula, S., Vallesi, A., & Bisiacchi, P. (2014). Neural dissociation of automatic and controlled temporal preparation by transcranial magnetic stimulation. *Neuropsychologia*, 65, 131–136. <https://doi.org/10.1016/j.neuropsychologia.2014.10.023>

## 87/12 – “Neurobiological correlates of empathy in couples: A study of central and peripheral measures”

Investigadores/Researchers: Joana Fernandes Pereira Coutinho, Cledna Patricia de Oliveira Silva, Jean Decety, Kristin Perrone McGovern, Óscar Filipe Coelho Neves Gonçalves, Vânia Andrea Sousa Gonçalves Moreira de Lima

Instituição/Institution: Centro de Investigação em Psicologia, Escola de Psicologia, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2013/05 – 2017/07

### Peer-reviewed publications

Nogueira, M., Magalhães, J. d. S., Sampaio, A., Sousa, S., & Coutinho, J. F. (2025). Examining Insula–Default Mode Network functional connectivity and its relationship with heart rate variability. *Brain Sciences*, 15(1), 37. <https://doi.org/10.3390/brainsci15010037>

Lourenço, V., Serra, J., Coutinho, J., & Pereira, A. F. (2023). Turn-taking in free-play interactions: A cross-sectional study from 3 to 5 years. *Cognition*, 239, 105568. <https://doi.org/10.1016/j.cognition.2023.105568>

Oliveira-Silva, P., Maia, L., Coutinho, J., Moreno, A. F., Penalba, L., Frank, B., Soares, J. M., Sampaio, A., & Gonçalves, Ó. F. (2023). Nodes of the default mode network implicated in the quality of empathic responses: A clinical perspective of the empathic response. *International Journal of Clinical and Health Psychology*, 23(1), 100319. <https://doi.org/10.1016/j.ijchp.2022.100319>

Coutinho, J., Pereira, A., Oliveira-Silva, P., Meier, D., Lourenço, V., & Tschacher, W. (2021). When our hearts beat together: Cardiac synchrony as an entry point to understand dyadic co-regulation in couples. *Psychophysiology*, 58(3): e13739. <https://doi.org/10.1111/psyp.13739>

Lourenço, V., Coutinho, J., & Pereira, A. F. (2021). Advances in microanalysis: Magnifying the social microscope on mother-infant interactions. *Infant Behavior and Development*, 64: 101571. <https://doi.org/10.1016/j.infbeh.2021.101571>

Lourenço, V., Pereira, A. F., Sampaio, A., & Coutinho, J. (2021). Turn-taking in object-oriented and face-to-face interactions: A longitudinal study at 7 and 12 months. *Psychology & Neuroscience*, 15(4), 304–319. <https://doi.org/10.1037/pne0000276>

Esménio, S., Soares, J. M., Oliveira-Silva, P., Gonçalves, Ó. F., Friston, K., & Coutinho, J. F. (2020). Changes in the effective connectivity of the social brain when making inferences about close others vs. the self. *Frontiers in Human Neurosciences*, 14: 151. <https://doi.org/10.3389/fnhum.2020.00151>

- Esménio, S., Soares, J. M., Oliveira-Silva, P., Gonçalves, O. F., Decety, J., & Coutinho, J. (2019). Brain circuits involved in understanding our own and other's internal states in the context of romantic relationships. *Social Neuroscience*, 14(6), 729-738. <https://doi.org/10.1080/17470919.2019.1586758>
- Esménio, S., Soares, J. M., Oliveira-Silva, P., Zeidman, P., Razi, A., Gonçalves, O. F., Friston, K., & Coutinho, J. (2019). Using resting-state DMN effective connectivity to characterize the neurofunctional architecture of empathy. *Scientific Reports*, 9: 2603. <https://doi.org/10.1038/s41598-019-38801-6>
- Coutinho, J., Oliveira-Silva, P., Fernandes, E., Gonçalves, O. F., Correia, D., Mc-Govern, K. P., & Tschacher W. (2018). Psychophysiological synchrony during verbal interaction in romantic relationships. *Family Process*. <https://doi.org/10.1111/famp.12371>
- Queirós, A., Fernandes, E., Reniers, R., Sampaio, A., Coutinho, J., & Seara-Cardoso, A. (2018). Psychometric properties of the questionnaire of cognitive and affective empathy in a Portuguese sample. *PLoS ONE*, 13(6): e0197755. <https://doi.org/10.1371/journal.pone.0197755>
- Oliveira-Silva, P., Maia, L., Coutinho, J., Frank, B., Soares, J. M., Sampaio, A., & Gonçalves, Ó. F. (2018). Empathy by default: Correlates in the brain at rest. *Psicothema*, 30(1), 97-103. <https://doi.org/10.7334/psicothema2016.366>
- Coutinho, J., Perrone-McGovern, K.M., & Gonçalves, O. F. (2017). The Use of Neuroimaging Methodology in Counselling Psychology Research: Promises, Pitfalls, and Recommendations. *Canadian Journal of Counselling and Psychotherapy*, 51(4), 327–348
- Coutinho, J., Oliveira-Silva, P., Mesquita, A., Barbosa, M., Perrone-McGovern, K., & Gonçalves, O. F., (2017). Psychophysiological reactivity in couples during a marital interaction task. *Applied Psychophysiology and Biofeedback*. <https://doi.org/10.1007/s10484-017-9380-2>
- Coutinho, J., Gonçalves, O. F., Soares, J. M., Marques, P., & Sampaio, A. (2016). Alterations of the default mode network connectivity in obsessive-compulsive personality disorder: A pilot study. *Psychiatry Research: Neuroimaging*, 256, 1-7. <https://doi.org/10.1016/j.psychresns.2016.08.007>
- Coutinho, J., Beiramar, A., Silva, C., Calvo, A., Lima, V., Grace, R., Oliveira-Silva, P., Gonçalves, O., & Sampaio, A. (2015). Evidências de validade da Versão Portuguesa do Índice de Reatividade Interpessoal para Avaliação da Empatia em Casais. *Avaliação Psicológica*, 14(3), 309-317. <https://doi.org/10.15689/ap.2015.1403.02>
- Coutinho, J., Fernandes, S., Soares, J. M., Maia, L., Gonçalves, O. F., & Sampaio A. (2015). Default mode network dissociation in depressive and anxiety states. *Brain Imaging and Behavior*, 10(1), 147-157. <https://doi.org/10.1007/s11682-015-9375-7>
- Coutinho, J., Gonçalves, O. F., Maia, L., Vasconcelos, C., Perrone-McGovern K., Simon-Dack, S., Hernandez, K., Oliveira-Silva, P., Mesquita, A., & Sampaio, A. (2014). Differential activation of the default mode network in jet lagged individuals. *Cronobiology International*, 32(1), 143-149. <https://doi.org/10.3109/07420528.2014.955187>
- Coutinho, J., Silva, P., & Decety, J. (2014). Neurosciences, empathy, and healthy interpersonal relationships: recent findings and implications for counseling. *Journal of Counseling Psychology*, 61(4), 541-548. <https://doi.org/10.1037/cou0000021>
- Gonçalves, O. F., Sampaio, A., Mesquita, A., Petrosyan, A., Pinheiro, A., Carvalho, S., Leite J., Coutinho, J., Osório, A., & Oliveira-Silva, P. (2014). A psicologia como neurociência cognitiva: Implicações para a compreensão dos processos básicos e suas aplicações. *Análise Psicológica*, 32(1), 3-25. <https://doi.org/10.14417/ap.836>

## 89/12 – “Interaction of medial and lateral temporal lobe in memory expression: insights from patient and fMRI data”

Investigadores/Researchers: Ana Luísa Nunes Raposo, José Frederico Henzler Ferreira Marques, José Guilherme Cortez Pimentel

Instituição/Institution: Faculdade de Psicologia, Universidade de Lisboa (Portugal)

Duração/Duration: 2013/04 – 2016/01

### Peer-reviewed publications

Santi, A., Raposo, A. & Marques, J. F. (2015). Superordinate and domain category structure: evidence from typicality ratings. *Revista Portuguesa de Psicologia*, 44, 81-108. [https://doi.org/10.21631/rpp44\\_81](https://doi.org/10.21631/rpp44_81)

Alves, M. & Raposo, A. (2014). Is it a bird? Differential effects of concept typicality on semantic memory and episodic recollection. *Revista Portuguesa de Psicologia*, 44, 65-79. [https://doi.org/10.21631/rpp44\\_65](https://doi.org/10.21631/rpp44_65)

### 91/12 – “Psychophysiological studies into task-set inertia in switching paradigms”

Investigadores/Researchers: Lisa Evans, Edward Wilding

Instituição/Institution: School of Psychology, Cardiff University (UK)

Duração/Duration: 2013/04 – 2014/11

#### Peer-reviewed publications

Herron, J., & Evans, L. H. (2018). Preparation breeds success: Brain activity predicts remembering. *Cortex*, 106, 1-11. <https://doi.org/10.1016/j.cortex.2018.04.009>

Evans, L., Herron, J., & Wilding, E. (2015). Direct real-time neural evidence for task-set inertia. *Psychological Science*, 1-7. <https://doi.org/10.1177/0956797614561799>

Evans, L., Williams, A., & Wilding, E. (2015). Electrophysiological evidence for retrieval mode immediately after a task switch. *NeuroImage*, 108, 435-440.

### 94/12 – “Prefrontal electrical stimulation in non-depressed reduces levels of reported negative affects from daily stressors”

Investigadores/Researchers: Frederic Boy, Adelaide Austin

Instituição/Institution: Wales Institute of Cognitive Neuroscience, Department of Psychology, College of Human and Health Sciences, Swansea University and Institute of Life Science (ILS2) – Imaging Centre, College of Medicine (UK)

Duração/Duration: 2014/01 – 2017/05

#### Peer-reviewed publications

Austin, A., Jiga-Boy, G. M., Rea, S., Newstead, S. A., Roderick, S., Davis, N. J., Clement, R. M., & Boy, F. (2016). Prefrontal electrical stimulation in non-depressed reduces levels of reported negative affects from daily stressors. *Frontiers in Psychology*, 7, 315. <https://doi.org/10.3389/fpsyg.2016.00315>

Boy, F., & Sumner, P. (2014). Visibility predicts priming within but not between people: a cautionary tale for studies of cognitive individual differences. *Journal of Experimental Psychology: General*, 143(3), 1011-1025. <https://doi.org/10.1037/a003488>

### 103/12 – “Psychological and psychophysiological factors in sexual desire and behaviour”

Investigadores/Researchers: Rui Miguel dos Santos Amaro da Costa, Tânia F. Oliveira

Instituição/Institution ISPA - Instituto Universitário, Lisboa (Portugal)

Duração/Duration: 2013/04 – 2015/06

#### Peer-reviewed publications

Costa, R. M., Mangia, P., Pestana, J., & Costa, D. (2021). Heart rate variability and erectile function in younger men: A pilot study. *Applied Psychophysiology and Biofeedback*, 46(3), 235-242. <https://doi.org/10.1007/s10484-020-09499-4>

Costa, R. M., Oliveira, G., Pestana, J., Costa, D., & Oliveira, R. F. (2019). Do psychosocial factors moderate the relation between testosterone and female sexual desire? The role of interoception, alexithymia, defense mechanisms, and relationship status. *Adaptive Human Behavior and Physiology*, 5(1), 13-30. <https://doi.org/10.1007/s40750-018-0102-7>

Costa, R. M., Pestana, J., & Costa, D. (2018). Self-transcendence, sexual desire, and sexual frequency. *Journal of Sex and Marital Therapy*, 44(1), 56-60. <https://doi.org/10.1080/0092623X.2017.1314397>

Costa, R. M., Pestana, J., Costa, D., & Wittmann, M. (2017). Women's finger pressure sensitivity at rest and recalled body awareness during partnered sexual activity. *International Journal of Impotence Research*, 29, 157-159. <https://doi.org/10.1038/ijir.2017.13>

Costa, R. M., Oliveira, T. F., Pestana, J., & Costa, D. (2016). Self-transcendence is related to higher female sexual desire. *Personality and Individual Differences*, 96, 191-197. <https://doi.org/10.1016/j.paid.2016.02.078>

Costa, R. M., Pestana, J., Costa, D., & Wittmann, M. (2016). Altered states of consciousness are related to higher sexual responsiveness. *Consciousness and Cognition*, 42, 135-141. <https://doi.org/10.1016/j.concog.2016.03.013>

Costa, R. M., & Oliveira, T. (2014). Interoceptive awareness and resting heart rate variability in women. In D. Dumitrascu & W. Soellner (Eds), *Proceedings of EAPM 2014. Annual Meeting of the European Association of Psychosomatic Medicine, Sibiu* (pp. 64-67). Bologna, Italy: Medimond - International Proceedings.



**108/12 – “Clinical parapsychology: Counselling experiences of clients who report anomalous experiences and the training needs of therapists”**

Investigador/Researcher: Elizabeth Roxburgh

Instituição/Institution: Centre for the Study of Anomalous Psychological Processes (CSAPP), Division of Psychology, School of Social Sciences, The University of Northampton (UK)

Duração/Duration: 2013/07 – 2015/10

*Peer-reviewed publications*

Roxburgh, E. C., & Evenden, R. E. (2016). “It’s about having exposure to this”: Investigating the training needs of therapists in relation to the issue of anomalous experiences. *British Journal of Guidance and Counselling*. <https://doi.org/10.1080/03069885.2016.1213375>

Roxburgh, E. C., & Evenden, R. E. (2016). “Most people think you’re a fruit loop”: Clients’ experiences of seeking support for anomalous experiences. *Counselling and Psychotherapy Research*, 16, 211-221. <https://doi.org/10.1002/capr.12077>

Roxburgh, E. C., & Evenden, R. E. (2016). “They daren’t tell people”: Therapists experiences of working with clients who report anomalous experiences [Special Issue: ‘What is paranormal: Some implications for the psychological therapies?’]. *European Journal of Psychotherapy and Counselling*, 18, 123-141. <https://doi.org/10.1080/13642537.2016.1170059>

**112/12 – “Retinotopic reorganization of the auditory cortex of congenitally deaf individuals due to neuroplasticity”**

Investigadores/Researchers: Jorge Manuel Castelo Branco de Albuquerque Almeida, Bradford Zack Mahon, Yanchao Bi, Óscar Filipe Coelho Neves Gonçalves

Instituição/Institution: Faculdade de Psicologia e Ciências da Educação, Universidade de Coimbra (Portugal)

Duração/Duration: 2013/05 – 2015/11

*Peer-reviewed publications*

Almeida, J., Nunes, G., Marques, J. F., & Marques, J. F. (2018). Compensatory plasticity in the congenitally deaf for visual tasks is restricted to the horizontal plane. *Journal of Experimental Psychology: General*, 147(6), 924-932. <https://doi.org/10.1037/xge0000447>

Amaral, L., Ganho, A., Osório, A., He, D., Chen, Q., Mahon, B.Z., Gonçalves, O.F., Sampaio, A., Fang, F., Bi, Y. & Almeida, J. (2016). Hemispheric asymmetries in subcortical visual and auditory relay structures in congenital deafness. *European Journal of Neuroscience*, 44(6), 2334-2339. <https://doi.org/10.1111/ejn.13340>

Striem-Amit, E., Almeida, J., Belledonne, M., Chen, Q., Yuxing, Y., Han, Z., Caramazza, A., & Bi, Y. (2016). Topographical functional connectivity patterns exist in the congenitally, prelingually deaf. *Scientific Reports*, 6: 29375. <https://doi.org/10.1038/srep29375>

Amaral, L. & Almeida, J. (2015). Neuroplasticity in congenital deaf humans. *Revista Portuguesa de Psicologia*, 44, 39-45.

Almeida, J., He, D., Chen, Q., Mahon, B. Z., Zhang, F., Gonçalves, O. F., Fang, F., & Bi, Y. (2015). Decoding visual location from neural patterns in the auditory cortex of the congenitally deaf. *Psychological Science*, 26(11), 1771-1782. <https://doi.org/1177/0956797615598970>

**119/12 – “Dynamic cortical and nucleus accumbens networks in humans: combining intracranial and MEG recordings”**

Investigadores/Researchers: Bryan Strange, Javier J. Gonzalez-Rosa, Juan A. Barcia, Stephan Moratti, Raffael Kaplan, Marijn Kroe

Instituição/Institution: Laboratory for Clinical Neuroscience, Centre for Biomedical Technology (CTB), Technology University of Madrid (UPM) and Fundación para la Investigación Biomédica del Hospital Clínico San Carlos - Universidad Complutense de Madrid. Instituto de Investigación Sanitario IdISSC (Spain)

Duração/Duration: 2013/06 – 2016/10

*Peer-reviewed publications*

Treu, S., Gonzalez-Rosa, J. J., Soto-Leon, V., Lozano-Soldevilla, D., Oliviero, A., Lopez-Sosa, F., ..., Strange, B. A. (2021). A ventromedial prefrontal dysrhythmia in obsessive-compulsive disorder is attenuated by nucleus accumbens deep brain stimulation. *Brain Stimulation*, 14(4), 761-770. <https://doi.org/10.1016/j.brs.2021.04.028>

Méndez-Bértolo, C., Moratti, S., Toledano, R., Lopez-Sosa, F., Martínez-Alvarez, R., ... Strange, B. (2016). A fast pathway for fear in human amygdala. *Nature Neuroscience*. <https://doi.org/10.1038/nn.4324>

Nachev, P., Lopez-Sosa, F., Gonzalez-Rosa, J., Galarza, A., Avecillas, J., ..., Strange, B. (2015). Dynamic risk control by human nucleus accumbens. *Brain*, 138(12), 3496-3502. <https://doi.org/10.1093/brain/awv285>

#### 124/12 – “EEG correlates of mental entanglement at distance”

Investigadores/Researchers: Patrizio Tressoldi, Francesco Salvadori, Patrizio Caini, Simone Melloni, Giorgio Gagliardi, Mirko de Vita, Alessandro Ferrini

Instituição/Institution: Dipartimento di Psicologia Generale, Università di Padova and Laboratorio Interdisciplinare di Ricerca Biopsicocibernetica, Bologna (Italy)

Duração/Duration: 2013/03 – 2016/04

##### Peer-reviewed publications

Giroladini, W., Pederzoli, L., Bilucaglia, M., Melloni, S., & Tressoldi, P. (2016). A new method to detect event-related potentials based on Pearson's correlation. *EURASIP Journal on Bioinformatics and Systems Biology*, 11. <https://doi.org/10.1186/s13637-016-0043-z>

Giroladini, W., Pederzoli, L., Bilucaglia, M., Caini, P., Ferrini, A., Melloni, S., Prati, E., & Tressoldi, P. (2015). EEG correlates of social interaction at distance. *F1000Research*, 4:457. <https://doi.org/10.12688/f1000research.6755.1>

Tressoldi, P., Pederzoli, L., Bilucaglia, M., Caini, P., Fedele, P. ... Accardo, A. (2014). Brain-to-Brain (mind-to-mind) interaction at distance: a confirmatory study [v3; ref status: approved 1, not approved 1, <http://f1000r.es/4ka>]. *F1000Research*, 3:182. <https://doi.org/10.12688/f1000research.4336.3>

#### 127/12 – “An investigation of the I Ching using the Q-Sort method and a PK-RNG design”

Investigador/Researcher: Lance Storm

Instituição/Institution: Brain and Cognition Centre, School of Psychology, University of Adelaide and Australian Institute of Parapsychological Research, Incorporated, Gladesville (Australia)

Duração/Duration: 2013/03 – 2014/06

##### Peer-reviewed publications

Storm, L., & Rock, A. J. (2014). An investigation of the I Ching using the Q-Sort Method and an RNG-PK design: II. The effect of reactance on psi. *Australian Journal of Parapsychology*, 14(2), 163-190.

Storm, L., & Rock, A. J. (2014). An Investigation of the I Ching using the Q-Sort Method and an RNG-PK design: I. Four Possible Psi Predictors. *Australian Journal of Parapsychology*, 14(1), 29-67.

#### 130/12 – “Neural mechanisms of cognitive bias”

Investigadores/Researchers: Rui Filipe Nunes Pais de Oliveira, Ana Félix, Sara Cardoso

Instituição/Institution: ISPA, CRL, Lisboa and Instituto Gulbenkian de Ciência, Oeiras (Portugal)

Duração/Duration: 2013/09 – 2020/11

##### Peer-reviewed publications

Espigares, F., Martins, R. R., & Oliveira, R. F. (2022). A behavioural assay to investigate judgment bias in zebrafish. *Bio-protocol*, 12(4), e4327. <https://doi.org/10.21769/BioProtoc.4327>

Espigares, F., Abad-Tortosa, D., Varela, S. A. M., Ferreira, M. G., & Oliveira, R. F. (2021). Short telomeres drive pessimistic judgement bias in zebrafish. *Biology Letters*, 17(3): 20200745. <https://doi.org/10.1098/rsbl.2020.0745>

#### 132/12 – “A direct test of the binding by synchrony hypothesis in humans: the neural correlates of coherent object perception”

Investigadores/Researchers: Miguel Castelo-Branco, Maria Ribeiro, João Duarte, Gabriel Costa

Instituição/Institution: IBILI, Faculdade de Medicina, Universidade de Coimbra (Portugal)

Duração/Duration: 2013/11 – 2016/01

##### Peer-reviewed publications

Cayolla, R., Biscaia, R., Baumeister, R. F., Chan, H.-Y., Duarte, I. C., & Castelo-Branco, M. (2024). Neural correlates of fanhood: The role of fan identity and team brand strength. *Frontiers in Human Neuroscience*, 17, 1235139. <https://doi.org/10.3389/fnhum.2023.1235139>

Duarte, I. C., Castelhamo, J., Sales, F., & Castelo-Branco, M. (2016). The anterior versus posterior hippocampal oscillations debate in human spatial navigation: evidence from an electrocorticographic case study. *Brain and behavior*, 6(9), e00507. <https://doi.org/10.1002/brb3.507>

Intaite, M., Duarte, J., & Castelo-Branco, M. (2016). Working memory load influences perceptual ambiguity by competing for fronto-parietal attentional resources. *Brain Research*, 1650, 142-151. <https://doi.org/10.1016/j.brainres.2016.08.044>

Santos, S., Almeida, I., Oliveiros, B., & Castelo-Branco, M. (2016). The Role of the Amygdala in Facial Trustworthiness Processing: A Systematic Review and Meta-Analyses of fMRI Studies. *PLoS One*, 11(11), e0167276. <https://doi.org/10.1371/journal.pone.0167276>

Almeida, I., Soares, S., & Castelo-Branco, M. (2015). The distinct role of the amygdala, superior colliculus and pulvinar in processing of central and peripheral snakes. *PLoS One*, 10(6): e0129949. <https://doi.org/10.1371/journal.pone.0129949>

Amaral, C., Simões, M., & Castelo-Branco, M. (2015). Neural signals evoked by stimuli of increasing social scene complexity are detectable at the single-trial level and right lateralized. *PLoS ONE*, 10(3): e0121970. <https://doi.org/10.1371/journal.pone.0121970>

Banca, P., Sousa, T., Catarina Duarte, I., & Castelo-Branco, M. (2015). Visual motion imagery neurofeedback based on the hMT+/V5 complex: evidence for a feedback-specific neural circuit involving neocortical and cerebellar regions. *Journal of Neural Engineering*, 12(6):066003. <https://doi.org/10.1088/1741-2560/12/6/066003>

Banca, P., Voon, V., Vestergaard, M., Philippiak, G., Almeida, I., Pocinho, F., Relvas, J., & Castelo-Branco, M. (2015). Imbalance in habitual versus goal directed neural systems during symptom provocation in obsessive-compulsive disorder. *Brain*, 138(Pt 3), 798-811. <https://doi.org/10.1093/brain/awu379>

Castelhano, J., Bernardino, I., Rebola, J., Rodriguez, E. & Castelo-Branco, M. (2015). Oscillations or synchrony? Disruption of neural synchrony despite enhanced gamma oscillations in a model of disrupted perceptual coherence. *Journal of Cognitive Neuroscience*, 27(12), 2416-2426. <https://doi.org/10.1162/jocn.a.00863>

Castelhano, J., Duarte, I. C., Wibrall, M., Rodriguez, E., & Castelo-Branco, M. (2014). The dual facet of gamma oscillations: separate visual and decision making circuits as revealed by simultaneous EEG/fMRI. *Human Brain Mapping*, 35(10), 5219-5235. <https://doi.org/10.1002/hbm.22545>

Duarte, I. C., Ferreira, C., Marques, J., & Castelo-Branco, M. (2014). Anterior/posterior competitive deactivation/activation dichotomy in the human hippocampus as revealed by a 3D navigation task. *PLoS ONE*, 9(1): e86213. <https://doi.org/10.1371/journal.pone.0086213>

Intaité, M., Koivisto, M., & Castelo-Branco, M. (2014). Event-related potential responses to perceptual reversals are modulated by working memory load. *Neuropsychologia*, 56, 428-438. <https://doi.org/10.1016/j.neuropsychologia.2014.02.016>

Intaite, M., Koivisto, M., Castelo-Branco, M. (2014). The linear impact of concurrent working memory load on dynamics of Necker cube perceptual reversals. *Journal of Vision*, 14(1), pii: 13. <https://doi.org/10.1167/14.1.13>

Teixeira, M., Pires, G., Raimundo, M., Nascimento, S., Almeida, V., & Castelo-Branco, M. (2014). Robust single trial identification of conscious percepts triggered by sensory events of variable saliency. *PLoS One*, 9(1): e86201. <https://doi.org/10.1371/journal.pone.0086201>

Castelhano, J., Rebola, J., Leitão, B., Rodriguez, E., & Castelo-Branco, M. (2013). To perceive or not perceive: The role of gamma-band activity in signaling object percepts. *PloS one*, 8(6), e66363. <https://doi.org/10.1371/journal.pone.0066363>

### **133/12 – “The role of the core and extended face networks in visual perception and high level social cognition”**

Investigadores/Researchers: Miguel Castelo-Branco, Marco Simões, Carlos Amaral, Gregor Philippiak, José Rebola, João Castelhano

Instituição/Institution: IBILI, Faculdade de Medicina, Universidade de Coimbra (Portugal)

Duração/Duration: 2013/11 – 2015/12

#### *Peer-reviewed publications*

Cayolla, R., Biscaia, R., Baumeister, R. F., Chan, H.-Y., Duarte, I. C., & Castelo-Branco, M. (2024). Neural correlates of fanhood: The role of fan identity and team brand strength. *Frontiers in Human Neuroscience*, 17, 1235139. <https://doi.org/10.3389/fnhum.2023.1235139>

Duarte, I. C., Castelhano, J., Sales, F., & Castelo-Branco, M. (2016). The anterior versus posterior hippocampal oscillations debate in human spatial navigation: evidence from an electrocorticographic case study. *Brain and behavior*, 6(9), e00507. <https://doi.org/10.1002/brb3.507>

Intaite, M., Duarte, J., & Castelo-Branco, M. (2016). Working memory load influences perceptual ambiguity by competing for fronto-parietal attentional resources. *Brain Research*, 1650, 142-151. <https://doi.org/10.1016/j.brainres.2016.08.044>

Santos, S., Almeida, I., Oliveiros, B., & Castelo-Branco, M. (2016). The Role of the Amygdala in Facial Trustworthiness Processing: A Systematic Review and Meta-Analyses of fMRI Studies. *PloS one*, 11(11), e0167276. <https://doi.org/10.1371/journal.pone.0167276>

Silva, G., Ribeiro, M. J., Costa, G. N., Violante, I., Ramos, F., Saraiva, J., & Castelo-Branco, M. (2016). Peripheral attentional targets under covert attention lead to paradoxically enhanced alpha desynchronization in neurofibromatosis type 1. *PLoS One*, 11(2): e0148600. <https://doi.org/10.1371/journal.pone.0148600>

Almeida, I., Soares, S., & Castelo-Branco, M. (2015). The distinct role of the amygdala, superior colliculus and pulvinar in processing of central and peripheral snakes. *PLoS One*, 10(6): e0129949. <https://doi.org/10.1371/journal.pone.0129949>

Amaral, C., Simões, M., & Castelo-Branco, M. (2015). Neural signals evoked by stimuli of increasing social scene complexity are detectable at the single-trial level and right lateralized. *PLoS ONE*, 10(3): e0121970. <https://doi.org/10.1371/journal.pone.0121970>

Banca, P., Sousa, T., Catarina Duarte, I., & Castelo-Branco, M. (2015). Visual motion imagery neurofeedback based on the hMT+/V5 complex: evidence for a feedback-specific neural circuit involving neocortical and cerebellar regions. *Journal of Neural Engineering*, 12(6):066003. <https://doi.org/10.1088/1741-2560/12/6/066003>

Banca, P., Voon, V., Vestergaard, M., Philippiak, G., Almeida, I., Pocinho, F., Relvas, J., & Castelo-Branco, M. (2015). Imbalance in habitual versus goal directed neural systems during symptom provocation in obsessive-compulsive disorder. *Brain*, 138(Pt 3), 798-811. <https://doi.org/10.1093/brain/awu379>

Castelhano, J., Bernardino, I., Rebola, J., Rodriguez, E. & Castelo-Branco, M. (2015). Oscillations or synchrony? Disruption of neural synchrony despite enhanced gamma oscillations in a model of disrupted perceptual coherence. *Journal of Cognitive Neuroscience*, 27(12), 2416-2426. [https://doi.org/10.1162/jocn\\_a\\_00863](https://doi.org/10.1162/jocn_a_00863)

Intaite, M., Koivisto, M., Castelo-Branco, M. (2014). The linear impact of concurrent working memory load on dynamics of Necker cube perceptual reversals. *Journal of Vision*, 14(1), pii: 13. <https://doi.org/10.1167/14.1.13>

Bernardino, I., Rebola, J., Farivar, R., Silva, E., & Castelo-Branco, M. (2014). Functional reorganization of the visual dorsal stream as probed by 3-D visual coherence in Williams Syndrome. *Journal of Cognitive Neuroscience*, 26(11), 2624-2636. [https://doi.org/10.1162/jocn\\_a\\_00662](https://doi.org/10.1162/jocn_a_00662)

Castelhano, J., Duarte, I. C., Wibrál, M., Rodriguez, E., & Castelo-Branco, M. (2014). The dual facet of gamma oscillations: separate visual and decision making circuits as revealed by simultaneous EEG/fMRI. *Human Brain Mapping*, 35(10), 5219-5235. <https://doi.org/10.1002/hbm.22545>

Duarte, I. C., Ferreira, C., Marques, J., & Castelo-Branco, M. (2014). Anterior/posterior competitive deactivation/activation dichotomy in the human hippocampus as revealed by a 3D navigation task. *PLoS ONE*, 9(1): e86213. <https://doi.org/10.1371/journal.pone.0086213>

Rebola, J., & Castelo-Branco, M. (2014). Visual areas PPA and pSTS diverge from other processing modules during perceptual closure: functional dichotomies within category selective networks. *Neuropsychologia*, 61, 135-142. <https://doi.org/10.1016/j.neuropsychologia.2014.06.010>

## **157/12 – “Contributions of parent-infant psychophysiology during dyadic interactions to child development”**

Investigadores/Researchers: Raquel Alexandra Gonçalves Costa, Iva Tendais, Ana Conde, Catarina Tojal  
Instituição/Institution: ISLA Campus Lisboa, Laureate International Universities, Lisboa (Portugal)  
Duração/Duration: 2013/10 – 2016/11

### *Peer-reviewed publications*

Costa, R., Pinto, T. M., Conde, A., Mesquita, A., Motrico, E., & Figueiredo, B. (2023). Women's perinatal depression: Anhedonia-related symptoms have increased in the COVID-19 pandemic. *General Hospital Psychiatry*, 84, 102–111. <https://doi.org/10.1016/j.genhosppsych.2023.06.007>

Tojal, C. & Costa, R., (2019). Anxiety and depression symptoms among pregnant women with different smoking habits. *Psychology, Health & Medicine*. <https://doi.org/10.1080/13548506.2019.1634820>

Silva, F., Conde, A., & Costa, R. (2018). Impact of prenatal depressive symptoms on postpartum depressive symptoms: Mediation effect of perinatal health. *Spanish Journal of Psychology*, 21: E28. <https://doi.org/10.1017/sjp.2018.29>

Pereira, S., Costa, R., Tojal, C., & Tendais, I. (2018). Primeiras interações: Um estudo comparativo entre mães e pais. *Arquivos Brasileiros de Psicologia*, 70(1), 98-109.

Pereira, S., Costa, R., Tojal, C., & Tendais, I. (2017). Aspectos psicofisiológicos da interação mãe/pai-bebê. *Análise Psicológica*, 35(4), 453-467. <https://doi.org/10.14417/ap.1271>

Tojal, C., & Costa, R. (2016). Physiologic reactions during mother-infant and father-infant face-to-face interactions. *Proceedings of the 17th European Conference of Developmental Psychology* (S908, p. 45). Bologne, Italy: Medimond – Monduzzi Editore International Proceedings Division.



**158/12 – “Neuroendocrine underpinnings of social bonds to parents and peers in preschool children. Oxytocin and cortisol on adopted children and non-adopted controls”**

Investigadores/Researchers: Nuno Manuel Correia Torres, Manuela Veríssimo, Antonio J. Santos, Jaak Panksepp, Lígia Monteiro, Leandra Marília Marques Coelho

Instituição/Institution: Research Group on Developmental Psychology of UIPCDE (Unidade de Investigação em Psicologia Cognitiva, do Desenvolvimento e da Educação) of ISPA-IU, Lisboa (Portugal) and Department of Veterinary and Comparative Anatomy, Pharmacology, and Physiology, Neuroscience Program. Washington State University (USA)

Duração/Duration: 2013/09 – 2018/10

*Peer-reviewed publications*

Torres, N., Martins, D., Monteiro, L., Santos, A. J., Vaughn, B. E., & Veríssimo, M. (2022). Salivary oxytocin after play with parents predicts behavioural problems in preschool children. *Psychoneuroendocrinology*, 136, 105609. <https://doi.org/10.1016/j.psyneuen.2021.105609>

Torres, N., Martins, D., Santos, A. J., Prata, D., & Veríssimo, M. (2018). How do hypothalamic nonapeptides shape youth's sociality? A systematic review on oxytocin, vasopressin and human socio-emotional development. *Neuroscience & Biobehavioral Reviews*, 90, 309-331. <https://doi.org/10.1016/j.neubiorev.2018.05.004>

**167/12 – “Impact of body image related variables on the psychophysiological indicators of human sexual response: comparative study with a clinical and non clinical sample”**

Investigadores/Researchers: Maria João Alvarez Martins, Pedro Nobre, Ellen Laan, Sandra Byers, Lisa Vicente, Nuno Monteiro Pereira, Patrícia Pascoal

Instituição/Institution: Faculdade de Psicologia da Universidade Lisboa and SEXLAB (Laboratórios de Investigação em Sexualidade Humana), Faculdade de Psicologia e Ciências da Educação da Universidade do Porto (Portugal)

Duração/Duration: 2013/03 – 2017/01

*Peer-reviewed publications*

Pascoal, P. M., Alvarez, M. J., & Roberto, M. S. (2018). Validation and invariance across gender of the Beliefs About Appearance Scale (BAAS) in a community sample of heterosexual adults in a committed relationship. *Trends in Psychiatry and Psychotherapy*, 40(2), 126-135. <https://doi.org/10.1590/2237-6089-2017-0045>

Pascoal, P. M., Rosa, P. J., Silva, E. P., & Nobre, P. (2018). Sexual beliefs and sexual functioning: The mediating role of cognitive distraction. *International Journal of Sexual Health*, 30(1), 60-71. <https://doi.org/10.1080/19317611.2018.1424064>

Pascoal, P. M., Alvarez, M.-J., Pereira, C., & Nobre, P. (2017). Development and initial validation of the Beliefs about Sexual Functioning Scale: A gender invariant measure. *Journal of Sexual Medicine*. <https://doi.org/10.1016/j.jsxm.2017.01.021>

Pascoal, P. M., Byers, S., Alvarez, M. J., Santos-Iglesias, P., Nobre, P., Pereira, C., & Laan, E. (2017). A dyadic approach to understanding the link between sexual functioning and sexual satisfaction in heterosexual couples. *The Journal of Sex Research*. <https://doi.org/10.1080/00224499.2017.1373267>

Silva, E. P., Pascoal, P. M., & Nobre, P. (2016). Beliefs about appearance, cognitive distraction and sexual functioning in men and women: a mediation model based on cognitive theory. *Journal of Sexual Medicine*, 13, 1387-1394. <https://doi.org/10.1016/j.jsxm.2016.06.005>

**178/12 – “How collaboration in psychotherapy becomes therapeutic: A study of interactive and psychophysiological processes in good and poor outcome cases”**

Investigadores/Researchers: Eugénia Maria Ribeiro Pereira, Adriana Sampaio, Cledna Patricia Silva, António P. Ribeiro, Adam O. Horvath, William B. Stiles, Inês Sousa, Joana Mourão, Dulce Pinto, Zita Sousa

Instituição/Institution: Centro de Investigação em Psicologia (CIPsi/UM), Escola de Psicologia, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2013/06 – 2017/01

*Peer-reviewed publications*

Gonçalves, A. F., Ribeiro, E., Sampaio, A., Couto-Pereira, N. S., Moreira, P., & Coutinho, J. F. (2025). The relationship between heart rate variability and affective disorders: Associations with symptomatic improvement and therapeutic alliance. *BMC Psychology*, 13(1), 1129. <https://doi.org/10.1186/s40359-025-02960-1>

Cardoso, C., Ferreira, Â., Pinto, D., & Ribeiro, E. (2023). Therapist's interventions immediately after exceeding the client's therapeutic zone of proximal development: A comparative case study. *Psychotherapy Research*, 33(1), 70-83. <https://doi.org/10.1080/10503307.2022.2153093>

Mosavi, N. S., Ribeiro, E., Sampaio, A., & Santos, M. F. (2023). Data mining techniques in psychotherapy: applications for studying therapeutic alliance. *Scientific Reports*, 13(1), 16409. <https://doi.org/10.1038/s41598-023-43366-6>

Ryttinger, R., Stiles, W. B., Serralta, F., Silva, V., Cardoso, C., Ferreira, Â., Basto, I., Sousa, I., & Ribeiro, E. (2023). Is the quality of therapeutic collaboration associated with the assimilation of problematic experiences progress? A comparison of two cases. *Psychotherapy Research: Journal of the Society for Psychotherapy Research*, 33(8), 1132–1146. <https://doi.org/10.1080/10503307.2022.2162458>

Ryttinger, R., Serralta, F., Pires, N., Basto, I., Melo, G., & Ribeiro, E. (2022). Therapeutic collaboration in a comfort zone: A non-improved borderline patient psychotherapy case study. *Studies in Psychology*, 43(3), 639–665. <https://doi.org/10.1080/02109395.2022.2132750>

Stiles, W. B., Caro Gabalda, I., & Ribeiro, E. (2016). Exceeding the therapeutic zone of proximal development as a clinical error. *Psychotherapy*, 53(3), 268–272. <https://doi.org/10.1037/pst0000061>

### **185/12 – “Circuit mechanisms of spatial attention in the zebrafish midbrain”**

Investigadores/Researchers: Michael Brian Orger, Sabine L. Renninger”

Instituição/Institution: Fundação Champalimaud, Lisboa (Portugal)

Duração/Duration: 2013/06 – 2017/07

#### *Peer-reviewed publications*

Marques, J. C., & Orger, M. (2019). Clusterdv: a simple density-based clustering method that is robust, general and automatic. *Bioinformatics*, 35(12), 2125–2132. <https://doi.org/10.1093/bioinformatics/bty932>

Marques, J. C., Lackner, S., Félix, R., & Orger, M. B. (2018). Structure of the zebrafish locomotor repertoire revealed with unsupervised behavioral clustering. *Current Biology*, 28(2), 181–195. <https://doi.org/10.1016/j.cub.2017.12.002>

Lu, R., Sun, W., Liang, Y., Kerlin, A., Bierfeld, J., Seelig, J., Wilson, D., Scholl, B., Mohar, B., Tanimoto, M., Koyama, M., & Ji, N. (2017). Video-rate volumetric functional imaging of the brain at synaptic resolution. *Nature Neuroscience*, 20, 620–628. <https://doi.org/10.1038/nn.4516>

Orger, M. (2017). The cellular organization of zebrafish visuomotor circuits. *Current Biology*, 26(9), R377–R385. <https://doi.org/10.1016/j.cub.2016.03.054>

Orger, M., & de Polavieja, G. (2017). Zebrafish behavior: Opportunities and challenges. *Annual Review of Neuroscience*, 40. <https://doi.org/10.1146/annurev-neuro-071714-033857>

### **188/12 – “Embodied cognition: the nature of time encoding in the brain?”**

Investigadores/Researchers: Joseph James Paton, Tiago Monteiro, Thiago Gouvêa, Sofia Soares

Instituição/Institution: Fundação Champalimaud, Lisboa (Portugal)

Duração/Duration: 2013/06 – 2016/09

#### *Peer-reviewed publications*

Soares, S., Atallah, B. V., & Paton, J. J. (2016). Midbrain dopamine neurons control judgment of time. *Science*, 354(6317), 1273–1277. <https://doi.org/10.1126/science.aah5234>

Gouvêa, T., Monteiro, T., Motiwala, A., Soares, S., Machens, C., & Paton, J. (2015). Striatal dynamics explain duration judgments. *eLife*, 4:e11386. <https://doi.org/10.7554/eLife.11386>

Gouvêa, T., Monteiro, T., Soares, S., Atallah, B., & Paton, J. (2014). Ongoing behavior predicts perceptual report of interval duration. Ongoing behavior predicts perceptual report of interval duration. *Frontiers in neurorobotics*, 8:10. <https://doi.org/10.3389/fnbot.2014.00010>

### **190/12 – “Interfacing technology with the brain: Novel materials for implantable neural devices”**

Investigadores/Researchers: Adam Kampff, Elvira Fortunato, Pedro Barquinha, Joana Neto, Joana Nogueira

Instituição/Institution: Fundação Champalimaud and CENIMAT - Materials Research Center, Lisboa (Portugal)

Duração/Duration: 2013/06 – 2016/09

#### *Peer-reviewed publications*

Dimitriadis, G., Neto, J. P., & Kampff, A. R. (2018). t-SNE visualization of large-scale neural recordings. *Neural Computation*, 30(7), 1750–1774. [https://doi.org/10.1162/neco\\_a\\_01097](https://doi.org/10.1162/neco_a_01097)

Neto, J. P., Baião, P., Lopes, G., Frazão, J., Nogueira, J., Fortunato, E., Barquinha, P., & Kampff, A. R. (2018). Does impedance matter when recording spikes with polytrodes?. *Frontiers in neuroscience*, 12: 715. <https://doi.org/10.3389/fnins.2018.00715>

Neto, J., Lopes, G., Frazão, J., Nogueira, J., Lacerda, P., Baião, P., ..., Kampff, A. (2016). Validating silicon polytrodes with paired juxtacellular recordings: method and dataset. *Journal of Neurophysiology*, 116(2), 892–903. <https://doi.org/10.1152/jn.00103.2016>

Lopes, G., Bonacchi, N., Frazão, J., Neto, J. P., Atallah, B. V., Soares, S., ... Kampff, A. (2015). Bonsai: an event-based framework for processing and controlling data streams. *Frontiers in neuroinformatics*, 9:7. <https://doi.org/10.3389/fninf.2015.00007>

#### **191/12 – “Defining the functional architecture of motion vision sensitive visual-motor circuits”**

Investigadores/Researchers: Eugenia Chiappe, Tomás Cruz

Instituição/Institution: Fundação Champalimaud, Lisboa (Portugal)

Duração/Duration: 2013/08 – 2016/10

##### *Peer-reviewed publications*

Busse, L., Cardin, J. A., Chiappe, E., Halassa, M., McGinley, M. J., Yamashita, T., & Saleem, A. B. (2017). Sensation during active behaviors. *Journal of Neuroscience*, 37(45), 10826-10834. <https://doi.org/10.1523/JNEUROSCI.1828-17.2017>

Fujiwara, T., Cruz, T. L., Bohnslav, J. P., & Chiappe, M. E. (2017). A faithful internal representation of walking movements in the *Drosophila* visual system. *Nature Neuroscience*, 20, 72-81. <https://doi.org/10.1038/nn.4435>

#### **192/12 – “Effects of conditional Foxp2 deletion on motor-sequence learning”**

Investigador/Researcher: Catherine Ann French

Instituição/Institution: Fundação Champalimaud, Lisboa (Portugal)

Duração/Duration: 2013/06 – 2016/07

##### *Peer-reviewed publications*

Carpendale, E. J., Bell, M. C., Cullen, A. E., Dickson, H., Roberts, R. E., Fisher, H. L., & Laurens, K. R. (2025). Differentiation of childhood risk profiles for schizophrenia according to the development of verbal and performance intelligence. *Schizophrenia Research*, 283, 144–151. <https://doi.org/10.1016/j.schres.2025.07.001>

Haussler, S. M., Zahid, U., Day, F., Ciufolini, S., Petros, N., Gifford, G., Alameda, L., Quattrone, D., Dazzan, P., Pariante, C., Fisher, H. L., Laurens, K. R., Di Forti, M., Wood, S. J., Murray, R. M., McGuire, P., Mondelli, V., & Cullen, A. E. (2025). Salivary cortisol measures across the clinical stages of psychosis: An individual participant data (IPD) meta-analysis. *Psychoneuroendocrinology*, 173, 107283. <https://doi.org/10.1016/j.psyneuen.2025.107283>

French C. A., Vinueza Veloz M. F., Zhou K., Peter S., Fisher S. E., Costa R.M. & De Zeeuw, C. I. (2019). Differential effects of Foxp2 disruption in distinct motor circuits. *Molecular Psychiatry*, 24(3), 447-462. <https://doi.org/10.1038/s41380-018-0199-x>

French, C. A., & Fisher, S. E. (2014). What can mice tell us about Foxp2 function? *Current Opinion in Neurobiology*, 28, 72–79. <https://doi.org/10.1016/j.conb.2014.07.003>

#### **194/12 – “Characterising developmental trajectories of brain function from childhood into adolescence”**

Investigadores/Researchers: Kristin Robin Laurens, Ruth E. Roberts

Instituição/Institution: Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, King's College London (UK)

Duração/Duration: 2013/04 – 2015/12

##### *Peer-reviewed publications*

Si, S., Kempton, M., Hedges, E., Antoniadou, M., Roberts, R. E., Cullen, A. E., & Laurens, K. R. (2026). Trajectories of gray and white matter volume in children at elevated risk for schizophrenia. *CNS spectrums*, 31(1), e23. <https://doi.org/10.1017/S1092852926101047>

Cullen, A. E., Roberts, R. E., Fisher, H. L., & Laurens, K. R. (2024). Clinical and functional outcomes at 7-year follow-up of children presenting putative antecedents of schizophrenia at age 9-12 years. *Schizophrenia* (Heidelberg, Germany), 10(1), 83. <https://doi.org/10.1038/s41537-024-00507-8>

Gutteridge, T. P., Kelly, A. B., & Laurens, K. R. (2023). Increased likelihood of distressing and functionally impairing psychotic-like experiences among children with co-occurring internalising and externalising problems. *Schizophrenia Research*, 252, 225-230. <https://doi.org/10.1016/j.schres.2023.01.017>

Cullen, A., Fisher, H., Gullett, N., Fraser, E., Roberts, R. E., Zahid, U., To, M., Yap, N., Zunszain, P., Pariante, C., Wood, S., McGuire, P., Murray, R., Mondelli, V., & Laurens, K. R. (2022). Cortisol levels in childhood associated with emergence of attenuated psychotic symptoms in early adulthood. *Biological psychiatry*, 91(2), 226-235. <https://doi.org/10.1016/j.biopsych.2021.08.009>

Ahmedt-Aristizabal, D., Fernando, T., Denman, S., Robinson, J. E., Sridharan, S., Johnston, P. J., Laurens, K. R., & Fookes, C. (2021). Identification of children at risk of schizophrenia via deep learning and

EEG responses. *IEEE Journal of Biomedical and Health Informatics*, 25(1), 69-76. <https://doi.org/10.1109/JBHI.2020.2984238>

Gutteridge, T. P., Lang, C. P., Turner, A. M., Jacobs, B. W., & Laurens, K. R. (2020). Criterion validity of the Psychotic-Like Experiences Questionnaire for Children (PLEQ-C). *Schizophrenia Research*. <https://doi.org/10.1016/j.schres.2020.03.067>

Laurens K. R., Murphy J. R., Dickson H., Roberts R. E., & Gutteridge T. P. (2020). Trajectories of mismatch negativity and P3a amplitude development from age 9 to 16 years in children with risk factors for schizophrenia. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. <https://doi.org/10.1016/j.bpsc.2020.07.01>

Dickson, H., Roberts, R. E., To, M., Wild, K., Loh, M., & Laurens, K. R. (2020). Adolescent trajectories of fine motor and coordination skills and risk for schizophrenia. *Schizophrenia Research*, 215, 263-269. <https://doi.org/10.1016/j.schres.2019.10.018>

Hobbs, M., & Laurens, K. (2020). Psychometric comparability of self-report by children aged 9–10 versus 11 years on the Strengths and Difficulties Questionnaire (SDQ). *Child Indicators Research*, 3, 301–318. <https://doi.org/10.1007/s12187-019-09633-7>

Dickson, H., Cullen, A. E., Jones, R., Reichenberg, A., Roberts, R. E., Hodgins, S., Morris, R. G., & Laurens, K. R. (2018). Trajectories of cognitive development during adolescence among youth at-risk for schizophrenia. *Journal of Child Psychology and Psychiatry*, 59(11), 1215-1224. <https://doi.org/10.1111/jcpp.12912>

Lancefield, K. S., Raudino, A., Downs, J. M., & Laurens, K. R. (2016). Trajectories of childhood internalizing and externalizing psychopathology and psychotic-like experiences in adolescence: A prospective population-based cohort study. *Development and Psychopathology*, 28(2), 527-536. <https://doi.org/10.1017/S0954579415001108>

Laurens, K. R., & Cullen, A. E. (2016). Toward earlier identification and preventative intervention in schizophrenia: Evidence from the London Child Health and Development Study. *Social Psychiatry and Psychiatric Epidemiology*, 51(4), 475-491. <https://doi.org/10.1007/s00127-015-1151-x>

Bruggeman, J. M., Stockill, H. V., Lenroot, R. K., & Laurens, K. R. (2013). Mismatch negativity (MMN) and sensory auditory processing in children aged 9–12 years presenting with putative antecedents of schizophrenia. *International Journal of Psychophysiology*, 89(3), 374-380. <https://doi.org/10.1016/j.ijpsycho.2013.05.008>

## **198/12 – “Enhancing hypnotic suggestibility with transcranial direct current stimulation”**

Investigador/Researcher: Devin Blair Terhune

Instituição/Institution: The Chancellor, Masters and Scholars of the University of Oxford, Experimental Psychology (UK)

Duração/Duration: 2014/03 – 2015/02

### *Peer-reviewed publications*

Polychroni, N., Hedman, L. R. A., & Terhune, D. B. (2023). Response time fluctuations in the sustained attention to response task predict performance accuracy and meta-awareness of attentional states. *Psychology of Consciousness: Theory, Research, and Practice*, 10(4), 381–393. <https://doi.org/10.1037/cns0000248>

Acunzo, D. J., & Terhune, D. B. (2021). A critical review of standardized measures of hypnotic suggestibility. *International Journal of Clinical and Experimental Hypnosis*, 69(1), 50-71. <https://doi.org/10.1080/00207144.2021.1833209>

Terhune, D. B., & Hedman, L. R. A. (2017). Metacognition of agency is reduced in high hypnotic suggestibility. *Cognition*, 168, 176-181. <https://doi.org/10.1016/j.cognition.2017.06.026>

Terhune, D. B. (2015). Discrete response patterns in the upper range of hypnotic suggestibility: A latent profile analysis. *Consciousness and Cognition*, 33, 334-341. <https://doi.org/10.1016/j.concog.2015.01.018>

## **199/12 – “Brain-to-brain communication enabled with intracortical microstimulation”**

Investigadores/Researchers: Miguel Angelo Laporta Nicoletis, Miguel Santos Pais Vieira

Instituição/Institution: Duke University, Durham (USA)

Duração/Duration: 2013/01 – 2015/10

### *Peer-reviewed publications*

Pais-Vieira, M., Chiufta, G., Lebedev, M., Yadav, A., & Nicoletis, M. A. (2015). Building an organic computing device with multiple interconnected brains. *Scientific Reports*, 5, 11869. <https://doi.org/10.1038/srep11869>



Ramakrishnan, A., Ifft, P., Pais-Vieira, M., Byun, W., Zhuang, K., Lebedev, M., & Nicolelis, M. A. (2015). Computing Arm Movements with a Monkey Brainet. *Scientific Reports* 5: 10767 (2015). <https://doi.org/10.1038/srep10767>

Pais-Vieira, M., Lebedev, M., Kunicki, C., Wang, J., & Nicolelis, M. A. (2013). A brain-to-brain interface for real-time sharing of sensorimotor information. *Scientific Reports*, 3:1319. <https://doi.org/10.1038/srep01319>

### **203/12 – “Using multisensory illusions to investigate medically unexplained symptoms”**

Investigador/Researcher: Roger Newport

Instituição/Institution: School of Psychology, University of Nottingham (UK)

Duração/Duration: 2013/10 – 2017/02

#### *Peer-reviewed publications*

Ratcliffe, N., Greenfield, K., Ropar, D., Howard, E. M., & Newport, R. (2021). The relative contributions of visual and proprioceptive inputs on hand localization in early childhood. *Frontiers in Human Neuroscience*, 15, 702519. <https://doi.org/10.3389/fnhum.2021.702519>

Themelis, K., Ratcliffe, N., Nishigami, T., Wand, B. M., Newport, R., & Stanton, T. R. (2021). The effect of visually manipulating back size and morphology on back perception, body ownership, and attitudes towards self-capacity during a lifting task. *Psychological Research*, 86(6), 1816–1829. <https://doi.org/10.1007/s00426-021-01609-z>

Nishigami, T., Wand, B. M., Newport, R., Ratcliffe, N., Themelis, K., Moen, D., Jones, C., Moseley, G. L., & Stanton, T. R. (2019). Embodying the illusion of a strong, fit back in people with chronic low back pain. A pilot proof-of-concept study. *Musculoskeletal Science and Practice*, 39, 178-183. <https://doi.org/10.1016/j.msksp.2018.07.002>

Ratcliffe, N., & Newport, R. (2017). The effect of visual, spatial and temporal manipulations on embodiment and action. *Frontiers in Human Neuroscience*, 11: 227. <https://doi.org/10.3389/fnhum.2017.00227>

Ratcliffe, N., & Newport, R. (2016). Evidence that subclinical somatoform dissociation is not characterised by heightened awareness of proprioceptive signals. *Cognitive Neuropsychiatry*, 21(5), 429-446. <https://doi.org/10.1080/13546805.2016.1231112>

Newport, R., Auty, K., Carey, M., Greenfield, K., Howard, E. M., Ratcliffe, N., Thair, H., & Themelis, K. (2015). Give it a tug and feel it grow: Extending body perception through the universal nature of illusory finger stretching. *Iperception*, 6(5):2041669515599310. <https://doi.org/10.1177/2041669515599310>

### **209/12 – “Predicting your decision while you make up your mind – an intracranial human study of the neural underpinning of decision making”**

Investigadores/Researchers: Uri Muz Maoz, Liad Mudrik, Ian Ross, Adam Mamelak, Ralph Adolphs  
Instituição/Institution: California Institute of Technology, Pasadena and Cedars-Sinai Medical Center, Los Angeles (USA)

Duração/Duration: 2013/05 – 2015/02

#### *Peer-reviewed publications*

Lashgari, E., Ott, J., Connelly, A., Baldi, P., & Maoz, U. (2021). An end-to-end CNN with attentional mechanism applied to raw EEG in a BCI classification task. *Journal of neural engineering*, 18(4). <https://doi.org/10.1088/1741-2552/ac1ade>

Maoz, U., & Yaffe, G. (2015). What does recent neuroscience tell us about criminal responsibility? *Journal of Law and the Biosciences*, 3(1), 120-139. <https://doi.org/10.1093/jlb/lsv051>

Maoz, U., Mudrik, L., Rivlin, R., Ross, I., & Mamelak, A. (2015). On reporting the onset of the intention to move. In A. Mele (Ed.), *Surrounding Free Will*. Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780199333950.003.0010>

Mudrik, L., & Maoz, U. (2015). “Me & My Brain”: Exposing Neuroscience's Closet Dualism. *Journal of Cognitive Neuroscience*, 27(2), 211-221. [https://doi.org/10.1162/jocn\\_a\\_00723](https://doi.org/10.1162/jocn_a_00723)

## 217/12 – “Temporal modulation of the subventricular zone neural stem cell niche by choroid plexus-cerebrospinal fluid derived factors”

Investigadores/Researchers: João Carlos Cruz de Sousa, Fernanda Marques, Joana Palha, Ana Luísa Falcão, Ashley Novais

Instituição/Institution: ICVS/3B's - Laboratório Associado (ICVS/3B's), Universidade do Minho, Braga (Portugal)

Duração/Duration: 2013/08 – 2019/01

### Peer-reviewed publications

Ferreira, A. C., Novais, A., Sousa, N., Sousa, J. C., & Marques, F. (2018). Voluntary running rescues the defective hippocampal neurogenesis and behaviour observed in lipocalin 2-null mice. *Scientific reports*, 9: 1649. <https://doi.org/10.1038/s41598-018-38140-y>

Ferreira, A. C., Santos, T., Sampaio-Marques, B., Novais, A., Mesquita, S. D., Ludovico, P., Bernardino, L., Correia-Neves, M., Sousa, N., Palha, J. A., Sousa, J. C., & Marques, F. (2018). Lipocalin-2 regulates adult neurogenesis and contextual discriminative behaviours. *Molecular Psychiatry*, 23(4), 1031-1039. <https://doi.org/10.1038/mp.2017.95>

Novais, A., Silva, A., Ferreira, A. C., Falcão, A., Sousa, N., Palha, J. A., Marques, F., & Sousa, J. C. (2018). Adult hippocampal neurogenesis modulation by the membrane-associated progesterone receptor family member neudesin. *Frontiers in Cellular Neuroscience*, 12, 463. <https://doi.org/10.3389/fncel.2018.00463>

Marques, F., Sousa, J. C., Brito, M. A., Pahnke, J., Santos, C., Correia-Neves, M., & Palha, J. A. (2017). The choroid plexus in health and in disease: dialogues into and out of the brain. *Neurobiology of Disease*, 107, 32-40. <https://doi.org/10.1016/j.nbd.2016.08.011>

Mesquita, S. D., Ferreira, A. C., Sousa, J. C., Correia-Neves, M., Sousa, N., & Marques, F. (2016). Insights on the pathophysiology of Alzheimer's disease: The crosstalk between amyloid pathology, neuroinflammation and the peripheral immune system. *Neuroscience and Biobehavioral Reviews*, 68, 547-562. <https://doi.org/10.1016/j.neubiorev.2016.06.014>

Marques, F., & Sousa, J. C. (2015). The choroid plexus is modulated by various peripheral stimuli: implications to diseases of the central nervous system. *Frontiers in Cellular Neuroscience*, 9:136. <https://doi.org/10.3389/fncel.2015.00136>

Mesquita, S. D., Ferreira, A. C., Gao, F., Coppola, G., Geschwind, D. H., Sousa, J. C., ..., Marques, F. (2015). The choroid plexus transcriptome reveals changes in type I and II interferon responses in a mouse model of Alzheimer's disease. *Brain, Behavior, and Immunity*, 49, 280-292. <https://doi.org/10.1016/j.bbi.2015.06.008>

Salgado, A. J., Sousa, J. C., Costa, B. M., Pires, A. O., Mateus-Pinheiro, A., Teixeira, F. G., Pinto, L., & Sousa, N. (2015). Mesenchymal stem cells secretome as a modulator of the neurogenic niche: basic insights and therapeutic opportunities. *Frontiers in Cellular Neuroscience*, 9:249. <https://doi.org/10.3389/fncel.2015.00249>

## 220/12 – Consciousness disconnects during sleep

Investigador/Researcher: Giovanni Piantoni

Instituição/Institution: Cortical Physiology Lab, Massachusetts General Hospital, Harvard Medical School (USA) and Netherlands Institute for Neuroscience, Amsterdam (The Netherlands)

Duração/Duration: 2013/09 – 2016/05

### Peer-reviewed publications

Naftulin, J. S., Ahmed, O. J., Piantoni, G., Eichenlaub, J. B., Martinet, L. E., Kramer, M. A., & Cash, S. S. (2018). Ictal and preictal power changes outside of the seizure focus correlate with seizure generalization. *Epilepsia*, 59(7), 1398-1409. <https://doi.org/10.1111/epi.14449>

Piantoni, G., Halgren, E., & Cash, S. S. (2017). Spatiotemporal characteristics of sleep spindles depend on cortical location. *NeuroImage*, 146, 236-245. <https://doi.org/10.1016/j.neuroimage.2016.11.010>

Piantoni, G., Romeijn, N., Gomez-Herrero, G., Van Der Werf, Y. D., & Van Someren, E. J. W. (2017). Alpha power predicts persistence of bistable perception. *Scientific Reports*, 7, 5208. <https://doi.org/10.1038/s41598-017-05610-8>

Muller, L., Piantoni, G., Koller, D., Cash, S., Halgren, E., & Sejnowski, T. (2016). Rotating waves during human sleep spindles organize global patterns of activity that repeat precisely through the night. *Elife*, 5: e17267. <https://doi.org/10.7554/eLife.17267>

Piantoni, G., Halgren, E., & Cash, S. (2016). The contribution of thalamocortical core and matrix pathways to sleep spindles. *Neural Plasticity*. Article ID 3024342. <https://doi.org/10.1155/2016/3024342>

Reijmer, Y. D., Fotiadis, P., Piantoni, G., Boulouis, G., Kelly, K. E., Gurol, M. E., Leemans, A., O'Sullivan, M. J., Greenberg, S. M., & Viswanathan, A. (2016). Small vessel disease and cognitive

impairment: The relevance of central network connections. *Human Brain Mapping*, 37(7), 2446-2454. <https://doi.org/10.1002/hbm.23186>

Milz, P., Faber, P. L., Lehmann, D., Kochi, K., & Pascual-Marqui, R. D. (2014). sLORETA intracortical lagged coherence during breath counting in meditation-naïve participants. *Frontiers in Human Neuroscience*, 8, 303. <https://doi.org/10.3389/fnhum.2014.00303>

## **222/12 – “EEG functional connectivity in post-hypnotic amnesia”**

Investigadores/Researchers: Marios Kittenis, Graham Jamieson

Instituição/Institution: Koestler Parapsychology Unit, The University of Edinburgh (UK) and Neuropsychology Lab, School of Behavioural, Cognitive, and Social Sciences, The University of New England, Armindale (Australia)

Duração/Duration: 2013/06 – 2016/04

*Peer-reviewed publications*

Jamieson, G., Kittenis, M., Tivadar, R., & Evans, I. (2017). Inhibition of retrieval in hypnotic amnesia: Dissociation by upper-alpha gating. *Neuroscience of Consciousness*, 3(1): 1-15. <https://doi.org/10.1093/nc/nix005>

## **224/12 – “The magic of perception: Investigating misdirection and change blindness in magic using the novel combination of gaze behaviour and ERPs”**

Investigadores/Researchers: Tim J. Smith, Rebecca Nako

Instituição/Institution: Dynamic Visual Cognition (DVC) Lab, Dept. of Psychology, Birkbeck, University of London (UK)

Duração/Duration: 2013/04 – 2016/09

*Peer-reviewed publications*

Nako, R., Grubert, A., & Eimer, M. (2016). Category-based guidance of spatial attention during visual search for feature conjunctions. *Journal of Experimental Psychology: Human Perception and Performance*, 42(10), 1571–1586. <https://doi.org/10.1037/xhp0000244>

Nako, R., Smith, T.J., & Eimer, M. (2016). The role of color search templates for real-world target objects. *Journal of Cognitive Neuroscience*, 28(11), 1714-1727. [https://doi.org/10.1162/jocn\\_a\\_00996](https://doi.org/10.1162/jocn_a_00996)

Smith, T. & Martin-Portugues Santacreu, J. Y. (2016) Match-Action: The role of motion and audio in creating global change blindness in film. *Media Psychology*. <https://doi.org/10.1080/15213269.2016.1160789>

Smith, T. (2015). The role of audience participation and task relevance on change detection during a card trick. *Frontiers in Psychology*, 6: 13. <https://doi.org/10.3389/fpsyg.2015.00013>

Nako, R., Smith, T., & Eimer, M. (2014). Activation of new attentional templates for real-world objects in visual search. *Journal of Cognitive Neuroscience*. [https://doi.org/10.1162/jocn\\_a\\_00747](https://doi.org/10.1162/jocn_a_00747)

Nako, R., Wu, R., Smith, T., & Eimer, M. (2014). Item and category-based attentional control during search for real-world objects: Can you find the pants among the pans? *Journal of Experimental Psychology: Human Perception and Performance*, 40(4), 1283-1288. <https://doi.org/10.1037/a0036885>

Smith, T., Lamont, P., & Henderson, J. M. (2013). Change blindness in a dynamic scene due to endogenous override of exogenous attentional cues. *Perception*, 42(8), 884-886. <https://doi.org/10.1068/p7377>

## **225/12 – “Roles of the reward system in sleep, dreaming, and the consolidation of emotional memories”**

Investigadores/Researchers: Sophie Schwartz, Lampros Perogamvros, Kristoffer Aberg, Virginie Sterpenich

Instituição/Institution: Geneva Neuroscience Center, University of Geneva (Switzerland)

Duração/Duration: 2013/10 – 2016/02

*Peer-reviewed publications*

Perogamvros, L., Park, H.-D., Bayer, L., Perrault, A., Blanke, O., & Schwartz, S. (2019). Increased heartbeat-evoked potential during REM sleep in nightmare disorder. *NeuroImage Clinical*, 22: 101701. <https://doi.org/10.1016/j.nicl.2019.101701>

Perogamvros, L., Aberg, K., Gex-Fabry, M., Perrig, S., Cloninger, C. R., & Schwartz, S. (2015). Increased reward-related behaviors during sleep and wakefulness in sleepwalking and idiopathic nightmares. *PLoS ONE* 10(8): e0134504. <https://doi.org/10.1371/journal.pone.0134504>

Perogamvros, L., & Schwartz, S. (2014). Sleep and Emotional Functions. *Current Topics in Behavioral Neurosciences*, 25, 411-431. [https://doi.org/10.1007/7854\\_2013\\_271](https://doi.org/10.1007/7854_2013_271)

Perogamvros, L., Dang-Vu, T., Desseilles, M., & Schwartz, S. (2013). Sleep and dreaming are for important matters. *Frontiers in Psychology*, 4: 474. <https://doi.org/10.3389/fpsyg.2013.00474>

### **227/12 – “System mechanisms of attention: Toward the nature of hypnotizability”**

Investigadores/Researchers: Zinaida I. Storozheva, A. V. Kirenskaya, V. Y. Novototsky-Vlasov, A. N. Chistyakov, V. V. Myamlin, S. V. Solntseva

Instituição/Institution: P. K. Anokhin Institute of Normal Physiology and Serbsky National Research Centre for Social and Forensic Psychiatry, Moscow (Russia)

Duração/Duration: 2013/04 – 2017/05

#### *Peer-reviewed publications*

Kirenskaya, A. V., Storozheva, Z. I., Solntseva, S. V., Novototsky-Vlasov, V. Y., & Gordeev, M. N. (2019). Auditory evoked potentials evidence for differences in information processing between high and low hypnotizable subjects. *International Journal of Clinical and Experimental Hypnosis*, 67(1), 81-103. <https://doi.org/10.1080/00207144.2019.1553764>

Storozheva, Z., Kirenskaya, A., Gordeev, M., Kovaleva, M. E., & Novototsky-Vlasov, V. Y. (2018). COMT genotype, sensory and sensorimotor gating in high and low hypnotizable subjects. *International Journal of Clinical & Experimental Hypnosis*, 66(1), 83-105. <https://doi.org/10.1080/00207144.2018.1396120>

### **233/12 – “The study of experimenter effects in the replication of psi experiments: A global initiative”**

Investigadores/Researchers: Marilyn Schlitz, Daryl Bem, Arnaud Delorme

Instituição/Institution: Institute of Noetic Sciences, Petaluma (USA)

Duração/Duration: 2013/07 – 2015/04

#### *Peer-reviewed publications*

Schlitz, M., Bem, D., Marcussion-Clavertz, D., Cardena, E., Lyke, J., Grover, R., ..., Delorme, A. (2021). Two replication studies of a time-reversed (Psi) priming task and the role of expectancy in reaction times. *Journal of Scientific Exploration*, 35(1), 65-90. <https://doi.org/10.31275/20211903>

Schlitz, M., & Delorme, A. (2021). Examining implicit beliefs in a replication attempt of a time-reversed priming task [version 2; peer review: 2 approved]. *F1000Research*, 10: 5. <https://doi.org/10.12688/f1000research.27169.2>

### **234/12 – “Visual categorization of images of live and deceased individuals”**

Investigador/Researchers: Arnaud Delorme, Dean Radin

Instituição/Institution: Centre de Recherche Cerveau et Cognition, Toulouse (France); Institute of Noetic Sciences, Petaluma (USA)

Duração/Duration: 2014/02 – 2015/06

#### *Peer-reviewed publications*

Delorme, A., Pierce, A., Michel, L., & Radin, D. (2018). Intuitive assessment of mortality based on facial characteristics: Behavioral, electrocortical, and machine learning analyses. *Explore: The Journal of Science and Healing*, 14(4), 262-267. <https://doi.org/10.1016/j.explore.2017.10.011>

Delorme, A., Pierce, A., Michel, L., & Radin, D. (2016). Prediction of mortality based on facial characteristics. *Frontiers in Human Neuroscience*, 10: 173. <https://doi.org/10.3389/fnhum.2016.00173>

### **248/12 – “Using hypnosis to distinguish between cognitive and metacognitive conscious experience”**

Investigadores/Researchers: Pedro Alexandre Magalhães de Saldanha da Gama, Axel Cleeremans, Zoltan Dienes, Amir Raz

Instituição/Institution: Université Libre de Bruxelles (Belgium)

Duração/Duration: 2013/11 – 2015/05

#### *Peer-reviewed publications*

Caspar, E. A., De Beir, A., Gama, P., Yernaux, F., Cleeremans, A., & Vanderborcht, B. (2014). New frontiers in the rubber hand experiment: when a robotic hand becomes one's own. *Behavior Research Methods*, 47(3), 744-755. <https://doi.org/10.3758/s13428-014-0498-3>

### **252/12 – “Sleep state misperception misperceived”**

Investigadores/Researchers: Eus J. W. Van Someren, J. Ramautar

Instituição/Institution: Netherlands Institute for Neuroscience, Dept. Sleep & Cognition, Amsterdam (The Netherlands)

Duração/Duration: 2014/06 – 2017/01

#### *Peer-reviewed publications*

Bresser, T., Foster-Dingley, J. C., Wassing, R., Leerssen, J., Ramautar, J. R., Stoffers, D., Lakbila-Kamal, O., van den Heuvel, M., & van Someren, E. J. W. (2020). Consistent altered internal capsule white matter microstructure in insomnia disorder. *Sleep*, 43(8): zsaa031. <https://doi.org/10.1093/sleep/zsaa031>



Te Lindert, B. H. W., Blanken, T. F., van der Meijden, W. P., Dekker, K., Wassing, R., van der Werf, Y. D., Ramautar, J. R., & Van Someren, E. J. W. (2020). Actigraphic multi-night home-recorded sleep estimates reveal three types of sleep misperception in Insomnia Disorder and good sleepers. *Journal of Sleep Research*, 29(1), e12937. <https://doi.org/10.1111/jsr.12937>

Christensen, J. A. E., Wassing, R., Wei, Y., Ramautar, J. R., Lakbila-Kamal, O., Jennum, P. J., & Van Someren, E. J. W. (2019). Data-driven analysis of EEG reveals concomitant superficial sleep during deep sleep in insomnia disorder. *Frontiers in Neuroscience*, 13: 598. <https://doi.org/10.3389/fnins.2019.00598>

Wei, Y., Colombo, M. A., Ramautar, J. R., Blanken, T. F., van der Werf, Y. D., ..., Van Someren, E. (2017). Sleep stage transition dynamics reveal specific stage 2 vulnerability in insomnia. *Sleep*, 40(9), zsx117. <https://doi.org/10.1093/sleep/zsx117>

Colombo, M., Ramautar, J., Wei, Y., Gomez-Herrero, G., Stoffers, D., Wassing, R., Benjamins, J. S., Tagliazucchi, E., van der Werf, Y., Cajochen, C., & Van Someren, E. (2016). Wake high-density electroencephalographic spatio-spectral signatures of insomnia. *Sleep*, 39(5), 1015-1027. <https://doi.org/10.5665/sleep.5744>

Colombo, M., Wei, Y., Ramautar, J., Linkenkaer-Hansen, K., Tagliazucchi, E., & Van Someren, E. (2016). More severe insomnia complaints in people with stronger long-range temporal correlations in wake resting-state EEG. *Frontiers in Physiology*, 7:576. <https://doi.org/10.3389/fphys.2016.00576>

Wei, Y., Ramautar, J., Colombo, M., Stoffers, D., Gomez-Herrero, G., van der Meijden, W. P., Te Lindert, B. H., van der Werf, Y., & Van Someren, E. (2016). I keep a close watch on this heart of mine: increased interoception in insomnia. *Sleep*, 39(12), 2113-2124. <https://doi.org/10.5665/sleep.6308>

## **253/12 – “REM-sleep, the regulation of self-conscious emotion and hyperarousal in psychophysiological insomnia”**

Investigadores/Researchers: Lucia Talamini, Ekaterini Georgopoulou, Eus Van Someren

Instituição/Institution: University of Amsterdam, Psychology, Dept. Brain and Cognition (The Netherlands) and Netherlands Institute for Neuroscience, Dept. Sleep & Cognition, Amsterdam (The Netherlands)

Duração/Duration: 2015/11 – 2017/09

### *Peer-reviewed publications*

Schalkwijk, F., Van Someren, E. J. W., Nicolai, N. J., Uijttewaal, J. L., & Wassing, R. (2023). From childhood trauma to hyperarousal in adults: The mediating effect of maladaptive shame coping and insomnia. *Frontiers in Human Neuroscience*, 17, 990581. <https://doi.org/10.3389/fnhum.2023.990581>

Christensen, J. A. E., Wassing, R., Wei, Y., Ramautar, J. R., Lakbila-Kamal, O., Jennum, P. J., & Van Someren, E. J. W. (2019). Data-driven analysis of EEG reveals concomitant superficial sleep during deep sleep in insomnia disorder. *Frontiers in Neuroscience*, 13: 598. <https://doi.org/10.3389/fnins.2019.00598>

Schalkwijk, F., Van Someren, E., & Wassing, R. (2019). A clinical interpretation of shame regulation in maladaptive perfectionism. *Personality and Individual Differences*, 138, 19-23. <https://doi.org/10.1016/j.paid.2018.09.001>

Wassing, R., Benjamins, J. S., Talamini, L. M., Schalkwijk, F., & Van Someren, E. J. W. (2019). Overnight worsening of emotional distress indicates maladaptive sleep in insomnia. *Sleep*, 42(4): zsy268. <https://doi.org/10.1093/sleep/zsy268>. Erratum in: *Sleep*. 2019 May 1;42(5): PMID: 30590834.

Wassing, R., Lakbila-Kamal, O., Ramautar, J. R., Stoffers, D., Schalkwijk, F., & Van Someren, E. (2019). Restless REM sleep impedes overnight amygdala adaptation. *Current Biology*, 29(14), 2351-2358.e4. <https://doi.org/10.1016/j.cub.2019.06.034>

Wassing, R., Schalkwijk, F., Lakbila-Kamal, O., Ramautar, J. R., Stoffers, D., Mutsaerts, H., ... Van Someren, E. (2019). Haunted by the past: old emotions remain salient in insomnia disorder. *Brain*, 142(6), 1783–1796. <https://doi.org/10.1093/brain/awz089>

Wei, Y., Bresser, T., Wassing, R., Stoffers, D., Van Someren, E. J. W., & Foster-Dingley, J. C. (2019). Brain structural connectivity network alterations in insomnia disorder reveal a central role of the right angular gyrus. *NeuroImage: Clinical*, 24: 102019. <https://doi.org/10.1016/j.nicl.2019.102019>

Wei, Y., Leerssen, J., Wassing, R., Stoffers, D., Perrier, J., & Van Someren, E. J. W. (2019). Reduced dynamic functional connectivity between salience and executive brain networks in insomnia disorder. *Journal of Sleep Research*, e12953. <https://doi.org/10.1111/jsr.12953>

Leerssen, J., Wassing, R., Ramautar, J. R., Stoffers, D., Lakbila-Kamal, O., Perrier, J., Bruijell, J., Foster-Dingley, J. C., Aghajani, M., & Van Someren, E. (2018). Increased hippocampal-prefrontal functional connectivity in insomnia. *Neurobiology of Learning and Memory*. <https://doi.org/10.1016/j.nlm.2018.02.006>

Wassing, R., Benjamins, J. S., Dekker, K., Moens, S., Spiegelhalter, K., Feige, B., Riemann, D., van der Sluis, S., Van Der Werf, Y., Talamini, L., Walkerg, M., Schalkwijk, F., & Van Someren, E. (2016). Slow dissolving of emotional distress contributes to hyperarousal. *Proceedings of the National Academy of Sciences*, 113(9), 2538–2543. <https://doi.org/10.1073/pnas.1522520113>

### **255/12 – “Telepathic communication wave function collapse”**

Investigadores/Researchers: Karla Galdamez, Wolfgang Baer, Michael Ibison

Instituição/Institution: Nascent Systems Inc., Carmel Valley, CA (USA); Institute for Advanced Studies at Austin, Texas (USA)

Duração/Duration: 2013/07 – 2020/07

#### *Peer-reviewed publications*

Galdamez, K. M. (2020). On an expanded concept of energy within a framework of brain to brain communication. *Activitas Nervosa Superior*, 62, 12-16. <https://doi.org/10.1007/s41470-019-00067-8>

Galdamez, K. (2017). Wave function collapse in retinal structure under aided/un-aided conditions. *Cosmos and History: The Journal of Natural and Social Philosophy*, 13(2), 126-140.

### **256/12 – “Contemplative Development Mapping Project”**

Investigadores/Researchers: Willoughby Britton, Catherine Kerr, Harold Roth, Jared Lindahl, Jake Davis, Chris Kaplan, Nathan Fisher

Instituição/Institution: The Clinical and Affective Neuroscience Laboratory, Brown University and Department of Psychiatry and Human Behavior, Brown University Medical School, Providence (USA)

Duração/Duration: 2013/07 – 2017/09

#### *Peer-reviewed publications*

Lindahl, J. R. (2017). Somatic energies and emotional traumas: A qualitative study of practice-related challenges reported by Vajrayana Buddhists. *Religions*, 8(8): 153. <https://doi.org/10.3390/rel8080153>

Lindahl, J., Fisher, N., Cooper, D. J., Rosen, R. K., & Britton, W. (2017). The varieties of contemplative experience: A mixed-methods study of meditation-related challenges in Western Buddhists. *PLoS ONE*, 12(5): e0176239. <https://doi.org/10.1371/journal.pone.0176239>

Lindahl, J., Kaplan, C., Winget, E., Britton, W. (2014). A phenomenology of meditation-induced light experiences: Traditional Buddhist and neurobiological perspectives. *Frontiers in Psychology*, 4:973. <https://doi.org/10.3389/fpsyg.2013.00973>

### **262/12 – “The neural basis of Magical Ideation: a multimodal imaging study in twin subjects”**

Investigadores/Researchers: Paolo Brambilla, Gioia A.L. Negri, Sara Piccin, Giuseppe Cabras, Corrado Fagnani

Instituição/Institution: Università delgi Studi di Milano and Unit of Epidemiology of the Italian Institute of Health, Rome (Italy)

Duração/Duration: 2014/01 – 2018/04

#### *Peer-reviewed publications*

Bonivento, C., Tomasino, B., Garzitto, M., Piccin, S., Fabbro, F., & Brambilla, P. (2017). Age-dependent changes of thinking about verbs. *Frontiers in Behavioral Neuroscience*, 11: 40. <https://doi.org/10.3389/fnbeh.2017.00>

Calderoni, S., Billeci, L., Narzisi, A., Brambilla, P., Retico, A., & Muratori, F. (2016). Rehabilitative interventions and brain plasticity in autism spectrum disorders: Focus on MRI-Based Studies. *Frontiers in Neuroscience*, 10: 139. <https://doi.org/10.3389/fnins.2016.00139>

Ciappolino, V., Delvecchio, G., Agostoni, C., Mazzocchi, A., Altamura, A. C., & Brambilla, P. (2016). The role of n-3 polyunsaturated fatty acids (n-3PUFAs) in affective disorders. *Journal of Affective Disorders*, 15(224), 32-47. <https://doi.org/10.1016/j.jad.2016.12.034>

Córdova-Palomera, A., Tornador, C., Falcón, C., Bargalló, N., Brambilla, P., Crespo-Facorro, B., Deco, G., & Fañanás, L. (2016). Environmental factors linked to depression vulnerability are associated with altered cerebellar resting-state synchronisation. *Scientific Reports*, 6, Article number: 37384. <https://doi.org/10.1038/srep37384>

Delvecchio, G., Bellani, M., Altamura, A. C., & Brambilla, P. (2016). The association between the serotonin and dopamine neurotransmitters and personality traits. *Epidemiology and Psychiatric Sciences*, 25, 109-112. <https://doi.org/10.1017/S2045796015001146>

Delvecchio, G., Garzitto, M., Fagnani, C., Fornasari, L., Stazi, M. A., Picardi, A., Ciappolino, V., Fabbro, F., Altamura, A. C., & Brambilla, P. (2016). Normative data and effects of age and gender on temperament and character dimensions across the lifespan in an Italian population: A cross-sectional validation study. *Journal of Affective Disorders*, 204, 83-91.

Maggioni, E., Bellani, M., Altamura, A. C., & Brambilla, P. (2016). Neuroanatomical voxel-based profile of schizophrenia and bipolar disorder. *Epidemiology and Psychiatric Sciences*, 25(4), 312-316. <https://doi.org/10.1017/S2045796016000275>

Squarcina, L., Fagnani, C., Bellani, M., Altamura, A. C., & Brambilla, P. (2016). Twin studies for the investigation of the relationships between genetic factors and brain abnormalities in bipolar disorder. *Epidemiology and Psychiatric Sciences*, 25(6), 515-520. <https://doi.org/10.1017/S2045796016000615>

Fornasari, L., Picardi, A., Garzitto, M., Gigantesco, A., Sala, M., Romanò, M., Fabbro, F., & Brambilla, P. (2015). Reliability and normative data of the perceptual aberration scale in an Italian juvenile general population sample. *Psychiatry Research*, 228(3), 495-500. <https://doi.org/10.1016/j.psychres.2015.05.058>

Garzitto, M., Picardi, A., Fornasari, L., Gigantesco, A., Sala, M., Fagnani, C., Stazi, M. A., Ciappolino, V., Fabbro, F., Altamura, A. C., & Brambilla, P. (2015). Normative data of the magical ideation scale from childhood to adulthood in an Italian cohort. *Comprehensive Psychiatry*, 69(8), 78-87. <https://doi.org/10.1016/j.comppsy.2016.05.007>

O'Donoghue, S., Cannon, D. M., Perlino, C., Brambilla, P., & McDonald, C. (2015). Applying neuroimaging to detect neuroanatomical dysconnectivity in psychosis. *Epidemiology and Psychiatric Sciences*, 24, 298-302. <https://doi.org/10.1017/S2045796015000074>

Peruzzo, D., Castellani, U., Perlino, C., Bellani, M., Marinelli, V., Rambaldelli, G., Lasalvia, A., Tosato, S., De Santi, K., Murino, V., Ruggeri, M., Brambilla, P., & PICOS-Veneto Group (2015). Classification of first-episode psychosis: a multi-modal multi-feature approach integrating structural and diffusion imaging. *Journal of Neural Transmission*, 122(6), 897-905. <https://doi.org/10.1007/s00702-014-1324-x>

Picardi, A., Fagnani, C., Medda, E., Toccaceli, V., Brambilla, P., & Stazi, M. (2015). Genetic and environmental influences underlying the relationship between autistic traits and temperament and character dimensions in adulthood. *Comprehensive Psychiatry*, 58, 178-188. <https://doi.org/10.1016/j.comppsy.2014.12.018>

Brambilla, P., Fagnani, C., Cecchetto, F., Medda, E., Bellani, M., Salemi, M., Picardi, A., & Stazi, M. A. (2014). Genetic and environmental bases of the interplay between magical ideation and personality. *Psychiatry Research*, 215(2), 453-459. <https://doi.org/10.1016/j.psychres.2013.11.021>

Fagnani, C., Bellani, M., Soares, J. C., Stazi, M. A., & Brambilla, P. (2014). Discordant twins as a tool to unravel the aetiology of bipolar disorder. *Epidemiology and Psychiatric Sciences*, 23(2), 137-140. <https://doi.org/10.1017/S2045796014000055>

Tomasino, B., Fabbro, F., & Brambilla, P. (2014). How do conceptual representations interact with processing demands: An fMRI study on action- and abstract-related words. *Brain Research*, 1591, 38-52. <https://doi.org/10.1016/j.brainres.2014.10.008>

#### **266/12 – “One ear is better than two; but why and when?”**

Investigadores/Researchers: Veena Kumari, Elena Antonova

Instituição/Institution: Institute of Psychiatry (IoP), King's College London (UK)

Duração/Duration: 2013/03 – 2015/03

*Peer-reviewed publications*

Kumari, V., Hamid, A., Brand, A., & Antonova, E. (2014). Acoustic prepulse inhibition: one ear is better than two but why and when? *Psychophysiology*, 52(5), 714-721. <https://doi.org/10.1111/psyp.12391>

#### **270/12 – “Synchronicity and psi: A controlled comparison”**

Investigadores/Researchers: John Palmer, Nick Edington

Instituição/Institution: Rhine Research Center, Durham (USA)

Duração/Duration: 2013/03 – 2015/01

*Peer-reviewed publications*

Palmer, J. (2016). Psi and synchronicity: A controlled comparison. *Journal of the Society for Psychical Research*, 80(4), 193-213.

#### **272/12 – “Exploring the interactions between paranormal belief and disbelief and subjective experiences with the Shakti helmet”**

Investigadores/Researchers: Christine Simmonds-Moore, Don Rice, Ron Hopkins, Richard LaFleur, Chase O'Gwin

Instituição/Institution: Psychology Department, University of West Georgia, Carrollton (USA)

Duração/Duration: 2013/09 – 2016/10

*Peer-reviewed publications*

Simmonds-Moore, C. A., Alvarado, C. S., & Zingrone, N. L. (2019). A survey exploring synesthetic experiences: Exceptional experiences, schizotypy, and psychological well-being. *Psychology of Consciousness: Theory, Research, and Practice*, 6(1), 99-121.

Simmonds-Moore, C., Rice, D., & O'gwin, C. (2019). My brain is cool: A thematic analysis of exceptional experiences among sceptics. *Journal of the Society for Psychical Research*, 84(4), 193-211.

Simmonds-Moore, C., Rice, D., O'Gwin, C., & Hopkins, R. (2017). Exceptional experiences following exposure to a sham “God helmet”: Evidence for placebo, individual difference and time of day influences. *Journal Imagination, Cognition, and Personality*. <https://doi.org/10.1177/0276236617749185>



## Apoios à Investigação Científica 2014/15 | Grants for Scientific Research 2014/15

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 51/14 – “The dissociated self: An investigation of emotional responses to a new body-threat task in those predisposed to anomalous body experiences, dissociation and disembodiment”

Investigador/Researcher: Jason John Braithwaite

Instituição/Institution: School of Psychology, University of Birmingham (UK)

Duração/Duration: 2015/09 – 2018/07

Peer-reviewed publications

Braithwaite, J. J., Watson, D. G., & Dewe, H. (2020). The Body-Threat Assessment Battery (BTAB): A new instrument for the quantification of threat-related autonomic affective responses induced via dynamic movie clips. *International Journal of Psychophysiology*. <https://doi.org/10.1016/j.ijpsycho.2020.04.018>

Dewe, H., Watson, D. G., Kessler, K., & Braithwaite, J. J. (2018). The depersonalized brain: New evidence supporting a distinction between depersonalization and derealization from discrete patterns of autonomic suppression observed in a non-clinical sample. *Consciousness and Cognition*, 63, 29-46. <https://doi.org/10.1016/j.concog.2018.06.008>

Braithwaite, J. J., Watson, D. G., & Dewe, H. (2017). Predisposition to out-of-body experience (OBE) is associated with aberrations in multisensory integration: Psychophysiological support from a “rubber hand illusion” study. *Journal of Experimental Psychology: Human Perception and Performance*, 43(6), 1125-1143. <https://doi.org/10.1037/xhp0000406>

Dewe, H., Watson, D., & Braithwaite, J. J. (2016). Uncomfortably numb: new evidence for suppressed emotional reactivity in response to body-threats in those predisposed to sub-clinical dissociative experiences. *Cognitive Neuropsychiatry*, 377-401. <https://doi.org/10.1080/13546805.2016.1212703>

### 74/14 – “Optogenetic circuit dissection of neural instructive signals for cerebellum-dependent learning”

Investigadores/Researchers: Dominique Leon Pritchett, Catarina Albergaria, Megan R. Carey

Instituição/Institution: Champalimaud Centre for the Unknown. Lisboa (Portugal)

Duração/Duration: 2015/06 – 2018/06

Peer-reviewed publications

Silva, N. T., Ramírez-Buriticá, J., Pritchett, D. L., & Carey, M. R. (2024). Climbing fibers provide essential instructive signals for associative learning. *Nature Neuroscience*, 27, 940–951. <https://doi.org/10.1038/s41593-024-01594-7>

Albergaria, C., Silva, N. T., Pritchett, D. L., & Carey, M. R. (2018). Locomotor activity modulates associative learning in mouse cerebellum. *Nature Neuroscience*, 21(5), 725-735. <https://doi.org/10.1038/s41593-018-0129-x>

### 83/14 – “Electrophysiological correlates of the incorporation of recent memory sources into REM and non-REM dreams and of levels of insight following REM and non-REM dream interpretation”

Investigadores/Researchers: Mark Blagrove, Chris Edwards, Jean-Baptiste Eichenlaub, Perrine Ruby

Instituição/Institution: College of Human and Health Sciences, Department of Psychology, Swansea University (UK)

Duração/Duration: 2015/03 – 2017/09

Peer-reviewed publications

Blagrove, M., Edwards, C., van Rijn, E., Reid, A., Malinowski, J., Bennett, P., Carr, M., Eichenlaub, J.-P., McGee, S., Evans, K., & Ruby, P. (2019). Insight from the Consideration of REM dreams, Non-REM Dreams and Daydreams. *Psychology of Consciousness: Theory, Research, and Practice*, 6(2), 138-162. <https://doi.org/10.1037/cns0000167>

van Rijn, E., Reid, A., Edwards, C., Malinowski, J., Ruby, P., Eichenlaub, J.-B., & Blagrove, M. (2018). Daydreams incorporate recent waking life concerns but do not show delayed (‘dream-lag’) incorporations. *Consciousness and Cognition*, 58, 51-59. <https://doi.org/10.1016/j.concog.2017.10.011>



**85/14 – “The clinical gut: Examining the cognitive processes and neural underpinnings of judgments, feelings of rightness and its impact on information seeking”**

Investigadores/Researchers: Ana Sofia Bilreiro Jacinto Braga, Anne Krendl, Cara Charissa Lewis, Cilia Witteman, Elizabeth Collins, João Braga

Instituição/Institution: Centro de Investigação e Intervenção Social (CIS-IUL), ISCTE - Instituto Universitário de Lisboa (Portugal); Department of Psychological and Brain Sciences - Indiana University Bloomington (USA)

Duração/Duration: 2015/05 – 2021/02

*Peer-reviewed publications*

Braga, J. N. & Jacinto, S. (2022). Effortless online shopping? How online shopping contexts prime heuristic processing. *Journal of Consumer Behavior*, 1-13. <https://doi.org/10.1002/cb.2032>

Jacinto, S., Braga, J. N., Ferreira, M., Collins, E. C., Krendl, A. C., & Lewis, C. C. (2021). Psychological disorder diagnosis is no cure for trait inferences bias. *Journal of Applied Social Psychology*, 51(11), 1061-1072. <https://doi.org/10.1111/jasp.12821>

Jacinto, S., Lewis, C., Braga, J., & Scott, K. (2018). A conceptual model for generating and validating in-session clinical judgments. *Psychotherapy Research*, 28(1), 91-105. <https://doi.org/10.1080/10503307.2016.1169329>

**87/14 – “Following my heart: Interoceptive sensitivity in infant cognitive development”**

Investigadores/Researchers: Emmanouil Tsakiris, Lara Maister

Instituição/Institution: Department of Psychology, Royal Holloway, University of London (UK)

Duração/Duration: 2015/09 – 2017/07

*Peer-reviewed publications*

Badoud, D., & Tsakiris, M. (2017). From the body's viscera to the body's image: Is there a link between interoception and body image concerns? *Neuroscience & Biobehavioral Reviews*, 77, 237-246. <https://doi.org/10.1016/j.neubiorev.2017.03.017>

Fotopoulou, A., & Tsakiris, M. (2017). Mentalizing homeostasis: the social origins of interoceptive inference. *Neuropsychanalysis*, 19(1), 3-28. <https://doi.org/10.1080/15294145.2017.1294031>

Maister, L., Tang, T., & Tsakiris, M. (2017). Neurobehavioral evidence of interoceptive sensitivity in early infancy. *eLife*, 6: e25318. <https://doi.org/10.7554/eLife.25318>

**118/14 – “Recursive consciousness training: Using neurofeedback to induce altered states”**

Investigadores/Researchers: Amir Raz, Niels Birbaumer, Robert T Thibault

Instituição/Institution: Montreal Neurological Institute, McGill University (Canada); Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen (Germany)

Duração/Duration: 2015/09 – 2017/11

*Peer-reviewed publications*

Thériault, R., Landry, M., & Raz, A. (2022). The Rubber hand illusion: Top-down attention modulates embodiment. *Quarterly Journal of Experimental Psychology*, 75(11), 2129-2148. <https://doi.org/10.1177/17470218221078858>

Thibault, R., Veissière, S., Olson, J. A., & Raz, A. (2018). Treating ADHD with suggestion: Neurofeedback and placebo therapeutics. *Journal of Attention Disorders*, 22(8) 707-711. <https://doi.org/10.1177/1087054718770012>

Landry, M., Stendel, M., Landry, M., & Raz, A. (2018). Hypnosis in palliative care: from clinical insights to the science of self-regulation. *Annals of Palliative Medicine*, 7(1), 125-135. <https://doi.org/10.21037/apm.2017.12.05>

Thibault, R. T., MacPherson, A., Lifshitz, M., Roth, R. R., & Raz, A. (2018). Neurofeedback with fMRI: A critical systematic review. *NeuroImage*, 172, 786-807. <https://doi.org/10.1016/j.neuroimage.2017.12.071>

Landry, M., Lifshitz, M., & Raz, A. (2017). Brain correlates of hypnosis: A systematic review and meta-analytic exploration. *Neuroscience & Biobehavioral Reviews*, 81(Pt A), 75-98. <https://doi.org/10.1016/j.neubiorev.2017.02.020>

Thibault, R. T., Lifshitz, M., & Raz, A. (2017). The climate of neurofeedback: Scientific rigour and the perils of ideology. *Brain*, 141(2), e11. <https://doi.org/10.1093/brain/awx330>

Thibault, R. T., & Raz, A. (2017). The psychology of neurofeedback: Clinical intervention even if applied placebo. *American Psychologist*, 72(7), 679-688.

Lifshitz, M., Thibault, R. T., Roth, R., & Raz, A. (2017). Source localization of brain states associated with canonical neuroimaging postures. *Journal of Cognitive Neuroscience*, 29(7), 1292-1301. [https://doi.org/10.1162/jocn\\_a\\_01107](https://doi.org/10.1162/jocn_a_01107)

Thibault, R. T., Lifshitz, M., & Raz, A. (2017). Neurofeedback or Neuroplacebo? *Brain*, 140(4), 862–864. <https://doi.org/10.1093/brain/awx033>

Thibault, R. T., & Raz, A. (2016). Imaging posture veils neural signals. *Frontiers in Human Neuroscience*, 10, 1-8. <https://doi.org/10.3389/fnhum.2016.00520>

Thibault, R. T., & Raz, A. (2016). Neurofeedback: The power of psychosocial therapeutics. *The Lancet Psychiatry*, 3(11), e18. [https://doi.org/10.1016/S2215-0366\(16\)30326-1](https://doi.org/10.1016/S2215-0366(16)30326-1)

Thibault, R. T., Lifshitz, M., & Raz, A. (2016). The self-regulating brain and neurofeedback: Experimental science and clinical promise. *Cortex*, 74, 247-261. <https://doi.org/10.1016/j.cortex.2015.10.024>

Thibault, R. T., & Raz, A. (2016). When can neurofeedback join the clinical armamentarium? *The Lancet Psychiatry*, 3(6), 497-498. [https://doi.org/10.1016/S2215-0366\(16\)30040-2](https://doi.org/10.1016/S2215-0366(16)30040-2)

Thibault, R. T., Lifshitz, M., & Raz, A. (2016). Body position alters human resting-state: Insights from multi-postural magnetoencephalography. *Brain Imaging and Behavior*, 10(3), 772-780. <https://doi.org/10.1007/s11682-015-9447-8>

#### **121/14 – “Maternal brain gain: Changes in neural representations and body perception during pregnancy”**

Investigadores/Researchers: Jane Aspell, Flavia Cardini

Instituição/Institution: Anglia Ruskin University, Cambridge (UK)

Duração/Duration: 2015/11 – 2019/06

##### *Peer-reviewed publications*

Cardini, F., Fatemi-Ghomi, N., Gajewska-Knapik, K., Gooch, V., & Aspell, J. E. (2019). Enlarged representation of peripersonal space in pregnancy. *Scientific Reports*, 9:8606. <https://doi.org/10.1038/s41598-019-45224-w>

#### **122/14 – “Internal and external world in parietal cortex”**

Investigador/Researcher: Paolo Capotosto

Instituição/Institution: Department of Neuroscience, Imaging and Clinical Science, University "G. D'Annunzio", Chieti (Italy)

Duração/Duration: 2015/02 – 2016/09

##### *Peer-reviewed publications*

Capotosto, P., Baldassarre, A., Sestieri, C., Spadone, S., Romani, G. L., & Corbetta, M. (2017). Task and regions specific top-down modulation of alpha rhythms in parietal. *Cerebral Cortex*, 27(10), 4815-4822. <https://doi.org/10.1093/cercor/bhw278>

Spadone, S., Sestieri, C., Baldassarre, A., & Capotosto, P. (2017). Temporal dynamics of TMS interference over preparatory alpha activity during semantic decisions. *Scientific Reports*, 7: 2372. <https://doi.org/10.1038/s41598-017-02616-0>

Baldassarre, A., Capotosto, P., Committeri, G., & Corbetta, M. (2016). Magnetic stimulation of visual cortex impairs perceptual learning. *Neuroimage*, 143: 250-255. <https://doi.org/10.1016/j.neuroimage.2016.08.063>

#### **128/14 – “Autonomic nerve recordings applied as a novel psychophysiological tool for Consciousness Science”**

Investigadores/Researchers: Hugo Dyfrig Critchley, Peter Taggart, Yrsa Sverrisdottir

Instituição/Institution: Brighton and Sussex Medical School, University of Sussex (UK); Department of Physiology, Anatomy and Genetics, University of Oxford (UK)

Duração/Duration: 2015/09 – 2021/11

##### *Peer-reviewed publications*

Critchley, H. D., Botan, V., & Ward, J. (2021). Absence of reliable physiological signature of illusory body ownership revealed by fine-grained autonomic measurement during the rubber hand illusion. *PLoS ONE*, 16(4): e0237282. <https://doi.org/10.1371/journal.pone.0237282>

Khalsa S.S., Adolphs R., Cameron O.G., Critchley H.D., Davenport P.W., .... the Interoception Summit 2016 participants (2018). Interoception and mental health: A roadmap. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 3(6), 501–513. <https://doi.org/10.1016/j.bpsc.2017.12.004>

#### **132/14 – “How memories form: Does consistency in neural activity promote successful learning?”**

Investigadores/Researchers: Louis Renoult, Fraser Smith

Instituição/Institution: School of Psychology, University of East Anglia, Norwich (UK)

Duração/Duration: 2015/01 – 2019/05

##### *Peer-reviewed publications*

Debrulle, J. B., Touzel, M., Segal, J., Snidal, C., & Renoult, L. (2019). A central component of the N1 event-related brain potential could index the early and automatic inhibition of the actions systematically

activated by objects. *Frontiers in Behavioral Neuroscience*, 13:95. <https://doi.org/10.3389/fnbeh.2019.00095>

Sievers, C., Bird, C.M., & Renoult, L. (2019). Predicting memory formation over multiple study episodes. *Learning & Memory*, 26, 465-472. <https://doi.org/10.1101/lm.049791.119>

#### **143/14 – “From audio-visual perception to action: The processing of spatio-temporal components”**

Investigadores/Researchers: Sandra Mouta, Joana Vieira

Instituição/Institution: Association/ZGDV – Centro de Computação Gráfica, Guimarães (Portugal)

Duração/Duration: 2015/10 – 2019/03

##### *Peer-reviewed publications*

Pazhoohi, F., Silva, C., Lamas, J., Mouta, S., Santos, J., & Arantes, J. (2018). The effect of height and shoulder-to-hip ratio on interpersonal space in virtual environment. *Psychological Research*. <https://doi.org/10.1007/s00426-017-0968-1>

Silva, R. M., Lamas, J., Silva, C. C., Coello, Y., Mouta, S., & Santos, J. A. (2017). Judging time-to-passage of looming sounds: Evidence for the use of distance-based information. *PLoS ONE*, 12(5): e0177734. <https://doi.org/10.1371/journal.pone.0177734>

Silva, C., Mouta, S., & Santos, J. (2016). Choosing audio devices on the basis of listeners' spatial perception: A case study of Headphones vs in-Earphones. In *Consumer Electronics-Berlin (ICCE-Berlin), 2016 IEEE 6th International Conference on Consumer Electronics* (pp. 129-132). IEEE, Berlín, Germany. <https://doi.org/10.1109/ICCE-Berlin.2016.7684737>

Silva, R. M., Sousa, E., Fonseca, P., Pinheiro, A. R., Silva, C., Correia, V. M., & Mouta, S. (2016). Analysis and quantification of upper-limb movement in motor rehabilitation after stroke. *Converging Clinical and Engineering Research on Neurorehabilitation II: Proceedings of the 3rd International Conference on NeuroRehabilitation (ICNR2016), October 18-21, 2016, Segovia, Spain* (pp. 209-213). [https://doi.org/10.1007/978-3-319-46669-9\\_37](https://doi.org/10.1007/978-3-319-46669-9_37)

#### **150/14 – “Measuring the Self: behavioural and neural correlates of bodily awareness”**

Investigadores/Researchers: Emmanuele Tidoni, Gaetano Tieri, Matteo Candidi, Salvatore Maria Aglioti

Instituição/Institution: Social Cognitive Neuroscience Laboratory, Department of Psychology, University of Rome "La Sapienza" (Italy)

Duração/Duration: 2015/02 – 2017/03

##### *Peer-reviewed publications*

Tieri, G., Morone, G., Paolucci, S., & Iosa, M. (2018). Virtual reality in cognitive and motor rehabilitation: facts, fiction and fallacies. *Expert Review of Medical Devices*, 15(2), 107-117. <https://doi.org/10.1080/17434440.2018.1425613>

Tidoni, E., Abu-Alqumsan, M., Leonardis, D., Kapeller, C., Fusco, G., ... Aglioti, S. M. (2017). Local and Remote Cooperation with Virtual and Robotic Agents: a P300 BCI Study in Healthy and People Living with Spinal Cord Injury. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 25(9), 1622-1632. <https://doi.org/10.1109/TNSRE.2016.2626391>

Fusco, G., Tidoni, E., Barone, N., Pilati, C., & Aglioti, S. M. (2016). Illusion of arm movement evoked by tendon vibration in patients with spinal cord injury. *Restorative Neurology and Neuroscience*, 34(5), 815-826. <https://doi.org/10.3233/RNN-160660>

Tidoni, E., Gergondet, P., Fusco, G., Kheddar, A., & Aglioti, S. (2016). The role of audiovisual feedback in a thought-based control of a humanoid robot: a BCI study in healthy and spinal cord injured people. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 25(6), 772-781. <https://doi.org/10.1109/TNSRE.2016.2597863>

Tidoni, E., Scandola, M., Orvalho, V., & Candidi, M. (2016). Apparent Biological Motion in First and Third Person Perspective. *I-Perception*, 7(5), 2041669516669156. <https://doi.org/10.1177/2041669516669156>

Tidoni, E., Tieri, G., & Aglioti, S. M. (2015). Re-establishing the disrupted sensorimotor loop in deafferented and deafferented people: The case of spinal cord injuries. *Neuropsychologia*, 79(Pt B), 301-309. <https://doi.org/10.1016/j.neuropsychologia.2015.06.029>

Tieri, G., Tidoni, E., Pavone, E. F., & Aglioti, S. M. (2015). Body visual discontinuity affects feeling of ownership and skin conductance responses. *Scientific Reports*, 5: 17139. <https://doi.org/10.1038/srep17139>

Tieri, G., Tidoni, E., Pavone, E. F., & Aglioti, S. M. (2015). Mere observation of body discontinuity affects perceived ownership and vicarious agency over a virtual hand. *Experimental Brain Research*, 233(4), 1247-1259. <https://doi.org/10.1007/s00221-015-4202-3>

#### 161/14 – “Individual differences in infants' stress reactivity”

Investigadores/Researchers: Edward Charles Tronick, Erin Duffy, Jennifer A. DiCorcia  
Instituição/Institution: Child Development Unit, University of Massachusetts Boston (USA)  
Duração/Duration: 2015/04 – 2018/06

##### *Peer-reviewed publications*

Mueller, I., Snidman, N., DiCorcia, J. A., & Tronick, E. (2021). Acute maternal stress disrupts infant regulation of the autonomic nervous system and behavior: A CASP study. *Frontiers in Psychiatry*, 12, 714664. <https://doi.org/10.3389/fpsy.2021.714664>

Tronick, E., Mueller, I., DiCorcia, J., Hunter, R., & Snidman, N. (2020). A caretaker acute stress paradigm: Effects on behavior and physiology of caretaker and infant. *Developmental Psychobiology*. <https://doi.org/10.1002/dev.21974>

#### 163/14 – “Sacred values underlying conflict proneness: A neuroimaging study of religious and nationalist radicals”

Investigadores/Researchers: Adolf Tobena, Clara Petrus, Joseph Hilferty, Oscar Vilarroya, Scott Atran  
Instituição/Institution: Department of Psychiatry and Forensic Medicine UAB, Bellaterra Campus (Spain)  
Duração/Duration: 2015/02 – 2019/04

##### *Peer-reviewed publications*

Tobena, A. (2021). *Fragmented Catalonia: Divisive legacies of a push for secession*. Lanham, Maryland: Policy Network/Rowman & Littlefield International.

Oller, J., Satorra, A., & Tobeña, A. (2020). Privileged rebels: A longitudinal analysis of distinctive economic traits of Catalanian secessionism. *Genealogy*, 4(1), 19. <https://doi.org/10.3390/genealogy4010019>

Hamid, N., Pretus, C., Atran, S., Crockett, M. J., Ginges, J., Sheikh, H., ... Vilarroya, O. (2019). Neuroimaging ‘will to fight’ for sacred values: an empirical case study with supporters of an Al Qaeda associate. *Royal Society Open Science*, 6: 181585. <https://doi.org/10.1098/rsos.181585>

Oller, J. M., Satorra, A., & Tobeña, A. (2019). Unveiling pathways for the fissure among secessionists and unionists in Catalonia: identities, family language, and media influence. *Palgrave Communications*, 5:148. <https://doi.org/10.1057/s41599-019-0357-z>

Pretus, C., Hamid, N., Sheikh, H., Gómez, Á., Ginges, J., Tobeña, A., Davis, R., Vilarroya, O., & Atran, S. (2019). Ventromedial and dorsolateral prefrontal interactions underlie will to fight and die for a cause. *Social Cognitive and Affective Neuroscience*, nsz034. <https://doi.org/10.1093/scan/nsz034>

Pretus, C., Hamid, N., Sheikh, H., Ginges, J., Tobeña, A., Davis, R., Vilarroya, O., & Atran, S. (2018). Neural and behavioral correlates of sacred values and vulnerability to violent extremism. *Frontiers in Psychology*, 9: 2462. <https://doi.org/10.3389/fpsyg.2018.02462>

Tobeña, A. (2018). Entrenched catalonia: A secessionist venture trapped on an ethno-political draw. *Psychology*, 9, 460-471. <https://doi.org/10.4236/psych.2018.93028>

Tobeña A. (2017). Secessionist urges in Catalonia: Media indoctrination and social pressure effects. *Psychology*, 8, 77-96. <https://doi.org/10.4236/psych.2017.81006>

#### 178/14 – “A study of the relationship between mindfulness, distraction and brain stimulation”

Investigadores/Researchers: Fabrice Parmentier, Javier Garcia-Campayo, Margalida Gili-Planas, Mauro García-Toro, Pilar Andrés  
Instituição/Institution: University of the Balearic Islands, Palma (Spain); Hospital Universitario Miguelñ Servet, Zaragoza (Spain)  
Duração/Duration: 2015/06 – 2019/07

##### *Peer-reviewed publications*

Parmentier, F., Mauro-García, M., García-Campayo, J., Yañez, A. M., Andrés, P., & Gili-Planas, M. (2019). Mindfulness and symptoms of depression and anxiety in the general population: The mediating roles of worry, rumination, reappraisal and suppression. *Frontiers in Psychology*, 10:506. <https://doi.org/10.3389/fpsyg.2019.00506>



**180/14 – “Cognitive mechanisms of word learning: Contributions from amnesic patients and healthy ageing”**

Investigadores/Researchers: Tânia Patrícia Gregório Fernandes, Ana Luísa Nunes Raposo, Maria Isabel Segurado Pavão Martins Catarino Petiz, Rita Isabel Saraiva Jerónimo

Instituição/Institution: Faculdade de Psicologia da Universidade de Lisboa - FP-ULisboa (Portugal)

Duração/Duration: 2016/02 – 2019/07

*Peer-reviewed publications*

Araújo, S., Fernandes, T., & Huettig, F. (2018). Learning to read facilitates the retrieval of phonological representations in rapid automatized naming: Evidence from unschooled illiterate, ex-illiterate, and schooled literate adults. *Developmental Science*, e12783. <https://doi.org/10.1111/desc.12783>

**184/14 – “Decoding neural representations of human tool use from fMRI response patterns”**

Investigadores/Researchers: Stephanie Batista Rossit, Fraser Wilson Smith

Instituição/Institution: School of Psychology, University of East Anglia, Norwich (UK)

Duração/Duration: 2015/10 – 2020/11

*Peer-reviewed publications*

Knights, E., Smith, F., & Rossit, S. (2022). The role of the anterior temporal cortex in action: Evidence from fMRI multivariate searchlight analysis during real object grasping. *Scientific Reports*, 12(1), 9042. <https://doi.org/10.1038/s41598-022-12174-9>

Knights, E., Mansfield, C., Tonin, D., Saada, J., Smith, F., & Rossit, S. (2021). Hand-selective visual regions represent how to grasp 3D tools: brain decoding during real actions. *Journal of Neuroscience*, 41(24), 5263-5273. <https://doi.org/10.1523/JNEUROSCI.0083-21.2021>

**206/14 – “Examination of brain coordination dynamics underlying hypnosis and volitional acts using intracranial electroencephalography”**

Investigadores/Researchers: Jose Luis Perez Velazquez, Navinder Persaud, Taufik A. Valiante

Instituição/Institution: Hospital for Sick Children, Neurology, University of Toronto (Canada); Toronto Western Hospital (Canada)

Duração/Duration: 2015/05 – 2017/11

*Peer-reviewed publications*

Gómez-Ramírez, J., Freedman, S., Mateos, D., Perez Velazquez, J. L., & Valiante, T. (2017). Exploring the alpha desynchronization hypothesis in resting state networks with intracranial electroencephalography and wiring cost estimates. *Scientific Reports*, 7(1):15670. <https://doi.org/10.1038/s41598-017-15659-0>

**207/14 – “The role of astrocytes in complex cognitive processing”**

Investigadores/Researchers: João Filipe Pedreira de Oliveira, Joana Correia, Luísa Pinto, Nuno Dias, Sónia Guerra Gomes, Vanessa Sardinha, Inês Caetano Campos

Instituição/Institution: Life and Health Sciences Research Institute - ICVS/3B's - Government Associate Laboratory, Universidade do Minho, Braga (Portugal)

Duração/Duration: 2015/10 – 2019/11

*Peer-reviewed publications*

Canedo, T., Portugal, C. C., Socodato, R., Almeida, T., Terceiro, A., Bravo, J., Silva, A., Magalhães, J., Guerra-Gomes, S., Oliveira, J. F., Sousa, N., Magalhães, A., Relvas, J., & Summavielle, T. (2021). Astrocyte-derived TNF and glutamate critically modulate microglia activation by methamphetamine. *Neuropsychopharmacology*, 46(13), 2358–2370. <https://doi.org/10.1038/s41386-021-01139-7>

Campos, J., Guerra-Gomes, S., Serra, S. C., Baltazar, G., Oliveira, J. F., Teixeira, F. G., & Salgado, A. J. (2020). Astrocyte signaling impacts the effects of human bone marrow mesenchymal stem cells secretome application into the hippocampus: A proliferation and morphometrical analysis on astrocytic cell populations. *Brain Research*, 1732: 146700. <https://doi.org/10.1016/j.brainres.2020.146700>

Guerra-Gomes, S., Cunha-Garcia, D., Marques Nascimento, D. S., Duarte-Silva, S., Loureiro-Campos, E., Morais Sardinha, V., ... Oliveira, J. F. (2020). IP3R2 null mice display a normal acquisition of somatic and neurological development milestones. *European Journal of Neuroscience*. <https://doi.org/10.1111/ejn.14724>

Rodrigues, J. A., Pimenta, S., Pereira, J. P., Gomes, N. M., Souto, M. R., Fernandes, H. C., ... Correia, J. H. (2020). Low-cost silicon neural probe: fabrication, electrochemical characterization and in vivo validation. *Microsystem Technologies*. <https://doi.org/10.1007/s00542-020-04898-3>

Falcón-Moya, R., Pérez-Rodríguez, M., Prius-Mengual, J., Andrade-Talavera, Y., Arroyo-García, L. E., Pérez-Artés, R., ..., Rodríguez-Moreno, A. (2020). Astrocyte-mediated switch in spike timing-dependent

plasticity during hippocampal development. *Nature Communications*, 11, Article number: 4388. <https://doi.org/10.1038/s41467-020-18024-4>

Guerra-Gomes, S., Sousa, N., Pinto, L., & Oliveira, J. F. (2018). Functional roles of astrocyte calcium elevations: From synapses to behavior. *Frontiers in Cellular Neuroscience*, 11: 427. <https://doi.org/10.3389/fncel.2017.00427>

Guerra-Gomes, S., Viana, J. F., Correia, J. S., Caetano, I., Sardinha, V. M., Sousa, N., Pinto, L., & Oliveira, J. F. (2018). The role of astrocytic calcium signaling in the aged prefrontal cortex. *Frontiers in Cellular Neuroscience*, 12: 379. <https://doi.org/10.3389/fncel.2018.00379>

Kafetzopoulos, V., Kokras, N., Sotiropoulos, I., Oliveira, J. F., Leite-Almeida, H., Vasalou, A., Sardinha, V. M., Papadopoulou-Daifoti, Z., Almeida, O. F., Antoniou, K., Sousa, N., & Dalla, C. (2018). The nucleus reuniens: a key node in the neurocircuitry of stress and depression. *Molecular Psychiatry*, 23(3), 579-586. <https://doi.org/10.1038/mp.2017.55>

Sardinha, V. M., Martins, M., Reis, J. S., Correia, J. S., Teixeira-Castro, A., ..., Oliveira, J. F. (2017). Astrocytic signaling supports hippocampal-prefrontal theta synchronization and cognitive function. *Glia*, 65(12), 1-17. <https://doi.org/10.1002/glia.23205>

Tavares, G., Martins, M., Correia, J. S., Sardinha, V. M., Guerra-Gomes, S., Neves, S. P., Marques, F., Sousa, N., & Oliveira, J. F. (2017). Employing an open-source tool to assess astrocyte tridimensional structure. *Brain Structure and Function*, 222(4), 1989-1999. <https://doi.org/10.1007/s00429-016-1316-8>

Oliveira, J. F., Gomes, C. A., Vaz, S. H., Sousa, N., & Pinto, L. (2016). Editorial: Glial Plasticity in Depression. *Frontiers in Cellular Neuroscience*, 10: 163. <https://doi.org/10.3389/fncel.2016.00163>

## **228/14 – “Pushing consciousness and selfhood towards their boundaries - An EEG neurophenomenological study”**

Investigadores/Researchers: Joseph Glicksohn, Aviva Berkovich-Ohana, Tal Dotan Ben-Soussan  
Instituição/Institution: Bar-Ilan University, Ramat Gan (Israel); Fondazione Patrizio Paoletti, Assisi (Italy)  
Duração/Duration: 2015/02 – 2019/03

### *Peer-reviewed publications*

Glicksohn, J., & Ben-Soussan, T. D. (2020). Immersion, absorption, and spiritual experience: Some preliminary findings. *Frontiers in Psychology*, 11: 2118. <https://doi.org/10.3389/fpsyg.2020.02118>

Lavy, S., & Berkovich-Ohana, A. (2020). From teachers' mindfulness to students' thriving: The mindful self in school relationships (MSSR) model. *Mindfulness*, 11, 2258–2273. <https://doi.org/10.1007/s12671-020-01418-2>

Ben-Soussan, T. D., Mauro, F., Lasaponara, S., Glicksohn, J., Marson, F., & Berkovich-Ohana, A. (2019). Fully immersed: State absorption and electrophysiological effects of the OVO Whole-Body Perceptual Deprivation chamber. *Progress in Brain Research*, 244, 165-184. <https://doi.org/10.1016/bs.pbr.2018.10.023>

Berkovich-Ohana, A., Jennings, P. A., & Lavy, S. (2019). Contemplative neuroscience, self-awareness, and education. In N. Srinivasan (Ed.), *Progress in brain research: Meditation* (Vol. 244, pp. 355–385). Elsevier Academic Press. <https://doi.org/10.1016/bs.pbr.2018.10.015>

Glicksohn, J., & Berkovich-Ohana, A. (2019). When meditators avoid counting during time production things get interesting. *PsyCh Journal*, 8, 17–27. <https://doi.org/10.1002/pchj.250>

Glicksohn, J., Berkovich-Ohana, A., Mauro, F., & Ben-Soussan, T. D. (2019). Individual EEG alpha profiles are gender-dependent and indicate subjective experiences in whole-body perceptual deprivation. *Neuropsychologia*, 125, 81-92. <https://doi.org/10.1016/j.neuropsychologia.2019.01.018>

Millière, R., Carhart-Harris, R. L., Roseman, L., Trautwein, F. M., & Berkovich-Ohana, A. (2018). Psychedelics, meditation, and self-consciousness. *Frontiers in Psychology*, 9: 1475. <https://doi.org/10.3389/fpsyg.2018.01475>

Berkovich-Ohana, A., & Wittmann, M. (2017). A typology of altered states according to the consciousness state space (CSS) model: A special reference to subjective time. *Journal of Consciousness Studies*, 24, 37-61.

Glicksohn, J., Berkovich-Ohana, A., Mauro, F., & Ben-Soussan, T. D. (2017). Time perception and the experience of time when immersed in an altered sensory environment. *Frontiers in Human Neuroscience*, 11:487. <https://doi.org/10.3389/fnhum.2017.00487>

**233/14 – “Training anomalous cognition in a motor task with subliminal auditory feedback”**

Investigador/Researcher: John Albert Palmer

Instituição/Institution: Rhine Research Center, Durham, NC (USA)

Duração/Duration: 2015/04 – 2018/02

*Peer-reviewed publications*

Palmer, J. (2018). Training anomalous cognition in a motor task with subliminal auditory feedback. *Journal of Parapsychology*, 82, 132-147. <https://doi.org/10.30891/jopar.2018.02.05>

**234/14 – “Inhibitory processing in the aging brain: Disentangling the effects of age, chronotype, time of day and executive control”**

Investigadores/Researchers: José Augusto Simões Gonçalves Leitão, Ana Cardoso Allen Gomes, Chiara Guerrini, Isabel Maria Barbas dos Santos

Instituição/Institution: Centro de Investigação do Núcleo de Estudos e Intervenção Cognitivo-Comportamental - CINEICC, Universidade de Coimbra (Portugal)

Duração/Duration: 2016/01 – 2020/09

*Peer-reviewed publications*

Pires, L., Leitão, J., Guerrini, C., & Simões, M. R. (2017). Cognitive control during a spatial Stroop task: Comparing conflict monitoring and prediction of response-outcome theories. *Acta Psychologica*. <https://doi.org/10.1016/j.actpsy.2017.06.009>

**242/14 – “The role of affective dimensions in the perception of facial expressions of emotion: Neuropsychophysiological, developmental, and neuroimaging examination of an affective predictive coding framework”**

Investigadores/Researchers: Fernando Ricardo Ferreira Santos, Eva Inês Costa Martins, Francisco Sá Ferreira Loureiro Pipa, Manuel Fernando Santos Barbosa, Michelle de Haan, Pedro Manuel Rocha Almeida, Tiago de Oliveira Paiva, Torsten Baldeweg

Instituição/Institution: Laboratory of Neuropsychophysiology - Faculty of Psychology and Educational Sciences of the University of Porto (Portugal)

Duração/Duration: 2015/10 – 2021/01

*Peer-reviewed publications*

Lee, K. M., Ferreira-Santos, F., & Satpute, A. B. (2021). Predictive processing models and affective neuroscience. *Neuroscience & Biobehavioral Reviews*, 131, 211-228. <https://doi.org/10.1016/j.neubiorev.2021.09.009>

Pereira, M. R., Barbosa, F., de Haan, M., & Ferreira-Santos, F. (2019). Understanding the development of face and emotion processing under a predictive processing framework. *Developmental Psychology*, 55(9), 1868-1881. <https://doi.org/10.1037/dev0000706>

Ferreira-Santos, F. (2016). The role of arousal in predictive coding (Commentary). *Behavioral and Brain Sciences*, 39, e207. <https://doi.org/10.1017/S0140525X15001788>

Ferreira-Santos, F. (2015). Facial emotion processing in the laboratory (and elsewhere): Tradeoffs between stimulus control and ecological validity. *AIMS Neuroscience*, 2(4), 236-239. <https://doi.org/10.3934/Neuroscience.2015.4.236>

**244/14 – “Induced brain plasticity after perinatal stroke: Structural and functional connectivity”**

Investigadores/Researchers: Antoni Rodríguez-Fornells, Alfredo García-Alix, Carme Fons, Clément François, Jordi Muchart, Laura Bosch, Mónica Rebollo, Pablo Ripollés

Instituição/Institution: Department of Basic Psychology, University of Barcelona (Spain); Hospital Sant Joan de Deu, Esplugues de Llobregat (Spain)

Duração/Duration: 2015/02 – 2017/09

*Peer-reviewed publications*

François, C., Ferreri, L., Ripollés, P., Garcia-Alix, A., Rodríguez-Fornells, A., & Bosch, L. (2026). Evidence for a role of memory in novel word-learning after perinatal stroke. *Brain and Language*, 274, 105707. <https://doi.org/10.1016/j.bandl.2026.105707>

François, C., Garcia-Alix, A., Bosch, L., & Rodríguez-Fornells, A. (2021). Signatures of brain plasticity supporting language recovery after perinatal arterial ischemic stroke. *Brain and Language*, 212, 10488. <https://doi.org/10.1016/j.bandl.2020.104880>

François, C., Ripollés, P., Ferreri, L., Muchart, J., Sierpowska, J., Fons, C., ... Rodríguez-Fornells, A. (2019). Right structural and functional reorganization in four-year-old children with perinatal arterial ischemic stroke predict language production. *eNeuro*, 6(4). <https://doi.org/10.1523/ENEURO.0447-18.2019>

François, C., Ripollés, P., Bosch, L., Garcia-Alix, A., Muchart, J., ..., Rodriguez-Fornells, A. (2016). Language learning and brain reorganization in a 3.5-year-old child with left perinatal stroke revealed using structural and functional connectivity. *Cortex*, 77, 95-118.

**246/14 – “Anomalous/paranormal experiences reported by nurses themselves and in relation with theirs patients in hospitals: Examining psychological, personality and phenomenological variables”**

Investigador/Researcher: Alejandro Enrique Parra

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina)

Duração/Duration: 2015/03 – 2017/03

*Peer-reviewed publications*

Parra, A. (2019). Paranormale oplevelser i sykehus. *Parapsykologiske Notiser*, 88, 13-19.

Parra, A. (2018). A follow-up study on unusual perceptual experiences in hospital settings related by nurses. *Journal of Scientific Exploration*, 32(4), 681–688.

Parra, A. (2018). Experiencias perceptuales inusuales en personal de enfermería y su relación con estrés laboral, esquizotipia, absorción y empatía. *Enfermería Universitaria*, 15(1), 63-78.

Parra, A. (2017). Factores de personalidad, perceptuales y cognitivas asociadas con las experiencias anómalo/paranormales en personal de enfermería. *Cuidarte*, 8(3), 78-87

**251/14 – “Signal or noise? Using a psychophysical approach to investigate the effects of attention and neurofeedback training on electrocortical predictive anticipatory activity (PAA) to true random stimuli”**

Investigadores/Researchers: Michael Franklin, Jonathn Schooler, Stephen Baumgart

Instituição/Institution: Department of Psychology and Brain Sciences, University of California at Santa Barbara (USA)

Duração/Duration: 2015/04 – 2024/01

*Peer-reviewed publications*

Schooler, J. W., Baumgart, S., & Franklin, M. (2018). Entertaining without endorsing: The case for the scientific investigation of anomalous cognition. *Psychology of Consciousness: Theory, Research, and Practice*, 5(1), 63–77. <https://doi.org/10.1037/cns0000151>

Baumgart, S., Franklin, M., Jimbo, H., Su, S., & Schooler, J. N. (2017). Prediction of truly random future events using analysis of prestimulus electroencephalographic data. *AIP Conference Proceedings*, 1841(1), 030002. <https://doi.org/10.1063/1.4982773>

**253/14 – “The impact of lipid signaling modulation in cognition”**

Investigadores/Researchers: Tiago Gil Rodrigues Oliveira, Isabel Maria Sousa Castanho, Neide Marina Vieira Pereira, Rita Catarina Ribeiro da Silva, Vítor Manuel da Silva Pinto

Instituição/Institution: Life and Health Sciences Institute - ICVS, School of Health Sciences, University of Minho, Braga (Portugal)

Duração/Duration: 2015/05 – 2019/09

*Peer-reviewed publications*

Marinha, L., Castanho, I., Silva, R. R., Bravo, F. V., Miranda, A. M., Meira, T., ... Oliveira, T. G. (2020). Phospholipase D1 ablation disrupts mouse longitudinal hippocampal axis organization and functioning. *Cell Reports*, 30(12), 4197-4208. <https://doi.org/10.1016/j.celrep.2020.02.102>

Miranda, A. M., Bravo, F. V., Chan, R. B., Sousa, N., Di Paolo, G., & Oliveira, T. G. (2019). Differential lipid composition and regulation along the hippocampal longitudinal axis. *Translational Psychiatry*, 9: 144. <https://doi.org/10.1038/s41398-019-0478-6>

**257/14 – “Genetics of psychic ability”**

Investigadores/Researchers: Dean Radin, Garret Yount, Garry Nolan

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA); Stanford University (USA)

Duração/Duration: 2015/07 – 2019/06

*Peer-reviewed publications*

Wahbeh, H., Radin, D., Yount, G., Woodley of Menie, M. A., Sarraf, M. A., & Karpuj, M. V. (2021). Genetics of psychic ability - A pilot case-control exome sequencing study. *Explore*, 18(3), 264–271. <https://doi.org/10.1016/j.explore.2021.02.014>

Wahbeh, H., McDermott, K., & Sagher, A. (2018). Dissociative symptoms and anomalous information reception. *Activitas Nervosa Superior*, 60(3-4), 75-85. <https://doi.org/10.1007/s41470-018-0023-6>

Wahbeh, H., & Radin, D. (2018). People reporting experiences of mediumship have higher dissociation symptom scores than non-mediums, but below thresholds for pathological dissociation [version



3; peer review: 2 approved, 1 not approved]. *F1000Research*, 6:1416. <https://doi.org/10.12688/f1000research.12019.3>

#### **260/14 – “Psi-Q: A smartphone testing suite for psi ability”**

Investigadores/Researchers: Dean Radin, Arnaud Delorme

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2015/07 – 2017/07

##### *Peer-reviewed publications*

Mossbridge, J., Cameron, K., & Boccuzzi, M. (2024). State, trait, and target parameters associated with accuracy in two online tests of precognitive remote winwin. *Journal of Anomalous Experience and Cognition*, 4(1), 88–121. <https://doi.org/10.31156/jaex.24743>

Mossbridge, J. A., Nisam, M., & Crabtree, A. (2021). Can hypnotic suggestion induce feelings of unconditional love and supernormal performance? *Spirituality in Clinical Practice*, 8(1), 30–50. <https://doi.org/10.1037/scp0000239>

Mossbridge, J., & Radin, D. (2021). Psi performance as a function of demographic and personality factors in smartphone-based tests: Using a “SEARCH” approach. *Journal of Anomalous Experience and Cognition*, 1(1-2), 18-113. <https://doi.org/10.31156/jaex.23419>

Mossbridge, J. A., & Radin, D. (2018). Precognition as a form of prospection: A review of the evidence. *Psychology of Consciousness: Theory, Research, and Practice*, 5(1), 78–93. <https://doi.org/10.1037/cns0000121>

Mossbridge, J. A., & Radin, D. (2018). Plausibility, statistical interpretations, physical mechanisms and a new outlook: Response to commentaries on a precognition review. *Psychology of Consciousness: Theory, Research, and Practice*, 5(1), 110–116. <https://doi.org/10.1037/cns0000152>

#### **267/14 – “The neurophysiology of vocal imitation of speech”**

Investigadores/Researchers: Patricia Martine Adank, Joseph Devlin

Instituição/Institution: UCL, Speech Hearing and Phonetic Sciences, Division of Psychology and Language, London (UK)

Duração/Duration: 2015/10 – 2017/11

##### *Peer-reviewed publications*

Virhia, J., Kotz, S. A., & Adank, P. (2019). Emotional state dependence facilitates automatic imitation of visual speech. *Quarterly Journal of Experimental Psychology*, 72(12), 2833-2847. <https://doi.org/10.1177/1747021819867856>

Wu, Y., Evans, B. G., & Adank, P. (201). Sensorimotor training modulates automatic imitation of visual speech. *Psychonomic Bulletin & Review*, 26, 1711–1718. <https://doi.org/10.3758/s13423-019-01623-8>

Adank, P. M., Kennedy-Higgins, D., Maegherman, G., Hannah, R., & Nuttall, H. (2018). Effects of coil orientation on motor evoked potentials from orbicularis oris and first dorsal interosseus. *Frontiers in Neuroscience*, 12: 683. <https://doi.org/10.3389/fnins.2018.00683>

Adank, P., Nuttall, H. E., Maegherman, G., & Bekkering, H. (2018). Effects of stimulus response compatibility on covert imitation of vowels. *Attention, Perception, and Psychophysics*, 80(5), 1290-1299. <https://doi.org/10.3758/s13414-018-1501-3>

Adank, P. M., Nuttall, H., & Kennedy-Higgins, D. (2017). Transcranial magnetic stimulation and motor evoked potentials in speech perception research. *Language, Cognition and Neuroscience*, 32(7), 1-10. <https://doi.org/10.1080/23273798.2016.1257816>

#### **269/14 – “Vestibular updating and the continuity of awareness”**

Investigadores/Researchers: Patrick Haggard, Elisa Raffaella Ferre, Maria Gallagher, Giulia Elena

Instituição/Institution: Institute of Cognitive Neuroscience, University College London (UK)

Duração/Duration: 2015/10 – 2017/11

##### *Peer-reviewed publications*

Ferrè, E. R., & Haggard, P. (2020). Vestibular cognition: State-of-the-art and future directions. *Cognitive Neuropsychology*, 37(7-8), 413-420. <https://doi.org/10.1080/02643294.2020.1736018>

Abekawa, N., Ferrè, E., Gallagher, M., Gomi, H., & Haggard, P. (2018). Disentangling the visual, motor and representational effects of vestibular input. *Cortex*, 104, 46-57. <https://doi.org/10.1016/j.cortex.2018.04.003>

Ferrè, E., Iannetti, G., van Dijk, J., & Haggard, P. (2018). Ineffectiveness of tactile gating shows cortical basis of nociceptive signaling in the Thermal Grill Illusion. *Scientific Reports*, 8: 6584. <https://doi.org/10.1038/s41598-018-24635-1>

Török, Á., Ferrè, E. R., Kokkinara, E., Csépe, V., Swapp, D., & Haggard, P. (2017). Up, down, near, far: an online vestibular contribution to distance judgement. *PLoS one*, 12(1), e0169990.

Cataldo, A., Ferrè, E., di Pellegrino, G., & Haggard, P. (2016). Thermal referral: evidence for a thermoceptive uniformity illusion without touch. *Scientific Reports*, 6: 35286. <https://doi.org/10.1038/srep35286>

Ferrè, E. R., & Haggard, P. (2016). The vestibular body: Vestibular contributions to bodily representations. *Cognitive Neuropsychology*, 33(1-2), 67-81. <https://doi.org/10.1080/02643294.2016.1168390>

Ferrè, E. R., Haggard, P., Bottini, G., & Iannetti, G. D. (2015). Caloric vestibular stimulation modulates nociceptive evoked potentials. *Experimental Brain Research*, 233, 3393–3401. <https://doi.org/10.1007/s00221-015-4412-8>

#### **277/14 – “Cortical excitability and connectivity in the lifespan: a neurophysiological study”**

Investigadores/Researchers: Anna Fertonani, Cornelia Pirulli, Alice Bollini

Instituição/Institution: IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli, Brescia (Italy)

Duração/Duration: 2015/09 – 2019/06

##### *Peer-reviewed publications*

Fertonani, A., Pirulli, C., Bollini, A., Miniussi, C., & Bortoletto, M. (2019). Age-related changes in cortical connectivity influence the neuromodulatory effects of transcranial electrical stimulation. *Neurobiology of Aging*, 82, 77-87. <https://doi.org/10.1016/j.neurobiolaging.2019.07.009>

Fertonani, A., & Miniussi, C. (2017). Transcranial electrical stimulation: What we know and do not know about mechanisms. *The Neuroscientist*, 23(2), 109-123. <https://doi.org/10.1177/1073858416631966>

#### **282/14 – “The mindful eye: Smooth pursuit and saccadic eye movements in meditators and non-meditators”**

Investigadores/Researchers: Veena Kumari, Elena Antonova

Instituição/Institution: Institute of Psychiatry, King's College London (UK)

Duração/Duration: 2015/04 – 2016/08

##### *Peer-reviewed publications*

Antonova, E., Amaratunga, K., Wright, B., Ettinger, U., & Kumari, V. (2016). Schizotypy and mindfulness: Magical thinking without suspiciousness characterizes mindfulness meditators. *Schizophrenia Research: Cognition*, 5, 1-6. <https://doi.org/10.1016/j.sch.2016.05.001>

Kumari, V., Antonova, E., Wright, B., Hamid, A., Hernandez, E., Schmechtig, A., & Ettinger, U. (2016). The mindful eye: Smooth pursuit and saccadic eye movements in meditators and non-meditators. *Consciousness and Cognition*, 48, 66-75. <https://doi.org/10.1016/j.concog.2016.10.008>

#### **283/14 – “Identifying and characterizing the neuronal circuits required for nutrient choice and their effects on aging”**

Investigadores/Researchers: Carlos Ribeiro, Ana Paula Elias, Matthew D. W. Piper, Samantha Herbert, Samuel Walker

Instituição/Institution: Champalimaud Centre for the Unknown, Lisboa (Portugal)

Duração/Duration: 2015/05 – 2017/07

##### *Peer-reviewed publications*

Moreira, J. M., Itskov, P. M., Goldschmidt, D., Baltazar, C., Steck, K., Tastekin, I., Walker, S. J., & Ribeiro, C. (2019). optoPAD, a closed-loop optogenetics system to study the circuit basis of feeding behaviors. *eLife*, 8: e43924. <https://doi.org/10.7554/eLife.43924>

Carvalho-Santos, Z., & Ribeiro, C. (2018). Gonadal ecdysone titers are modulated by protein availability but do not impact protein appetite. *Journal of Insect Physiology*, 106, 30-35. <https://doi.org/10.1016/j.jinsphys.2017.08.006>

Steck, K., Walker, S. J., Itskov, P. M., Baltazar, C., Moreira, J.-M., & Ribeiro, C. (2018). Internal amino acid state modulates yeast taste neurons to support protein homeostasis in *Drosophila*. *eLife*, 7, e31625.

Leitão-Gonçalves, R., Francisco, A. P., Carvalho-Santos, Z., Fioreze, G. T., Anjos, M., Baltazar, C., Elias, A. P., Itskov, P. M., Piper, M. D., & Ribeiro, C. (2017). Commensal bacteria and essential amino acids control food choice behavior and reproduction. *PLoS Biology*, 15(4): e2000862. <https://doi.org/10.1371/journal.pbio.2000862>

Piper, M. D. W., Soultoukis, G. A., Blanc, E., Mesaros, A., Herbert, S. L., He, X., Juricic, P., Salmonowicz, H., Yang, M., Simpson, S. J., Ribeiro, C., & Partridge, L. (2017). Matching dietary amino acid balance to the in silico-translated exome optimizes growth and reproduction without cost to lifespan. *Cell Metabolism*, 25(3), 610-621. <https://doi.org/10.1016/j.cmet.2017.02.005>

Walker, S., Walker, S., & Ribeiro, C. (2017). Craving for the future: The brain as a nutritional prediction system. *Current Opinion in Insect Science*, 23, 96-103. <https://doi.org/10.1016/j.cois.2017.07.013>

Schwabe, L., Lopez-Bendito, G., & Ribeiro, C. (2016). Getting published: how to write a successful neuroscience paper. *European Journal of Neuroscience*, 43(8), 992-996. <https://doi.org/10.1111/ejn.13215>

#### **287/14 – “Cryptochrome (CRY) and intention”**

Investigadores/Researchers: Yung-Jong Shiah, Hsu-Liang Hsieh, Dean Radin

Instituição/Institution: Graduate Institute of Counseling Psychology and Rehabilitation Counseling of the National Kaohsiung Normal University, Kaohsiung (Taiwan); Photobiology Lab, Taipei (Taiwan)

Duração/Duration: 2015/09 – 2017/06

##### *Peer-reviewed publications*

Shiah, Y.-J., Hsieh, H.-L., Chen, H.-J., & Radin, D. (2020). Effects of intentionally treated water and seeds on the growth of *Arabidopsis thaliana*. *Explore: The Journal of Science & Healing*. <https://doi.org/10.1016/j.explore.2020.04.006>

Shiah, Y.-J., Hsieh, H.-L., Chen, H.-J., & Radin, I. D. (2017). Effects of intentionally treated water on growth of *Arabidopsis thaliana* seeds with cryptochrome mutation. *EXPLORE: The Journal of Science & Healing*, 13(6), 371-378. <https://doi.org/10.1016/j.explore.2017.05.001>

#### **299/14 – “Neurofeedback-based adaptive audiovisual tutorial for enhancing multi-modal learning”**

Investigadores/Researchers: Rainer Wilhelm Goebel, Gal Raz, Talma Hendler

Instituição/Institution: Maastricht Brain Imaging Centre, Maastricht University (The Netherlands); The Medical Research Infrastructure and health services fund at the Tel Aviv Medical center (Israel)

Duração/Duration: 2015/12 – 2023/05

##### *Peer-reviewed publications*

Raz, G., Valente, G., Svanera, M., Benini, S., & Kovacs, A. M. (2019). A robust neural fingerprint of cinematic shot-scale. *Projections - The Journal for Movies and Mind*, 13(3), 23-52. <https://doi.org/10.3167/proj.2019.130303>

Raz, G., Svanera, M., Singer, N., Gilam, G., Cohen, M. B., Lin, T., ..., Valente, G. (2017). Robust inter-subject audiovisual decoding in functional magnetic resonance imaging using high-dimensional regression. *NeuroImage*, 163, 244-263. <https://doi.org/10.1016/j.neuroimage.2017.09.032>

#### **304/14 – “The impact of music training on reading and mathematical abilities of normal and reading disabled children: a behavioral and neuroimaging longitudinal study”**

Investigadores/Researchers: Maria de São Luís Vasconcelos da Fonseca e Castro Schöner, Christian Gaser, Daniela da Costa Coimbra, Marta Sofia Pinto Martins

Instituição/Institution: Faculty of Psychology and Educational Sciences at University of Porto, FPCEUP / Centre for Psychology at University of Porto (Portugal); Structural Brain Mapping Group/ Department of Psychiatry - Jena University Hospital (Germany)

Duração/Duration: 2015/10 – 2019/09

##### *Peer-reviewed publications*

Martins, M., Reis, A. M., Gaser, C., & Castro, S. L. (2023). Individual differences in rhythm perception modulate music-related motor learning: a neurobehavioral training study with children. *Scientific Reports*, 13(1), 21552. <https://doi.org/10.1038/s41598-023-48132-2>

Sousa, J., Martins, M., Torres, N., Castro, S. L., & Silva, S. (2022). Rhythm but not melody processing helps reading via phonological awareness and phonological memory. *Scientific Reports*, 12(1), 13224. <https://doi.org/10.1038/s41598-022-15596-7>

Martins, M., Reis, A. M., Castro, S. L., & Gaser, C. (2021). Gray matter correlates of reading fluency deficits: SES matters, IQ does not. *Brain Structure and Function*, 226, 2585-2601. <https://doi.org/10.1007/s00429-021-02353-1>

Correia, A. I., Branco, P., Martins, M., Reis, A. M., Martins, N., Castro, S. L., & Lima, C. F. (2019). Resting-state connectivity reveals a role for sensorimotor systems in vocal emotional processing in children. *NeuroImage*, 201, 116052. <https://doi.org/10.1016/j.neuroimage.2019.116052>

Martins, M., Silva, S., & Castro, S. L. (2019). Perceiving rhythmic repetition and change across development: Effects of concurrent pitch. *Empirical Studies of the Arts*. <https://doi.org/10.1177/0276237418822895>

Cordeiro, C., Castro, S. L., & Limpo, T. (2018). Examining potential sources of gender differences in writing: The role of handwriting fluency and self-efficacy beliefs. *Written Communication*, 35(4), 448-473. <https://doi.org/10.1177/0741088318788843>

Martins, M., Neves, L., Rodrigues, P., Vasconcelos, O., & Castro, S. L. (2018). Orff-based music training enhances children's manual dexterity and bimanual coordination. *Frontiers in Psychology*, 9, 2616. <https://doi.org/10.3389/fpsyg.2018.02616>

Castro, S. L., & Martins, M. (2015). Rhythm perception in children: The roles of age, sex and prematurity. *Proceedings of the 17th European Conference on Developmental Psychology* (pp. 151-156). Bologna, Italy: Medimond Publishing Company.

### **308/14 – “A study of heterogeneity in parapsychological databases”**

Investigador/Researcher: Peter Amalric Bancel

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA); Institut Métapsychique International, Paris (France)

Duração/Duration: 2015/06 – 2018/05

*Peer-reviewed publications*

Bancel, P. A. (2017). Searching for global consciousness: A 17-year Exploration. *EXPLORE: The Journal of Science and Healing*, 13(2), 94-101.

### **318/14 – “Neural correlates of tracking changing positions of objects”**

Investigadores/Researchers: Christina Jayne Howard, Matthew K Belmonte

Instituição/Institution: Division of Psychology, Nottingham Trent University (UK)

Duração/Duration: 2015/02 – 2017/07

*Peer-reviewed publications*

Howard, C., Boulton, H., Briwn, E., Arnold, C., Belmonte, M., & Mitra, S. (2018). Engagement of the motor system in position monitoring: reduced distractor suppression and effects of internal representation quality on motor kinematics. *Experimental Brain Research*, 236: 1445-1460. <https://doi.org/10.1007/s00221-018-5234-2>

Howard, C. J., Arnold, C. P., & Belmonte, M. K. (2017). Slower resting alpha frequency is associated with superior localisation of moving targets. *Brain and Cognition*, 117, 97-107. <https://doi.org/10.1016/j.bandc.2017.06.008>

### **320/14 – “Affiliative touch & Emotion regulation”**

Investigadores/Researchers: Francis McGlone, Peter Cannon, Ralph Pawling, Susannah Claire Walker

Instituição/Institution: School of Natural Sciences and Psychology, Liverpool John Moores University (UK); Massey University, Albany (New Zealand)

Duração/Duration: 2015/10 – 2023/10

*Peer-reviewed publications*

Pawling, R., McGlone, F., & Walker, S. C. (2024). High frequency heart rate variability is associated with sensitivity to affective touch. *Physiology & Behavior*, 114600. <https://doi.org/10.1016/j.physbeh.2024.114600>

### **339/14 – “Neural mechanisms of social cognition in zebrafish”**

Investigador/Researcher: Ana Rita Silva Martins Nunes

Instituição/Institution: Instituto Gulbenkian de Ciencia, Oeiras (Portugal)

Duração/Duration: 2015/05 – 2019/11

*Peer-reviewed publications*

Nunes, A. R., Carreira, L., Anbalagan, S., Blechman, J., Levkowitz, G., & Oliveira, R. F. (2020). Perceptual mechanisms of social affiliation in zebrafish. *Scientific Reports*, 10, 3642. <https://doi.org/10.1038/s41598-020-60154-8>

### **340/14 – “A question of belief: An analysis of item content in paranormal belief questionnaires”**

Investigadores/Researchers: Lance Storm, Ken Drinkwater, Anthony Jinks

Instituição/Institution: Brain and Cognition Centre, School of Psychology, University of Adelaide (Australia); Department of Psychology, Faculty of Health, Psychology and Social Care, Manchester (UK)

Duração/Duration: 2015/04 – 2016/10

*Peer-reviewed publications*

Drinkwater, K., Storm, L., & Jinks, A. L. (2018). Differences in gambling approaches between informed paranormal believers and quasi-believers: A pilot study. *Australian Journal of Parapsychology*, 18(2), 153-183.

Storm, L., Drinkwater, K., & Jinks, A. L. (2017). A question of belief: An analysis of item content in paranormal belief questionnaires. *Journal of Scientific Exploration*, 31(2), 187-230.



### 343/14 – “Proteotoxic insults and synaptic dysfunction in the aging brain”

Investigadores/Researchers: Cláudio Emanuel Moreira Gomes, Andreas Martin Grabrucker, Joana Margarida Lopes da Silva Cristóvão, Javier Fernandez, Rodrigo David, Mariana Romão, Simone Hagmeyer  
Instituição/Institution: FCIências.ID – Associação para a Investigação e Desenvolvimento de Ciências (Portugal); Neurocenter of Ulm University (Germany)

Duração/Duration: 2015/06 – 2019/01

#### Peer-reviewed publications

Cristóvão, J. S., Moreira, G., Rodrigues, F. E., Carapeto, A. P., Rodrigues, M. S., Cardoso, I., Ferreira, A., Machuqueiro, M., Fritz, G., & Gomes, C. M. (2021). Cu<sup>2+</sup>-binding to S100B triggers polymerization of disulfide cross-linked tetramers with enhanced chaperone activity against amyloid- $\beta$  aggregation. *Chemical Communications*, 57(3), 379-382. <https://doi.org/10.1039/d0cc06842j>

Cristóvão, J. S., Romão, M. A., Gallardo, R., Schymkowitz, J., Rousseau, F., & Gomes, C. M. (2021). Targeting S100B with peptides encoding intrinsic aggregation-prone sequence segments. *Molecules*, 26(2):440. <https://doi.org/10.3390/molecules26020440>

Daini, E., Hagmeyer, S., De Benedictis, C. A., Cristóvão, J. S., Bodria, M., Ross, A. M., Raab, A., Boeckers, T. M., Feldmann, J., Gomes, C. M., Zoli, M., Vilella, A., & Grabrucker, A. M. (2021). S100B dysregulation during brain development affects synaptic SHANK protein networks via alteration of zinc homeostasis. *Translational Psychiatry*, 11(1), 562. <https://doi.org/10.1038/s41398-021-01694-z>

Moreira, G. G., Cantrelle, F. X., Quezada, A., Carvalho, F. S., Cristóvão, J. S., Sengupta, U., Puangmalai, N., Carapeto, A. P., Rodrigues, M. S., Cardoso, I., Fritz, G., Herrera, F., Kayed, R., Landrieu, I., & Gomes, C. M. (2021). Dynamic interactions and Ca<sup>2+</sup>-binding modulate the holdase-type chaperone activity of S100B preventing tau aggregation and seeding. *Nature Communications*, 12(1), 6292. <https://doi.org/10.1038/s41467-021-26584-2>

Cristóvão, J. S., Figueira, A. J., Rodrigues, M. S., Cardoso, I., & Gomes, C. M. (2020). The S100B alarmin is a dual-function chaperone suppressing A $\beta$  oligomerization through combined zinc chelation and inhibition of protein aggregation. *ACS Chemical Neuroscience*. <https://doi.org/10.1021/acscchemneuro.0c00392>

Cristóvão, J., Moreira, G. G., Grabrucker, A. M., & Gomes, C. M. (2020). Chapter 9 - Metals and amyloid gain-of-toxic mechanisms in neurodegenerative diseases. In A. L. Pey (Ed.), *Protein Homeostasis Diseases - Mechanisms and Novel Therapies* (pp. 181-195). London, UK: Academic Press. <https://doi.org/10.1016/B978-0-12-819132-3.00009-9>

Cristóvão, J. S., & Gomes, C. M. (2019). S100 Proteins in Alzheimer's Disease. *Frontiers in Neuroscience*, 13: 463. <https://doi.org/10.3389/fnins.2019.00463>

Cristóvão, J. S., Henriques, B. J., & Gomes, C. M. (2019). Biophysical and spectroscopic methods for monitoring protein misfolding and amyloid aggregation. In C. Gomes (Eds.), *Protein Misfolding Diseases. Methods in Molecular Biology* (Vol. 1873, pp. 3-18). New York, NY: Humana Press. [https://doi.org/10.1007/978-1-4939-8820-4\\_1](https://doi.org/10.1007/978-1-4939-8820-4_1)

Hagmeyer, S., Romão, M. A., Cristóvão, J. S., Vilella, A., Zoli, M., Gomes, C. M., & Grabrucker, A. M. (2019). Distribution and relative abundance of S100 proteins in the brain of the APP23 Alzheimer's disease model mice. *Frontiers in Neuroscience*, 13: 640. <https://doi.org/10.3389/fnins.2019.00640>

Cristóvão, J. S., Morris, V. K., Cardoso, I., Leal, S., Martínez, J., Botelho, H. M., Göbl, C., David, R., Kierdorf, K., Alemi, M., Madl, T., Fritz, G., Reif, B., & Gomes, C. M. (2018). The neuronal S100B protein is a calcium-tuned suppressor of amyloid- $\beta$  aggregation. *Science Advances*, 4(6), eaq1702. <https://doi.org/10.1126/sciadv.aq1702>

Martínez, J., Cristóvão, J. S., Sánchez, R., Gasset, M., & Gomes, C. M. (2018). Preparation of amyloidogenic aggregates from EF-hand  $\beta$ -parvalbumin and S100 proteins. In E. Sigurdsson, M. Calero, & M. Gasset (Eds.), *Amyloid Proteins. Methods in Molecular Biology* (Vol 1779, pp 167-179). New York, NY: Humana Press. [https://doi.org/10.1007/978-1-4939-7816-8\\_11](https://doi.org/10.1007/978-1-4939-7816-8_11)

Hagmeyer, S., Cristóvão, J. S., Mulvihill, J. E., Boeckers, T., Gomes, C., & Grabrucker, A. (2018). Zinc Binding to S100B Affords Regulation of Trace Metal Homeostasis and Excitotoxicity in the Brain. *Frontiers in Molecular Neuroscience*, 10: 456. <https://doi.org/10.3389/fnmol.2017.00456>

Matos, A. M., Cristóvão, J. S., Yashunsky, D. V., Nifantiev, N. E., Viana, A. S., Gomes, C. M., Rauter, A. P. (2017). Synthesis and effects of flavonoid structure variation on amyloid- $\beta$  aggregation. *Pure and Applied Chemistry*, 89(9). <https://doi.org/10.1515/pac-2017-0201>

Cristóvão, J. S., Santos, R., & Gomes, C. M. (2016). Metals and neuronal metal binding proteins implicated in Alzheimer's Disease. *Oxidative Medicine and Cellular Longevity*, Article ID 9812178. <https://doi.org/10.1155/2016/9812178>

### 344/14 – “An integrative approach to the neural basis of hypnotic suggestibility”

Investigador/Researcher: Devin Blair Terhune

Instituição/Institution: Goldsmiths, University of London (UK)

Duração/Duration: 2015/04 – 2017/09

#### Peer-reviewed publications

Acunzo, D. J., & Terhune, D. B. (2021). A critical review of standardized measures of hypnotic suggestibility. *International Journal of Clinical and Experimental Hypnosis*, 69(1), 50-71. <https://doi.org/10.1080/00207144.2021.1833209>

Terhune, D. B. & Cardeña, E. (2018). Nuances and uncertainties regarding hypnotic inductions: Towards a theoretically informed praxis. In V. K. Kumar & S. R. Lankton (Eds.), *Hypnotic induction: Perspectives, strategies and concerns*. New York, NY: Taylor & Francis/Routledge.

Jensen, M. P., Jamieson, G., Bányai, É., Demertzi, A., De Pascalis, V., Mazzoni, G., Lutz, A., McGeown, W. J., Rominger, C., Santarcangelo, E. L., Vuilleumier, P., Faymonville, M.-E., & Terhune, D. B. (2017). New directions in hypnosis research: Strategies for advancing the cognitive and clinical neuroscience of hypnosis. *Neuroscience of Consciousness*, 3(1), 1-14. <https://doi.org/10.1093/nc/nix004>

Terhune, D. B., Cleeremans, A., Raz, A., & Lynn, S. J. (2017). Hypnosis and top-down regulation of consciousness. *Neuroscience and Biobehavioral Reviews*, 81(Part A), 59-74. <https://doi.org/10.1016/j.neubiorev.2017.02.002>

Terhune, D. B. & Cardeña, E. (2016). Nuances and uncertainties regarding hypnotic inductions: Towards a theoretically informed praxis. *American Journal of Clinical Hypnosis*, 59(2), 155-174. <https://doi.org/10.1080/00029157.2016.1201454>

Terhune, D. B., Polito, V., Barnier, A. J., & Woody, E. Z. (2016). Variations in the sense of agency during hypnotic responding: Insights from latent profile analysis. *Psychology of Consciousness: Theory, Research, and Practice*, 3(4), 293-302. <https://doi.org/10.1037/cns0000107>

Yin, B., Smythies, J., Terhune, D. B., & Meck, W. H. (2016). Claustrum, consciousness, and time perception. *Current Opinion in Behavioral Sciences*, 8, 258-267. <https://doi.org/10.1016/j.cobeha.2016.02.032>

Terhune, D. B. & Cardeña, E. (2015). Dissociative subtypes in posttraumatic stress disorders and hypnosis: Neurocognitive parallels and clinical implications. *Current Directions in Psychological Science*, 24(6), 452-457. <https://doi.org/10.1177/0963721415604611>

### 348/14 – “Neural basis of mother-child relationship processes: Neural events, theta dynamics, and oxytocin”

Investigadores/Researchers: Michael J. Crowley, Omri Weisman, Richard M. Pasco Fearon, William Moran, Yael Shmueli-Goetz, Lauren Vazquez

Instituição/Institution: Child Study Center, School of Medicine, Yale University, New Haven (USA)

Duração/Duration: 2015/10 – 2021/09

#### Peer-reviewed publications

South, M., Taylor, K. M., Newton, T., Christensen, M., Jamison, N. K., Chamberlain, P., Johnston, O., Crowley, M. J., & Higley, J. D. (2017). Psychophysiological and behavioral responses to a novel intruder threat task for children on the autism spectrum. *Journal of Autism and Developmental Disorders*, 47(12), 3704-3713. <https://doi.org/10.1007/s10803-017-3195-0>

Baddam, S., Laws, H., Crawford, J. L., Wu, J., Bolling, D., Mayes, L., & Crowley, M. (2016). What they bring: baseline psychological distress differentially predicts neural response in social exclusion by children's friends and strangers in best friend dyads. *Social Cognitive and Affective Neuroscience*, 11(11), 1729-1740. <https://doi.org/10.1093/scan/nsw083>

### 355/14 – “Cognitive and personality differences in supernatural belief”

Investigadores/Researchers: Ian Scott Baker, David Sheffield, Malcolm Schofield, Paul Staples

Instituição/Institution: College of Life and Natural Sciences, University of Derby (UK)

Duração/duration: 2015/06 – 2017/09

#### Peer-reviewed publications

Schofield, M., Baker, I. S., Staples, P. A., & Sheffield, D. (2020). Modelling supernatural belief: Cognition and personality. *Journal of the Society for Psychical Research*, 84(3), 129-156.

Schofield, M. B., Baker, I. S., Staples, P., & Sheffield, D. (2018). The creation and validation of the Belief in the Supernatural Scale. *Journal of Parapsychology*, 82(1), 41-64.

### 366/14 – “Changes in subjective time as indication of increased mindfulness after meditation”

Investigador/Researcher: Marc Christoph Wittmann

Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health, Freiburg (Germany); Department of Psychosomatic Medicine, University Medical Center Freiburg (Germany)

Duração/Duration: 2015/04 – 2019/06

#### Peer-reviewed publications

Pfeifer, E., Fiedler, H., & Wittmann, M. (2020) Increased relaxation and present orientation after a period of silence in a natural surrounding. *Nordic Journal of Music Therapy*, 29(1), 75-92. <https://doi.org/10.1080/08098131.2019.1642374>

Pfeifer, E., & Wittmann, M. (2020). Waiting, thinking, and feeling: Variations in the perception of time during silence. *Frontiers in psychology*, 11: 602. <https://doi.org/10.3389/fpsyg.2020.00602>

Linares Gutierrez, D., Kübel, S., Giersch, A., Schmidt, S., Meissner, K., & Wittmann, M. (2019). Meditation-induced states, vagal tone, and breathing activity are related to changes in auditory temporal integration. *Behavioral Sciences*, 9(5):51. <https://doi.org/10.3390/bs9050051>

Linares Gutiérrez, D., Pfeifer, E., Schmidt, S., & Wittmann, M. (2019). Meditation experience and mindfulness are associated with reduced self-reported mind-wandering in meditators — A German version of the daydreaming frequency scale. *Psych*, 1(1), 193–206. <https://doi.org/10.3390/psych1010014>

Pfeifer, E., Fiedler, H., & Wittmann, M. (2019). Enhanced relaxation in students after combined Depth Relaxation Music Therapy and silence in a natural setting. *Arts in Psychotherapy*, 63, 68-76. <https://doi.org/10.1016/j.aip.2019.02.006>

Berkovich-Ohana, A., & Wittmann, M. (2017). A typology of altered states according to the consciousness state space (CSS) model: A special reference to subjective time. *Journal of Consciousness Studies*, 24, 37-61.

### 372/14 – “Development and implementation of a comprehensive survey of secular American mediums”

Investigadores/Researchers: Julie Beischel, Chad Mosher, Mark Boccuzzi

Instituição/Institution: The Windbridge Institute for Applied Research in Human Potential, Tucson (USA)

Duração/Duration: 2015/07 – 2018/06

#### Peer-reviewed publications

Beischel, J., Tassone, S., & Boccuzzi, M. (2019). Hematological and psychophysiological correlates of anomalous information reception in mediums: A preliminary exploration. *EXPLORE: The Journal of Science & Healing*, 15(2), 126-133. <https://doi.org/10.1016/j.explore.2018.04.009>

Beischel, J., Mosher, C., & Boccuzzi, M. (2017). Quantitative and qualitative analyses of mediumistic and psychic experiences. *Threshold: Journal of Interdisciplinary Consciousness Studies*, 1(2), 51–91.

### 373/14 – “Multimodal mapping of visual motion perceptual decision: Dissecting the role of different motion integration areas in visual surface reconstruction”

Investigadores/Researchers: Miguel de Sá e Sousa de Castelo Branco, Gabriel Nascimento Ferreira da Costa, Gilberto Silva, João Valente Duarte, Ricardo Martins

Instituição/Institution: ICNAS - Institute for Nuclear Sciences Applied to Health, Coimbra (Portugal); IBILI - Institute for Biomedical Imaging and Life Sciences, Coimbra (Portugal)

Duração/Duration: 2016/02 – 2017/10

#### Peer-reviewed publications

Cayolla, R., Biscaia, R., Baumeister, R. F., Chan, H.-Y., Duarte, I. C., & Castelo-Branco, M. (2024). Neural correlates of fanhood: The role of fan identity and team brand strength. *Frontiers in Human Neuroscience*, 17, 1235139. <https://doi.org/10.3389/fnhum.2023.1235139>

Sousa, T., Duarte, J., Costa, G. N., Kemper, V. G., Martins, R., Goebel, R., & Castelo-Branco, M. (2019). Tracking perceptual decision mechanisms through changes in interhemispheric functional connectivity in human visual cortex. *Scientific Reports*, 9, Article number: 1242. <https://doi.org/10.1038/s41598-018-37822-x>

Castelhano, J., Duarte, I. C., Ferreira, C., Durães, J., Madeira, H., & Castelo-Branco, M. (2019). The role of the insula in intuitive expert bug detection in computer code: an fMRI study. *Brain Imaging and Behavior*, 13(3), 623-637. <https://doi.org/10.1007/s11682-018-9885-1>

Castelhano, J., Tavares, P., Mouga, S., Oliveira, G., & Castelo-Branco, M. (2018). Stimulus dependent neural oscillatory patterns show reliable statistical identification of Autism Spectrum Disorder in a face perceptual decision task. *Clinical Neurophysiology*, 129(5), 981-989. <https://doi.org/10.1016/j.clinph.2018.01.072>

Duarte, I. C., Brito-Costa, S., Cayolla, R., & Castelo-Branco, M. (2018). The role of prefrontal cortex in a battle of the sexes dilemma involving a conflict between tribal and romantic love. *Scientific Reports*, 8: 12133.

Castelhano, J., Duarte, I. C., Abuhaiba, S. I., Rito, M., Sales, F., & Castelo-Branco, M. (2017). Cortical functional topography of high-frequency gamma activity relates to perceptual decision: an Intracranial study. *PLoS ONE*, 12(10): e0186428. <https://doi.org/10.1371/journal.pone.0186428>

Costa, G. N., Duarte, J. V., Martins, R., Wibrál, M., & Castelo-Branco, M. (2017). Interhemispheric binding of ambiguous visual motion is associated with changes in beta oscillatory activity but not with gamma range synchrony. *Journal of Cognitive Neuroscience*, 29(11), 1829-1844. [https://doi.org/10.1162/jocn\\_a\\_01158](https://doi.org/10.1162/jocn_a_01158)

Duarte, I. C., Afonso, S., Jorge, H., Cayolla, R., Ferreira, C., & Castelo-Branco, M. (2017). Tribal love: the neural correlates of passionate engagement in football fans. *Social Cognitive and Affective Neuroscience*, 12(5), 718-728. <https://doi.org/10.1093/scan/nsx003>

Duarte, J. V., Costa, G. N., Martins, R., & Castelo-Branco, M. (2017). Pivotal role of hMT+ in long-range disambiguation of interhemispheric bistable surface motion. *Human Brain Mapping*, 38, 4882-4897. <https://doi.org/10.1002/hbm.23701>

Sousa, T., Amaral, C., Andrade, J., Pires, G., Nunes, U., & Castelo-Branco, M. (2017). Pure visual imagery as a potential approach to achieve three classes of control for implementation of BCI in non-motor disorders. *Journal of Neural Engineering*, 14(4):046026. <https://doi.org/10.1088/1741-2552/aa70ac>

Intaite, M., Duarte, J., & Castelo-Branco, M. (2016). Working memory load influences perceptual ambiguity by competing for fronto-parietal attentional resources. *Brain Research*, 1650, 142-151. <https://doi.org/10.1016/j.brainres.2016.08.044>

### **376/14 – “Lateralisation of cognitive functions in the brain: Typical vs. atypical patterns”**

Investigador/Researcher: Deborah J Serrien

Instituição/Institution: School of Psychology, University of Nottingham (UK)

Duração/Duration: 2015/10 – 2018/11

#### *Peer-reviewed publications*

Serrien, D. J., & O'Regan, L. (2025). Word perception and upper-lower visual field asymmetries. *Brain and Cognition*, 186, 106294. <https://doi.org/10.1016/j.bandc.2025.106294>

Serrien, D. J., & O'Regan, L. (2023). Attention and Interhemispheric Communication: Implications for Language Dominance. *Neuroscience*, 510, 21-31. <https://doi.org/10.1016/j.neuroscience.2022.12.006>

Serrien, D.J., O'Regan, L. (2022). The interactive functional biases of manual, language and attention systems. *Cognitive Research: Principles and Implications*, 7, 20. <https://doi.org/10.1186/s41235-022-00365-x>

Serrien, D. J., & Spapé, M. M. (2021). Space, time and number: common coding mechanisms and interactions between domains. *Psychological Research*, 86(2), 364–374. <https://doi.org/10.1007/s00426-021-01503-8>

Serrien, D. J., & O'Regan, L. (2019) Stability and flexibility in cognitive control: Interindividual dynamics and task context processing. *PLoS ONE*, 14(7): e0219397. <https://doi.org/10.1371/journal.pone.0219397>

O'Regan, L., & Serrien, D. J. (2018). Individual differences and hemispheric asymmetries for language and spatial attention. *Frontiers in Human Neuroscience*, 12, 380. <https://doi.org/10.3389/fnhum.2018.00380>

O'Regan, L., Spapé, M., & Serrien, D. (2017). Motor timing and covariation with time perception: Investigating the role of handedness. *Frontiers in Behavioral Neuroscience*, 11: 147. <https://doi.org/10.3389/fnbeh.2017.00147>

### **380/14 – “Using neural stimulation to modulate paranormal beliefs”**

Investigadores/Researchers: Miguel Farias, Ute Kreplin

Instituição/Institution: Centre for Research in Psychology, Behaviour and Achievement, Coventry University (UK)

Duração/Duration: 2015/12 – 2017/10

#### *Peer-reviewed publications*

van Mulukom, V., Baimel, A., Maraldi, E., & Farias, M. (2024). Examining the relationship between metacognitive trust in thinking styles and supernatural beliefs. *Scandinavian Journal of Psychology*, 65(2), 206–222. <https://doi.org/10.1111/sjop.12961>

Farias, M., van Mulukom, V., Kahane, G., Kreplin, U., Joyce, A., ..., Möttönen, R. (2017). Supernatural belief is not modulated by intuitive thinking style or cognitive inhibition. *Scientific Reports*, 7, Article number: 15100. <https://doi.org/10.1038/s41598-017-14090-9>



**385/14 – “Effects of neurofeedback on functional connectivity and EEG power density”**

Investigadores/Researchers: Pedro Jose Montoya Jimenez, Beatriz Rey Solaz, Inmaculada Riquelme, Miguel Angel Munoz Garcia, Niels Birbaumer

Instituição/Institution: Research Institute on Health Sciences, University of Balearic Islands, Palma (Spain)

Duração/Duration: 2015/03 – 2019/06

*Peer-reviewed publications*

Terrasa, J. L., Alba, G., Cifre, I., Rey, B., Montoya, P., & Muñoz, M. (2019). Power spectral density and functional connectivity changes due to a sensorimotor neurofeedback training: A preliminary study. *Neural Plasticity*, Article ID 7647204. <https://doi.org/10.1155/2019/7647204>

Terrasa, J. L., Montoya, P., González-Roldán, A. M., & Sitges, C. (2018). Inhibitory control impairment on somatosensory gating due to aging: An event-related potential study. *Frontiers in Human Neuroscience*, 12: 280. <https://doi.org/10.3389/fnhum.2018.00280>

Riquelme, I., Hatem, S. M., & Montoy, P. (2016). Abnormal pressure pain, touch sensitivity, proprioception, and manual dexterity in children with autism spectrum disorders. *Neural Plasticity*, 1723401. <https://doi.org/10.1155/2016/1723401>

**386/14 – “Remote meditation support - A multimodal distant intention experiment”**

Investigadores/Researchers: Stefan Schmidt, Han-gue Jo, Marc Wittmann, Thilo Hinterberger, Wolfgang Ambach

Instituição/Institution: Department of Psychosomatic Medicine, University Medical Center Freiburg (Germany); Institut für Grenzgebiete der Psychologie und Psychohygiene, Freiburg (Germany)

Duração/Duration: 2015/05 – 2019/01

*Peer-reviewed publications*

Linares Gutiérrez, D., Pfeifer, E., Schmidt, S., & Wittmann, M. (2019). Meditation experience and mindfulness are associated with reduced self-reported mind-wandering in meditators — A German version of the daydreaming frequency scale. *Psych*, 1(1), 193–206. <https://doi.org/10.3390/psych1010014>

Schmidt, S., Jo, H. -G., Wittmann, M., Ambach, W., & Kübel, S. (2019). Remote meditation support – A multimodal distant intention experiment. *Explore: The Journal of Science & Healing*. <https://doi.org/10.1016/j.explore.2018.12.002>

**388/14 – “Are free will and moral responsibility real or illusory? On the causal role of consciousness in decision-making, a combined EEG and intracranial study”**

Investigador/Researcher: Uri M. Maoz

Instituição/Institution: California Institute of Technology – Caltech, Pasadena (USA)

Duração/Duration: 2016/02 – 2019/06

*Peer-reviewed publications*

Hill, B. L., Brown, R., Gabel, E., Rakocz, N., Lee, C., Cannesson, M., Baldi, P., Olde Loohuis, L., Johnson, R., Jew, B., Maoz, U., Mahajan, A., Sankararaman, S., Hofer, I., & Halperin, E. (2019). An automated machine learning-based model predicts postoperative mortality using readily-extractable preoperative electronic health record data. *British Journal of Anaesthesia*, 123(6), 877–886. <https://doi.org/10.1016/j.bja.2019.07.030>

Maoz, U., Sita, K. R., van Boxtel, J. J. A., & Mudrik, L. (2019). Does it matter whether you or your brain did it? An empirical investigation of the influence of the double subject fallacy on moral responsibility judgments. *Frontiers in Psychology*, 10, 950. <https://doi.org/10.3389/fpsyg.2019.00950>

Maoz, U., Yaffe, G., Koch, C., & Mudrik, L. (2019). Neural precursors of decisions that matter – An ERP study of deliberate and arbitrary choice. *eLife*, 8: e39787. <https://doi.org/10.7554/eLife.39787>

Oh, J., Yun, K., Maoz, U., Kim, T. S., & Chae, J. H. (2019). Identifying depression in the National Health and Nutrition Examination Survey data using a deep learning algorithm. *Journal of Affective Disorders*, 257, 623–631. <https://doi.org/10.1016/j.jad.2019.06.034>

**389/14 – “Demixing and visualizing neural population activity in higher cortical areas”**

Investigadores/Researchers: Dmitry Kobak, Christian Machens

Instituição/Institution: Champalimaud Centre for the Unknown, Lisboa (Portugal)

Duração/Duration: 2015/01 – 2017/02

*Peer-reviewed publications*

Kobak, D., Pardo-Vazquez, J. L., Valente, M., Machens, C. K., & Renart, A. (2019). State-dependent geometry of population activity in rat auditory cortex. *eLife*, 8: e44526. <https://doi.org/10.7554/eLife.44526>

Kobak, D., Brendel, W., Constantinidis, C., Feierstein, C. E., Kepecs, A., Mainen, Z. F., Qi, X.-L., Romo, R., Uchida, N., & Machens, C. K. (2016). Demixed principal component analysis of neural population data. *eLife*, 5, e10989. <https://doi.org/10.7554/eLife.10989.001>

Tian, J., Huang, R., Cohen, J. Y., Osakada, F., Kobak, D., Machens, C. K., Callaway, E. M., Uchida, N., & Watabe-Uchida, M. (2016). Distributed and mixed information in monosynaptic inputs to dopamine neurons. *Neuron*, 91(6), 1374-1389. <https://doi.org/10.1016/j.neuron.2016.08.018>

#### **400/14 – “Is the matrix-experiment really a robust and artifact free experimental model to demonstrate generalized entanglement effects?”**

Investigador/Researcher: Harald Walach

Instituição/Institution: Institute of Transcultural Health Studies, European University Viadrina, Frankfurt Oder (Germany)

Duração/Duration: 2016/01 – 2021/03

##### *Peer-reviewed publications*

Walach, H., Kirmse, K. A., Sedlmeier, P., Vogt, H., Hinterberger, T., & von Lucadou, W. (2022). Nailing Jelly: The Replication Problem Seems to Be Unsurmountable. Two Failed Replications of the Matrix Experiment. *Journal of Scientific Exploration*, 35(4), 788-828. <https://doi.org/10.31275/20212031>

#### **402/14 – “Skin Conductance Feedback Meditation (SCFM) – Exploring the role of skin conductance in meditative practice”**

Investigador/Researcher: Thilo Hinterberger

Instituição/Institution: Department of Psychosomatic Medicine, Clinic of the University of Regensburg (Germany)

Duração/Duration: 2016/03 – 2018/06

##### *Peer-reviewed publications*

Hinterberger, T., Baierlein, F., & Breitenbach, N. (2018). Skin conductance feedback meditation: Evaluation of a novel physiology-assisted meditation style. *Complementary Medicine Research*, 25(5), 313-320. <https://doi.org/10.1159/000489342>

Hinterberger, T., & Fürnrohr, E. (2016). The sensorium: Psychophysiological evaluation of responses to a multimodal neurofeedback environment. *Applied Psychophysiology and Biofeedback*, 41, 315–329. <https://doi.org/10.1007/s10484-016-9332-2>

#### **413/14 – “The role of dopamine in behavioral exploration and action selection”**

Investigador/Researcher: Aaron Christopher Koralek

Instituição/Institution: Champalimaud Neuroscience Programme, Lisboa (Portugal)

Duração/Duration: 2015/03 – 2018/06

##### *Peer-reviewed publications*

Koralek, A. C., & Costa, R. M. (2021). Dichotomous dopaminergic and noradrenergic neural states mediate distinct aspects of exploitative behavioral states. *Science Advances*, 7(30): eabh2059. <https://doi.org/10.1126/sciadv.abh2059>

Neely, R., Koralek, A., Athalye, V. R., Costa, R. M., & Carmena, J. M. (2018). Volitional modulation of primary visual cortex activity requires the basal ganglia. *Neuron*, 97(6), 1356–1368.e4. <https://doi.org/10.1016/j.neuron.2018.01.051>

#### **427/14 – “Gliogenesis control of brain neuroplasticity, neurophysiology and cognitive function”**

Investigadores/Researchers: Luísa Alexandra Meireles Pinto, Ana Rita Machado dos Santos, António Maria Restolho Mateus Pinheiro, Joana Sofia da Silva Correia, João Filipe Pedreira de Oliveira, João Miguel Bessa Peixoto, Nuno Dinis Alves, Vítor Manuel da Silva Pinto

Instituição/Institution: Life and Health Sciences Research Institute - ICVS/3B's - Government Associate Laboratory, Universidade do Minho, Braga (Portugal); Center for Neuroscience and Cell Biology, University of Coimbra (Portugal)

Duração/Duration: 2015/09 – 2019/10

##### *Peer-reviewed publications*

Antunes, C., da Silva, J., Guerra-Gomes, S., Alves, N., Loureiro-Campos, E., Pinto, L. & Marques, J. (2022). Tet3 deletion in adult brain neurons of female mice results in anxiety-like behavior and cognitive impairments. *Molecular Neurobiology*, 59(8), 4892-4901. <https://doi.org/10.1007/s12035-022-02883-7>

Lima, S., Sousa, N., Patrício, P. & Pinto, L. (2022). The underestimated sex: A review on female animal models of depression. *Neuroscience and Biobehavioral Reviews*, 133, 104498. <https://doi.org/10.1016/j.neubiorev.2021.12.021>

Machado-Santos, A. R., Loureiro-Campos, E., Patrício, P., Araújo, B., Alves, N., Mateus-Pinheiro, A., Correia, J., Morais, M., Bessa, J., Sousa, N., Rodrigues, A., Oliveira, J., & Pinto, L. (2022). Beyond new neurons in the adult hippocampus: Imipramine acts as a pro-astroglial factor and rescues cognitive impairments induced by stress exposure. *Cells*, 11(3), 390-. <https://doi.org/10.3390/cells11030390>

Loureiro-Campos, E., Mateus-Pinheiro, A., Patrício, P., Soares-Cunha, C., Silva, J., Sardinha, V. M., Mendes-Pinheiro, B., Silveira-Rosa, T., Domingues, A. V., Rodrigues, A. J., Oliveira, J., Sousa, N., Alves, N. D., & Pinto, L. (2021). Constitutive deficiency of the neurogenic hippocampal modulator AP2y promotes anxiety-like behavior and cumulative memory deficits in mice from juvenile to adult periods. *eLife*, 10: e70685. <https://doi.org/10.7554/eLife.70685>

Loureiro-Campos, E., Pinto, L., & Mendenha Falcão, A. (2021). CSF circulation regulates depression: do not disturb the flow!. *Molecular Psychiatry*, 26(2), 7072-7073. <https://doi.org/10.1038/s41380-021-01323-7>

Martins-Macedo, J., Salgado, A. J., Gomes, E. D., & Pinto, L. (2021). Adult brain cytogenesis in the context of mood disorders: From neurogenesis to the emergent role of gliogenesis. *Neuroscience and Biobehavioral Reviews*, 131, 411-428. <https://doi.org/10.1016/j.neubiorev.2021.09.030>

Mateus-Pinheiro, A., Patrício, P., Alves, N. D., Martins-Macedo, J., Caetano, I., Silveira-Rosa, T., Araújo, B., Mateus-Pinheiro, M., Silva-Correia, J., Sardinha, V. M., Loureiro-Campos, E., Rodrigues, A. J., Oliveira, J. F., Bessa, J. M., Sousa, N., & Pinto, L. (2021). Hippocampal cytogenesis abrogation impairs inter-regional communication between the hippocampus and prefrontal cortex and promotes the time-dependent manifestation of emotional and cognitive deficits. *Molecular Psychiatry*, 26(12), 7154–7166. <https://doi.org/10.1038/s41380-021-01287-8>

Silveira-Rosa, T., Mateus-Pinheiro, A., Correia, J. S., Silva, J. M., Martins-Macedo, J., Araújo, B., Machado-Santos, A. R., Alves, N. D., Silva, M., Loureiro-Campos, E., Sotiropoulos, I., Bessa, J. M., Rodrigues, A. J., Sousa, N., Patrício, P., & Pinto, L. (2021). Suppression of adult cytogenesis in the rat brain leads to sex-differentiated disruption of the HPA axis activity. *Cell proliferation*, 55(2), e13165. <https://doi.org/10.1111/cpr.13165>

Antunes, C., Da Silva, J. D., Guerra-Gomes, S., Alves, N. D., Ferreira, F., Loureiro-Campos, E., ..., Marques, C. J. (2020). Tet3 ablation in adult brain neurons increases anxiety-like behavior and regulates cognitive function in mice. *Molecular Psychiatry*, 26(5), 1445–1457. <https://doi.org/10.1038/s41380-020-0695-7>

Guerra-Gomes, S., Cunha-Garcia, D., Marques Nascimento, D. S., Duarte-Silva, S., Loureiro-Campos, E., Morais Sardinha, V., ... Oliveira, J. F. (2020). IP3R2 null mice display a normal acquisition of somatic and neurological development milestones. *European Journal of Neuroscience*, 54(5), 5673–5686. <https://doi.org/10.1111/ejn.14724>

Martins-Macedo, J., Lepore, A. C., Domingues, H. S., Salgado, A. J., Gomes, E. D., & Pinto, L. (2020). Glial restricted precursor cells in central nervous system disorders: Current applications and future perspectives. *Glia*, 69(3), 513–531. <https://doi.org/10.1002/glia.23922>

Antunes, C., Sousa, N., Pinto, L., & Marques, C. J. (2019). TET enzymes in neurophysiology and brain function. *Neuroscience & Biobehavioral Reviews*, 102, 337-344. <https://doi.org/10.1016/j.neubiorev.2019.05.006>

Mateus-Pinheiro, A., Alves, N. D., Sousa, N., & Pinto, L. (2018). AP2 $\gamma$ : A new player on adult hippocampal neurogenesis regulation. *Journal of Experimental Neuroscience*, 12: 1-4. <https://doi.org/10.1177/1179069518766897>

Guerra-Gomes, S., Sousa, N., Pinto, L., & Oliveira, J. F. (2018). Functional roles of astrocyte calcium elevations: From synapses to behavior. *Frontiers in Cellular Neuroscience*, 11: 427. <https://doi.org/10.3389/fncel.2017.00427>

Guerra-Gomes, S., Viana, J. F., Correia, J. S., Caetano, I., Sardinha, V. M., Sousa, N., Pinto, L., & Oliveira, J. F. (2018). The role of astrocytic calcium signaling in the aged prefrontal cortex. *Frontiers in Cellular Neuroscience*, 12: 379. <https://doi.org/10.3389/fncel.2018.00379>

Mateus-Pinheiro, A., Alves, N. D., Patrício, P., Machado-Santos, A. R., Campos, E., Silva, J., Sardinha, V., Reis, J., Schorle, H., Oliveira, J. F., Ninkovic, J., Sousa, N., & Pinto, L. (2017). AP2 $\gamma$  controls adult hippocampal neurogenesis and modulates cognitive, but not anxiety or depressive-like behavior. *Molecular Psychiatry*, 22(12), 1725-1734. <https://doi.org/10.1038/mp.2016.169>

Morais, M., Patrício, P., Mateus-Pinheiro, A., Alves, N. D., Machado-Santos, A. R., Correia, J. S., Pereira, J., Pinto, L., Sousa, N., & Bessa, J. M. (2017). The modulation of adult neuroplasticity is involved in the mood-improving actions of atypical antipsychotics in an animal model of depression. *Translational Psychiatry*, 7(6), e1146. <https://doi.org/10.1038/tp.2017.120>

Sardinha, V. M., Guerra-Gomes, S., Caetano, I., Tavares, G., Martins, M., Reis, J. S., Correia, J. S., Teixeira-Castro, A., Pinto, L., Sousa, N., & Oliveira, J. F. (2017). Astrocytic signaling supports hippocampal-prefrontal theta synchronization and cognitive function. *Glia*, 65(12), 1944-1960.

Oliveira, J. F., Gomes, C. A., Vaz, S. H., Sousa, N., & Pinto, L. (2016). Editorial: Glial Plasticity in Depression. *Frontiers in Cellular Neuroscience*, 10: 163. <https://doi.org/10.3389/fncel.2016.00163>

#### **430/14 – “Psychophysiological detection of feigned memory complaints”**

Investigadores/Researchers: Sara Cavaco, Filomena Maria Correia Gomes

Instituição/Institution: Centro Hospitalar do Porto - Hospital Santo António (Portugal); Faculdade de Medicina do Porto (Portugal)

Duração/Duration: 2016/05 – 2023/11

##### *Peer-reviewed publications*

Silva, L., Fernandes, J., Lopes, R., Costa, S., Malheiro, S., Aires, E., Pereira, D., Fonte, J., Dias, A., Oliveira, V., Cavaco, S., Magalhães, R., Correia, M., Andrade, C., & Maia, L. F. (2025). Long-term persistent headache after SARS-CoV-2 infection: A follow-up population-based study. *European Journal of Neurology*, 32, e70130. <https://doi.org/10.1111/ene.70130>

Gomes, F., Ferreira, I., Rosa, B., Martins da Silva, A., & Cavaco, S. (2024). Using behavior and eye-fixations to detect feigned memory impairment. *Frontiers in Psychology*, 15, 1395434. <https://doi.org/10.3389/fpsyg.2024.1395434>

Cavaco, S., Sousa, G., Gonçalves, A., Dias, A., Andrade, C., Pereira, D., Aires, E. A., Moura, J., Silva, L., Varela, R., Malheiro, S., Oliveira, V., Teixeira-Pinto, A., Maia, L. F., & Correia, M. (2023). Predictors of cognitive dysfunction one-year post COVID-19. *Neuropsychology*, 37(5), 557–567. <https://doi.org/10.1037/neu0000876>

#### **442/14 – “Neurochemical substrates of neurofeedback”**

Investigadores/Researchers: Tomas Ros, Nathalie Ginovart

Instituição/Institution: Interfaculty Center for Neuroscience, University of Geneva (Switzerland); Division of Nuclear Medicine, University Hospitals Geneva (Switzerland)

Duração/Duration: 2016/04 – 2020/09

##### *Peer-reviewed publications*

Ros, T., Kwiek, J., Andriot, T., Michela, A., Vuilleumier, P., Garibotto, V., & Ginovart, N. (2021). PET imaging of dopamine neurotransmission during EEG neurofeedback. *Frontiers in Physiology*, 11: 590503. <https://doi.org/10.3389/fphys.2020.590503>

#### **480/14 – “The role of experimenter and participant mindset in the replication of psi experiments: Phase II of a global initiative”**

Investigador/Researcher: Marilyn Schlitz

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2015/07 – 2017/07

##### *Peer-reviewed publications*

Schlitz, M., Bem, D., Marcussion-Clavertz, D., Cardena, E., Lyke, J., Grover, R., ..., Delorme, A. (2021). Two replication studies of a time-reversed (Psi) priming task and the role of expectancy in reaction times. *Journal of Scientific Exploration*, 35(1), 65-90. <https://doi.org/10.31275/20211903>

Schlitz, M., & Delorme, A. (2021). Examining implicit beliefs in a replication attempt of a time-reversed priming task [version 2; peer review: 2 approved]. *F1000Research*, 10: 5. <https://doi.org/10.12688/f1000research.27169.2>

#### **489/14 – “An examination of the effects of mood and emotion on a real-world computer system and networking environment”**

Investigador/Researcher: John G. Kruth

Instituição/Institution: Rhine Research Center, Durham (USA)

Duração/Duration: 2015/05 – 2019/01

##### *Peer-reviewed publications*

Kruth, J. (2019). An exploration of the effects of mood and emotion on a real-world working computer system and network environment. *Journal of Parapsychology*, 83, 232-247. <https://doi.org/10.30891/jopar.2019.02.08>



**495/14 – “Episodic memory enhancement in aging: the role of cognitive training combined with (bilateral) tDCS in the medial-temporal cortex and cerebellum on episodic memory performance in the elderly”**

Investigadores/Researchers: Mário Manuel Rodrigues Simões, Filipe Fernandes, Jorge Evandro de Araújo Alves, Marcel Simis, Ana Rita Simões Martins, Jorge Almeida

Instituição/Institution: CINEICC - Centro de Investigação do Núcleo de Estudos e Intervenção Cognitivo-Comportamental/Universidade de Coimbra (Portugal)

Duração/Duration: 2015/07 – 2022/03

*Peer-reviewed publications*

Almeida, J., Martins, A. R., Amaral, L., Valério, D., Bukhari, Q., Schu, G., Nogueira, J., Spínola, M., Soleimani, G., Fernandes, F., Silva, A. R., Fregni, F., Simis, M., Simões, M., & Peres, A. (2023). The cerebellum is causally involved in episodic memory under aging. *GeroScience*, 45(4), 2267–2287. <https://doi.org/10.1007/s11357-023-00738-0>

Nogueira, J., Freitas, S., Duro, D., Almeida, J., & Santana, I. (2018). Validation study of the Alzheimer's disease assessment scale–cognitive subscale (ADAS-Cog) for the Portuguese patients with mild cognitive impairment and Alzheimer's disease. *The Clinical Neuropsychologist*, 32(Supplement 1), 46-59. <https://doi.org/10.1080/13854046.2018.1454511>

Nogueira, J., Freitas, S., Duro, D., Tábuas-Pereira, M., Guerreiros, M., Almeida, J., & Santana, I. (2018). Alzheimer's Disease Assessment Scale - Cognitive subscale (ADAS-Cog): Normative data for the Portuguese population. *Acta Médica Portuguesa*, 31(2), 94-100. <https://doi.org/10.20344/amp.8859>

Almeida, J., Martins, A. R., Bergström, F., Amaral, L., Freixo, A., Ganho-Ávila, A., Kristensen, S., Lee, D., Nogueira, J., & Ruttorf, M. (2017). Polarity-specific transcranial direct current stimulation effects on object-selective neural responses in the inferior parietal lobe. *Cortex*, 94, 176-181. <https://doi.org/10.1016/j.cortex.2017.07.001>

Martins, A., Fregni, F., Simis, M., & Almeida, J. (2016). Neuromodulation as a cognitive enhancement strategy in healthy older adults: promises and pitfalls. *Aging, Neuropsychology, and Cognition*, 24(2), 158-185. <https://doi.org/10.1080/13825585.2016.1176986>

**506/14 – “The Selfield: Optimizing precognition research”**

Investigadores/Researchers: Mario Varvoglis, Peter Bancel

Instituição/Institution: Institut Metapsychique International, Paris (France); Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2015/09 – 2018/07

*Peer-reviewed publications*

Varvoglis, M., Bancel, P. A., Bailly, J. -P., Boban, J., & Ahmed, D. (2019s). The Selfield: Optimizing precognition research. *Journal of Parapsychology*, 83(1), 13-24. <https://doi.org/10.30891/jopar.20>

**534/14 – “Exploring unconscious knowledge: From pendulums to parapsychology”**

Investigadores/Researchers: Jeremy Olson, Amir Raz, Mathieu Landry

Instituição/Institution: Raz Cognitive Neuroscience Lab, McGill University, Montreal (Canada); Montreal Neurological Institute (Canada)

Duração/Duration: 2015/08 – 2017/06

*Peer-reviewed publications*

Olson, J., Jeyanesan, E., & Raz, A. (2017). Ask the Pendulum: Personality predictors of ideomotor performance. *Neuroscience of Consciousness*, 3(1), 1-11. <https://doi.org/10.1093/nc/nix014>

Olson, J. A., Landry, M., Appourchaux, K., & Raz, A. (2016). Simulated thought insertion: Influencing the sense of agency using deception and magic. *Consciousness and Cognition*, 43, 11-26. <https://doi.org/10.1016/j.concog.2016.04.010>

**536/14 – “Void consciousness: Investigating the neural network correlates of an exceptional meditative experience with EEG-MREG”**

Investigadores/Researchers: Ulf Winter, Pierre LeVan, Stefan Schmidt

Instituição/Institution: Department of Psychosomatic Medicine, University Medical Center Freiburg (Germany); Dept. of Radiology, Medical Physics, University Medical Center Freiburg (Germany)

Duração/Duration: 2015/09 – 2020/03

*Peer-reviewed publications*

Winter, U., LeVan, P., Borghardt, T. L., Akin, B., Wittmann, M., Leyens, Y., & Schmidt, S. (2020). Content-free awareness: EEG-fcMRI correlates of consciousness as such in an expert meditator. *Frontiers in Psychology*, 10: 3064. <https://doi.org/10.3389/fpsyg.2019.03064>

### **“The Aging Social Brain – Neural and behavioral age-related changes in social cognition and decision-making”**

Investigadores/Researchers: João Eduardo Marques Teixeira, Manuel Fernando Santos Barbosa, Fernando Ricardo Ferreira Santos, Pedro Manuel Rocha Almeida, Hugo Daniel Leão Sousa

Instituição/Institution: Faculdade de Psicologia e de Ciências da Educação, Universidade do Porto (Portugal)

Duração/Duration: 2014/11 – 2018/01

#### *Peer-reviewed publications*

Fernandes, C., Pasion, R., Gonçalves, A. R., Almeida, R., Garcez, H., Ferreira-Santos, F., Barbosa, F., & Marques-Teixeira, J. (2022). Awareness to utilitarian responses in later life: An ERP study with moral dilemmas. *Neuroscience Letters*, 787, 136824. <https://doi.org/10.1016/j.neulet.2022.136824>

Fernandes, C., Barbosa, F., Martins, I. P., & Marques-Teixeira, J. (2021). Aging and social cognition: A comprehensive review of the literature. *Psychology & Neuroscience*, 14(1), 1–15. <https://doi.org/10.1037/pne0000251>

Fernandes, C., Gonçalves, A. R., Pasion, R., Ferreira-Santos, F., Barbosa, F., Martins, I. P., & Marques-Teixeira, J. (2019). Age-related changes in social decision-making: An electrophysiological analysis of unfairness evaluation in the Ultimatum Game. *Neuroscience Letters*, 692, 122-126. <https://doi.org/10.1016/j.neulet.2018.10.061>

Fernandes, C., Gonçalves, A. R., Pasion, R., Ferreira-Santos, F., Barbosa, F., Martins, I. P., & Marques-Teixeira, J. (2019). Age-related decline in emotional perspective-taking: Its effect on the late positive potential. *Cognitive, Affective, & Behavioral Neuroscience*, 19(1), 109-122. <https://doi.org/10.3758/s13415-018-00648-1>

Fernandes, C., Gonçalves, A. R., Ferreira-Santos, F., Paiva, T. O., Melo e Castro, J., Barbosa, F., Martins, I. P., & Marques-Teixeira, J. (2018). European Portuguese adaptation and validation of dilemmas used to assess moral decision-making. *Trends in Psychiatry and Psychotherapy*, 40(1), 38-46. <https://doi.org/10.1590/2237-6089-2017-0022>

Fernandes, C., Pasion, R., Gonçalves, A., Ferreira-Santos, F., Barbosa, F., Martins, I. P., & Marques-Teixeira, J. (2018). Age differences in neural correlates of feedback processing after economic decisions under risk. *Neurobiology of Aging*, 65, 51-59. <https://doi.org/10.1016/j.neurobiolaging.2018.01.003>

Gonçalves, A. R., Fernandes, C., Pasion, R., Ferreira-Santos, F., Barbosa, F., & Marques-Teixeira, J. (2018). Effects of age on the identification of emotions in facial expressions: a meta-analysis. *PeerJ*, 6, e5278. <https://doi.org/10.7717/peerj.5278>

Gonçalves, A. R., Fernandes, C., Pasion, R., Ferreira-Santos, F., Barbosa, F., & Marques-Teixeira, J. (2018). Emotion identification and aging: behavioral and neural age-related changes. *Clinical Neurophysiology*, 129(5), 1020-1029. <https://doi.org/10.1016/j.clinph.2018.02.128>

Pasion, R., Fernandes, C., Gonçalves, A. R., Ferreira-Santos, F., Barbosa, F., Martins, I. P., & Marques-Teixeira, J. (2018). The effect of aging on the (mis)perception of intentionality - an ERP study. *Social Neuroscience*. <https://doi.org/10.1080/17470919.2018.1430614>.

Fernandes, C. (2017). Age-related changes in frontal, striatal, and medial temporal activity during expected value evaluation. *Journal of Neuroscience*, 37(13), 3442-3444. <https://doi.org/10.1523/JNEUROSCI.0033-17.2017>

Pasion, R., Gonçalves, A., Fernandes, C., Ferreira-Santos, F., Barbosa, F., & Marques-Teixeira, J. (2017). Meta-analytic evidence for a reversal learning effect on the Iowa gambling task in older adults. *Frontiers in Psychology*, 8: 1785. <https://doi.org/10.3389/fpsyg.2017.01785>

### **“Aware Mind-Brain: bridging insights on the mechanisms and neural substrates of human awareness and meditation”**

Investigadores/Researchers: Antonino Raffone, Salvatore Maria Aglioti, Henk P. Barendregt, Fabio M. Giommi, Juliana Jordanova, Peter Malinowski, Stephen Whitmarsh

Instituição/Institution: ECONA - Interuniversity Center for Cognitive Processing in Natural and Artificial Systems, Università degli Studi di Roma “La Sapienza” (Italy)

Duração/Duration: 2015/08 – 2019/02

#### *Peer-reviewed publications*

Nicolardi, V., Simone, L., Scaringi, D., Malinowski, P., Yordanova, J., Kolev, V., Mauro, F., Giommi, F., Barendregt, H. P., Aglioti, S. M., & Raffone, A. (2024). The two arrows of pain: mechanisms of pain related to meditation and mental states of aversion and identification. *Mindfulness*, 15, 753–774. <https://doi.org/10.1007/s12671-021-01797-0>

Dominguez, E., Casagrande, M. & Raffone, A. (2022) Autobiographical memory and mindfulness: A critical review with a systematic search. *Mindfulness*, 13(7), 1614-1651. <https://doi.org/10.1007/s12671-022-01902-x>

Guidotti, R., Del Gratta, C., Perrucci, M. G., Romani, G. L., & Raffone, A. (2021). Neuroplasticity within and between functional brain networks in mental training based on long-term meditation. *Brain Sciences*, 11(8), 1086. <https://doi.org/10.3390/brainsci11081086>

Simione, L., Raffone, A., & Mirolli, M. (2021). Acceptance, and not its interaction with attention monitoring, increases psychological well-being: Testing the monitor and acceptance theory of mindfulness. *Mindfulness*, 12(6), 1398-1411. <https://doi.org/10.1007/s12671-021-01607-7>

Yordanova, J., Kolev, V., Nicolardi, V., Simione, L., Mauro, F., Garberi, P., Raffone, A., & Malinowski, P. (2021). Attentional and cognitive monitoring brain networks in long-term meditators depend on meditation states and expertise. *Scientific Reports*, 11: 4909. <https://doi.org/10.1038/s41598-021-84325-3>

Chiarella, S. G., Makwana, M., Simione, L., Hartkamp, M., Calabrese, L., Raffone, A., & Srinivasan, N. (2020). Mindfulness meditation weakens attachment to self: Evidence from a self vs other binding task. *Mindfulness*, 11, 2411-2422. <https://doi.org/10.1007/s12671-020-01457-9>

Yordanova, J., Kolev, V., Mauro, F., Nicolardi, V., Simione, L., Calabrese, L., Malinowski, P., & Raffone, A. (2020). Common and distinct lateralised patterns of neural coupling during focused attention, open monitoring and loving kindness meditation. *Scientific Reports*, 10, 7430. <https://doi.org/10.1038/s41598-020-64324-6>

Giannandrea, A., Simione, L., Pescatori, B., Ferrell, K., Belardinelli, M. O., Hickman, S. D., & Raffone, A. (2019). Effects of the mindfulness-based stress reduction program on mind wandering and dispositional mindfulness facets. *Mindfulness*, 10(1), 185-195. <https://doi.org/10.1007/s12671-018-1070-5>

Raffone, A., Marzetti, L., Del Gratta, C., Perrucci, M. G., Romani, G. L., & Pizzella, V. (2019). Toward a brain theory of meditation. *Progress in Brain Research*, 244, 207-232. <https://doi.org/10.1016/bs.pbr.2018.10.028>

Simione, L., Raffone, A., & Mirolli, M. (2019). Stress as the missing link between mindfulness, Sleep quality, and well-being: A cross-sectional study. *Mindfulness*, 11, 439-451. <https://doi.org/10.1007/s12671-019-01255-y>

Raffone, A., & Srinivasan, N. (2017). Mindfulness and cognitive functions: Toward a unifying neurocognitive framework. *Mindfulness*, 8, 1. <https://doi.org/10.1007/s12671-016-0654-1>

Simione, L., Akyürek, E. G., Vastola, V., Raffone, A., & Bowman, H. (2017). Illusions of integration are subjectively impenetrable: Phenomenological experience of Lag 1 percepts during dual target RSVP. *Consciousness and Cognition*, 51, 181-192. <https://doi.org/10.1016/j.concog.2017.03.004>

Simione, L., Di Pace, E., Chiarella, S. G., & Raffone, A. (2019). Visual attention modulates phenomenal consciousness: Evidence from a change detection study. *Frontiers in Psychology*, 10, 2150. <https://doi.org/10.3389/fpsyg.2019.02150>



## Apoios à Investigação Científica 2016/17 | Grants for Scientific Research 2016/17

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 27/16 – “How do brains encode the distinctive movements of facial expressions?”

Investigador/Researcher: Nicholas Furl

Instituição/Institution: Department of Psychology, Royal Holloway, University of London, Egham (UK)

Duração/Duration: 2017/06 – 2020/07

Peer-reviewed publications

Furl, N., Begum, F., Ferrarese, F. P., Jans, S. & Woolley, C. (2022). Caricatured facial movements enhance perception of emotional facial expressions. *Perception*, 51, 5, 313-343. <https://doi.org/10.1177/03010066221086452>

Furl, N., Begum, F., Sulik, J., Ferrarese, F. P., Jans, S., & Woolley, C. (2020). Face space representations of movement. *NeuroImage*, 212: 116676. <https://doi.org/10.1016/j.neuroimage.2020.116676>

### 30/16 – “Exploring the neural basis of motivation”

Investigadores/Researchers: Ana João Rodrigues, Nivaldo Vasconcelos, Carina Cunha, Bárbara Coimbra, Laura Silva, Patrícia Monteiro, Sónia Borges, Pedro Morgado

Instituição/Institution: Life and Health Sciences Research Institute - ICVS, School of Health Sciences, University of Minho, Braga (Portugal)

Duração/Duration: 2017/01 – 2020/03

Peer-reviewed publications

Correia, R., Coimbra, B., Domingues, A. V., Wezik, M., Vieitas-Gaspar, N., Gaspar, R., Sousa, N., Pinto, L., Rodrigues, A. J., & Soares-Cunha, C. (2023). Involvement of nucleus accumbens D2-medium spiny neurons projecting to the ventral pallidum in anxiety-like behaviour. *Journal of Psychiatry & Neuroscience*, 48(4), E267–E284. <https://doi.org/10.1503/jpn.220111>

Caetano, I., Amorim, L., Castanho, T. C., Coelho, A., Ferreira, S., Portugal-Nunes, C., Soares, J. M., Gonçalves, N., Sousa, R., Reis, J., Lima, C., Marques, P., Moreira, P. S., Rodrigues, A. J., Santos, N. C., Morgado, P., Esteves, M., Magalhães, R., Picó-Pérez, M., & Sousa, N. (2022). Association of amygdala size with stress perception: Findings of a transversal study across the lifespan. *The European Journal of Neuroscience*, 56(8), 5287–5298. <https://doi.org/10.1111/ejn.15809>

Caetano, I., Ferreira, S., Coelho, A., Amorim, L., Castanho, T. C., Portugal-Nunes, C., Soares, J. M., Gonçalves, N., Sousa, R., Reis, J., Lima, C., Marques, P., Moreira, P. S., Rodrigues, A. J., Santos, N. C., Morgado, P., Magalhães, R., Picó-Pérez, M., Cabral, J., & Sousa, N. (2022). Perceived stress modulates the activity between the amygdala and the cortex. *Molecular Psychiatry*, 27(12), 4939-4947. <https://doi.org/10.1038/s41380-022-01780-8>

Domingues, A. V., Coimbra, B., Correia, R., Deseyve, C., Vieitas-Gaspar, N., Floresco, S., Sousa, N., Soares-Cunha, C., & Rodrigues, A. J. (2022). Prenatal dexamethasone exposure alters effort decision making and triggers nucleus accumbens and anterior cingulate cortex functional changes in male rats. *Translational Psychiatry*, 12, 338. <https://doi.org/10.1038/s41398-022-02043-4>

Gaspar, R., Soares-Cunha, C., Domingues, A. V., Coimbra, B., Baptista, F. I., Pinto, L., Ambrósio, A. F., Rodrigues, A. J. & Gomes, C. A. (2022). The duration of stress determines sex specificities in the vulnerability to depression and in the morphologic remodeling of neurons and microglia. *Frontiers in Behavioral Neuroscience*, 16, 834821. <https://doi.org/10.3389/fnbeh.2022.834821>

Soares-Cunha, C., Domingues, A. V., Correia, R., Coimbra, B., Vieitas-Gaspar, N., Vasconcelos, N., Pinto, L., Sousa, N. & Rodrigues, A. J. (2022). Distinct role of nucleus accumbens D2-MSN projections to ventral pallidum in different phases of motivated behavior. *Cell Reports*, 38, 7 <https://doi.org/10.1016/j.celrep.2022.110380>

Coimbra, B., Domingues, A. V., Soares-Cunha, C., Correia, R., Pinto, L., Sousa, N., & Rodrigues, A. J. (2021). Laterodorsal tegmentum-ventral tegmental area projections encode positive reinforcement signals. *Journal of Neuroscience Research*, 99(11), 3084–3100. <https://doi.org/10.1002/jnr.24931>



Gaspar, R., Soares-Cunha, C., Domingues, A. V., Coimbra, B., Baptista, F. I., Pinto, L., Ambrósio, A. F., Rodrigues, A. J., & Gomes, C. A. (2021). Resilience to stress and sex-specific remodeling of microglia and neuronal morphology in a rat model of anxiety and anhedonia. *Neurobiology of Stress*, 14, 100302. <https://doi.org/10.1016/j.ynstr.2021.100302>

Kataja, E. L., Rodrigues, A. J., Scheinin, N. M., Nolvi, S., Korja, R., Häikiö, T., Ekholm, E., Sousa, N., Karlsson, L., & Karlsson, H. (2021). Prenatal glucocorticoid-exposed infants do not show an age-typical fear bias at 8 months of age - Preliminary findings from the finnbrain birth cohort study. *Frontiers in Psychology*, 12, 655654. <https://doi.org/10.3389/fpsyg.2021.655654>

Lotfi, N., Fontenele, A. J., Feliciano, T., Aguiar, L. A. A., de Vasconcelos, N. A. P., Soares-Cunha, C., ..., Carelli, P. V. (2020). Signatures of brain criticality unveiled by maximum entropy analysis across cortical states. *Physical Review*, 102(1): 012408. <https://doi.org/10.1103/PhysRevE.102.012408>

Coimbra, B., Soares-Cunha, C., Vasconcelos, N. A. P., Domingues, A. V., Borges, S., Sousa, N., & Rodrigues, A. J. (2019). Role of laterodorsal tegmentum projections to nucleus accumbens in reward-related behaviors. *Nature Communications*, 10: 4138. <https://doi.org/10.1038/s41467-019-11557-3>

Fontenele, A. J., Vasconcelos, N., Feliciano, T., Aguiar, L. A. A., Soares-Cunha, C., Coimbra, B., Dalla Porta, L., Ribeiro, S., Rodrigues, A. J., Sousa, N., Carelli, P. V., & Copelli, M. (2019). Criticality between cortical states. *Physical Review Letters*, 122(20): 208101. <https://doi.org/10.1103/PhysRevLett.122.208101>

Soares-Cunha, C., Vasconcelos, N., Coimbra, B., Domingues, A. V., Silva, J. M., Loureiro-Campos, E., ... Rodrigues, A. J. (2020). Nucleus accumbens medium spiny neurons subtypes signal both reward and aversion. *Molecular Psychiatry*, 25(12), 3241-3255. <https://doi.org/10.1038/s41380-019-0484-3>

Soares-Cunha, C., Coimbra, B., Borges, S., Domingues, A. V., Silva, D., Sousa, N., & Rodrigues, A. J. (2018). Mild prenatal stress causes emotional and brain structural modifications in rats of both sexes. *Frontiers in Behavioral Neuroscience*, 12, 129. <https://doi.org/10.3389/fnbeh.2018.00129>

Soares-Cunha, C., Coimbra, B., Domingues, A. V., Vasconcelos, N., Sousa, N., & Rodrigues, A. J. (2018). Nucleus accumbens microcircuit underlying D2-MSN-driven increase in motivation. *eNeuro*, 5(2), e0386-18. <https://doi.org/10.1523/ENEURO.0386-18.2018>

Coimbra, B., Soares-Cunha, C., Borges, S., Vasconcelos, N. A., Sousa, N., & Rodrigues, A. J. (2017). Impairments in laterodorsal tegmentum to VTA projections underlie glucocorticoid-triggered reward deficits. *eLife*, 6: e25843. <https://doi.org/10.7554/eLife.25843>

### 32/16 – “Neural mechanisms of dream recall: Electrophysiological differences between young and older adults”

Investigadores/Researchers: Serena Scarpelli, Luigi De Gennaro, Anastasia Mangiaruga, Chiara Bartolacci  
Instituição/Institution: Department of Psychology, University of Rome “La Sapienza” (Italy)

Duração/Duration: 2017/04 – 2019/09

#### Peer-reviewed publications

Scarpelli, S., D'Atri, A., Bartolacci, C., Gorgoni, M., Mangiaruga, A., Ferrara, M., & De Gennaro, L. (2020). Dream recall upon awakening from non-rapid eye movement sleep in older adults: Electrophysiological pattern and qualitative features. *Brain Sciences*, 10, 343. <https://doi.org/10.3390/brainsci10060343>

D'Atri, A., Scarpelli, S., Schiappa, C., Pizza, F., Vandi, S., Ferrara, M., Cipolli, C., Plazzi, G., & De Gennaro, L. (2019). Cortical activation during sleep predicts dream experience in narcolepsy. *Annals of Clinical and Translational Neurology*, 6(3), 445-455. <https://doi.org/10.1002/acn3.718>

Scarpelli, S., Bartolacci, C., D'Atri, A., Gorgoni, M., & De Gennaro, L. (2019). The functional role of dreaming in emotional processes. *Frontiers in Psychology*, 10: 459. <https://doi.org/10.3389/fpsyg.2019.00459>

Scarpelli, S., D'Atri, A., Bartolacci, C., Mangiaruga, A., Gorgoni, M., & De Gennaro, L. (2019). Oscillatory EEG activity during REM sleep in elderly people predicts subsequent dream recall after awakening. *Frontiers in Neurology*. <https://doi.org/10.3389/fneur.2019.00985>

Scarpelli, S., Gorgoni, M., D'Atri, A., Ferrara, M., & De Gennaro, L. (2019). Structural and functional differences in brain mechanisms of dream recall. In H. Dringenberg (Eds.), *Handbook of Sleep Research* (Vol. 30, pp. 269-281). Academic Press.

Mangiaruga, A., Scarpelli, S., Bartolacci, C., & De Gennaro, L. (2018). Spotlight on dream recall: the ages of dreams. *Nature and Science of Sleep*, 10:1-12.

### **39/16 – “Considering voice hearing by psychic practitioners: A qualitative pluralistic investigation of mental health and well-being”**

Investigador/Researcher: Craig Murray

Instituição/Institution: Division of Health Research, Lancaster University (UK)

Duração/Duration: 2017/05 – 2020/06

#### *Peer-reviewed publications*

Murray, C. D., & Wilde, D. J. (2020). Thinking about, doing and writing up research using interpretative phenomenological analysis. In Walshe, C., & Brierley, S. (Eds.), *Handbook of Theory and Methods in Applied Health Research* (pp. 140-166). Edward Elgar: Cheltenham, UK. <https://doi.org/10.4337/9781785363214.00015>

Valavanis, S., Thompson, C., & Murray, C. D. (2019). Positive aspects of voice-hearing: a qualitative metasynthesis. *Mental Health, Religion and Culture*, 22(2), 208-225. <https://doi.org/10.1080/13674676.2019.1601171>

Wilde, D.J., Murray, J., Doherty, P., & Murray, C.D. (2019). Mental health and mediumship: an interpretative phenomenological analysis. *Mental Health, Religion & Culture*, 22(3), 261-278, <https://doi.org/10.1080/13674676.2019.1606186>

### **44/16 – “Inducing and measuring plasticity in response control mechanisms in the human brain”**

Investigadores/Researchers: Alejandra Sel de Felipe, Matthew Rushworth

Instituição/Institution: Department of Experimental Psychology, University of Oxford (UK)

Duração/Duration: 2017/10 – 2021/09

#### *Peer-reviewed publications*

Fouragnan, E. F., Hosking, B., Cheung, Y., Prakash, B., Rushworth, M., & Sel, A. (2024). Timing along the cardiac cycle modulates neural signals of reward-based learning. *Nature Communications*, 15(1), 2976. <https://doi.org/10.1038/s41467-024-46921-5>

Trajkovic, J., Romei, V., Rushworth, M. F. S., & Sel, A. (2023). Changing connectivity between premotor and motor cortex changes inter-areal communication in the human brain. *Progress in Neurobiology*, 228, 102487. <https://doi.org/10.1016/j.pneurobio.2023.102487>

Sel, A., Verhagen, L., Angerer, K., David, R., Klein-Flügge, M. C., & Rushworth, M. (2021). Increasing and decreasing interregional brain coupling increases and decreases oscillatory activity in the human brain. *Proceedings of the National Academy of Sciences*, 118(37), e2100652118. <https://doi.org/10.1073/pnas.2100652118>

Wittmann, M. K., Trudel, N., Trier, H. A., Klein-Flügge, M. C., Sel, A., Verhagen, L., & Rushworth, M. F. S. (2021). Causal manipulation of self-other mergence in the dorsomedial prefrontal cortex. *Neuron*, 109(14), 2353–2361.e11. <https://doi.org/10.1016/j.neuron.2021.05.027>

Sel, A., Calvo-Merino, B., Tsakiris, M., & Forster, B. (2020). The somatotopy of observed emotions. *Cortex*, 129, 11-22. <https://doi.org/10.1016/j.cortex.2020.04.002>

Gentsch, A., Sel, A., Marshall, A. C., Schütz-Bosbach, S. (2019). Affective interoceptive inference: Evidence from heart-beat evoked brain potentials. *Human Brain Mapping*, 40(1), 20-33. <https://doi.org/10.1002/hbm.24352>

### **51/16 – “Cognitive plasticity: Modulation and monitoring through a neurophysiological approach”**

Investigadores/Researchers: Carlo Miniussi, Romina Esposito

Instituição/Institution: Centre for Mind/Brain Sciences - CIMeC, University of Trento, Rovereto (Italy)

Duração/Duration: 2017/03 – 2020/03

#### *Peer-reviewed publications*

Grasso, P. A., Tonolli, E., Bortoletto, M., & Miniussi, C. (2020). tDCS over posterior parietal cortex increases cortical excitability but decreases learning: an ERPs and TMS-EEG study. *Brain Research*, 1753, 147227. <https://doi.org/10.1016/j.brainres.2020.147227>

Grasso, P. A., Tonolli, E., & Miniussi, C. (2020). Effects of different transcranial direct current stimulation protocols on visuo-spatial contextual learning formation: Evidence of homeostatic regulatory mechanisms. *Scientific Reports*, 10: 4622. <https://doi.org/10.1038/s41598-020-61626-7>

#### **58/16 – “Psi, nonlocality and entangled photons”**

Investigadores/Researchers: Dean Radin, Peter Bancel, Arnaud Delorme

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA); Institute Metapsychique Internationale, Paris (France)

Duração/Duration: 2019/09 – 2021/11

##### *Peer-reviewed publications*

Radin, D., Bancel, P., & Delorme, A. (2021). Psychophysical interactions with entangled photons: Five exploratory studies. *Journal of Anomalous Experience and Cognition*, 1(1-2), 9-54. <https://doi.org/10.31156/23392>

#### **62/16 – “Imagination and reactance in a psi task using the imagery cultivation model and a fuzzy set encoded target pool”**

Investigador/Researcher: Lance Storm

Instituição/Institution: Brain and Cognition Research Centre, School of Psychology, University of Adelaide (Australia)

Duração/Duration: 2017/11 – 2019/04

##### *Peer-reviewed publications*

Storm, L., & Goretzki, M. (2020). Spiritual emergency and psi: Testing the psychic opening hypothesis. *Journal of Transpersonal Psychology*, 52(1), 142-162.

Storm, L. (2019). Imagination and reactance in a psi task using the imagery cultivation model and a fuzzy set encoded target pool. *Journal of Scientific Exploration*, 33(2), 193-208. <https://doi.org/10.31275/2019.1374>

#### **66/16 – “Mindfulness meditation shapes synchronization of brain networks for effective perceptual decision making”**

Investigador/Researcher: Laura Marzetti

Instituição/Institution: Department of Neurosciences, Imaging and Clinical Sciences, University "G. D'Annunzio" of Chieti - Pescara (Italy)

Duração/Duration: 2017/09 – 2019/09

##### *Peer-reviewed publications*

D'Andrea, A., Basti, A., Tosoni, A., Guidotti, R., Chella, F., Michelmann, S., Romani, G. L., Pizzella, V., & Marzetti, L. (2022). Magnetoencephalographic spectral fingerprints differentiate evidence accumulation from saccadic motor preparation in perceptual decision-making. *iScience*, 25(10), 105246. <https://doi.org/10.1016/j.isci.2022.105246>

Basti, A., Chella, F., Snyder, A. Z., Pizzella, V., & Marzetti, L. (2019). Spatiotemporal structures of time lags in the brain as revealed by magnetoencephalography. *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 2762-2766. <https://doi.org/10.1109/SMC.2019.8914571>

Croce, P., Zappasodi, F., Marzetti, L., Merla, A., Pizzella, V., & Chiarelli, A. M. (2019). Deep convolutional neural networks for feature-less automatic classification of independent components in multi-channel electrophysiological brain recordings. *IEEE Transactions on Biomedical Engineering*, 66(8), 2372-2380. <https://doi.org/10.1109/TBME.2018.2889512>

D'Andrea, A., Chella, F., Marshall, T. R., Pizzella, V., Romani, G. L., Jensen, O., & Marzetti, L. (2019). Alpha and alpha-beta phase synchronization mediate the recruitment of the visuospatial attention network through the Superior Longitudinal Fasciculus. *Neuroimage*, 188, 722-732. <https://doi.org/10.1016/j.neuroimage.2018.12.056>

Raffone, A., Marzetti, L., Del Gratta, C., Perrucci, M. G., Romani, G. L., & Pizzella, V. (2019). Toward a brain theory of meditation. *Progress in Brain Research*, 244, 207-232. <https://doi.org/10.1016/bs.pbr.2018.10.028>

#### **69/16 – Induced near-death-experiences in healthy volunteers: Phenomenology, psychophysiology and after effects. Illustration with two exceptional case studies”**

Investigadores/Researchers: Mário Simões, Sofia Machado Ferreira, Ana Paula Farinha

Instituição/Institution: Laboratory of Mind-Matter Interaction with Therapeutic Intention - LIMMIT, Faculdade de Medicina da Universidade de Lisboa (Portugal); Hospital de Santa Maria, Lisboa (Portugal)

Duração/Duration: 2018/05 – 2020/11

##### *Peer-reviewed publications*

Machado, S., Simões, M., & Franco, L. (2022). Hypnotically induced near-death-like experiences: An exploratory study of phenomenological similarities. *Journal of Near-Death Studies*, 40(1), 47-68. <https://doi.org/10.17514/JNDS-2022-40-1-p47-68>

#### **70/16 – “Understanding atypical metacognition and time perception in high hypnotic suggestibility”**

Investigador/Researcher: Devin Terhune

Instituição/Institution: Department of Psychology, Goldsmiths, University of London (UK)

Duração/estimated duration: 2017/11 – 2026/08

##### *Peer-reviewed publications*

Millman, L. S. M., Hunter, E. C. M., David, A. S., Orgs, G., & Terhune, D. B. (2022). Assessing responsiveness to direct verbal suggestions in depersonalization-derealization disorder. <https://doi.org/10.1101/2022.01.21.22269634>

Wieder, L., Brown, R. J., Thompson, T., & Terhune, D. B. (2022). Hypnotic suggestibility in dissociative and related disorders: A meta-analysis. *Neuroscience and Biobehavioral Reviews*, 139, 104751. <https://doi.org/10.1016/j.neubiorev.2022.104751>

Terhune, D., & Oakley, D. (2020). Hypnosis and Imagination. In A. Abraham (Ed.), *The Cambridge Handbook of the Imagination* (Cambridge Handbooks in Psychology, pp. 711-727). Cambridge: Cambridge University Press. <https://doi.org/10.1017/9781108580298.043>

Wieder, L., & Terhune, D. B. (2019) Trauma and anxious attachment influence the relationship between suggestibility and dissociation: a moderated-moderation analysis. *Cognitive Neuropsychiatry*, 24:3, 191-207. <https://doi.org/10.1080/13546805.2019.1606705>

Lemercier, C. E., & Terhune, D. B. (2018). Psychedelics and hypnosis: Commonalities and therapeutic implications. *Journal of Psychopharmacology*, 32(7), 732-740. <https://doi.org/10.1177/0269881118780714>

#### **72/16 – “A physiological examination of full-trance channeling”**

Investigadores/Researchers: Helané Wahbeh, Arnaud Delorme

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2017/09 – 2019/03

##### *Peer-reviewed publications*

Wahbeh, H., Cannard, C., Kriegsman, M., & Delorme, A. (2023). Evaluating brain spectral and connectivity differences between silent mind-wandering and trance states. *Progress in Brain Research*, 277, 29-61. <https://doi.org/10.1016/bs.pbr.2022.12.011>

Anastasia, J., Delorme, A., Okonsky, J., Wahbeh, H. (2020). A qualitative exploratory analysis of channeled content. *Explore: The Journal of Science and Healing*, 16(4), 231-236. <https://doi.org/10.1016/j.explore.2020.02.008>

Wahbeh, H., & Butzer, B. (2020). Characteristics of English-Speaking Trance Channelers. *Explore: The Journal of Science and Healing*, 16(5), 304–309. <https://doi.org/10.1016/j.explore.2020.02.002>

Wahbeh, H., Cannard, C., Okonsky, J., & Delorme, A. (2019). A physiological examination of perceived incorporation during trance [version 2; referees: 2 approved]. *F1000Research*, 8: 67. <https://doi.org/10.12688/f1000research.17157.2>

#### **75/16 – “The painful awareness of death: Influence of thoughts of death on behavioural and cerebral activity associated with painful nociceptive stimuli”**

Investigador/Researcher: Elia Valentini

Instituição/Institution: Department of Psychology, Faculty of Science and Health, University of Essex, Colchester (UK)

Duração/Duration: 2017/10 – 2022/09

##### *Peer-reviewed publications*

Gyimes, I. L., & Valentini, E. (2023). Reminders of Mortality: Investigating the effects of different mortality saliences on somatosensory neural activity. *Brain Sciences*, 13(7), 1077. <https://doi.org/10.3390/brainsci13071077>

Valentini, E., & Gyimes, I. L. (2019). Visual cues of threat elicit greater steady-state electroencephalographic responses than visual reminders of death. *Biological Psychology*, 139, 73-86. <https://doi.org/10.1016/j.biopsycho.2018.10.004>



**76/16 – “Unleashing the hidden powers of the mind through manipulating belief in cognitive enhancement devices”**

Investigadores/Researchers: Michiel van Elk, Uffe Schjoedt, Marcel Brass

Instituição/Institution: Department of Psychology, University of Amsterdam (The Netherlands); School of Culture and Society - Department of the Study of Religion, University of Aarhus (Denmark)

Duração/Duration: 2017/03 – 2022/10

*Peer-reviewed publications*

van Elk, M., Groenendijk, E., & Hoogeveen, S. (2020). Placebo brain stimulation affects subjective but not neurocognitive measures of error processing. *Journal of Cognitive Enhancement*, 4, 389-400. <https://doi.org/10.1007/s41465-020-00172-6>

van Elk, M. (2019). Socio-cognitive biases are associated to belief in neuromyths and cognitive enhancement: A pre-registered study. *Personality and Individual Differences*, 147, 28-32. <https://doi.org/10.1016/j.paid.2019.04.014>

Maij, D. L. R., & van Elk, M. (2018). Getting absorbed in experimentally induced extraordinary experiences: Effects of placebo brain stimulation on agency detection. *Consciousness and Cognition*, 6: 1-16. <https://doi.org/10.1016/j.concog.2018.09.010>

**86/16 – “Does cortical excitability predict out of body experience and anomalous perception in the non-clinical population”**

Investigador/Researcher: Elizabeth Milne

Instituição/Institution: Department of Psychology, University of Sheffield (UK)

Duração/Duration: 2017/09 – 2018/11

*Peer-reviewed publications*

Milne, E., Dunn, S., Zhao, C., & Jones, M. (2019). Altered neural dynamics in people who report spontaneous out of body experiences. *Cortex*, 111, 87-99. <https://doi.org/10.1016/j.cortex.2018.10.019>

**88/16 – “The interoceptive self: Transcutaneous vagus nerve stimulation as a new tool to investigate heart-brain interactions”**

Investigadores/Researchers: Ruben Azevedo, Emmanouil Tsakiris, Valerio Vallani

Instituição/Institution: Department of Psychology, Royal Holloway, University of London (UK)

Duração/Duration: 2017/10 – 2019/10

*Peer-reviewed publications*

Villani, V., Finotti, G., Di Lernia, D., Tsakiris, M. & Azevedo, R. T. (2022). Event-related transcutaneous vagus nerve stimulation modulates behaviour and pupillary responses during an auditory oddball task. *Psychoneuroendocrinology*, 140, 105719. <https://doi.org/10.1016/j.psyneuen.2022.105719>

Villani, V., Tsakiris, M., & Azevedo, R. T. (2019). Transcutaneous vagus nerve stimulation improves interoceptive accuracy. *Neuropsychologia*, 134, Article 107201. <https://doi.org/10.1016/j.neuropsychologia.2019.107201>

**93/16 – “Synchronizing brain and heart through decelerated respiration – An EEG-ECG study investigating the effects of paced breathing”**

Investigadores/Researchers: Thilo Hinterberger, Teele Tamm

Instituição/Institution: Research Section of Applied Consciousness Sciences, Department of Psychosomatic Medicine, University Medical Center Regensburg (Germany)

Duração/Duration: 2018/08 – 2020/06

*Peer-reviewed publications*

Hinterberger, T., Walter, N., Doliwa, C., & Loew, T. (2019). The brain's resonance with breathing – decelerated breathing synchronizes heart rate and slow cortical potentials. *Journal of Breath Research*, 13(4), 046003. <https://doi.org/10.1088/1752-7163/ab20b2>

## 95/16 – “Reward modulation of tactile stimulus processing”

Investigadores/Researchers: Miguel Pais-Vieira, Marlene Barros, Nuno Rosa, Nivaldo Vasconcelos, Carla Pais-Vieira

Instituição/Institution: Instituto de Ciências da Saúde, Universidade Católica Portuguesa, Porto (Portugal); Life and Health Sciences Research Institute - ICVS, School of Health Sciences, University of Minho, Braga (Portugal)

Duração/Duration: 2017/10 – 2023/05

### Peer-reviewed publications

Evans, J., Aixalà, M., Anderson, B. T., Brennan, W., Bremner, R., Breeksema, J. J., Burbach, L., Calder, A. E., Carhart-Harris, R. L., Cheung, K., Devenot, N., Gorman, I., Gren, J., Hendricks, P. S., Holoyda, B., Jacobs, E., Krecké, J., Kruger, D. J., Luke, D., ... Yaden, D. B. (2025). On minimizing risk and harm in the use of psychedelics. *Psychiatry Research: Clinical Practice*. <https://doi.org/10.1176/appi.prcp.20240128>

Pais-Vieira, C., Figueiredo, J. G., Perrotta, A., Matos, D., Aguiar, M., Ramos, J., Gato, M., Poleri, T., & Pais-Vieira, M. (2024). Activation of a Rhythmic Lower Limb Movement Pattern during the Use of a Multimodal Brain-Computer Interface: A Case Study of a Clinically Complete Spinal Cord Injury. *Life*, 14(3), 396. <https://doi.org/10.3390/life14030396>

Ramos, T., Ramos, J., Pais-Vieira, C., & Pais-Vieira, M. (2024). Fronto-central changes in multiple frequency bands in active tactile width discrimination task. *Brain Sciences*, 14(9), 915. <https://doi.org/10.3390/brainsci14090915>

Pais-Vieira, C., Allahdad, M. K., Perrotta, A., Peres, A. S., Kunicki, C., Aguiar, M., Oliveira, M., & Pais-Vieira, M. (2023). Neurophysiological correlates of tactile width discrimination in humans. *Frontiers in Human Neuroscience*, 17, 1155102. <https://doi.org/10.3389/fnhum.2023.1155102>

Pais-Vieira, C., Gaspar, P., Matos, D., Alves, L., Cruz, B., Azevedo, M., Gago, M., Poleri, T., Perrotta, A. & Pais-Vieira, M. (2022). Embodiment comfort levels during motor imagery training combined with immersive virtual reality spinal cord injury patient. *Frontiers in Human Neuroscience*, 16, 909112. <https://doi.org/10.3389/fnhum.2022.909112>

Pais-Vieira, C., Allahdad, M., Neves-Amado, J., Perrotta, A., Morya, E., Moiola, R., Shapkova, E., & Pais-Vieira, M. (2020). Method for positioning and rehabilitation training with the ExoAtlet® powered exoskeleton. *MethodsX*, 7, 100849. <https://doi.org/10.1016/j.mex.2020.100849>

Perrotta, A., Pais-Vieira, C., Allahdad, M. K., Bicho, E., & Pais-Vieira, M. (2020). Differential width discrimination task for active and passive tactile discrimination in humans. *MethodsX*, 100852. <https://doi.org/10.1016/j.mex.2020.100852>

Pais-Vieira, M., Kunicki, C., Peres, A., & Sousa, N., (2019). Ceftriaxone modulates the acute corticosterone effects in local field potentials in the primary somatosensory cortex of anesthetized mice. *Scientific Reports*, 9(1), 20289. <https://doi.org/10.1038/s41598-019-56827-8>

## 97/16 – “Reproductive hormonal status as a predictor of precognition”

Investigadores/Researchers: Julia Mossbridge, Daryl Bem

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA); Department of Psychology, Cornell University, Ithaca (USA)

Duração/Duration: 2017/02 – 2018/06

### Peer-reviewed publications

Mossbridge, J., Cameron, K., & Boccuzzi, M. (2024). State, trait, and target parameters associated with accuracy in two online tests of precognitive remote viewin. *Journal of Anomalous Experience and Cognition*, 4(1), 88–121. <https://doi.org/10.31156/jaex.24743>

Mossbridge, J. (2023). Precognition at the boundaries: An empirical review and theoretical discussion. *Journal of Anomalous Experience and Cognition*, 3(1), 5-41. <https://doi.org/10.31156/jaex.24216>

Mossbridge, J., & Radin, D. (2021). Psi performance as a function of demographic and personality factors in smartphone-based tests: Using a “SEARCH” approach. *Journal of Anomalous Experience and Cognition*, 1(1-2), 18-113. <https://doi.org/10.31156/jaex.23419>

Mossbridge, J. A., Nisam, M., & Crabtree, A. (2021). Can hypnotic suggestion induce feelings of unconditional love and supernormal performance? *Spirituality in Clinical Practice*, 8(1), 30–50. <https://doi.org/10.1037/scp0000239>

Mossbridge, J. (2019). Time and (Un)conscious processes predictive anticipatory activity and potential applications. *CEUR Workshop Proceedings*, 2287: 32.

Mossbridge, J., & Radin, D. (2018). Plausibility, statistical interpretations, physical mechanisms and a new outlook: Response to commentaries on a precognition review. *Psychology of Consciousness: Theory, Research, and Practice*, 5(1), 110-116. <https://doi.org/10.1037/cns0000152>

Mossbridge, J. & Radin, D. (2018). Precognition as a form of prospection: A review of the evidence. *Psychology of Consciousness: Theory, Research, and Practice*, 5(1), 78-93. <https://doi.org/10.1037/cns0000121>

**100/16 – “Arousal effects on time perception and timed behavior”**

Investigadores/Researchers: Ruth Ogden, Michael Richter, Francis McGlone

Instituição/Institution: School of Natural Sciences and Psychology, Liverpool John Moores University (UK)

Duração/Duration: 2017/09 – 2019/05

*Peer-reviewed publications*

Ogden, R. S., Henderson, J., McGlone, F., & Richter, M. (2019). Time distortion under threat: Sympathetic arousal predicts time distortion only in the context of negative, highly arousing stimuli. *Psychological Research, PLoS ONE* 14(5): e0216704. <https://doi.org/10.1371/journal.pone.0216704>

Ogden, R. S., Henderson, J., Slade, K., McGlone, F., & Richter, M. (2019). The effect of increased parasympathetic activity on perceived duration. *Consciousness and Cognition*, 76: 102829. <https://doi.org/10.1016/j.concog.2019.102829>

**101/16 – “Implications of near-death experiences for the mind-brain relationship”**

Investigadores/Researchers: Bruce Greyson, Surbhi Khanna, Lauren Moore, Lori Derr, Sue Ruddock  
Instituição/Institution: Division of Perceptual Studies, Department of Psychiatry and Neurobehavioral Sciences, University of Virginia, Charlottesville (USA)

Duração/Duration: 2017/07 – 2018/11

*Peer-reviewed publications*

Khanna, S., Moore, L., & Greyson, B. (2018). Full neurological recovery from *Escherichia coli* Meningitis associated with near-death experience. *Journal of Nervous and Mental Disease*, 206(9), 744-747. <https://doi.org/10.1097/NMD.0000000000000874>

**102/16 – “Using suggestion to influence attitudes and behavior”**

Investigadores/Researchers: Jeremy Olson, Thomas Strandberg, Amir Raz, Petter Johansson

Instituição/Institution: Raz Cognitive Neuroscience Lab, McGill University & Montreal Neurological Institute (Canada); Choice Blindness Laboratory, Lund University Cognitive Science (Sweden)

Duração/Duration: 2018/01 – 2020/01

*Peer-reviewed publications*

Olson, J. A., Cyr, M., Artenie, D. Z., Strandberg, T., Hall, L., Tompkins, M. L., Raz, A., & Johansson, P. (2023). Emulating future neurotechnology using magic. *Consciousness and Cognition*, 107, 103450. <https://doi.org/10.1016/j.concog.2022.103450>

Olson, J. A., & Raz, A. (2021). Applying insights from magic to improve deception in research: The Swiss cheese model. *Journal of Experimental Social Psychology*, 92: 104053. <https://doi.org/10.1016/j.jesp.2020.104053>

Strandberg, T., Olson, J. A., Hall, L., Woods, A., & Johansson, P. (2020) Depolarizing american voters: Democrats and Republicans are equally susceptible to false attitude feedback. *PLoS ONE*, 15(2): e0226799. <https://doi.org/10.1371/journal.pone.0226799>

**109/16 – “Mental imagery in the human brain: In space and time”**

Investigador/Researcher: Leila Reddy

Instituição/Institution: Centre de Recherche Cerveau et Cognition - CerCo, Centre National de la Recherche Scientifique, Toulouse (France)

Duração/Duration: 2017/06 – 2021/01

*Peer-reviewed publications*

VanRullen, R., & Reddy, L. (2019). Reconstructing faces from fMRI patterns using deep generative neural networks. *Communications Biology*, 2: 193. <https://doi.org/10.1038/s42003-019-0438-y>

**111/16 – “A psychophysiological perspective of the transformative experience of pregnancy”**

Investigadores/Researchers: Helena Rutherford, Linda Mayes, Catherine Monk, Elizabeth Meins, Brianna Francis

Instituição/Institution: Child Study Center – CSC, Yale University School of Medicine, New Haven (USA)

Duração/Duration: 2017/03 – 2020/02

*Peer-reviewed publications*

Ayala, K., Falcioni, L., Eilbott, J., Lamore, J., Voegtline, K., & Rutherford, H. J. V. (2025). Associations between fetal movement and maternal-fetal attachment in late pregnancy. *Early Human Development*, 210, 106351. <https://doi.org/10.1016/j.earlhumdev.2025.106351>

Levy, J. C. P., Yatziv, T., Bunderson, M., Bartz, C., Vancor, E. A., & Rutherford, H. J. V. (2025). Anxiety and neural correlates of attention and self-regulation in pregnancy: A resting-state EEG study. *Archives of Women's Mental Health*, 28(1), 43–53. <https://doi.org/10.1007/s00737-024-01505-6>

Rutherford, H. J. V., Ayala, K., Falcioni, L., Eilbott, J., & Voegtline, K. (2025). A role for fetal movement in shaping maternal neurodevelopment. *Developmental Psychobiology*, 67(5), e70073. <https://doi.org/10.1002/dev.70073>

Penner, F., Bunderson, M., Bartz, C., Brooker, R., & Rutherford, H. (2022). Emotion regulation strategies and perceived stress during pregnancy in expectant mothers and fathers. *Journal of Reproductive and Infant Psychology*, 42(3), 410–423. <https://doi.org/10.1080/02646838.2022.2110224>

Peoples, S. G., Lowell, A. F., Bunderson, M., Bartz, C., Yip, S. W., & Rutherford, H. J. V. (2022). The effects of prenatal stress on neural responses to infant cries in expectant mothers and fathers. *Developmental Psychobiology*, 64(5), e22280. <https://doi.org/10.1002/dev.22280>

Rutherford, H. J. V., Bunderson, M., Bartz, C., Haitzuka, H., Meins, E., Groh, A. M., & Milligan, K. (2021). Imagining the baby: Neural reactivity to infant distress and mind-mindedness in expectant parents. *Biological Psychology*, 161: 108057. <https://doi.org/10.1016/j.biopsycho.2021.108057>

Rutherford, H. J., Yip, S. W., Worhunsky, P., Zhang, R., Yip, S. W., Morie, K. P., ... Potenza, M. N. (2019). Gradient theories of brain activation: A novel application to studying the parental brain. *Current Behavioral Neuroscience Reports*, 6(3), 119-125. <https://doi.org/10.1007/s40473-019-00182-5>

O'Hair, C., Armstrong, K., & Rutherford, H. (2018). The potential utility for massage therapy during pregnancy to decrease stress and tobacco use. *International Journal of Therapeutic Massage & Bodywork*, 11(3), 15-19.

Rutherford, H., Crowley, M. J., Gao, L., Francis, B., Schultheis, A., & Mayes, L. (2018). Prenatal neural responses to infant faces predict postpartum reflective functioning. *Infant Behavior and Development*, 53, 43-48. <https://doi.org/10.1016/j.infbeh.2018.09.003>

Rutherford, H., Maupin, A., & Mayes, L. (2018). Parity and neural responses to social and non-social stimuli in pregnancy. *Social Neuroscience*, 14(5), 545-548. <https://doi.org/10.1080/17470919.2018.1518833>

#### **114/16 – “Effects of a mindfulness-based intervention for teachers: A study on teacher and student outcomes”**

Investigadores/Researchers: Alexandra Marques-Pinto, Ana Pinheiro, Patricia Jennings, Mark Greenberg  
Instituição/Institution: Centro de Investigação em Ciência Psicológica- CICPSI, Faculdade de Psicologia da Universidade de Lisboa (Portugal)

Duração/Duration: 2017/01 – 2020/03

##### *Peer-reviewed publications*

de Carvalho, J. S., Oliveira, S., Roberto, M. S., Gonçalves, C., Bárbara, J. M., de Castro, A. F., ... Marques-Pinto, A. (2021). Effects of a mindfulness-based intervention for teachers: A study on teacher and student outcomes. *Mindfulness*, 12, 1719-1732. <https://doi.org/10.1007/s12671-021-01635-3>

#### **117/16 – “Replication in parapsychology: The correlation matrix method”**

Investigadores/Researchers: Caroline Watt, Ana Flores

Instituição/Institution: Koestler Parapsychology Unit, University of Edinburgh, Scotland (UK)

Duração/Duration: 2017/01 – 2018/10

##### *Peer-reviewed publications*

Flores, A. (2018). Edinburgh software validation test for researchers in psychology. *Open Science Journal of Psychology*, 5(5), 68-72.

Tierney, I., Watt, C., & Flores, A. (2018). Measuring organisational closure in the MPI/GQT/CMM context. *Journal of Parapsychology*, 82(2), 198-202.

#### **118/16 – “The experiences of participants in religious healing rituals in Lourdes: The role of noetic meaning and identity shift”**

Investigadores/Researchers: Paul Dieppe, Sarah Goldingay, Sarah Warber, Emmylou Rahtz

Instituição/Institution: Institute of Health Research, University of Exeter Medical School (UK); Centre for Research in Psychology, Behaviour and Achievement, University of Coventry (UK)

Duração/Duration: 2017/07 – 2022/09

##### *Peer-reviewed publications*

Rahtz, E., Warber, S. L., Goldingay, S., & Dieppe, P. (2021). Transcendent Experiences Among Pilgrims to Lourdes: A Qualitative Investigation. *Journal of Religion and Health*, 60(6), 3788-3806. <https://doi.org/10.1007/s10943-021-01306-6>



**124/16 – “The missing photon experiment: Does focused attention employ matter as an agent for interacting with light?”**

Investigador/Researcher: Loren Carpenter

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2017/02 – 2021/02

*Peer-reviewed publications*

Carpenter, L., Cannard, C., Wahbeh, H., & Radin, D. (2021). Psychophysical interactions with photons: Three exploratory studies with unexpected results. *Journal of the Society for Psychical Research*, 85(1), 31-48.

**142/16 – “Gender differences in physiological correlates of multitasking”**

Investigador/Researcher: Andre Szameitat

Instituição/Institution: Centre for Cognitive Neuroscience, Division of Psychology, Department of Life Sciences, Brunel University London, Uxbridge (UK)

Duração/Duration: 2017/09 – 2026/02

*Peer-reviewed publications*

Szameitat, A. J., & Szameitat, D. P. (2026). Men talk less than women during multitasking. *Psychological Research*, 90(3), 93. <https://doi.org/10.1007/s00426-026-02279-5>

Szameitat, A. J., & Brunel Students (2022). Inter-individual differences in executive functions predict multitasking performance - Implications for the central attentional bottleneck. *Frontiers in Psychology*, 13, 778966. <https://doi.org/10.3389/fpsyg.2022.778966>

Otermans, P., Parton, A., & Szameitat, A. J. (2021). The working memory costs of a central attentional bottleneck in multitasking. *Psychological Research*, 86(6), 1774–1791. <https://doi.org/10.1007/s00426-021-01615-1>

Szameitat, A. J., & Hayati, M. (2019). Gender differences in polychronicity. *Frontiers in psychology*, 10, 597. <https://doi.org/10.3389/fpsyg.2019.00597>

**147/16 – “Metarepresentations of supernatural belief and the effect of context on physiological responses and cognitions”**

Investigadores/Researchers: Malcolm Schofield, Ian Baker, David Sheffield, Paul Staples  
Instituição/Institution: Department of Psychology, College of Life and Natural Sciences, University of Derby (UK)

Duração/Duration: 2018/02 – 2023/07

*Peer-reviewed publications*

Schofield, M., Sheffield, D., & Baker, I. (2022). Metarepresentations of Supernatural Belief and the Effect of Context on Cognition. *Journal of Scientific Exploration*, 36(2), 289-297. <https://doi.org/10.31275/20222501>

**152/16 – “The role of the lateral occipital area in the visual processing of object size, shape, and orientation within and outside conscious awareness”**

Investigadores/Researchers: Philippe Chouinard, Irene Sperandio, Robin Laycock

Instituição/Institution: La Trobe University, Melbourne (Australia); School of Psychology, University of East Anglia, Norwich (UK)

Duração/Duration: 2017/03 – 2019/09

*Peer-reviewed publications*

Peel, H. & Chouinard, P. (2022). fMRI form adaptation and size repetition enhancement in different subdivisions of the lateral occipital complex. *Cortex*, 154, 135-148. <https://doi.org/10.1016/j.cortex.2022.04.020>

Peel, H. J., Royals, K. A., & Chouinard, P. A. (2021). The effects of word identity, case, and SOA on word priming in a subliminal context. *Journal of Psycholinguistic Research*, 51(1), 1-15. <https://doi.org/10.1007/s10936-021-09783-2>

Peel, H. J., Sherman, J. A., Sperandio, I., Laycock, R., & Chouinard, P. A. (2019). Perceptual size discrimination requires awareness and late visual areas: A continuous flash suppression and interocular transfer study. *Consciousness and Cognition*, 67, 77-85. <https://doi.org/10.1016/j.concog.2018.11.012>

Cox, E. J., Sperandio, I., Laycock, R., & Chouinard, P. A. (2018). Conscious awareness is required for the perceptual discrimination of threatening animal stimuli: A visual masking and continuous flash suppression study. *Consciousness and Cognition*, 65, 280-292. <https://doi.org/10.1016/j.concog.2018.09.008>

Peel, H. J., Sperandio, I., Laycock, R., & Chouinard, P. (2018). Perceptual discrimination of basic object features is not facilitated when priming stimuli are prevented from reaching awareness by means of visual masking. *Frontiers in Integrative Neuroscience*, 2: 13. <https://doi.org/10.3389/fnint.2018.00013>

Laycock, R., Sherman, J. A., Sperandio, I., & Chouinard, P. A. (2017). Size aftereffects are eliminated when adaptor stimuli are prevented from reaching awareness by continuous flash suppression. *Frontiers in Human Neuroscience*, 11: 479. <https://doi.org/10.3389/fnhum.2017.00479>

#### **157/16 – “Estranged from oneself, estranged from the others: Investigating the effect of depersonalisation on self-other mirroring”**

Investigadores/Researchers: Anna Ciaunica, Harry Farmer, Ophelia Deroy, Vittorio Gallese

Instituição/Institution: Institute of Philosophy Porto, University of Porto (Portugal); Institute of Cognitive Neuroscience, University College London (UK)

Duração/Duration: 2017/05 – 2021/09

##### *Peer-reviewed publications*

Ciaunica, A., Pienkos, E., Nakul, E., Madeira, L., & Farmer, H. (2023). Exploration of self- and world-experiences in depersonalization traits. *Philosophical Psychology*, 36(2), 380-412. <https://doi.org/10.1080/09515089.2022.2056009>

Wozniak, M., McEllin, L., Hohwy, J., & Ciaunica, A. (2023). Depersonalization affects self-prioritization of bodily, but not abstract self-related information. *Journal of Experimental Psychology: Human Perception and Performance*, 49(11), 1447–1459. <https://doi.org/10.1037/xhp0001153>

Ciaunica, A., Seth, A., Limanowski, J., Hesp, C., & Friston, K. (2022). I overthink - Therefore I am not: An active inference account of altered sense of self and agency in depersonalisation disorder. *Consciousness and Cognition*, 101, 103320. <https://doi.org/10.1016/j.concog.2022.103320>

Ciaunica, A. (forthcoming, 2022). (Des)Integrating the self – Atypical multisensory integration of self- and world perception in depersonalisation and psychedelic experiences. In L. Chris & G. Philip (Eds.). *Philosophical Perspectives on the Psychedelic Renaissance*. Oxford University Press.

Ciaunica, A., Mathew, J. M., Deroy, O., & Fairhurst, M. T. (2021). Getting in touch with the lost self: Vicarious and affective touch in depersonalisation. <https://doi.org/10.31234/osf.io/4pnyq>

Ciaunica, A., Charlton, J., & Farmer, H. (2021). When the window cracks: Transparency and the fractured self in depersonalisation. *Phenomenology and the Cognitive Sciences*, 20(1), 1-19. <https://doi.org/10.1007/s11097-020-09677-z>

Ciaunica, A., Roepstorff, A., Fotopoulou, A., & Petreca, B. (2021). Whatever next and close to my self – The transparent senses and the ‘Second Skin’: Implications for the case of depersonalisation. *Frontiers in Psychology*, 12: 613587. <https://doi.org/10.3389/fpsyg.2021.613587>

Farmer, H., Cataldo, A., Adel, N., Wignall, E., Gallese, V., Deroy, O., Hamilton, A., & Ciaunica, A. (2020). The detached self: Investigating the effect of depersonalisation on self-bias in the visual remapping of touch. *Multisensory Research*, 34(4), 365-386. <https://doi.org/10.1163/22134808-bja10038>

#### **159/16 – “Unraveling the neural mechanisms of human memory decisions with magnetoencephalography”**

Investigadores/Researchers: Carlo Sestieri, Stefania Della Penna

Instituição/Institution: Department of Neurosciences, Imaging and Clinical Sciences, University "G. D'Annunzio" of Chieti - Pescara (Italy)

Duração/Duration: 2017/05 – 2022/11

##### *Peer-reviewed publications*

Spadone, S., Sestieri, C., Capotosto, P., Baldassarre, A., Sensi, S. L., & Della Penna, S. (2025). SmartERD: A pipeline for referencing subjects to a common peak in the analysis of ERD dynamics. *Scientific Reports*, 15(1), 45486. <https://doi.org/10.1038/s41598-025-28583-5>

Spadone, S., Tosoni, A., Penna, S. & Sestieri, C. (2022). Alpha rhythm modulations in the intraparietal sulcus reflect decision signals during item recognition. *NeuroImage*, 258, 119375. <https://doi.org/10.1016/j.neuroimage.2022.119345>

Spadone, S., Betti, V., Sestieri, C., Pizzella, V., Corbetta M., & Della Penna, S. (2021). Spectral signature of attentional reorienting in the human brain. *NeuroImage*, 244: 118616. <https://doi.org/10.1016/j.neuroimage.2021.118616>

**169/16 – “The potential effect of behavioral stimulation on social competence in dogs (via endogenous oxytocin release)”**

Investigadores/Researchers: Anna Kis, József Topál, Alin Ciobica, Radu Lefter, Katinka Tóth

Instituição/Institution: Institute of Cognitive Neuroscience and Psychology, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest (Hungary); Department of Animal Physiology and Behaviour "Alexandru Ioan Cuza" University, Iasi (Romania)

Duração/Duration: 2017/01 – 2021/11

*Peer-reviewed publications*

Lefter, R., Cojocariu, R.O., Ciobica, A., Balmus, I.-M., Mavroudis, I. & Kis, A. (2022). Interactions between sleep and emotions in humans and animal models. *Medicina*, 58(2), 274. <https://doi.org/10.3390/medicina58020274>

Bolló, H., Kiss, O., Kis, A., & Topál, J. (2021). The implicit reward value of the owner's face for dogs. *iScience*, 24(8), 102763. <https://doi.org/10.1016/j.isci.2021.102763>

Reicher, V., Bunford, N., Kis, A., Carreiro, C., Csibra, B., Kratz, L., & Gácsi, M. (2021). Developmental features of sleep electrophysiology in family dogs. *Scientific reports*, 11(1), 22760. <https://doi.org/10.1038/s41598-021-02117-1>

Reicher, V., Kis, A., Simor, P., Bódizs, R., & Gácsi, M. (2021). Interhemispheric asymmetry during NREM sleep in the dog. *Scientific Reports*, 11: 18817. <https://doi.org/10.1038/s41598-021-98178-3>

Bolló, H., Kovács, K., Lefter, R., Gombos, F., Kubinyi, E., Topál, J., & Kis, A. (2020). REM versus Non-REM sleep disturbance specifically affects inter-specific emotion processing in family dogs (*Canis familiaris*). *Scientific Reports*, 10: 10492. <https://doi.org/10.1038/s41598-020-67092-5>

Gähwiler, S., Bremhorst, A., Tóth, K., & Riemer, S. (2020). Fear expressions of dogs during New Year fireworks: a video analysis. *Scientific Reports*, 10: 16035. <https://doi.org/10.1038/s41598-020-72841-7>

Gergely, A., Kiss, O., Reicher, V., Iotchev, I., Kovács, E., Gombos, F., ... Kis, A. (2020). Reliability of family dogs' sleep structure scoring based on manual and automated sleep stage identification. *Animals*, 10. <https://doi.org/10.3390/ani10050000>

Gunde, E., Czeibert, K., Gábor, A., Szabó, D., Kis, A., Arany-Tóth, A., ... & Kubinyi, E. (2020). Longitudinal Volumetric Assessment of Ventricular Enlargement in Pet Dogs Trained for Functional Magnetic Resonance Imaging (fMRI) Studies. *Veterinary Sciences*, 7(3), 127. <https://doi.org/10.3390/vetsci7030127>

Iotchev, I. B., Reicher, V., Kovács, E., Kovács, T., Kis, A., Gácsi, M., & Kubinyi, E. (2020). Averaging sleep spindle occurrence in dogs predicts learning performance better than single measures. *Scientific Reports*, 10: 22461. <https://doi.org/10.1038/s41598-020-80417-8>

Iotchev, I. B., Szabó, D., Kis, A., & Kubinyi, E. (2020). Possible association between spindle frequency and reversal-learning in aged family dogs. *Scientific Reports*, 10(1), 6505. <https://doi.org/10.1038/s41598-020-63573-9>

Kis, A., & Topál, J. (2020). Response to intranasal oxytocin, empathy, and contagious yawning in dogs and humans. *Applied Animal Behaviour Science*, 224, 104969. <https://doi.org/10.1016/j.applanim.2020.104969>

Kiss, O., Kis, A., Scheiling, K., & Topál, J. (2020). Behavioral and neurophysiological correlates of dogs' individual sensitivities to being observed by their owners while performing a repetitive fetching task. *Frontiers in Psychology*, 11: 1461. <https://doi.org/10.3389/fpsyg.2020.01461>

Reicher, V., Kis, A., Simor, P., Bódizs, R., Gombos, F., & Gácsi, M. (2020). Repeated afternoon sleep recordings indicate first-night-effect-like adaptation process in family dogs. *Journal of Sleep Research*, 29(6), e12998. <https://doi.org/10.1111/jsr.12998>

Bódizs, R., Kis, A., Gácsi, M., & Topál, J. (2019). Sleep in the dog: comparative, behavioral and translational relevance. *Current Opinion in Behavioral Sciences*, 33, 25-33. <https://doi.org/10.1016/j.cobeha.2019.12.006>

Hritcu, L. D., Horhoge, C., Ciobica, A., Spataru, M. C., Spataru, C., & Kis, A. (2019). Conceptual replication of canine serum oxytocin increase following a positive dog-human interaction. *Revista de Chimie*, 70(5), 1579-1581

Iotchev, I. B., Kis, A., Turcsán, B., Tejeda Fernández de Lara, D. R., Reicher, V., & Kubinyi, E. (2019). Age-related differences and sexual dimorphism in canine sleep spindles. *Scientific reports*, 9(1), 10092. <https://doi.org/10.1038/s41598-019-46434-y>

Kis, A., Oliva, J., Virányi, Z., & Topál, J. (2019). Editorial: Oxytocin and social behaviour in dogs and other (self-)domesticated species: Methodological caveats and promising perspectives. *Frontiers in Psychology*, 10:732. <https://doi.org/10.3389/fpsyg.2019.00732>

Kis, A., Toth, K., Kanizs, O., & Topál, J. (2019). The effect of oxytocin on yawning by dogs (*Canis familiaris*) exposed to human yawns. *Applied Animal Behaviour Science*. <https://doi.org/10.1016/j.applanim.2019.104916>

Bunford, N., Reicher, V., Kis, A., Pogány, A., Gombos, F., Bódizs, R., & Gácsi, M. (2018). Differences in pre-sleep activity and sleep location are associated with variability in daytime/nighttime sleep electrophysiology in the domestic dog. *Scientific Reports*, 8: 7109. <https://doi.org/10.1038/s41598-018-25546-x>

Kovács, E., Kosztolányi, A., & Kis, A. (2018). Rapid eye movement density during REM sleep in dogs (*Canis familiaris*). *Learning & Behavior*, 46(4), 554-560. <https://doi.org/10.3758/s13420-018-0355-9>

Kovács, K., Virányi, Z., Kis, A., Turcsán, B., Hudecz, Á., Marmota, T., Koller, D., Rónai, Z., Gácsi, M., & Topál, J. (2018). Dog-owner attachment is associated with oxytocin receptor gene polymorphisms in both parties. A comparative study on austrian and hungarian border collies. *Frontiers in Psychology*, 9, 435. <https://doi.org/10.3389/fpsyg.2018.00435>

Varga, B., Gergely, A., Galambos, Á., & Kis, A. (2018). Heart rate and heart rate variability during sleep in family dogs (*Canis familiaris*). Moderate effect of pre-sleep emotions. *Animals*, 8(7), 107.

Bunford, N., Andics, A., Kis, A., Miklósi, Á., & Gácsi, M. (2017). *Canis familiaris* as model for non-invasive comparative neuroscience. *Trends in Neuroscience*, 40(7), 438-452. <https://doi.org/10.1016/j.tins.2017.05.003>

Kis, A., Ciobica, A., & Topál, J. (2017). The effect of oxytocin on human-directed social behaviour in dogs (*Canis familiaris*). *Hormones and Behavior* 94, 40-52. <https://doi.org/10.1016/j.yhbeh.2017.06.001>

Kis, A., Gergely, A., Galambos, Á., Abdai, J., Gombos, F., Bódizs, R., & Topál, J. (2017). Sleep macrostructure is modulated by positive and negative social experience in adult pet dogs. *Proceedings of the Royal Society B*, 284(1865). <https://doi.org/10.1098/rspb.2017.1883>

Kis, A., Hernádi, A., Miklósi, B., Kanizsár, O., & Topál, J. (2017). The way dogs (*Canis familiaris*) look at human emotional faces is modulated by oxytocin. An eye-tracking study. *Frontiers in Behavioral Neurosciences*, 11:210. <https://doi.org/10.3389/fnbeh.2017.00210>

Oláh, K., Topál, J., Kovács, Z., Kis, A., Koller, D., Park, S. Y., & Virányi, Z. (2017). Gaze-following and reaction to an aversive social interaction have corresponding associations with variation in the OXTR gene in dogs but not in human infants. *Frontiers in Psychology*, 8:2156. <https://doi.org/10.3389/fpsyg.2017.02156>

#### **174/16 – “Learning to sense God: How cognitive absorption and mental training shape religious experience”**

Investigadores/Researchers: Tanya Luhmann, Michael Lifshitz, Amir Raz  
 Instituição/Institution: McGill University & Montreal Neurological Institute (Canada);  
 Department of Anthropology, Stanford University, California (USA)  
 Duração/Duration: 2019/02 – 2023/01

##### *Peer-reviewed publications*

Girn, M., Spreng, R. N., Margulies, D. S., Van Elk, M., & Lifshitz, M. (2023). Trait absorption is not reliably associated with brain structure or resting-state functional connectivity. *Neuroimage: Reports*, 3(2), 100171. <https://doi.org/10.1016/j.ynirp.2023.100171>

Lifshitz, M., van Elk, M., & Luhmann, T. M. (2019). Absorption and spiritual experience: A review of evidence and potential mechanisms. *Consciousness and Cognition*, 73: 102760. <https://doi.org/10.1016/j.concog.2019.05.008>

#### **176/16 – “Age differences in resting state EEG and their relation to eye movements and cognitive performance”**

Investigadores/Researchers: Stephen Badham, Mark Crook-Rumsey, David Connelly, Trevor Crawford, Christina Howard  
 Instituição/Institution: Division of Psychology, Nottingham Trent University (UK); Department of Psychology, Lancaster University (UK)  
 Duração/Duration: 2017/12 – 2021/05

##### *Peer-reviewed publications*

Stacey, J. E., Crook-Rumsey, M., Sumich, A., Howard, C. J., Crawford, T., Livne, K., Lenozi, S., & Badham, S. (2021). Age differences in resting state EEG and their relation to eye movements and cognitive performance. *Neuropsychologia*, 157, 107887. <https://doi.org/10.1016/j.neuropsychologia.2021.107887>



**183/16 – “Decoding the language of 'now': EEG microstates in experienced meditators, from letters to grammar”**

Investigadores/Researchers: Elena Antonova, Chrystopher Nehaniv

Instituição/Institution: Department of Psychology, Institute of Psychiatry, Psychology & Neuroscience, King's College London (UK); University of Hertfordshire, Hatfield (UK)

Duração/Duration: 2017/09 – 2023/09

*Peer-reviewed publications*

Antonova, E., Holding, M., Chak Suen, H., Sumich, A., Maex, R., & Nehaniv, C. (2022). EEG microstates: Functional significance and short-term test-retest reliability. *Neuroimage: Reports*, 2(2), 100089. <https://doi.org/10.1016/j.ynirp.2022.100089>

Antonova, E., Schlosser, K., Pandey, R., & Kumari, V. (2021). Coping with COVID-19: Mindfulness-based approaches for mitigating mental health crisis. *Frontiers in Psychiatry*, 12: 563417. <https://doi.org/10.3389/fpsyt.2021.563417>

Nehaniv, C., & Antonova, E. (2017). Simulating and reconstructing neurodynamics with epsilon-automata applied to electroencephalography (EEG) microstate sequences. *Proceedings of the IEEE Symposium on Computational Intelligence, Cognitive Algorithms, Mind, and Brain (IEEE CCMB'17)* (pp. 1753-1761). Honolulu, USA: IEEE. <https://doi.org/10.1109/SSCI.2017.8285438>

**188/16 – “Accuracy and neural correlates of blinded mediumship compared to controls”**

Investigadores/Researchers: Arnaud Delorme, Helane Wahbeh

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2017/10 – 2020/10

*Peer-reviewed publications*

Delorme, A., Cannard, C., Radin, D., & Wahbeh, H. (2020). Accuracy and neural correlates of blinded mediumship compared to controls on an image classification task. *Brain and Cognition*, 146: 105638. <https://doi.org/10.1016/j.bandc.2020.105638>

**189/16 – “Implicit beliefs in the study of experimenter effects in the replication of psi experiments: A global initiative”**

Investigadores/Researchers: Marilyn Schlitz, Arnaud Delorme, Daryl Bem

Instituição/Institution: Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2017/10 – 2021/04

*Peer-reviewed publications*

Schlitz, M., & Delorme, A. (2021). Examining implicit beliefs in a replication attempt of a time-reversed priming task [version 2; peer review: 2 approved]. *F1000Research*, 10: 5. <https://doi.org/10.12688/f1000research.27169.2>

**190/16 – “Sleeping body, sentient mind? Searching for the neural bases of conscious experiences during sleep”**

Investigadores/Researchers: Eus Van Someren, Yishul Wei

Instituição/Institution: Department of Sleep and Cognition, Netherlands Institute for Neuroscience, Amsterdam (The Netherlands)

Duração/Duration: 2017/10 – 2019/06

*Peer-reviewed publications*

Wei, Y., & Van Someren, E. J. W. (2020). Interoception relates to sleep and sleep disorders. *Current Opinion in Behavioral Sciences*, 33, 1-7. <https://doi.org/10.1016/j.cobeha.2019.11.008>

Van Someren, E. J. W. (2020). Brain mechanisms of insomnia: new perspectives on causes and consequences. *Physiological Reviews*. <https://doi.org/10.1152/physrev.00046.2019>

Christensen, J. A. E., Wassing, R., Wei, Y., Ramautar, J. R., Lakbila-Kamal, O., Jennum, P. J., & Van Someren, E. J. W. (2019). Data-driven analysis of EEG reveals concomitant superficial sleep during deep sleep in insomnia disorder. *Frontiers in Neuroscience*, 13: 598. <https://doi.org/10.3389/fnins.2019.00598>

Leerssen, J., Wassing, R., Ramautar, J. R., Stoffers, D., Lakbila-Kamal, O., Perrier, J., Bruijell, J., Foster-Dingley, J. C., Aghajani, M., & Van Someren, E. (2019). Increased hippocampal-prefrontal functional connectivity in insomnia. *Neurobiology of Learning and Memory*, 160, 144-150. <https://doi.org/10.1016/j.nlm.2018.02.006>

Wei, Y., Bresser, T., Wassing, R., Stoffers, D., Van Someren, E. J. W., & Foster-Dingley, J. C. (2019). Brain structural connectivity network alterations in insomnia disorder reveal a central role of the right angular gyrus. *NeuroImage: Clinical*, 24: 102019. <https://doi.org/10.1016/j.nicl.2019.102019>

Wei, Y., Leerssen, J., Wassing, R., Stoffers, D., Perrier, J., & Van Someren, E. J. W. (2019). Reduced dynamic functional connectivity between salience and executive brain networks in insomnia disorder. *Journal of Sleep Research*, e12953. <https://doi.org/10.1111/jsr.12953>

Te Lindert, B. H. W., Blanken, T. F., van der Meijden, W. P., Dekker, K., Wassing, R., van der Werf, Y. D., Ramautar, J. R., & Van Someren, E. J. W. (2019). Actigraphic multi-night home-recorded sleep estimates reveal three types of sleep misperception in Insomnia Disorder and good sleepers. *Journal of Sleep Research*, e12937. <https://doi.org/10.1111/jsr.12937>

Wei, Y., Blanken, T. F., & Van Someren, E. J. W. (2018). Insomnia really hurts: Effect of a bad night's sleep on pain increases with insomnia severity. *Frontiers in Psychiatry*, 9: 377. <https://doi.org/10.3389/fpsy.2018.00377>

Wei, Y., Ramautar, J. R., Colombo, M. A., Te Lindert, B. H. W., & Van Someren, E. J. W. (2018). EEG microstates indicate heightened somatic awareness in insomnia: Toward objective assessment of subjective mental content. *Frontiers in Psychiatry*, 9: 395. <https://doi.org/10.3389/fpsy.2018.00395>

#### **191/16 – “Mind-matter entanglement correlation”**

Investigador/Researcher: Hartmut Grote

Instituição/Institution: Max-Planck Institute for Gravitational Physics (Albert Einstein Institute), Hannover (Germany)

Duração/Duration: 2017/03 – 2021/03

*Peer-reviewed publications*

Grote, H. (2021). Mind-matter entanglement correlations: Blind analysis of a new correlation matrix experiment. *Journal of Scientific Exploration*, 35(2), 287-310. <https://doi.org/10.31275/20211931>

#### **193/16 – “How do dopamine neurons and striatal populations interact during decision-making?”**

Investigadores/Researchers: Joseph Paton, Sofia Soares, Asma Motiwala, Bruno Cruz

Instituição/Institution: Champalimaud Centre for the Unknown, Lisboa (Portugal)

Duração/Duration: 2017/07 – 2022/10

*Peer-reviewed publications*

Patton, J. J., & Buonomano, D. V. (2018). The neural basis of timing: Distributed mechanisms for diverse functions. *Neuron*, 98(4), 687-705. <https://doi.org/10.1016/j.neuron.2018.03.045>

#### **195/16 – “The sense of self: A neuroimaging study of interactions between intrinsic and extrinsic self networks”**

Investigadores/Researchers: Sjoerd Ebisch, Mauro Gianni Perrucci

Instituição/Institution: Department of Neurosciences, Imaging and Clinical Sciences, University "G. D'Annunzio" of Chieti - Pescara (Italy)

Duração/Duration: 2017/04 – 2019/10

*Peer-reviewed publications*

Di Plinio, S., Arnò, S., Perrucci, M. G., & Ebisch, S. J. H. (2020). The evolving sense of agency: Context recency and quality modulate the interaction between prospective and retrospective processes. *Consciousness and Cognition*, 80: 102903. <https://doi.org/10.1016/j.concog.2020.102903>

Di Plinio, S., & Ebisch, S. J. H. (2020). Combining local and global evolutionary trajectories of brain-behaviour relationships through game theory. *European Journal of Neuroscience*, 52(9), 4198-4213. <https://doi.org/10.1111/ejn.14883>

Di Plinio, S., Perrucci, M. G., & Ebisch, S. (2020). The prospective sense of agency is rooted in local and global properties of intrinsic functional brain networks. *Journal of Cognitive Neuroscience*, 32(9), 1764–1779. [https://doi.org/10.1162/jocn\\_a\\_01590](https://doi.org/10.1162/jocn_a_01590)

Di Plinio, S., Arnò, S., Perrucci, M. G., & Ebisch, S. J. (2019). Environmental control and psychosis-relevant traits modulate the prospective sense of agency in non-clinical individuals. *Consciousness and Cognition*, 73: 102776 <https://doi.org/10.1016/j.concog.2019.102776>

Di Plinio, S., Perrucci, M. G., Aleman, A., & Ebisch, S. J. H. (2019). I am Me: Brain systems integrate and segregate to establish a multidimensional sense of self. *NeuroImage*, 205, Article 116284. <https://doi.org/10.1016/j.neuroimage.2019.116284>

Di Plinio, S., & Ebisch, S. (2018). Brain network profiling defines functionally specialized cortical networks. *Human Brain Mapping*, 39(12), 4689-4706. <https://doi.org/10.1002/hbm.24315>

### 198/16 – “The effects of verbal suggestion on body perception”

Investigadores/Researchers: Eamonn Walsh, Quinton Deeley, Mitul Mehta, Matthew Longo  
Instituição/Institution: Department of Basic and Clinical Neuroscience, Institute of Psychiatry, Psychology & Neuroscience, King's College London (UK); Body Representation Laboratory, Birkbeck, University of London (UK)

Duração/Duration: 2017/04 – 2024/01

*Peer-reviewed publications*

Walsh, E. & Oakley, D. (2022). Editing reality in the brain. *Neuroscience of Consciousness*. 1, 1-12. <https://doi.org/10.1093/nc/niac009>

### 203/16 – “Extraordinary experiences and performance on psi tasks during and after meditation classes and retreats”

Investigadores/Researchers: Jennifer Kim Penberthy, Cassandra Vieten, Lori Derr, Arnaud Delorme, Jenny Matthews, Loraine Walter

Instituição/Institution: Division of Perceptual Studies, Department of Psychiatry and Neurobehavioral Sciences, University of Virginia, Charlottesville (USA); Institute of Noetic Sciences, Petaluma, California (USA)

Duração/Duration: 2018/01 – 2020/01

*Peer-reviewed publications*

Penberthy, K., Hodge, A., Hook, J., Delorme, A., Pehlivanova, M., & Vieten, C., & (2020). Meditators and nonmeditators: A descriptive analysis over time with a focus on unusual and extraordinary experiences. *Journal of Yoga and Physiotherapy*, 8(3), 555744. <https://doi.org/10.19080/JYP.2020.08.555744>

### 206/16 – “Developing a neurofunctional intervention for emotion regulation under stress”

Investigadores/Researchers: Pedro Morgado, Carles Soriano Mas, Paulo Marques, Pedro Moreira, Ricardo Magalhães

Instituição/Institution: Life and Health Sciences Research Institute - ICVS, School of Health Sciences, University of Minho, Braga (Portugal); Department of Psychiatry, Bellvitge Biomedical Research Institute - IDIBELL, Barcelona (Spain)

Duração/Duration: 2017/01 – 2023/01

*Peer-reviewed publications*

Caetano, I., Amorim, L., Castanho, T. C., Coelho, A., Ferreira, S., Portugal-Nunes, C., Soares, J. M., Gonçalves, N., Sousa, R., Reis, J., Lima, C., Marques, P., Moreira, P. S., Rodrigues, A. J., Santos, N. C., Morgado, P., Esteves, M., Magalhães, R., Picó-Pérez, M., & Sousa, N. (2022). Association of amygdala size with stress perception: Findings of a transversal study across the lifespan. *The European Journal of Neuroscience*, 56(8), 5287–5298. <https://doi.org/10.1111/ejn.15809>

Caetano, I., Ferreira, S., Coelho, A., Amorim, L., Castanho, T. C., Portugal-Nunes, C., Soares, J. M., Gonçalves, N., Sousa, R., Reis, J., Lima, C., Marques, P., Moreira, P. S., Rodrigues, A. J., Santos, N. C., Morgado, P., Magalhães, R., Picó-Pérez, M., Cabral, J., & Sousa, N. (2022). Perceived stress modulates the activity between the amygdala and the cortex. *Molecular Psychiatry*, 27(12), 4939–4947. <https://doi.org/10.1038/s41380-022-01780-8>

De la Peña-Arteaga, V., Morgado, P., Couto, B., Ferreira, S., Castro, I., Sousa, N., Soriano-Mas, C., & Picó-Pérez, M. (2022). An fMRI study of frontal networks in obsessive-compulsive disorder during cognitive reappraisal. *European Psychiatry*, 1-22. <https://doi.org/10.1192/j.eurpsy.2022.2322>

Manarte, L., Andrade, A. R., Rosário, L., Sampaio, D., Figueira, M. L., Langley, C., Morgado, P., & Sahakian, B. J. (2021). Poor insight in obsessive compulsive disorder (OCD): Associations with empathic concern and emotion recognition. *Psychiatry Research*, 304, 114129. <https://doi.org/10.1016/j.psychres.2021.114129>

Ferreira, S., Pêgo, J. M., & Morgado, P. (2019). The efficacy of biofeedback approaches for obsessive-compulsive and related disorders: A systematic review and meta-analysis. *Psychiatry Research*, 272, 237–245. <https://doi.org/10.1016/j.psychres.2018.12.096>

Ferreira, S., Veiga, C., Moreira, P., Magalhães, R., Coelho, A., Marques, P., ..., Morgado, P. (2019). Reduced Hedonic Valuation of Rewards and Unaffected Cognitive Regulation in Chronic Stress. *Frontiers in Neuroscience*, 13: 724. <https://doi.org/10.3389/fnins.2019.00724>

Sousa-Lima, J., Moreira, P. S., Raposo-Lima, C., Sousa, N., & Morgado, P. (2019). Relationship between obsessive compulsive disorder and cortisol: Systematic review and meta-analysis. *European Neuropsychopharmacology*. <https://doi.org/10.1016/j.euroneuro.2019.09.001>

Morgado, P., & Cerqueira, J. J. (2018). Editorial: The impact of stress on cognition and motivation. *Frontiers in Behavioral Neuroscience*, 12: 326. <https://doi.org/10.3389/fnbeh.2018.00326>

## 207/16 – “The role of motion adaptation in bottom-up mechanisms of perceptual decision-making”

Investigadores/Researchers: Miguel Castelo-Branco, João Duarte, Ricardo Martins, Teresa Sousa, Gabriel Costa

Instituição/Institution: Institute for Nuclear Sciences Applied to Health - ICNAS, University of Coimbra (Portugal)

Duração/Duration: 2017/11 – 2019/10

### Peer-reviewed publications

Costa, G. N., Schaum, M., Duarte, J. V., Martins, R., Duarte, I. C., Castelhamo, J., Wibrat, M., & Castelo-Branco, M. (2024). Distinct oscillatory patterns differentiate between segregation and integration processes in perceptual grouping. *Human Brain Mapping*, 45(12), e26779. <https://doi.org/10.1002/hbm.26779>

Sousa, T., Duarte, J. V., Costa, G. N., Kemper, V. G., Martins, R., Goebel, R., & Castelo-Branco, M. (2021). The dual nature of the BOLD signal: Responses in visual area hMT+ reflect both input properties and perceptual decision. *Human Brain Mapping*, 42(6), 1920–1929. <https://doi.org/10.1002/hbm.25339>

Verdade, A., Castelhamo, J., Sousa, T., & Castelo-Branco, M. (2020). How positive emotional content overrules perceptual history effects: Hysteresis in emotion recognition. *Journal of Vision*, 20(8):19. <https://doi.org/10.1167/jov.20.8.19>

Castelhamo, J., Duarte, I. C., Ferreira, C., Duraes, J., Madeira, H., & Castelo-Branco, M. (2019). The role of the insula in intuitive expert bug detection in computer code: an fMRI study. *Brain Imaging and Behavior*, 3(3), 623–637. <https://doi.org/10.1007/s11682-018-9885-1>

Sousa, T., Duarte, J., Costa, G. N., Kemper, V. G., Martins, R., Goebel, R., & Castelo-Branco, M. (2019). Tracking perceptual decision mechanisms through changes in interhemispheric functional connectivity in human visual cortex. *Scientific Reports*, 9, Article number: 1242. <https://doi.org/10.1038/s41598-018-37822-x>

Duarte, I. C., Brito-Costa, S., Cayolla, R., & Castelo-Branco, M. (2018). The role of prefrontal cortex in a battle of the sexes dilemma involving a conflict between tribal and romantic love. *Scientific Reports*, 8: 12133. <https://doi.org/10.1038/s41598-018-30611-6>

Sousa, T., Sayal, A., Duarte, J. V., Costa, G., Martins, R., Castelo-Branco, M. (2018). Evidence for distinct levels of neural adaptation to both coherent and incoherently moving visual surfaces in visual area hMT+. *NeuroImage*, 179, 540–547. <https://doi.org/10.1016/j.neuroimage.2018.06.075>

## 211/16 – “Waking conscious states and offline memory processing”

Investigadores/Researchers: Erin Wamsley, Theodore Summer

Instituição/Institution: Department of Psychology, Furman University, Greenville (USA)

Duração/Duration: 2017/08 – 2020/09

### Peer-reviewed publications

Wamsley, E. J., Arora, M., Gibson, H., Powell, P., & Collins, M. (2023). Memory consolidation during ultra-short offline states. *Journal of Cognitive Neuroscience*, 35(10), 1617–1634. [https://doi.org/10.1162/jocn\\_a\\_02035](https://doi.org/10.1162/jocn_a_02035)

Wamsley, E. J. (2022). Offline memory consolidation during waking rest. *Nature Reviews Psychology*, 1(7), 441–453. <https://doi.org/10.1038/s44159-022-00072-w>

Wamsley, E., & Summer, T. (2020). Spontaneous entry into an “offline” state during wakefulness: A mechanism of memory consolidation? *Journal of Cognitive Neuroscience*, 32(9), 1714–1734. [https://doi.org/10.1162/jocn\\_a\\_01587](https://doi.org/10.1162/jocn_a_01587)

Wamsley, E. J. (2019). Memory consolidation during waking rest. *Trends in Cognitive Sciences*, 23(3), 171–173. <https://doi.org/10.1016/j.tics.2018.12.007>

## 217/16 – “Physiological indices of the deleterious effects of unrealistic media images on body satisfaction: A cross-cultural investigation”

Investigadores/Researchers: Clédna Patrícia de Oliveira-Silva, Rachel Rodgers, Óscar Gonçalves, Pedro Dias, Rosana Magalhães, Eugénia Fernandes, Bárbara Machado, Joana Coutinho, Mike Marriott

Instituição/Institution: Centre for Studies in Human Development, Faculty of Education and Psychology, Universidade Católica Portuguesa, Porto (Portugal); Department of Applied Psychology, Northeastern University, Boston (USA); Nottingham Trent University (UK)

Duração/Duration: 2018/06 – 2023/07

### Peer-reviewed publications

Sousa, T., Sayal, A., Duarte, J. V., Costa, G. N., & Castelo-Branco, M. (2024). A human cortical adaptive mutual inhibition circuit underlying competition for perceptual decision and repetition suppression reversal. *NeuroImage*, 285, 120488. <https://doi.org/10.1016/j.neuroimage.2023.120488>



Oliveira-Silva, P., Maia, L., Coutinho, J., Moreno, A. F., Penalba, L., Frank, B., Soares, J. M., Sampaio, A., & Gonçalves, Ó. F. (2023). Nodes of the default mode network implicated in the quality of empathic responses: A clinical perspective of the empathic response. *International Journal of Clinical and Health Psychology*, 23(1), 100319. <https://doi.org/10.1016/j.ijchp.2022.100319>

Costa, C., Soares, J., Oliveira-Silva, P., Sampaio, A., & Coutinho, J. (2022). Interplay between the salience and the default mode network in a social-cognitive task toward a close other. *Frontiers in Psychiatry*, 12, 718400. <https://doi.org/10.3389/fpsyt.2021.718400>

Penalba-Sánchez, L., di Gregorio, E., Moreno, A. F., Machado, B. C., Dias, P., & Oliveira-Silva, P. (2022). “Antibodies”: Investigating the effects of social media usage and psychological distress on body dissatisfaction during the COVID-19 pandemic. *Psychology & Neuroscience*, 15(4), 320-331. <https://doi.org/10.1037/pne0000298>

Oliveira, A., McPherson, G., Ribeiro, L. M., & Oliveira-Silva, P. (2021). Musical achievement during a lockdown: The parental support miracle. *Research Studies in Music Education*, 45(1), 211-226. <https://doi.org/10.1177/1321103X211033794>

### **218/16 – “Virtual bodies, real empathy: Behavioural, bodily, and neural reactivity to the observation of pain and pleasure on self and others in immersive virtual reality”**

Investigadores/Researchers: Gaetano Tieri, Martina Fusaro, Valentina Nicolardi, Salvatore Maria Aglioti  
Instituição/Institution: Unitelma Sapienza, Rome (Italy); Social Cognitive Neuroscience Laboratory, University of Rome “La Sapienza” (Italy)

Duração/Duration: 2017/04 – 2020/03

#### *Peer-reviewed publications*

Nicolardi, V., Lisi, M. P., Mello, M., Fusaro, M., Tieri, G., & Aglioti, S. M. (2025). Taking an embodied avatar's perspective modulates the temporal dynamics of vicarious pain and pleasure: A virtual reality and EEG study. *Social Cognitive and Affective Neuroscience*, 20(1), nsaf035. <https://doi.org/10.1093/scan/nsaf035>

Fossataro, C., Tieri, G., Grollero, D., Bruno, V., & Garbarini, F. (2020). Hand blink reflex in virtual reality: The role of vision and proprioception in modulating defensive responses. *European Journal of Neuroscience*, 51(3), 937-951. <https://doi.org/10.1111/ejn.14601>

Fusco, G., Tieri, G., & Aglioti, S.M. (2020). Visual feedback from a virtual body modulates motor illusion induced by tendon vibration. *Psychological Research*, 85(3), 926–938. <https://doi.org/10.1007/s00426-020-01366-5>

Fusaro, M., Tieri, G., & Aglioti, S. M. (2019). Influence of cognitive stance and physical perspective on subjective and autonomic reactivity to observed pain and pleasure: An immersive virtual reality study. *Consciousness and Cognition*, 67, 86-97. <https://doi.org/10.1016/j.concog.2018.11.010>

Tieri, G., Gioia, A., Scandola, M., Pavone, E. F., & Aglioti, S. M. (2017). Visual appearance of a virtual upper limb modulates the temperature of the real hand: a thermal imaging study in Immersive Virtual Reality. *European Journal of Neuroscience*, 45(9), 1141-1151. <https://doi.org/10.1111/ejn.13545>

### **226/16 – “Linking strawberries and politicians: The electrophysiology of the bimodal bilingual brain”**

Investigadores/Researchers: Cristina Baus, Albert Costa, Marc Gimeno

Instituição/Institution: Center for Brain and Cognition – CBC, Universitat Pompeu Fabra, Barcelona (Spain)

Duração/Duration: 2017/09 – 2020/01

#### *Peer-reviewed publications*

Gimeno-Martínez, M., & Baus, C. (2022). Iconicity in sign language production: Task matters. *Neuropsychologia*, 167, 108166. <https://doi.org/10.1016/j.neuropsychologia.2022.108166>

Gimeno-Martínez, M., Costa, A., & Baus, C. (2020). Influence of gesture and linguistic experience on sign perception. *The Journal of Deaf Studies and Deaf Education*, 25(1), 80-90. <https://doi.org/10.1093/deafed/enz031>

### **238/16 – “When prediction errs: Examining the brain dynamics of altered saliency in self-voice perception”**

Investigadores/Researchers: Ana Pinheiro, Sonja Kotz, Michael Schwartz

Instituição/Institution: Faculdade de Psicologia da Universidade de Lisboa (Portugal); Faculty of Psychology and Neuroscience, University of Maastricht (The Netherlands)

Duração/Duration: 2017/03 – 2020/01

#### *Peer-reviewed publications*

Duggirala, S. X., Schwartz, M., Goller, L. K., Linden, D. E. J., Pinheiro, A. P., & Kotz, S. A. (2024). Hallucination proneness alters sensory feedback processing in self-voice production. *Schizophrenia Bulletin*, 50(5), 1147–1158. <https://doi.org/10.1093/schbul/sbae095>

Johnson, J., Belyk, M., Schwartz, M., Pinheiro, A., & Kotz, S. (2022). Hypersensitivity to passive voice hearing in hallucination proneness. *Frontiers in Human Neuroscience*, 16, 859731. <https://doi.org/10.3389/fnhum.2022.859731>

Johnson, J. F., Belyk, M., Schwartz, M., Pinheiro, A. P., & Kotz, S. A. (2021). Expectancy changes the self-monitoring of voice identity. *European Journal of Neuroscience*, 53(8), 2681-2695. <https://doi.org/10.1111/ejn.15162>

Johnson, J. F., Belyk, M., Schwartz, M., Pinheiro, A. P., & Kotz, S. A. (2019). The role of the cerebellum in adaptation: ALE meta-analyses on sensory feedback error. *Human Brain Mapping*, 40(13), 3966-3981. <https://doi.org/10.1002/hbm.24681>

Pinheiro, A. P., Farinha-Fernandes, A., & Kotz, S. A. (2019). Self-voice perception and its relationship with hallucination predisposition. *Cognitive Neuropsychiatry*, 24(4), 237-255. <https://doi.org/10.1080/13546805.2019.1621159>

Pinheiro, A. P., Schwartz, M., Gutierrez, F., & Kotz, S. A. (2019). When temporal prediction errs: ERP responses to delayed action-feedback onset. *Neuropsychologia*, 134:107200. <https://doi.org/10.1016/j.neuropsychologia.2019.107200>

Conde, T., Gonçalves, O. F., & Pinheiro, A. P. (2018). Stimulus complexity matters when you hear your own voice: Attention effects on self-generated voice processing. *International Journal of Psychophysiology*, 133, 66-78. <https://doi.org/10.1016/j.ijpsycho.2018.08.007>

Kotz, S. A., Ravignani, A., & Fitch, W. T. (2018). The evolution of rhythm processing. *Trends in Cognitive Sciences*, 22(10), 896-910. <https://doi.org/10.1016/j.tics.2018.08.002>

#### **249/16 – “Healthy aging and economic decision-making: Neuropsychophysiological examination of the affect-integration-motivation framework of decision-making in aging brain”**

Investigadores/Researchers: João Marques-Teixeira, Rui Mata, Isabel Martins, Giuseppe Danese, Ana Gonçalves, Carina Fernandes, Rita Pasion

Instituição/Institution: Laboratory of Neuropsychophysiology, Faculty of Psychology and Education Sciences of the University of Porto (Portugal)

Duração/Duration: 2018/02 – 2023/04

##### *Peer-reviewed publications*

Fernandes, C., Macedo, I., Gonçalves, A. R., Pereira, M. R., Ferreira-Santos, F., Barbosa, F., & Marques-Teixeira, J. (2023). Effects of aging on face processing: An ERP study of the own-age bias with neutral and emotional faces. *Cortex*, 161, 13-25. <https://doi.org/10.1016/j.cortex.2023.01.007>

Fernandes, C., Macedo, I., Gonçalves, A. R., Pasion, R., Mata, R., Danese, G., Martins, I. P., Barbosa, F. & Marques-Teixeira, J. (2022). Neurophysiological examination of the affect-integration-motivation framework of decision-making in the aging brain: A registered report. *NeuroImage*, 256, 119189. <https://doi.org/10.1016/j.neuroimage.2022.119189>

#### **250/16 – “Brain-wide functional connectivity of oxytocin neurons”**

Investigadores/Researchers: Cristina Marquez, Santiago Canals, Aroa Sanz

Instituição/Institution: Instituto de Neurociencias de Alicante, Consejo Superior de Investigaciones Científicas - Universidad Miguel Hernández, San Juan de Alicante (Spain)

Duração/Duration: 2017/11 – 2024/09

##### *Peer-reviewed publications*

Gachomba, M. J. M., Esteve-Agraz, J., Caref, K., Maroto, A. S., Bortolozzo-Gleich, M. H., Laplagne, D. A., & Márquez, C. (2022). Multimodal cues displayed by submissive rats promote prosocial choices by dominants. *Current Biology*, 32(15), 3288–3301.e8. <https://doi.org/10.1016/j.cub.2022.06.026>

#### **255/16 – “Predictive coding of observed action in the brain – a 7T study”**

Investigadores/Researchers: Valeria Gazzola, Christian Keysers, Ritu Bhandari

Instituição/Institution: Netherlands Institute for Neuroscience, Royal Netherlands Academy of Arts and Sciences, Amsterdam (The Netherlands); Spinoza Centre for Neuroimaging, Amsterdam (The Netherlands)

Duração/Duration: 2017/02 – 2023/01

##### *Peer-reviewed publications*

Cerliani, L., Bhandari, R., De Angelis, L., van der Zwaag, W., Bazin, P.-L., Gazzola, V. & Keysers, C. (2022). Predictive coding during action observation - A depth-resolved intersubject functional correlation study at 7T. *Cortex*, 148, 121-138. <https://doi.org/10.1016/j.cortex.2021.12.008>

Bhandari, R., Kirilina, E., Caan, M., Sutter, J., De Sanctis, T., De Angelis, L., ... Gazzola, V. (2020). Does higher sampling rate (multiband + SENSE) improve group statistics - An example from social neuroscience block design at 3T. *NeuroImage*, 213: 116731. <https://doi.org/10.1016/j.neuroimage.2020.116731>

Abdelgabar, A. R., Suttrup, J., Broersen, R., Bhandari, R., Picard, S., Keyzers, C., De Zeeuw, C. I., & Gazzola, V. (2019). Action perception recruits the cerebellum and is impaired in patients with spinocerebellar ataxia. *Brain*, 142(12), 3791-3805. <https://doi.org/10.1093/brain/awz337>

Keyzers, C., Paracampo, R., & Gazzola, V. (2018). What neuromodulation and lesion studies tell us about the function of the mirror neuron system and embodied cognition. *Current Opinion in Psychology*, 24, 35-40. <https://doi.org/10.1016/j.copsyc.2018.04.001>

#### **260/16 – “The neural correlates of the “self” in altered states of consciousness”**

Investigadores/Researchers: Antoine Lutz, Prisca Bauer

Instituição/Institution: Lyon Neuroscience Research Center, Institut National de la Santé et de la Recherche Médicale - INSERM, Bron (France)

Duração/Duration: 2018/01 – 2024/01

##### *Peer-reviewed publications*

Timmermann, C., Bauer, P. R., Gosseries, O., Vanhaudenhuyse, A., Vollenweider, F., Laureys, S., Singer, T., Mind and Life Europe (MLE) ENCECON Research Group, Antonova, E., & Lutz, A. (2023). A neurophenomenological approach to non-ordinary states of consciousness: hypnosis, meditation, and psychedelics. *Trends in Cognitive Sciences*, 27(2), 139-159. <https://doi.org/10.1016/j.tics.2022.11.006>

Bauer, P. R., Sabourdy, C., Chatard, B., Rheims, S., Lachaux, J. P., Vidal, J. R., & Lutz, A. (2021). Neural dynamics of mindfulness meditation and hypnosis explored with intracranial EEG: a feasibility study. *Neuroscience Letters*, 766, 136345. <https://doi.org/10.1016/j.neulet.2021.136345>

#### **264/16 – “The influence of maternal bonding in neuroimmune synaptic sculpting”**

Investigadores/Researchers: Ana Luísa Cardoso, João Peça, Joana Guedes, Ana Silvestre Cardoso, Ana Viegas, Elisabete Ferreiro

Instituição/Institution: Center for Neuroscience and Cell Biology, University of Coimbra (Portugal)

Duração/Duration: 2017/01 – 2020/09

##### *Peer-reviewed publications*

Guedes, J. R., Ferreira, P., Costa, J., Cardoso, A. L., & Peça, J. (2022). Microglia-dependent remodeling of neuronal circuits. *Journal of Neurochemistry*, 163(2), 74-93. <https://doi.org/10.1111/jnc.15689>

Costa, J., Martins, S., Ferreira, P., Cardoso, A. M. S., Guedes, J. R., Peça, J. M., & Cardoso, A. L. (2021). The old guard: age-related changes in microglia and their consequences. *Mechanisms of Ageing and Development*, 19, 111512. <https://doi.org/10.1016/j.mad.2021.111512>

Barros-Viegas, A. T., Carmona, V., Ferreiro, E., Guedes, G., Cunha, P., Pereira de Almeida, L., ... Cardoso, A. L. (2020). MiRNA-31 improves cognition and abolishes amyloid- $\beta$  pathology by targeting APP and BACE1 in an animal model of Alzheimer's disease. *Molecular Therapy - Nucleic Acids*, 19, 1219-1236. <https://doi.org/10.1016/j.omtn.2020.01.010>

Franco, L. O., Carvalho, M. J., Costa, J., Ferreira, P. A., Guedes, J. R., Sousa, R., ... Peça, J. (2020). Social subordination induced by early life adversity rewires inhibitory control of the prefrontal cortex via enhanced Npy1r signaling. *Neuropsychopharmacology*, 45, 1438-1447. <https://doi.org/10.1038/s41386-020-0727-7>

#### **266/16 – “Early life stress and social hierarchies: The role of cortico-striatal circuits”**

Investigadores/Researchers: João Peça, Joana Guedes, Ana Luísa Cardoso, Mohammed Hussien, Lara Franco, Mário Carvalho

Instituição/Institution: Center for Neuroscience and Cell Biology, University of Coimbra (Portugal)

Duração/Duration: 2017/01 – 2021/01

##### *Peer-reviewed publications*

Guedes, J. R., Ferreira, P., Costa, J., Cardoso, A. L., & Peça, J. (2022). Microglia-dependent remodeling of neuronal circuits. *Journal of Neurochemistry*. <https://doi.org/10.1111/jnc.15689>

Rebelo, C., Reis, T., Guedes, J., Saraiva, C., Rodrigues, A. F., Simões, S., Bernardino, L., Peça, J., Pinho, S., & Ferreira, L. (2022). Efficient spatially targeted gene editing using a near-infrared activatable protein-conjugated nanoparticle for brain applications. *Nature Communications*, 13(1), 4135. <https://doi.org/10.1038/s41467-022-31791-6>

Ferreira-Fernandes, E. & Peça, J. (2022). The neural circuit architecture of social hierarchy in rodents and primates. *Frontiers in Cellular Neuroscience*, 16. <https://doi.org/10.3389/fncel.2022.874310>

Caldeira, G.L., Inácio, A.S., Beltrão, N., Barreto, C. A. V., Rodrigues, M. V., Rondão, T., Macedo, R., Gouveia, R. P., Edfawy, M., Guedes, J., Cruz, B., Louros, S. R., Moreira, I. S., Peça, J., & Carvalho, A. L. (2022). Aberrant hippocampal transmission and behavior in mice with a stargazin mutation linked to intellectual disability. *Molecular Psychiatry*, 27, 2457–2469. <https://doi.org/10.1038/s41380-022-01487-w>

Franco, L. O., Carvalho, M. J., Costa, J., Ferreira, P. A., Guedes, J. R., Sousa, R., ... Peça, J. (2020). Social subordination induced by early life adversity rewires inhibitory control of the prefrontal cortex via enhanced Npy1r signaling. *Neuropsychopharmacology*, 45, 1438-1447. <https://doi.org/10.1038/s41386-020-0727-7>

Edfawy, M., Guedes, J. R., Pereira, M. I., Laranjo, M., Carvalho, M. J., Caldeira, G., Gao, X., Ferreira, P. A., Wang, D., Cardoso, A. L., Feng, G., Carvalho, A. L., Peça, J. (2019). Abnormal mGluR-mediated synaptic plasticity and autism-like behaviors in Gprasp2 mutant mice. *Nature Communications*, 10, Article number: 1431. <https://doi.org/10.1038/s41467-019-09382-9>

## **279/16 – “Harnessing the power of closed-loop neuronal control to identify the circuit basis of decision making”**

Investigadores/Researchers: Carlos Ribeiro, Pavel Itskov, Ana Paula Elias, Samuel Walker, José Moreira  
Instituição/Institution: Champalimaud Centre for the Unknown, Lisboa (Portugal)

Duração/Duration: 2017/10 – 2020/01

### *Peer-reviewed publications*

Münch, D., Ezra-Nevo, G., Francisco, A. P., Tastekin, I., & Ribeiro, C. (2020). Nutrient homeostasis - translating internal states to behavior. *Current Opinion in Neurobiology*, 60, 67–75. <https://doi.org/10.1016/j.conb.2019.10.004>

Moreira, J. M., Itskov, P. M., Goldschmidt, D., Baltazar, C., Steck, K., Tastekin, I., Walker, S. J., & Ribeiro, C. (2019). optoPAD, a closed-loop optogenetics system to study the circuit basis of feeding behaviors. *eLife*, 8, e43924. <https://doi.org/10.7554/eLife.43924>

Sánchez-Alcañiz, J. A., Silbering, A. F., Croset, V., Zappia, G., Sivasubramaniam, A. K., Abuin, L., ... Benton, R. (2018). An expression atlas of variant ionotropic glutamate receptors identifies a molecular basis of carbonation sensing. *Nature Communications*, 9(1): 4252. <https://doi.org/10.1038/s41467-018-06453-1>

Steck, K., Walker, S. J., Itskov, P. M., Baltazar, C., Moreira, J.-M., & Ribeiro, C. (2018). Internal amino acid state modulates yeast taste neurons to support protein homeostasis in *Drosophila*. *ELife*, 7, e31625.

## **280/16 – “Probing the unconscious mind with instrumental hypnosis”**

Investigadores/Researchers: Mathieu Landry, Jérôme Sackur, Amir Raz

Instituição/Institution: Laboratoire de Sciences Cognitives et Psycholinguistique, École Normale Supérieure, Paris (France); Raz Cognitive Neuroscience Lab, McGill University, Montreal (Canada)

Duração/Duration: 2018/06 – 2023/11

### *Peer-reviewed publications*

Landry, M., da Silva Castanheira, J., Rousseaux, F., Rainville, P., Ogez, D., & Jerbi, K. (2024). Ongoing dynamics of peak alpha frequency characterize hypnotic induction in highly hypnotic-susceptible individuals. *Brain Sciences*, 14(9), 883. <https://doi.org/10.3390/brainsci14090883>

Landry, M., Da Silva Castanheira, J., Milton, D., & Raz, A. (2022). Suggestion alters Stroop automaticity: Hypnotic alexia through a proactive lens. *Psychology of Consciousness: Theory, Research, and Practice*, 9(2), 159–171. <https://doi.org/10.1037/cns0000268>

Landry, M., Da Silva Castanheira, J., Sackur, J., & Raz, A. (2021). Difficult turned easy: Suggestions render a challenging visual task simple. *Psychological science*, 32(1), 39-49. <https://doi.org/10.1177/0956797620954856>

Landry, M., Stendel, M., Landry, M., & Raz, A. (2018). Hypnosis in palliative care: From clinical insights to the science of self-regulation. *Annals of Palliative Medicine*, 7(1), 125-135.

## **281/16 – “Motor Imagery in speech processing”**

Investigadores/Researchers: Patricia Martine Adank, Helen Nuttall

Instituição/Institution: Speech Hearing and Phonetic Sciences, Division of Psychology and Language, UCL, London (UK); Department of Psychology, University of Lancaster (UK)

Duração/Duration: 2018/01 – 2020/04

### *Peer-reviewed publications*

Maegherman, G., Nuttall, H. E., Devlin, J. T., & Adank, P. (2019). Motor imagery of speech: The involvement of primary motor cortex in manual and articulatory motor imagery. *Frontiers in Human Neuroscience*, 13:195. <https://doi.org/10.3389/fnhum.2019.00195>



**286/16 – “Getting the aging brain to train: A working memory and neurostimulation approach”**

Investigadores/Researchers: Adriana Sampaio, Ana Teixeira Santos, Sandra Carvalho, Jorge Leite, Ana Raquel Mesquita, Felipe Fregni

Instituição/Institution: Psychology Research Center (CIPsi), School of Psychology, University of Minho, Braga (Portugal); Spaulding-Labuschange Neuromodulation Center, Spaulding Rehabilitation Hospital & Massachusetts General Hospital/Harvard Medical School, Charlestown (USA)

Duração/Duration: 2017/06 – 2023/03

*Peer-reviewed publications*

Silva-Fernandes, A., Cruz, S., Moreira, C. S., Pereira, D. R., Sousa, S. S., Sampaio, A., & Carvalho, J. (2022). Processing speed mediates the association between physical activity and executive functioning in elderly adults. *Frontiers in Psychology*, 13, 958535. <https://doi.org/10.3389/fpsyg.2022.958535>

Teixeira-Santos, A. C., Moreira, C., Pereira, D., Pinal, D., Fregni, F., Leite, J., Carvalho, S. & Sampaio, A. (2022). Working memory training coupled with transcranial direct current stimulation in older adults: A randomized controlled experiment. *Frontiers in Aging Neuroscience*, 14, 827188. <https://doi.org/10.3389/fnagi.2022.827188>

Teixeira-Santos, A. C., Pinal, D., Pereira, D. R., Leite, J., Carvalho, S., & Sampaio, A. (2020). Probing the relationship between late endogenous ERP components with fluid intelligence in healthy older adults. *Scientific Reports*, 10: 11167. <https://doi.org/10.1038/s41598-020-67924-4>

Teixeira-Santos, A. C., Moreira, C. S., Magalhães, R., Magalhães, C., Pereira, D. R., Leite, J., Carvalho, S., & Sampaio, A. (2019). Reviewing working memory training gains in healthy older adults: A meta-analytic review of transfer for cognitive outcomes. *Neuroscience & Biobehavioral Reviews*, 103, 163-177. <https://doi.org/10.1016/j.neubiorev.2019.05.009>

**292/16 – “Oxytocin: On the psychophysiology of trust and cooperation”**

Investigadores/Researchers: Diana Prata, James Rilling, Manuel Lopes, Duarte Ferreira, Daniel Martins, Pedro Levy

Instituição/Institution: FCIências.ID – Associação para a Investigação e Desenvolvimento de Ciências (Portugal); Emory University, Atlanta (USA)

Duração/Duration: 2017/10 – 2023/11

*Peer-reviewed publications*

Cosme, G., Patrocínio, M., Cogoni, C., Kosilo, M., & Prata, D. (2025). Intranasal oxytocin increases cooperation of heterosexual men with women. *Psychoneuroendocrinology*, 179, 107519. <https://doi.org/10.1016/j.psyneuen.2025.107519>

Cogoni, C., Fiuza, A., Hassanein, L., Antunes, M., & Prata, D. (2024). Computer anthropomorphisation in a socio-economic dilemma. *Behavior Research Methods*, 56(2), 667–679. <https://doi.org/10.3758/s13428-023-02071-y>

Rodrigues, A., Santos, H. C., Ferreira, S., Diogo, V., Costa, M., Brissos, S., Marques, J. G., & Prata, D. (2024). An exploration of blood-based biomarkers of negative symptoms of psychosis in men. *Journal of Psychiatric Research*, 177, 256–263. <https://doi.org/10.1016/j.jpsychires.2024.06.050>

Santiago, A. F., Kosilo, M., Cogoni, C., Diogo, V., Jerónimo, R., & Prata, D. (2024). Oxytocin modulates neural activity during early perceptual salience attribution. *Psychoneuroendocrinology*, 161, 106950. <https://doi.org/10.1016/j.psyneuen.2023.106950>

Santos, H. C., Rodrigues, A., Ferreira, S., Martins, J. M., Baptista, T., Gama Marques, J., Kirkpatrick, B., & Prata, D. (2024). The European Portuguese Version of the Brief Negative Symptom Scale. *Psychopathology*, 57(1), 76–80. <https://doi.org/10.1159/000530705>

Cosme, G., Arriaga, P., Rosa, P. J., Mehta, M. A., & Prata, D. (2023). Temporal profile of intranasal oxytocin in the human autonomic nervous system at rest: An electrocardiography and pupillometry study. *Journal of Psychopharmacology*, 37(6), 566-576. <https://doi.org/10.1177/02698811231158233>

Prata, D., & Silva, M. (2022). Neuroimaging genetics of oxytocin: A transcriptomics-informed systematic review. *Neuroscience & Biobehavioral Reviews*, 142, 104912. <https://doi.org/10.1016/j.neubiorev.2022.104912>

Diogo, V. S., Ferreira, H. A., Prata, D., & Alzheimer's Disease Neuroimaging Initiative (2022). Early diagnosis of Alzheimer's disease using machine learning: A multi-diagnostic, generalizable approach. *Alzheimer's Research & Therapy*, 14, 17. <https://doi.org/10.1186/s13195-022-01047-y>

Vouga Ribeiro, N., Tavares, V., Bramon, E., Touloupoulou, T., Valli, I., Shergill, S., Murray, R., & Prata, D. (2022). Effects of psychosis-associated genetic markers on brain volumetry: A systematic review of replicated findings and an independent validation. *Psychological Medicine*, 52(16), 3753-3768. <https://doi.org/10.1017/S0033291722002896>

Zelenina, M., Kosilo, M., da Cruz, J., Antunes, M., Figueiredo, P., Mehta, M. A., & Prata, D. (2022). Temporal dynamics of intranasal oxytocin in human brain electrophysiology. *Cerebral Cortex*, 32(14), 3110-3126. <https://doi.org/10.1093/cercor/bhab404>

Blest-Hopley, G., Colizzi, M., Prata, D., Giampietro, V., Brammer, M., McGuire, P., & Bhattacharyya, S. (2021). Epigenetic mediation of AKT1 rs1130233's effect on delta-9-tetrahydrocannabinol-induced medial temporal function during fear processing. *Brain Sciences*, 11(9):1240. <https://doi.org/10.3390/brainsci11091240>

Cosme, G., Rosa, P., Lima, C. F., Tavares, V., Scott, S., Chen, S., Wilcockson, T., Crawford, T., & Prata, D. (2021). Pupil dilation reflects the authenticity of received nonverbal vocalizations. *Scientific Reports*, 11: 3733. <https://doi.org/10.1038/s41598-021-83070-x>

Cosme, G., Tavares, V., Nobre, G., Lima, C., Sá, R., Rosa, P., & Prata, D. (2021). Cultural differences in vocal emotion recognition: a behavioural and skin conductance study in Portugal and Guinea-Bissau. *Psychological Research*, 86(2), 597–616. <https://doi.org/10.1007/s00426-021-01498-2>

Kosilo, M., Costa, M., Nuttall, H. E., Ferreira, H., Scott, S., Menéres, S., Pestana, J., Jerónimo, R., & Prata, D. (2021). The neural basis of authenticity recognition in laughter and crying. *Scientific Reports*, 11: 23750. <https://doi.org/10.1038/s41598-021-03131-z>

Tavares, V., Fernandes, L. A., Antunes, M., Ferreira, H., & Prata, D. (2021). Sex differences in functional connectivity between resting state brain networks in autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 52(7), 3088–3101. <https://doi.org/10.1007/s10803-021-05191-6>

Tavares, V., Monteiro, J., Vassos, E., Coleman, J., & Prata, D. (2021). Evaluation of Genotype-Based Gene Expression Model Performance: A Cross-Framework and Cross-Dataset Study. *Genes*, 12(10), 1531. <https://doi.org/10.3390/genes12101531>

Neto, M. L., Antunes, M., Lopes, M., Ferreira, D., Rilling, J., & Prata, D. (2020). Oxytocin and vasopressin modulation of prisoner's dilemma strategies. *Journal of Psychopharmacology*, 34(8), 891–900. <https://doi.org/10.1177/0269881120913145>

Simões, B., Vassos, E., Shergill, S., McDonald, C., Touloupoulou, T., Kalidindi, S., Kane, F., Murray, R., Bramon, E., Ferreira, H., & Prata, D. (2020). Schizophrenia polygenic risk score influence on white matter microstructure. *Journal of Psychiatric Research*, 121, 62-67. <https://doi.org/10.1016/j.jpsychires.2019.11.011>

Tavares, V., Prata, D., & Ferreira, H. A. (2019). Comparing SPM12 and CAT12 segmentation pipelines: a brain tissue volume-based age and Alzheimer's disease study. *Journal of Neuroscience Methods*, 334: 108565. <https://doi.org/10.1016/j.jneumeth.2019.108565>

## **296/16 – “Synaptic competition and cooperation in reward learning: The role of hippocampal and prefrontal inputs to the nucleus accumbens”**

Investigadores/Researchers: Stephen Martin, Rosalina Fonseca

Instituição/Institution: Division of Neuroscience, School of Medicine, University of Dundee (UK); Centro de Estudos de Doenças Crônicas, NOVA Medical School, Faculdade de Ciências Médicas – Universidade NOVA de Lisboa (Portugal)

Duração/Duration: 2017/09 – 2021/11

### *Peer-reviewed publications*

Sakae, D. Y., & Martin, S. J. (2019). Formation of a morphine-conditioned place preference does not change the size of evoked potentials in the ventral hippocampus-nucleus accumbens projection. *Scientific Reports*, 9: 5206. <https://doi.org/10.1038/s41598-019-41568-5>

## **298/16 – “Empowering feedback connections in temporo-occipital network to boost visual perception of emotions”**

Investigadores/Researchers: Sara Borgomaneri, Marco Zanon, Alessio Avenanti, Caterina Bertini  
Instituição/Institution: Center for studies and research in Cognitive Neuroscience, Department of Psychology, University of Bologna, Cesena (Italy)

Duração/Duration: 2017/09 – 2019/10

### *Peer-reviewed publications*

Agnoli, S., Zanon, M., Mastroia, S., Avenanti, A., & Corazza, G. E. (2020). Predicting response originality through brain activity: An analysis of changes in EEG alpha power during the generation of alternative ideas. *NeuroImage*, 207, 116385. <https://doi.org/10.1016/j.neuroimage.2019.116385>

Avenanti, A., Paracampo, R., Annella, L., Tidoni, E., & Aglioti, S. M. (2018). Boosting and decreasing action prediction abilities through excitatory and inhibitory tDCS of inferior frontal cortex. *Cerebral Cortex*, 28(4), 1282-1296. <https://doi.org/10.1093/cercor/bhx041>

Chiappini, E., Silvanto, J., Hibbard, P. B., Avenanti, A., & Romei, V. (2018). Strengthening functionally specific neural pathways with transcranial brain stimulation. *Current Biology*, 28, R735-R736. <https://doi.org/10.1016/j.cub.2018.05.083>

Fiori, F., Chiappini, E., & Avenanti, A. (2018). Enhanced action performance following TMS manipulation of associative plasticity in ventral premotor-motor pathway. *Neuroimage*, 183, 847-858. <https://doi.org/10.1016/j.neuroimage.2018.09.002>

Gallo, S., Paracampo, R., Müller-Pinzler, L., Severo, M. C., Blömer, L., Fernandes-Henriques, C., ..., Gazzola, V. (2018). The causal role of the somatosensory cortex in prosocial behaviour. *Elife*, 7:e32740. <https://doi.org/10.7554/eLife.32740>

Paracampo, R., Pirruccio, M., Costa, M., Borgomaneri, S., & Avenanti, A. (2018). Visual, sensorimotor and cognitive routes to understanding others' enjoyment: An individual differences rTMS approach to empathic accuracy. *Neuropsychologia*, 116, Part A, 86-98. <https://doi.org/10.1016/j.neuropsychologia.2018.01.043>

Paracampo, R., Montemurro, M., de Vega, M., & Avenanti, A. (2018). Primary motor cortex crucial for action prediction: A tDCS study. *Cortex*, 109, 287-302. <https://doi.org/10.1016/j.cortex.2018.09.019>

Zanon, M., Borgomaneri, S., & Avenanti, A. (2018). Action-related dynamic changes in inferior frontal cortex effective connectivity: A TMS/EEG coregistration study. *Cortex*, 108, 193-209. <https://doi.org/10.1016/j.cortex.2018.08.004>

Bertossi, E., Peccenini, L., Solmi, A., Avenanti, A., & Ciaramelli, E. (2017). Transcranial direct current stimulation of the medial prefrontal cortex dampens mind-wandering in men. *Scientific Reports*, 7, Article number: 16962. <https://doi.org/10.1038/s41598-017-17267-4>

Borgomaneri, S., Vitale, F., & Avenanti, A. (2017). Behavioral inhibition system sensitivity enhances motor cortex suppression when watching fearful body expressions. *Brain Structure and Function*, 222(7), 3267-3282. <https://doi.org/10.1007/s00429-017-1403-5>

Fiori, F., Chiappini, E., Candidi, M., Romei, V., Borgomaneri, S., & Avenanti, A. (2017). Long-latency interhemispheric interactions between motor-related areas and the primary motor cortex: a dual site TMS study. *Scientific Reports*, 7, Article number: 14936. <https://doi.org/10.1038/s41598-017-13708-2>

Valchev, N., Tidoni, E., Hamilton, A. F. C., Gazzola, V., & Avenanti, A. (2017). Primary somatosensory cortex necessary for the perception of weight from other people's action: A continuous theta-burst TMS experiment. *NeuroImage*, 152, 195-206. <https://doi.org/10.1016/j.neuroimage.2017.02.075>

### **312/16 – “Mind-body interactions in writing (M-BW): Psychophysiological and linguistic synchronous correlates of expressive writing”**

Investigadores/Researchers: Rui Alves, Teresa Limpo, Sara Costa, Ana Sousa, Mónica Moreira, José Leal  
Instituição/Institution: Neurocognition and Language Research Group, Faculty of Psychology and Education Sciences of the University of Porto (Portugal); Faculty of Sciences of the University of Porto, (Portugal)

Duração/Duration: 2017/04 – 2020/09

#### *Peer-reviewed publications*

Jacques, T., Azzam, A. P., Costa, F., & Alves, R. A. (2023). Influence of Disclosure Topic and Linguistic Perspective on Expressive Writing. In: X. Liu, , M. Hebert & Alves, R. A. (Eds), *The Hitchhiker's Guide to Writing Research. Literacy Studies* (Vol 25, pp. 357–373). Springer, Cham. [https://doi.org/10.1007/978-3-031-36472-3\\_19](https://doi.org/10.1007/978-3-031-36472-3_19)

Jacques, T., Alves, A. A., Fadaei, S., & Barbosa, F. (2020). Real-time psychophysiological and writing correlates of expressive writing. *Experimental Psychology*, 67(4), 237-245. <https://doi.org/10.1027/1618-3169/a000495>

Alves, R. A., Leal, J. P., & Limpo, T. (2019). Using HandSpy to study writing in real time: A comparison between low-and high-quality texts in grade 2. In E. Lindgren and K. P. H. Sullivan (Eds.), *Insights from Keystroke Logging and Handwriting* (pp. 50-70). Leiden: Brill.

Maia, M. I. & Leal, J. P. (2018). EmoSpell, a morphological and emotional word analyzer. *Information*, 9(1), 1-19. <https://doi.org/10.3390/info9010001>

### **329/16 – “Exploring the correlates and nature of subjective apparitional experiences”**

Investigadores/Researchers: Christine Simmonds-Moore, Donadrian Rice, Chase O'Gwin  
Instituição/Institution: Psychology Department, University of West Georgia, Carrollton (USA)

Duração/Duration: 2018/04 – 2020/06

#### *Peer-reviewed publications*

Simmonds-Moore, C. (2020). Synesthesia and the perception of unseen realities. *Journal of Humanistic Psychology*, 62(2), 187-207. <https://doi.org/10.1177/0022167820918691>

### 346/16 – “The mind possessed project: Mapping the varieties of possession experiences”

Investigadores/Researchers: Miguel Farias, Romara Delmonte

Instituição/Institution: Centre for Research in Psychology, Behaviour and Achievement, Coventry University (UK)

Duração/Duration: 2017/12 – 2022/11

#### Peer-reviewed publications

Delmonte, R., Farias, M., Bastos Junior, M. A. V., Madeira, L., & Sonego, B. (2022). The mind possessed: Well-being, personality, and cognitive characteristics of individuals regularly experiencing religious possession. *Brazilian Journal of Psychiatry*, <https://doi.org/10.47626/1516-4446-2021-2414>

### “Characterization of “Near-Death Experiences” through the comparison of experiencers and non-experiencers’ particularities: inter-individual differences in cognitive characteristics and susceptibility to false memories”

Investigadores/Researchers: Steven Laureys, Charlotte Martial, H       Cassol

Institui    /Institution: Coma Science Group, University of Li     (Belgium)

Dura    /Duration: 2016/03 – 2019/03

#### Peer-reviewed publications

Aubinet, C., Regnier, A., Gillet, A., Fritz, P., Lejeune, N., Jedidi, H., Ledoux, D., Majerus, S., & Gosseries, O. (2026). Assessing receptive aphasia in patients after coma: Validation of the Brief Evaluation of Receptive Aphasia (BERA). *Annals of Physical and Rehabilitation Medicine*, 69(4), 102121. <https://doi.org/10.1016/j.rehab.2026.102121>

Alnagger, N. L. N., Cardone, P., Martial, C., Perl, Y. S., Mindlin, I., Sitt, J. D., Roseman, L., Carhart-Harris, R., Nutt, D., Mallaroni, P., Mason, N., Ramaekers, J. G., Bonhomme, V., Laureys, S., Deco, G., Gosseries, O., N      , P., & Annen, J. (2026). A virtual clinical trial of psychedelics to treat patients with disorders of consciousness. *Advanced Science*, 13(11), e11780. <https://doi.org/10.1002/adv.202511780>

Cardone, P., N      , P., Alnagger, N. L. N., Martial, C., van der Lande, G. J. M., Sandell, R., Carhart-Harris, R., & Gosseries, O. (2025). Psilocybin for disorders of consciousness: A case-report study. *Clinical Neurophysiology*, 173, 181–189. <https://doi.org/10.1016/j.clinph.2025.02.264>

Gosseries, O., Schnakers, C., Vanhaudenhuyse, A., Martial, C., Aubinet, C., Charland-Verville, V., Thibaut, A., Annen, J., Ledoux, D., Laureys, S., & Gr      , C. (2023). Needs and quality of life of caregivers of patients with prolonged disorders of consciousness. *Brain Sciences*, 13(2), 308. <https://doi.org/10.3390/brainsci13020308>

Honinx, E., Meys, M., Broes, S., Van Langenhoven, L., Janssens, R., Huys, I., Oswald, V., Annen, J., Laureys, S., Martial, C., & Gosseries, O. (2025). The effectiveness and user preferences of two tactile breathing devices in reducing stress in stressed individuals: A mixed methods study. *International Journal of Clinical and Health Psychology*, 25(3), Article 100603. <https://doi.org/10.1016/j.ijchp.2025.100603>

Michael, P., Fritz, P., Gosseries, O., Rousseau, A. F., Ancion, A., Ghuysen, A., & Martial, C. (2025). The central clinical relevance of near-death experiences in acute care contexts: identification, prediction, and management. *Frontiers in Psychology*, 16, 1544438. <https://doi.org/10.3389/fpsyg.2025.1544438>

N      , P., T      , P., Rodr            , V., Alnagger, N. L., van der Lande, G., Vitello, M., Cardone, P., Thibaut, A., Belloli, L., Laureys, S., Sitt, J. D., Annen, J., & Gosseries, O. (2025). Altered electrophysiological meta-state dynamics in disorders of consciousness. *NeuroImage*, 323, 121519. <https://doi.org/10.1016/j.neuroimage.2025.121519>

Shou, F., Wu, J., Wang, J., Gr      , C., Huang, W., Li, M., Aubinet, C., Wang, A., Hu, N., Laureys, S., & Di, H. (2025). Depression of family caregivers of patients with disorders of consciousness: A systematic review. *Acta Neurologica Scandinavica*, 2025(1), Article 6249080. <https://doi.org/10.1155/ane/6249080>

T      , P. K. B., Abey Suriya, R., Panda, R., N      , P., Vitello, M. M., van der Lande, G., Gosseries, O., Thibaut, A., Laureys, S., Deco, G., & Annen, J. (2025). Individual trajectories for recovery of neocortical activity in disorders of consciousness. *PLoS Computational Biology*, 21(11), e1013659. <https://doi.org/10.1371/journal.pcbi.1013659>

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## Apoios à Investigação Científica 2018/19 | Grants for Scientific Research 2018/19

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 02/18 – “Neurobiological effects of Lourdes water: An fMRI study”

Investigadores/Researchers: Anne Schienle, Albert Wabnegger

Instituição/Institution: Clinical Psychology, University of Graz (Austria)

Duração/Duration: 2019/01 – 2021/09

Peer-reviewed publications

Schienle, A., Gremsl, A., & Wabnegger, A. (2021). Placebo effects in the context of religious beliefs and practices: A resting-state functional connectivity study. *Frontiers in Behavioral Neuroscience*, 15: 653359. <https://doi.org/10.3389/fnbeh.2021.653359>

Schienle, A., Höfler, C., & Wabnegger, A. (2020). Belief in the miracles of Lourdes: A voxel-based morphometry study. *Brain and Behavior*, 10(1): e01481. <https://doi.org/10.1002/brb3.1481>

### 08/18 – “Varieties of voice-hearing and Auditive Paranormal Experiences (APE): Examining "White Christmas" task and hallucinatory experiences in voice-hearers and non-voice-hearers with and without DPD”

Investigadores/Researchers: Alejandro Parra, Juan Carlos Argibay, Jorge Fernando Villanueva

Instituição/Institution: Instituto de Psicología Paranormal, Buenos Aires (Argentina); Universidad Abierta Interamericana, Buenos Aires (Argentina)

Duração/Duration: 2019/01 – 2021/03

Peer-reviewed publications

Cia, G., & Parra, A. (2026). Descriptive and cognitive-perceptual examination of near-death experiences in an Argentine sample: A comparative study. *Explore*, 22(4), 103430. <https://doi.org/10.1016/j.explore.2026.103430>

Parra, A. (2025). Impact of childhood trauma on dreams in adulthood: An Argentine survey. *Dreaming*, 35(3), 243–253. <https://doi.org/10.1037/drm0000307>

### 13/18 – “Biological bases of music cognition”

Investigadores/Researchers: Juan Manuel Toro, Paola Crespo-Bojorque, Alexandre Celma-Miralles, Carlota Pagés

Instituição/Institution: Center for Brain and Cognition, University Pompeu Fabra, Barcelona (Spain)

Duração/Duration: 2019/03 – 2021/10

Peer-reviewed publications

Crespo-Bojorque, P., Celma-Miralles, A., & Toro, J. (2022). Detecting surface changes in a familiar tune: exploring pitch, tempo and timbre. *Animal Cognition*, 25(4), 951–960. <https://doi.org/10.1007/s10071-022-01604-w>

Pagès-Portabella, C., Bertolo, M., & Toro, J. M. (2021). Neural correlates of acoustic dissonance in music: The role of musicianship, schematic and veridical expectations. *PLoS ONE*, 16(12): e0260728. <https://doi.org/10.1371/journal.pone.0260728>

Celma-Miralles, A., & Toro, J. M. (2020). Non-human animals detect the rhythmic structure of a familiar tune. *Psychonomic Bulletin & Review*, 27, 694–699. <https://doi.org/10.3758/s13423-020-01739-2>

Pagès-Portabella, C., & Toro, J. M. (2019). Dissonant endings of chord progressions elicit a larger ERAN than ambiguous endings in musicians. *Psychophysiology*, 57(2), e13476. <https://doi.org/10.1111/psyp.13476>

### 16/18 – “The psychology and parapsychology of spiritual emergency”

Investigadores/Researchers: Lance Storm, Monika Goretzki

Instituição/Institution: School of Psychology, University of Adelaide (Australia)

Duração/Duration: 2019/03 – 2021/09

#### Peer-reviewed publications

Storm, L., & Goretzki, M. (2021). The psychology and parapsychology of spiritual emergency. *Journal of Scientific Exploration*, 35(1), 36-64. <https://doi.org/10.31275/20211889>

### 20/18 – “Perceptual-personality variables associated with anomalous experiences vs paranormal attributions”

Investigadores/Researchers: Rense Lange, James Houran

Instituição/Institution: Integrated Knowledge Systems - IKS, Chatham (USA); ISLA - Instituto Politécnico de Gestão e Tecnologia, Vila Nova de Gaia (Portugal)

Duração/Duration: 2019/02 – 2021/04

#### Peer-reviewed publications

Houran, J., Lange, R., & Laythe, B. (2020). Understanding consumer enchantment via paranormal tourism: Part II - Preliminary rasch validation. *Cornell Hospitality Quarterly*, 63(2), 216-230. <https://doi.org/10.1177/1938965520971276>

Lange, R., Houran, J., Sheridan, L., Dagnall, N., Drinkwater, K., O'Keeffe, C., & Laythe, B. (2020). Haunted people syndrome revisited: empirical parallels between subjective paranormal episodes and group-stalking accounts. *Mental Health, Religion & Culture*, 23 (7), 532-549. <https://doi.org/10.1080/13674676.2020.1767552>

Lange, R., Ross, R. M., Dagnall, N., Irwin, H. J., Houran, J., & Drinkwater, K. (2019). Anomalous experiences and paranormal attributions: Psychometric challenges in studying their measurement and relationship. *Psychology of Consciousness: Theory, Research, and Practice*, 6, 346-358. <https://doi.org/10.1037/cns0000187>

### 29/18 – “Mind-matter practical applications”

Investigadores/Researchers: Patrizio Tressoldi, Luciano Pederzoli, Marco Bilucaglia

Instituição/Institution: EvanLab, Firenze (Italy); Dipartimento di Psicologia Generale, Università di Padova (Italy)

Duração/Duration: 2019/01 – 2021/02

#### Peer-reviewed publications

Pederzoli, L., Bilucaglia, M., Prati, E., Matteoli, M., & Tressoldi, P. (2022). A pilot study of distant "mind-matter" interaction with digital photography. *Journal of Parapsychology*, 86(1), 125-134. <https://doi.org/10.30891/jopar.2022.01.06>

Tressoldi, P., Pederzoli, L., Prati, E., & Semenzato, L. (2020). Mind control of a distant electronic device: A proof-of-concept pre-registered study. *Journal of Scientific Exploration*, 34(2), 233-245. <https://doi.org/10.31275/2020/1573>

### 37/18 – “Decoding the neuron-astrocyte dialogue that supports cognitive processing”

Investigadores/Researchers: João Filipe Oliveira, Luísa Pinto, Diana Nascimento, Sónia Gomes, Inês Caetano, João Viana, João Luís Machado, Daniela Sofia Abreu, Sara Barsanti

Instituição/Institution: Life and Health Sciences Research Institute - ICVS, Universidade do Minho, Braga (Portugal)

Duração/duration: 2020/02 – 2024/04

#### Peer-reviewed publications

Brakatselos, C., Polissidis, A., Ntoulas, G., Asprogerakas, M. Z., Tsarna, O., Vamvaka-Iakovou, A., Nakas, G., Delis, A., Tzimas, P., Skaltsounis, L., Silva, J., Delis, F., Oliveira, J. F., Sotiropoulos, I., & Antoniou, K. (2024). Multi-level therapeutic actions of cannabidiol in ketamine-induced schizophrenia psychopathology in male rats. *Neuropsychopharmacology*, 50(2), 388–400. <https://doi.org/10.1038/s41386-024-01977-1>

Cunha-Garcia, D., Monteiro-Fernandes, D., Correia, J. H., Neves-Carvalho, A., Vilaça-Ferreira, A. C., Guerra-Gomes, S., Viana, J. F., Oliveira, J. F., Teixeira-Castro, A., Maciel, P., & Duarte-Silva, S. (2023). Genetic ablation of inositol 1,4,5-Trisphosphate receptor type 2 (IP3R2) fails to modify disease progression in a mouse model of spinocerebellar ataxia type 3. *International Journal of Molecular Sciences*, 24(13), 10606. <https://doi.org/10.3390/ijms241310606>

Martins-Macedo, J., Mateus-Pinheiro, A., Alves, C., Veloso, F., Gomes, E. D., Ribeiro, I., Correia, J. H., Silveira-Rosa, T., Alves, N. D., Rodrigues, A. J., Bessa, J. M., Sousa, N., Oliveira, J. F., Patrício, P., &

Pinto, L. (2023). StressMatic: A novel automated system to induce depressive- and anxiety-like phenotype in rats. *Cells*, 12(3), 381. <https://doi.org/10.3390/cells12030381>

Viana, J. F., Machado, J. L., Abreu, D. S., Veiga, A., Barsanti, S., Tavares, G., Martins, M., Sardinha, V. M., Guerra-Gomes, S., Domingos, C., Pauletti, A., Wahis, J., Liu, C., Cali, C., Henneberger, C., Holt, M. G., & Oliveira, J. F. (2023). Astrocyte structural heterogeneity in the mouse hippocampus. *Glia*, 71(7), 1667–1682. <https://doi.org/10.1002/glia.24362>

Oliveira, J. F. & Araque, A. (2022). Astrocyte regulation of neural circuit activity and network states. *Glia*, 70(8), 1455-1466. <https://doi.org/10.1002/glia.24178>

Machado-Santos, A. R., Loureiro-Campos, E., Patrício, P., Araújo, B., Alves, N., Mateus-Pinheiro, A., Correia, J., Morais, M., Bessa, J., Sousa, N., Rodrigues, A., Oliveira, J., & Pinto, L. (2022). Beyond new neurons in the adult hippocampus: Imipramine acts as a pro-astroglial factor and rescues cognitive impairments induced by stress exposure. *Cells*, 11(3), 390-. <https://doi.org/10.3390/cells11030390>

Canedo, T., Portugal, C. C., Socodato, R., Almeida, T., Terceiro, A., Bravo, J., Silva, A., Magalhães, J., Guerra-Gomes, S., Oliveira, J. F., Sousa, N., Magalhães, A., Relvas, J., & Summavielle, T. (2021). Astrocyte-derived TNF and glutamate critically modulate microglia activation by methamphetamine. *Neuropsychopharmacology*, 46(13), 2358–2370. <https://doi.org/10.1038/s41386-021-01139-7>

Loureiro-Campos, E., Mateus-Pinheiro, A., Patrício, P., Soares-Cunha, C., Silva, J., Sardinha, V. M., Mendes-Pinheiro, B., Silveira-Rosa, T., Domingues, A. V., Rodrigues, A. J., Oliveira, J., Sousa, N., Alves, N. D., & Pinto, L. (2021). Constitutive deficiency of the neurogenic hippocampal modulator AP2y promotes anxiety-like behavior and cumulative memory deficits in mice from juvenile to adult periods. *eLife*, 10: e70685. <https://doi.org/10.7554/eLife.70685>

Campos, J., Guerra-Gomes, S., Serra, S. C., Baltazar, G., Oliveira, J. F., Teixeira, F. G., & Salgado, A. J. (2020). Astrocyte signaling impacts the effects of human bone marrow mesenchymal stem cells secretome application into the hippocampus: A proliferation and morphometrical analysis on astrocytic cell populations. *Brain Research*, 1732: 146700. <https://doi.org/10.1016/j.brainres.2020.146700>

Guerra-Gomes, S., Cunha-Garcia, D., Marques Nascimento, D. S., Duarte-Silva, S., Loureiro-Campos, E., Morais Sardinha, V., ... Oliveira, J. F. (2020). IP3R2 null mice display a normal acquisition of somatic and neurological development milestones. *European Journal of Neuroscience*, 54(5), 5673–5686. <https://doi.org/10.1111/ejn.14724>

Falcón-Moya, R., Pérez-Rodríguez, M., Prius-Mengual, J., Andrade-Talavera, Y., Arroyo-García, L. E., Pérez-Artés, R., ..., Rodríguez-Moreno, A. (2020). Astrocyte-mediated switch in spike timing-dependent plasticity during hippocampal development. *Nature Communications*, 11, Article number: 4388. <https://doi.org/10.1038/s41467-020-18024-4>

Rodrigues, J. A., Pimenta, S., Pereira, J. P., Gomes, N. M., Souto, M. R., Fernandes, H. C., ... Correia, J. H. (2020). Low-cost silicon neural probe: fabrication, electrochemical characterization and in vivo validation. *Microsystem Technologies*, 27, 37–46. <https://doi.org/10.1007/s00542-020-04898-3>

## 50/18 – “Changes in the temporal width of the present moment after meditation”

Investigadores/Researchers: Marc Wittmann, Stefan Schmidt, Karin Meissner

Instituição/Institution: Institute for Frontier Areas of Psychology and Mental Health, Freiburg (Germany); University Clinic Freiburg (Germany); Coburg University of Applied Sciences (Germany)

Duração/Duration: 2019/07 – 2022/09

### Peer-reviewed publications

Lau, I., Schaefer, L. M., Brons, S., Koch, F., Utz, F. J., Metodiev, S., Meyer, A. L., Rapp, N., Lahmann, C., Schmidt, S., & Bauer, P. R. (2022). Alterations in the experience of time, space, and intersubjectivity and the interaction with pre-existent psychopathology during the COVID-19 pandemic. *Psychopathology*, 55(3-4), 143–155. <https://doi.org/10.1159/000522345>

Linares Gutiérrez, D., Schmidt, S., Meissner, K., & Wittmann, M. (2022). Changes in subjective time and self during meditation. *Biology*, 11(8), 1116. <https://doi.org/10.3390/biology11081116>

## 52/18 – “Can EEG neurofeedback of theta during consolidation enhance episodic memory?”

Investigador/Researcher: Lisa Evans

Instituição/Institution: Cardiff University Brain Research Imaging Centre - CUBRIC, School of Psychology, Cardiff University (UK)

Duração/Duration: 2019/10 – 2024/01

### Peer-reviewed publications

Jackson, L. E., Han, Y. J., & Evans, L. H. (2023). The efficacy of electroencephalography neurofeedback for enhancing episodic memory in healthy and clinical participants: A systematic qualitative review and meta-analysis. *Neuroscience and Biobehavioral Reviews*, 155, 105455. <https://doi.org/10.1016/j.neubiorev.2023.105455>

### 67/18 – “Electrophysiological correlates of size-distance integration”

Investigadores/Researchers: Irene Sperandio, Louis Renoult

Instituição/Institution: Department of Psychology and Cognitive Science, University of Trento, Rovereto (Italy)

Duração/Duration: 2020/11 – 2024/05

#### Peer-reviewed publications

Sperandio, I., Monti, B. M., Piazza, M., Songhorabadi, S. K., Debernardis, F., Griffiths, D., & Chouinard, P. A. (2026). What contributes to our perception of the Shepard tabletop illusion? *Attention, Perception, & Psychophysics*, 88, Article 159. <https://doi.org/10.3758/s13414-026-03306-8>

Noviello, S., Kamari Songhorabadi, S., Deng, Z., Zheng, C., Chen, J., Pisani, A., Franchin, E., Pierotti, E., Tonolli, E., Monaco, S., Renoult, L., & Sperandio, I. (2024). Temporal features of size constancy for perception and action in a real-world setting: A combined EEG-kinematics study. *Neuropsychologia*, 193, 108746. <https://doi.org/10.1016/j.neuropsychologia.2023.108746>

### 68/18 – “Investigating biochemical mechanisms underlying mind-matter interactions: Effect of intention on human stem cell properties via cryptochrome”

Investigadores/Researchers: Yung-Jong Shiah, George T.-J. Huang

Instituição/Institution: Graduate Institute of Counseling Psychology and Rehabilitation Counseling, National Kaohsiung Normal University, Kaohsiung, Taiwan (China); University of Tennessee Health Science Center, Memphis (USA)

Duração/Duration: 2019/03 – 2023/03

#### Peer-reviewed publications

Shiah, Y. J., Shan, L., Radin, D. I., & Huang, G. T. (2022). Effects of intentionally treated water on the growth of mesenchymal stem cells: An exploratory study. *Explore: The Journal of Science & Healing*, 18(6), 663-669. <https://doi.org/10.1016/j.explore.2021.11.007>

### 71/18 – “Explaining autonomous sensory meridian response”

Investigadores/Researchers: Michael Banissy, Thomas Swart

Instituição/Institution: Department of Psychology, Goldsmiths, University of London (UK)

Duração/Duration: 2019/01 – 2023/02

#### Peer-reviewed publications

Swart, T. R., Banissy, M. J., Hein, T., Bruña, R., Pereda, E., & Bhattacharya, J. (2022) ASMR amplifies low frequency and reduces high frequency oscillations. *Cortex*, 148, 85-100. <https://doi.org/10.1016/j.cortex.2022.01.004>

Swart, T. R., Bowling, N. C., & Banissy, M. J. (2022). ASMR-Experience Questionnaire (AEQ): A data-driven step towards accurately classifying ASMR responders. *British Journal of Psychology*, 113(1), 68-83. <https://doi.org/10.1111/bjop.12516>

### 72/18 – “Temperamental influences on social cognition under stress”

Investigadores/Researchers: Frederike Beyer, Ulrike Krämer

Instituição/Institution: Psychology Department, School of Biological and Chemical Sciences, Queen Mary University of London (UK); Department of Neurology, University of Lubeck (Germany)

Duração/Duration: 2019/02 – 2021/09

#### Peer-reviewed publications

Cheema, S., Augustin, C., Göttlich, M., Krämer, U. M., & Beyer, F. (2024). Fragile mentalizing: Lack of behavioral and neural markers of social cognition in an established social perspective taking task when combined with stress induction. *eNeuro*, 11(11), ENEURO.0084-24.2024. <https://doi.org/10.1523/ENEURO.0084-24.2024>

Kähkönen, J. E., Krämer, U. M., Buades-Rotger, M., & Beyer, F. (2021). Regulating interpersonal stress: the link between heart-rate variability, physical exercise and social perspective taking under stress. *Stress*, 24(6), 753–762. <https://doi.org/10.1080/10253890.2021.1907339>



### 81/18 – “The neurophenomenology of volition: Revisiting the Libet task with first-person methods”

Investigadores/Researchers: Stefan Schmidt, Sebastian Kübel, Marc Wittmann, Han-Gue Jo

Instituição/Institution: Department of Psychosomatic Medicine and Psychotherapy, University Medical Center Freiburg (Germany)

Duração/Duration: 2019/12 – 2024/07

#### Peer-reviewed publications

Schmidt, S., Bauer, P. R., & Trautwein, F. (2024). Neurophenomenology in action: Integrating the first-person perspective into the Libet experiment. *Mindfulness*, 15, 2048–2061. <https://doi.org/10.1007/s12671-024-02368-9>

### 82/18 – “Neuropsychological and cognitive-perceptual characteristics of mediums and psychics”

Investigador/Researcher: Ken Drinkwater

Instituição/Institution: Health, Psychology and Communities, Manchester Metropolitan University (UK)

Duração/Duration: 2019/09 – 2023/07

#### Peer-reviewed publications

Drinkwater, K., Dagnall, N., Walsh, S., Sproson, L., Peverell, M. & Denovan, A. (2022). Self-ascribed paranormal ability: Reflexive thematic analysis. *Frontiers in Psychology*, 13, 845283. <https://doi.org/10.3389/fpsyg.2022.845283>

Drinkwater, K. G., Dagnall, N., Denovan, A., Parker, A., & Escolà-Gascón, Á. (2022). Paranormal experience profiles and their association with variations in executive Functions: A latent profile analysis. *Frontiers in Psychology*, 12, 778312. <https://doi.org/10.3389/fpsyg.2021.778312>

Drinkwater, K.G., Dagnall, N., Denovan, A., Parker, A., & Escolà-Gascón, Á. (2021) Executive functioning: Assessing the role of perceived paranormal ability. *Frontiers in Psychology*, 12, 798283. <https://doi.org/10.3389/fpsyg.2021.798283>

Drinkwater, K. G., Dagnall, N., Denovan, A., & Williams C. (2021) Differences in cognitive-perceptual factors arising from variations in self-professed paranormal ability. *Frontiers in Psychology*, 12, 681520. <https://doi.org/10.3389/fpsyg.2021.681520>

Drinkwater, K. G., Dagnall, N., Denovan, A., & Williams, C. (2021) Paranormal belief, thinking style and delusion formation: A latent profile analysis of within-individual variations in experience-based paranormal facets. *Frontiers in Psychology*, 12, 670959. <https://doi.org/10.3389/fpsyg.2021.670959>

Drinkwater, K. G., Denovan, A., & Dagnall, N. (2020). Lucid dreaming, nightmares, and sleep paralysis: Associations with reality testing deficits and paranormal experience/belief. *Frontiers in Psychology*, 11, 471. <https://doi.org/10.3389/fpsyg.2020.00471>

### 85/18 – “Role of NT3/TrkC in the regulation of fear”

Investigador/Researcher: Mónica Santos

Instituição/Institution: Center for Neuroscience and Cell Biology, University of Coimbra (Portugal)

Duração/Duration: 2019/03 – 2023/07

#### Peer-reviewed publications

Masella, G., Silva, F., Corti, E., Azkona, G., Madeira, M. F., Tomé, Á. R., Ferreira, S. G., Cunha, R. A., Duarte, C. B., & Santos, M. (2024). The amygdala NT3-TrkC pathway underlies inter-individual differences in fear extinction and related synaptic plasticity. *Molecular Psychiatry*, 29(5), 1322–1337. <https://doi.org/10.1038/s41380-024-02412-z>

Silva, F., Masella, G., Madeira, M. F., Duarte, C. B., & Santos, M. (2023). TrkC Intracellular Signalling in the Brain Fear Network During the Formation of a Contextual Fear Memory. *Molecular Neurobiology*, 60(6), 3507–3521. <https://doi.org/10.1007/s12035-023-03292-0>

Martínez-Rodríguez, E., Martín-Sánchez, A., Kul, E., Bose, A., Martínez-Martínez, F. J., Stork, O., ... Agustín-Pavón, C. (2020). Male-specific features are reduced in Mecp2-null mice: Analyses of vasopressinergic innervation, pheromone production and social behaviour. *Brain Structure and Function*, 225(7), 2219–2238. <https://doi.org/10.1007/s00429-020-02122-6>

### 89/18 – “National survey of “Cases of Reincarnation Type” in Brazil”

Investigadores/Researchers: Alexander Moreira-Almeida, Jim Tucker, Lucam Moraes, Sandra Carvalho  
Instituição/Institution: Research Center in Spirituality and Health - NUPES, School of Medicine, Federal University of Juiz de Fora – UFJF (Brazil); Division of Perceptual Studies - DOPS, School of Medicine, University of Virginia, Charlottesville (USA)

Duração/Duration: 2019/04 – 2024/11

#### Peer-reviewed publications

Carvalho, S. M. de, Tucker, J., & Moreira-Almeida, A. (2025). Who does report past-life memories? Claimers' profile, religiosity/spirituality and impact on happiness and mental health. *The International Journal for the Psychology of Religion*, 35(3), 1–16. <https://doi.org/10.1080/10508619.2025.2521573>

Moraes, L. J., Ávila-Pires, E. V., Nolasco, M. S., Rocha, T. S., Tucker, J. B., & Moreira-Almeida, A. (2024). Children who claim previous life memories: A case report and literature review. *Explore*, 20(6), 103063. <https://doi.org/10.1016/j.explore.2024.103063>

Moreira-Almeida, A., de Abreu Costa, M., & Schubert Coelho, H. (2022). *Science of Life After Death*. Cham, Switzerland: Springer. <https://doi.org/10.1007/978-3-031-06056-4>

Moraes, L. J., Barbosa, G. S., Castro, J. P., Tucker, J., & Moreira-Almeida, A. (2021). Academic studies on claimed past-life memories: A scoping review. *Explore: The Journal of Science and Healing*, 18(3), 371-378. <https://doi.org/10.1016/j.explore.2021.05.006>

Moraes, L. J., & Moreira-Almeida, A. (2020). A comprehensive academic review of reincarnation research. *Journal of Parapsychology*, 84(2), 311-315. <https://doi.org/10.30891/jopar.2020.02.13>

### 92/18 – “Attending mindfully: A psychophysiology study of sensory processing in meditators”

Investigadores/Researchers: Veena Kumari, Rakesh Pandey

Instituição/Institution: Centre for Cognitive Neuroscience, Department of Life Sciences, Brunel University London, Uxbridge (UK); Department of Psychology, Banaras Hindu University, Varanasi (India)

Duração/Duration: 2019/04 – 2024/07

#### Peer-reviewed publications

Shukla, M., Upadhyay, N., Tripathi, V., Kumari, V., & Pandey, R. (2026). The role of regular meditation practice, trait mindfulness, and psychological characteristics in affective startle modulation: A psychophysiological study. *Applied Psychophysiology and Biofeedback*. Advance online publication. <https://doi.org/10.1007/s10484-026-09782-w>

Kumari, V., Tailor, U., Saifullah, A., Pandey, R., & Antonova, E. (2024). Non-dual awareness and sensory processing in meditators: Insights from startle reflex modulation. *Consciousness and Cognition*, 123, 103722. <https://doi.org/10.1016/j.concog.2024.103722>

Kumari, V., Antonova, E., Mahmood, S., Shukla, M., Saifullah, A., & Pandey, R. (2023). Dispositional mindfulness, alexithymia and sensory processing: Emerging insights from habituation of the acoustic startle reflex response. *International Journal of Psychophysiology*, 184, 20–27. <https://doi.org/10.1016/j.ijpsycho.2022.12.002>

Pandey, R., Mandal, S. P., Shukla, M., Tripathi, V., Antonova, E., & Kumari, V. (2023). Attenuated maladaptive emotion processing as a potential mediator of the relationship between dispositional mindfulness and mental health. *Heliyon*, 9(11), e21934. <https://doi.org/10.1016/j.heliyon.2023.e21934>

Antonova, E., Schlosser, K., Pandey, R., & Kumari, V. (2021). Coping with COVID-19: Mindfulness-based approaches for mitigating mental health crisis. *Frontiers in Psychiatry*, 12: 563417. <https://doi.org/10.3389/fpsy.2021.563417>

### 93/18 – “Meditation-induced neuroplasticity of the embodied-self and its role in social processing”

Investigador/Researcher: Aviva Berkovich-Ohana

Instituição/Institution: The Edmond J. Safra Brain Research Center, University of Haifa (Israel); Gonda Multidisciplinary Brain Research Center, Bar-Ilan University (Israel)

Duração/Duration: 2019/02 – 2021/09

#### Peer-reviewed publications

Shemesh, L., Mendelsohn, A., Panitz, D., & Berkovich-Ohana, A. (2022). Enhanced declarative memory in long-term mindfulness practitioners. *Psychological Research*, 87(1), 294-307. <https://doi.org/10.1007/s00426-022-01642-6>

David, A., Rubinsten, O., & Berkovich-Ohana, A. (2021). Math anxiety, self-centeredness, and dispositional mindfulness. *Journal of Educational Psychology*, 114(2), 393-407. <https://doi.org/10.1037/edu0000550>

Nave, O., Trautwein, F.-M., Ataria, Y., Dor-Ziderman, Y., Schweitzer, Y., Fulder, S., & Berkovich-Ohana, A. (2021). Self-boundary dissolution in meditation: A phenomenological investigation. *Brain Research*, 11(6), 819. <https://doi.org/10.3390/brainsci11060819>

Berkovich-Ohana, A., Dor-Ziderman, Y., Trautwein, F.-M., Schweitzer, Y., Nave, O., Fulder, S., & Ataria, Y. (2020). The hitchhiker's guide to neurophenomenology - The case of studying self-boundaries with meditators. *Frontiers in Psychology*, 11:1680. <https://doi.org/10.3389/fpsyg.2020.01680>

#### **101/18 – “Hypnosis and cognition: Neural basis of hypnotic suggestion on executive functions and perceptual awareness”**

Investigadores/Researchers: Rinaldo Livio Perri, Francesco Di Russo, Enrico Facco

Instituição/Institution: Faculty of Psychology, University Niccolò Cusano, Rome (Italy); Cognitive Neuroscience of Action lab, University Foro Italico, Rome (Italy)

Duração/Duration: 2019/03 – 2021/01

##### *Peer-reviewed publications*

Perri, R. L., Bianco, V., Facco, E., & Di Russo, F. (2021) Now you see one letter, now you see meaningless symbols: Perceptual and semantic hypnotic suggestions reduce stroop errors through different neurocognitive mechanisms. *Frontiers in Neuroscience*, 14: 600083. <https://doi.org/10.3389/fnins.2020.600083>

Perri, R. L., Facco, E., Quinzi, F., Bianco, V., Berchicci, M., Rossani, F., & Di Russo, F. (2020). Cerebral mechanisms of hypnotic hypoesthesia. An ERP investigation on the expectancy stage of perception. *Psychophysiology*, 57(11), e13657. <https://doi.org/10.1111/psyp.13657>

Perri, R. L., Rossani, F., & Di Russo, F. (2019). Neuroelectric evidences of top-down hypnotic modulation associated with somatosensory processing of sensory and limbic regions. *Neuroimage*, 202, 116104. <https://doi.org/10.1016/j.neuroimage.2019.116104>

#### **104/18 – “Effect of mindfulness on EEG brain activity for cognitive and psychological well-being in the elderly”**

Investigadores/Researchers: Samantha Galluzzi, Davide Moretti, Mariangela Lanfredi, Laura Pedrini, Roberta Rossi

Instituição/Institution: IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli, Brescia (Italy)

Duração/Duration: 2019/02 – 2024/01

##### *Peer-reviewed publications*

Galluzzi, S., Lanfredi, M., Moretti, D. V., Rossi, R., Meloni, S., Tomasoni, E., Frisoni, G. B., Chiesa, A., & Pievani, M. (2024). Cognitive, psychological, and physiological effects of a web-based mindfulness intervention in older adults during the COVID-19 pandemic: an open study. *BMC geriatrics*, 24(1), 151. <https://doi.org/10.1186/s12877-024-04766-z>

#### **106/18 – “How does consciousness work in real life?”**

Investigadores/Researchers: Adrià Tauste Campo, Rodrigo Quian-Quiroga

Instituição/Institution: Center for Brain and Cognition, University Pompeu Fabra, Barcelona (Spain)

Duração/Duration: 2019/02 – 2022/11

##### *Peer-reviewed publications*

Tauste Campo, A., Zainos, A., Vázquez, Y., Adell Segarra, R., Álvarez, M., Deco, G., Díaz, H., Parra, S., Romo, R., & Rossi-Pool, R. (2024). Thalamocortical interactions shape hierarchical neural variability during stimulus perception. *iScience*, 27(7), 110065. <https://doi.org/10.1016/j.isci.2024.110065>

Vila-Vidal, M., Khawaja, M., Carreño, M., Roldán, P., Rumià, J., Donaire, A., Deco, G., & Tauste Campo, A. (2023). Assessing the coupling between local neural activity and global connectivity fluctuations: Application to human intracranial electroencephalography during a cognitive task. *Human Brain Mapping*, 44(3), 1173-1192. <https://doi.org/10.1002/hbm.26150>

Tauste Campo, A. (2020). Inferring neural information flow from spiking data. *Computational and Structural Biotechnology Journal*, 18, 2699-2708. <https://doi.org/10.1016/j.csbj.2020.09.007>

#### **110/18 – “A randomized trial: Extraordinary experiences and performance on psi tasks related to meditation”**

Investigadores/Researchers: Jennifer Penberthy, Marieta Pehlivanova, Elizabeth Hanchak, Leslie Hubbard

Instituição/Institution: Division of Perceptual Studies - DOPS, School of Medicine, University of Virginia, Charlottesville (USA)

Duração/Duration: 2020/05 – 2024/01

##### *Peer-reviewed publications*

Penberthy, J. K., Claro, H. G., Kalelioglu, T., Centeno, C., Ladoni, A., Ragone, E., Rowley, C., & Hanchak, E. (2024). Impact of Meditation Versus Exercise on Psychological Characteristics, Paranormal Experiences, and Beliefs: Randomized Trial. *Journal of Scientific Exploration*, 38(1), 28-40. <https://doi.org/10.31275/20242849>

**111/18 – “Does rhythm enhance recognition memory? Evidence from behaviour and electroencephalography”**

Investigadores/Researchers: Emma Ward, Alexander Jones, Jon Silas, Wayne Anderson

Instituição/Institution: The Behavioural, Affective, and Cognitive Neuroscience research group – BACneuro, Psychology Department, Middlesex University, London (UK)

Duração/Duration: 2019/03 – 2021/04

*Peer-reviewed publications*

Jones, A., Silas, J., Anderson, W., & Ward, E. V. (2023). Null effects of temporal prediction on recognition memory but evidence for differential neural activity at encoding. A registered report. *Cortex*, 169, 130–145. <https://doi.org/10.1016/j.cortex.2023.09.006>

Jones, A., Ward, E., Csiszer, E., & Szymczak, J. (2022). Temporal expectation improves recognition memory for spatially attended objects. *Journal of Cognitive Neuroscience*, 34(9), 1616-1629. <https://doi.org/10.1162/jocn.a.01872>

**113/18 – “Psi in everyday social interaction”**

Investigador/Researcher: Robin Wooffitt

Instituição/Institution: Anomalous Experiences Research Unit, Department of Sociology, University of York (UK)

Duração/Duration: 2019/03 – 2021/04

*Peer-reviewed publications*

Wooffitt, R., Fuentes-Calle, A., & Campbell, R. (2020). Small stories with big implications Identity, relationality and aesthetics in accounts of enigmatic communication. *Narrative Inquiry*, 32(2), 249-269. <https://doi.org/10.1075/ni.20013.woo>

**117/18 – “The neuronal basis of biases”**

Investigadores/Researchers: Rubén Moreno-Bote, Roozbeh Kiani

Instituição/Institution: Center for Brain and Cognition, Department of Technologies of Information and Communications, Universitat Pompeu Fabra, Barcelona (Spain); Center for Neural Science, New York University (USA)

Duração/Duration: 2019/01 – 2021/04

*Peer-reviewed publications*

da Fonseca, M., Maffei, G., Moreno-Bote, R., & Hyafil, A. (2023). Mood and implicit confidence independently fluctuate at different time scales. *Cognitive, Affective & Behavioral Neuroscience*, 23(1), 142–161. <https://doi.org/10.3758/s13415-022-01038-4>

Lopez-Sola, E., Moreno-Bote, R., & Arsiwalla, X. D. (2021). Sense of agency for mental actions: Insights from a belief-based action-effect paradigm. *Consciousness and Cognition: An International Journal*, 96, 1–15. <https://doi.org/10.1016/j.concog.2021.103225>

Mochol, G., Kiani, R., & Moreno-Bote, R. (2021). Prefrontal cortex represents heuristics that shape choice bias and its integration into future behavior. *Current Biology*, 31(6), 1234-1244. <https://doi.org/10.1016/j.cub.2021.01.068>

Ozbagci, D., Moreno-Bote, R., & Soto-Faraco, S. (2021). The dynamics of decision-making and action during active sampling. *Scientific Reports*, 11(1), 23067. <https://doi.org/10.1038/s41598-021-02595-3>

**121/18 – “Effects of subconscious, nonlocal, and retroactive information on participants’ choice/decision and neural activities”**

Investigador/Researcher: Liang Shan

Instituição/Institution: School of Life Science and Technology, University of Electronic Science and Technology of China, Chengdu (China)

Duração/Duration: 2019/02 – 2025/02

*Peer-reviewed publications*

Shan, L., Wang, Y., Wu, R., Huang, Y., & Dai, J. (2026). Subconscious information elicits distinct metacognition following active decision-making. *Biomedical Signal Processing and Control*, 123(Part B), 110660. <https://doi.org/10.1016/j.bspc.2026.110660>



### **125/18 – “Distinct psychophysiological profiles associated with experiencing the pain of others”**

Investigadores/Researchers: Jamie Ward, Mengze Li

Instituição/Institution: School of Psychology, University of Sussex (UK)

Duração/Duration: 2019/03 – 2024/03

#### *Peer-reviewed publications*

Li, M., Racey, C., Bouyagoub, S., Critchley, H. D., & Ward, J. (2024). Individual differences in vicarious pain as a shift in the self-other boundary. *Imaging Neuroscience*, 3, imag\_a\_00422. [https://doi.org/10.1162/imag\\_a\\_00422](https://doi.org/10.1162/imag_a_00422)

Li, M., Racey, C., Rae, C. L., Strawson, W., Critchley, H. D., & Ward, J. (2024). Can the neural representation of physical pain predict empathy for pain in others? *Social Cognitive and Affective Neuroscience*, 19(1), nsae023. <https://doi.org/10.1093/scan/nsae023>

### **135/18 – “The physiological role of circadian rhythms in memory”**

Investigadores/Researchers: Luísa Lopes, Miguel Remondes, Ana Morgado, Joana Coelho

Instituição/Institution: Instituto de Medicina Molecular - João Lobo Antunes, Lisboa (Portugal)

Duração/Duration: 2019/01 – 2023/01

#### *Peer-reviewed publications*

Dias, M., Marques-Morgado, I., Coelho, J. E., Ruivo, P., Lopes, L. V., & Remondes, M. (2021). Transection of the superior sagittal sinus enables bilateral access to the rodent midline brain structures. *eNeuro*, 8(4): 0146-21.2021. <https://doi.org/10.1523/ENEURO.0146-21.2021>

Reis, C., Madeira, S. G., Lopes, L. V., Paiva, T., & Roenneberg, T. (2020). Validation of the Portuguese Variant of the Munich Chronotype Questionnaire (MCTQ(P)). *Frontiers in Physiology*, 11: 795. <https://doi.org/10.3389/fphys.2020.00795>

### **138/18 – “The neural signatures of leadership: Two-brain directed synchronization during eye contact”**

Investigadores/Researchers: Caroline Di Bernardi Luft, Isabelle Mareschal

Instituição/Institution: School of Biological and Chemical Sciences, Queen Mary University of London (UK)

Duração/Duration: 2019/07 – 2023/09

#### *Peer-reviewed publications*

Zioga, I., Kenett, Y. N., Giannopoulos, A., & Di Bernardi Luft, C. (2024). The role of alpha oscillations in free- and goal-directed semantic associations. *Human Brain Mapping*, 45(10), e26770. <https://doi.org/10.1002/hbm.26770>

Giannopoulos, A. E., Zioga, I., Luft, C. D. B., Papageorgiou, P., Papageorgiou, G. N., Kapsali, F., Kontoangelos, K., Capsalis, C. N., & Papageorgiou, C. (2023). Unravelling brain connectivity patterns in body dysmorphic disorder during decision-making on visual illusions: A graph theoretical approach. *Psychiatry Research*, 325, 115256. <https://doi.org/10.1016/j.psychres.2023.115256>

Luft, C. D. B., Zioga, I., Giannopoulos, A., Di Bona, G., Binetti, N., Civilini, A., Latora, V. & Mareschal, I. (2022). Social synchronization of brain activity increases during eye-contact. *Communications Biology*, 5, 412. <https://doi.org/10.1038/s42003-022-03352-6>

Zioga, I., Harrison, P. M. C., Pearce, M. T., Bhattacharya, J., & Luft, C. D. B. (2020). Auditory but not audiovisual cues lead to higher neural sensitivity to the statistical regularities of an unfamiliar musical style. *Journal of Cognitive Neuroscience*, 32(12), 2241-2259. [https://doi.org/10.1162/jocn\\_a\\_01614](https://doi.org/10.1162/jocn_a_01614)

### **144/18 – “The motor roots of acting together: A psychophysiological investigation”**

Investigadores/Researchers: Marta Bortoletto, Corrado Sinigaglia

Instituição/Institution: IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli, Brescia (Italy); Centre for the Study of Social Action, Università degli Studi di Milano (Italy)

Duração/Duration: 2019/03 – 2024/02

#### *Peer-reviewed publications*

Fanghella, M., Mussini, E., Zazio, A., Genovese, F., Satta, E., Barchiesi, G., Battaglia-Mayer, A., Bortoletto, M., & Sinigaglia, C. (2025). Distinct neural dynamics in joint versus side-by-side actions: Insights from dual EEG. *Social Cognitive and Affective Neuroscience*, 20(1), nsaf075. <https://doi.org/10.1093/scan/nsaf075>

Barchiesi, G., Zazio, A., Marcantoni, E., Bulgari, M., di San Pietro, C. B., Sinigaglia, C. & Bortoletto, M. (2022). Sharing motor plans while acting jointly: A TMS study. *Cortex*, 151, 224-239. <https://doi.org/10.1016/j.cortex.2022.03.007>

#### 147/18 – “Neurophysiological correlates of shared attention”

Investigadores/Researchers: Andrew Bayliss, Louise Ewing, Lisa Stephenson

Instituição/Institution: School of Psychology, University of East Anglia, Norwich (UK)

Duração/Duration: 2019/10 – 2025/10

##### Peer-reviewed publications

McDonough, K. L., Edwards, S. G., Ewing, L., & Bayliss, A. P. (2025). The Joint Attention Grouping Effect: Perceptual Binding of Observed Social Interactions. *Quarterly Journal of Experimental Psychology*, 79(4), 985-998. <https://doi.org/10.1177/17470218251396955>

Veranic, K., Bayliss, A. P., Zhao, M., Stephen, I. D., & Ewing, L. (2025). Close encounters: Interpersonal proximity amplifies social appraisals. *British Journal of Psychology*, 116(3), 594–616. <https://doi.org/10.1111/bjop.12781>

Veranic, K., Ewing, L., Sambrook, T., Watson, E. A. G., Zhao, M., & Bayliss, A. P. (2025). Changes in interpersonal distance modulate social attention engagement: Evidence from EEG alpha band suppression. *Social Cognitive and Affective Neuroscience*, 20(1), nsaf008. <https://doi.org/10.1093/scan/nsaf008>

#### 148/18 – “Voice perception in the visually deprived brain: Behavioral and electrophysiological insights”

Investigadores/Researchers: Tatiana Conde e Magro, Ana Pinheiro, César Lima

Instituição/Institution: Centro de Investigação em Ciência Psicológica - CICPSI, Faculdade de Psicologia da Universidade de Lisboa (Portugal); Centro de Investigação e de Intervenção Social, ISCTE - Instituto Universitário de Lisboa (Portugal)

Duração/Duration: 2020/02 – 2023/09

##### Peer-reviewed publications

Sarzedas, J., Lima, C. F., Roberto, M. S., Scott, S. K., Pinheiro, A. P., & Conde, T. (2024). Blindness influences emotional authenticity perception in voices: Behavioral and ERP evidence. *Cortex*, 172, 254–270. <https://doi.org/10.1016/j.cortex.2023.11.005>

Conde, T., Correia, A. I., Roberto, M. S., Scott, S. K., Lima, C. F., & Pinheiro, A. P. (2022). The time course of emotional authenticity detection in nonverbal vocalizations. *Cortex*, 151, 116-132. <https://doi.org/10.1016/j.cortex.2022.02.016>

Pinheiro, A. P., Anikin, A., Conde, T., Sarzedas, J., Chen, S., Scott, S. K., & Lima, C. F. (2021). Emotional authenticity modulates affective and social trait inferences from voices. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, 376(1840), 20200402. <https://doi.org/10.1098/rstb.2020.0402>

#### 150/18 – “A neuroscience approach to investigating how hierarchy influences moral behaviour”

Investigadores/Researchers: Axel Cleeremans, Emilie Caspar

Instituição/Institution: Center for Research in Cognition and Neuroscience, Université libre de Bruxelles (Belgium); Department of behavioural sciences, Royal Military Academy, Brussels (Belgium)

Duração/Duration: 2019/10 – 2024/09

##### Peer-reviewed publications

Caspar, E. A., Rovai, A., Lo Bue, S., & Cleeremans, A. (2025). Neural correlates of the sense of agency in free and coerced moral decision-making among civilians and military personnel. *Cerebral Cortex*, 35(3), bhaf049. <https://doi.org/10.1093/cercor/bhaf049>

Tricoche, L., Rovai, A., Lo Bue, S., & Caspar, E. A. (2025). Neuro-cognitive specificities in prosocial disobedience: A comparative fMRI study of civilian and military populations. *PLoS ONE*, 20(7), e0328407. <https://doi.org/10.1371/journal.pone.0328407>

Caspar, E. A. (2024). *Just following orders: Atrocities and the brain science of obedience*. Cambridge University Press. <https://doi.org/10.1017/9781009385428>

#### 156/18 – “Examining observer effects on random processes: A correlation matrix”

Investigador/Researcher: Ana Flores

Instituição/Institution: Life and Health Sciences Research Institute - ICVS, School of Health Sciences, University of Minho, Braga (Portugal)

Duração/Duration: 2019/07 – 2024/02

##### Peer-reviewed publications

Flores, A. B., & Rapazote-Flores, P. (2023). Mind and matter correlated in a matrix. New replication using an online game. *Qeios*. <https://doi.org/10.32388/0PAHC2>

## 160/18 – “Exploring the effect of transcranial direct current stimulation during sleep on fear extinction learning”

Investigadores/Researchers: Carmelo Vicario, Michael A Nitsche, Vuk Markovic

Instituição/Institution: Department of Psychology and Neuroscience, Leibniz Research Centre for Working Environment and Human Factors, Dortmund (Germany); Department of Cognitive Science, University of Messina (Italy)

Duração/Duration: 2019/04 – 2025/02

### Peer-reviewed publications

Casula, A., Milazzo, B. M., Martino, G., Sergi, A., Lucifora, C., Tomaiuolo, F., Quartarone, A., Nitsche, M. A., & Vicario, C. M. (2023). Non-invasive brain stimulation for the modulation of aggressive behavior - A systematic review of randomized sham-controlled studies. *Life*, 13(5), 1220. <https://doi.org/10.3390/life13051220>

Culicetto, L., Ferraioli, F., Lucifora, C., Falzone, A., Martino, G., Craparo, G., Avenanti, A., & Vicario, C. M. (2023). Disgust as a transdiagnostic index of mental illness: A narrative review of clinical populations. *Bulletin of the Menninger Clinic*, 87(Supplement A), 53-91. <https://doi.org/10.1521/bumc.2023.87.supplA.53>

Rizzo, G., Martino, D., Avanzino, L., Avenanti, A., & Vicario, C. M. (2023). Social cognition in hyperkinetic movement disorders: A systematic review. *Social Neuroscience*, 18(6), 331–354. <https://doi.org/10.1080/17470919.2023.2248687>

Tortora, F., Hadipour, A. L., Battaglia, S., Falzone, A., Avenanti, A., & Vicario, C. M. (2023). The role of serotonin in fear learning and memory: A systematic review of human studies. *Brain Sciences*, 13(8), 1197. <https://doi.org/10.3390/brainsci13081197>

Vicario C. M., Makris, S., Culicetto, L., Lucifora, C., Falzone, A., Martino, G., Ferraioli, F., Nitsche, M. A., Avenanti, A., & Craparo, G. C. (2023). Evidence of altered fear extinction learning in individuals with high vaccine hesitancy during COVID-19 pandemic. *Clinical Neuropsychiatry*, 20(4), 364-369. <https://doi.org/10.36131/cnforitieditore20230417>

Lucifora, C., Grasso, G., Nitsche, M., D'Italia, G., Sortino, M., Salehinejad, M., Falzone, A., Avenanti, A. & Vicario, C. (2022). Enhanced fear acquisition in individuals with evening chronotype. A virtual reality fear conditioning/extinction study. *Journal of Affective Disorders*, 311, 344-352. <https://doi.org/10.1016/j.jad.2022.05.033>

Pennisi, P., Salehinejad, M. A., Corso, A. M., Merlo, E. M., Avenanti, A., & Vicario, C. M. (2023). Delay discounting in Parkinson's disease: A systematic review and meta-analysis. *Behavioural Brain Research*, 436, 114101. <https://doi.org/10.1016/j.bbr.2022.114101>

Vicario, C. M., Salehinejad, M. A., Lucifora, C., Martino, G., Falzone, A. M., & Nitsche, M. A. (2023). Combining virtual reality exposure therapy with non-invasive brain stimulation for the treatment of post-traumatic stress disorder and related syndromes: A perspective. In: G. Pinna (Eds), *Translational Methods for PTSD Research. Neuromethods* (Vol 198). Humana, New York, NY. [https://doi.org/10.1007/978-1-0716-3218-5\\_12](https://doi.org/10.1007/978-1-0716-3218-5_12)

Vicario, C. M., Turrini, S., Lucifora, C., Culicetto, L., Ferraioli, F., Falzone, A., Nitsche, M. A., & Avenanti, A. (2022). When defeat leaves a bad taste in the mouth: Modulation of tongue corticobulbar output during monetary loss in a gambling task. *Brain Stimulation*, 15(6), 1448–1450. <https://doi.org/10.1016/j.brs.2022.10.010>

Vicario, C., Nitsche, M., & Avenanti, A. (2022). Tongue motor cortex: The back door of the reward system. *Neuroscience and Biobehavioral Reviews*, 141, 104820. <https://doi.org/10.1016/j.neubiorev.2022.104820>

Markovic, V., Vicario, C. M., Yavari, F., Salehinejad, M. A., & Nitsche, M. A. (2021). A systematic review on the effect of transcranial direct current and magnetic stimulation on fear memory and extinction. *Frontiers in Human Neuroscience*, 15: 655947. <https://doi.org/10.3389/fnhum.2021.655947>

## 163/18 – “Effects of a short-term mindfulness intervention on hypnotisability and mental health”

Investigadores/Researchers: Zoltan Dienes, Peter Lush

Instituição/Institution: School of Psychology, University of Sussex (UK)

Duração/Duration: 2019/04 – 2020/04

### Peer-reviewed publications

Dienes, Z., Lush, P., Palfi, B., Roseboom, W., Scott, R., Parris, B., Seth, A., & Lovell, M. (2020). Phenomenological control as cold control. *Psychology of Consciousness: Theory, Research, and Practice*, 9(2), 101-116. <https://doi.org/10.1037/cns0000230>

Lush, P., Botan, V., Scott, R. B., Seth, A. K., Ward, J., & Dienes, J. (2020). Trait phenomenological control predicts experience of mirror synaesthesia and the rubber hand illusion. *Nature Communications*, 11: 4853. <https://doi.org/10.1038/s41467-020-18591-6>

**169/18 – “Temporal decoding of selective recollection with psychophysiology”**

Investigadores/Researchers: Alexa Morcom, Arjen Alink

Instituição/Institution: School of Psychology, University of Sussex (UK)

Duração/Duration: 2019/06 – 2022/05

*Peer-reviewed publications*

Moccia, A., Plummer, M., Simpson, I., & Morcom, A. M. (2025). The effects of external cue overlap and internal goals on selective memory retrieval as revealed by electroencephalographic (EEG) neural pattern reinstatement. *European Journal of Neuroscience*, 62, e70194. <https://doi.org/10.1111/ejn.70194>

Moccia, A., & Morcom, A. M. (2021). Cue overlap supports preretrieval selection in episodic memory: ERP evidence. *Cognitive, Affective & Behavioral Neuroscience*, 22(3), 492–508. <https://doi.org/10.3758/s13415-021-00971-0>

**180/18 – “Exploring the effects of linguistic versus non-linguistic mentation in a remote viewing protocol, with coincident micropsychokinesis detection using a novel matrix REG”**

Investigadores/Researchers: Paul Stevens, Ben Roberts

Instituição/Institution: University of Derby (UK)

Duração/Duration: 2019/05 – 2019/10

*Peer-reviewed publications*

Stevens, P., & Roberts, B. (2025). Exploring the effects of linguistic versus nonlinguistic mentation in a remote-viewing protocol, with coincident micropsychokinesis detection using a novel matrix REG. *Journal of the Society for Psychical Research*, 89(1), 24–46.

**188/18 – “Coping with PAin through Hypnosis, mindfulness and Spirituality (COPAHS)”**

Investigadores/Researchers: Maria Alexandra Ferreira Valente, José Luís Pais Ribeiro, Mark Philip Jensen, Ana Filipa Pimenta, Rui Miguel Costa, Melissa Day

Instituição/Institution: William James Center for Research, ISPA – Instituto Universitário, Lisboa (Portugal); Department of Rehabilitation Medicine, University of Washington, Seattle (USA)

Duração/Duration: 2019/10 – 2023/01

*Peer-reviewed publications*

Ferreira-Valente, A., Van Dyke, B. P., Day, M. A., Teotónio do Carmo, C., Pais-Ribeiro, J., Pimenta, F., Costa, R. M., & Jensen, M. P. (2022). Immediate effects of hypnosis, mindfulness meditation, and prayer on cold pressor outcomes: A four-arm parallel experimental study. *Journal of Pain Research*, 15, 4077–4096. <https://doi.org/10.2147/JPR.S388082>

Jarego, M., Ferreira-Valente, A., Queiroz-Garcia, I., Day, M. A., Pais-Ribeiro, J., Costa, R. M., Pimenta, F., & Jensen, M. P. (2022). Are prayer-based interventions effective pain management options? A systematic review and meta-analysis of randomized controlled trials. *Journal of Religion and Health*, 62(3), 1780–1809. <https://doi.org/10.1007/s10943-022-01709-z>

Ferreira-Valente, A., Pimenta, F., Costa, R. M., Day, M. A., Pais-Ribeiro, J., & Jensen, M. P. (2021). COPAHS study: Protocol of a randomized experimental study comparing the effects of hypnosis, mindfulness meditation and spiritual practices on experimental pain in healthy adults. *BMJ Open*, e040068. <https://doi.org/10.1136/bmjopen-2020-040068>

Ferreira-Valente, A., Jarego, M., Queiroz-Garcia, I., Pimenta, F., Costa, R. M., Day, M. A., Pais-Ribeiro, J., & Jensen, M. P. (2021). Prayer as a pain intervention: Protocol of a systematic review of randomized controlled trials. *BMJ Open*, 11, e047580. <https://doi.org/10.1136/bmjopen-2020-047580>

**190/18 – “Ganzfeld ESP research: Building on lessons learned”**

Investigador/Researcher: Caroline Watt

Instituição/Institution: Koestler Parapsychology Unit, University of Edinburgh (UK)

Duração/Duration: 2019/10 – 2024/07

*Peer-reviewed publications*

Pooley, A., Murray, A., & Watt, C. (2023). Understanding the factors at play in the sender-receiver dynamic during telepathy ganzfeld: A meta-analysis. *Journal of Anomalous Experience and Cognition*, 3(1), 42-47. <https://doi.org/10.31156/jaex.23878>



**193/18 – “The essential role of the dorsolateral prefrontal cortex in motor imagery: A TMS interference study”**

Investigador/Researcher: Scott Glover

Instituição/Institution: Psychology Department, Royal Holloway University of London (UK)

Duração/Duration: 2019/03 – 2022/10

*Peer-reviewed publications*

Martel, M., & Glover, S. (2023). TMS over dorsolateral prefrontal cortex affects the timing of motor imagery but not overt action: Further support for the motor-cognitive model. *Behavioural Brain Research*, 437, 114125. <https://doi.org/10.1016/j.bbr.2022.114125>

**198/18 – “Sense of agency in the Ouija board experience”**

Investigadores/Researchers: Gethin Hughes, Peter Gooding

Instituição/Institution: Department of Psychology, University of Essex (UK)

Duração/Duration: 2019/04 – 2023/03

*Peer-reviewed publications*

Hughes, G., & Gooding, P. L. T. (2025). ERP correlates of agency processing in joint action. *Social, Cognitive and Affective Neuroscience*, 20(1), nsaf006. <https://doi.org/10.1093/scan/nsaf006>

**204/18 – “Boosting WM capacity by strengthening the oscillatory functional fronto-parietal pathway”**

Investigador/Researcher: Vincenzo Romei

Instituição/Institution: Centre for studies and research in Cognitive Neuroscience - CsrNC, Department of Psychology, University of Bologna (Italy)

Duração/Duration: 2019/03 – 2023/04

*Peer-reviewed publications*

Samaha, J., & Romei, V. (2024). Alpha-Band Frequency and Temporal Windows in Perception: A Review and Living Meta-analysis of 27 Experiments (and Counting). *Journal of Cognitive Neuroscience*, 36(4), 640–654. [https://doi.org/10.1162/jocn\\_a\\_02069](https://doi.org/10.1162/jocn_a_02069)

Tarasi, L., Turrini, S., Sel, A., Avenanti, A., & Romei, V. (2024). Cortico-cortical paired-associative stimulation to investigate the plasticity of cortico-cortical visual networks in humans. *Current Opinion in Behavioral Sciences*, 56, 101359. <https://doi.org/10.1016/j.cobeha.2024.101359>

Di Gregorio, F., Petrone, V., Casanova, E., Lullini, G., Romei, V., Piperno, R., & La Porta, F. (2023). Hierarchical psychophysiological pathways subtend perceptual asymmetries in neglect. *NeuroImage*, 270, 119942. <https://doi.org/10.1016/j.neuroimage.2023.119942>

Tarasi, L., Borgomaneri, S., & Romei, V. (2023). Antivax attitude in the general population along the autism-schizophrenia continuum and the impact of socio-demographic factors. *Frontiers in Psychology*, 14, 1059676. <https://doi.org/10.3389/fpsyg.2023.1059676>

Trajkovic, J., Di Gregorio, F., Avenanti, A., Thut, G., & Romei, V. (2023). Two oscillatory correlates of attention control in the alpha-band with distinct consequences on perceptual gain and metacognition. *Journal of Neuroscience*, 43(19), 3548–3556. <https://doi.org/10.1523/JNEUROSCI.1827-22.2023>

Di Luzio, P., Tarasi, L., Silvanto, J., Avenanti, A., & Romei, V. (2022). Human perceptual and metacognitive decision-making rely on distinct brain networks. *PLoS Biology*, 20(8), e3001750. <https://doi.org/10.1371/journal.pbio.3001750>

Bertaccini, R., Ellena, G., Macedo-Pascual, J., Carusi, F., Trajkovic, J., Poch, C., & Romei, V. (2022). Parietal alpha oscillatory peak frequency mediates the effect of practice on visuospatial working memory performance. *Vision*, 6(30). <https://doi.org/10.3390/vision6020030>

Trajkovic, F., di Gregorio, F., Marcantoni, E., Thut, G., & Romei, V. (2022). A TMS/EEG protocol for the causal assessment of the functions of the oscillatory brain rhythms in perceptual and cognitive processes. *STAR Protocols*, 3 (2), 101435. <https://doi.org/10.1016/j.xpro.2022.101435>

Di Gregorio, F., Trajkovi, J., Roperti, C., Marcantoni, E., Di Luzio, P., Avenanti, A., Thut, G., & Romei, V. (2022). Tuning alpha rhythms to shape conscious visual perception. *Current Biology*, 32, 1–11, <https://doi.org/10.1016/j.cub.2022.01.003>

Gillmeister, H., Succi, A., Romei, V., & Poerio, G. L. (2022). Touching you, touching me: Higher incidence of mirror-touch synaesthesia and positive (but not negative) reactions to social touch in Autonomous Sensory Meridian Response. *Consciousness and Cognition*, 103, 103380. <https://doi.org/10.1016/j.concog.2022.103380>

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- Tarasi, L., Magosso, E., Ricci, G., Ursino, M., & Romei, V. (2021). The directionality of fronto-posterior brain connectivity is associated with the degree of individual autistic traits. *Brain Sciences*, 11(11), 1443. <https://doi.org/10.3390/brainsci11111443>
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- Chiappini, E., Borgomaneri, S., Marangon, M., Turrini, S., Romei, V., & Avenanti, A. (2020). Driving associative plasticity in premotor-motor connections through a novel paired associative stimulation based on long-latency cortico-cortical interactions. *Brain Stimulation*, 13(5), 1461-1463. <https://doi.org/10.1016/j.brs.2020.08.003>
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- Cooke, J., Poch, C., Gillmeister, H., Costantini, M., & Romei, V. (2019). Oscillatory properties of functional connections between sensory areas mediate crossmodal illusory perception. *Journal of Neuroscience*. <https://doi.org/10.1523/JNEUROSCI.3184-18.2019>
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- Pietrelli, M., Zanon, M., Lavavas, E., Grasso, P. A., Romei, V., & Bertini, C. (2019). Posterior brain lesions selectively alter alpha oscillatory activity and predict visual performance in hemianopic patients. *Cortex*, 121, 347-361. <https://doi.org/10.1016/j.cortex.2019.09.008>

#### **210/18 – “Mind-matter interactions and the frontal lobes of the brain”**

Investigadores/Researchers: Morris Freedman, Robert Chen, Malcolm Binns

Instituio/Institution: Division of Neurology, Baycrest Health Sciences, Toronto (Canada); Division of Neurology, University Health Network - UHN, Toronto (Canada)

Durao/Duration: 2019/07 – 2023/11

##### *Peer-reviewed publications*

Freedman, M., Binns, M. A., Meltzer, J. A., Hashimi, R., & Chen, R. (2024). Reply to commentaries on enhanced mind-matter interactions following rTMS induced frontal lobe inhibition. *Cortex*, 172, 249-253. <https://doi.org/10.1016/j.cortex.2024.02.001>

Freedman, M., Binns, M. A., Meltzer, J. A., Hashimi, R., & Chen, R. (2024). Enhanced mind-matter interactions following rTMS induced frontal lobe inhibition. *Cortex*, 172, 222–233. <https://doi.org/10.1016/j.cortex.2023.10.016>

#### **211/18 – “Correlating accurate intuition with learning styles and sensory modality preferences”**

Investigadores/Researchers: Julie Beischel, Lisa Conboy

Instituio/Institution: Windbridge Research Center, Tucson, Arizona (USA); Beth Israel Deaconess Medical Center at Harvard Medical School, Boston, Massachusetts (USA)

Durao/Duration: 2019/01 – 2021/10

##### *Peer-reviewed publications*

Beischel, J., & Conboy, L. (2021). Correlating mediums' accuracy with learning styles and sensory modality preferences. *Threshold: Journal of Interdisciplinary Consciousness Studies*, 4(1), 1-20.

**220/18 – “Mind-shaped body: A new conceptual framework beyond the placebo effect connecting expectations to disease outcome”**

Investigadores/Researchers: Francesco Pagnini, Paolo Banfi, Cesare Cavallera, Eleonora Volpato

Instituição/Institution: Department of Psychology, Università Cattolica del Sacro Cuore, Milan (Italy);

Respiratory Rehabilitation Unit, Fondazione Don Carlo Gnocchi, Milan (Italy)

Duração/Duration: 2019/02 – 2022/03

*Peer-reviewed publications*

Volpato, E., Poletti, V., Banfi, P., Bonanomi, A., & Pagnini, F. (2025). Illness expectations and asthma symptoms: A 6-month longitudinal study. *Health Expectations*, 28(3), e70285. <https://doi.org/10.1111/hex.70285>

Volpato, E., Banfi, P., & Pagnini, F. (2023). The interaction between asthma, emotions, and expectations in the time of COVID-19. *Journal of Asthma and Allergy*, 16, 1157–1175. <https://doi.org/10.2147/JAA.S418840>

Pagnini, F., Volpato, E., Dell'Orto, S., Cavallera, C., Spina, M., & Banfi, P. (2021). Illness expectations assessment in people with asthma: A tool for explicit and implicit beliefs. *Journal of Asthma and Allergy*, 14, 449-455. <https://doi.org/10.2147/JAA.S307763>

Pagnini, F., Cavallera, C., Volpato, E., & Banfi, P. (2020). Illness expectations predict the development of influenza-like symptoms over the winter season. *Complementary Therapies in Medicine*, 50, 102396. <https://doi.org/10.1016/j.ctim.2020.102396>

Pagnini, F. (2019). The potential role of illness expectations in the progression of medical diseases. *BMC Psychology*, 7: 70. <https://doi.org/10.1186/s40359-019-0346-4>

**228/18 – “Blurring the line between human and robot? Mapping and manipulating the socialness gradient in the brain”**

Investigadores/Researchers: Ruud Hortensius, Emily Cross

Instituição/Institution: Centre for Social, Cognitive and Affective Neuroscience - cSCAN, Institute of Neuroscience and Psychology, University of Glasgow (UK)

Duração/Duration: 2019/05 – 2021/09

*Peer-reviewed publications*

Timmerman, R. H., Hsieh T.-Y., Henschel A., Hortensius R., Cross E.S. (2021) Individuals expend more effort to compete against robots than humans after observing competitive human–robot interactions. In: Li H. et al. (eds), *Social Robotics. ICSR 2021. Lecture Notes in Computer Science*, vol 13086. Springer, Cham. [https://doi.org/10.1007/978-3-030-90525-5\\_60](https://doi.org/10.1007/978-3-030-90525-5_60)

de Jong, D., Hortensius, R., Hsieh, T.-Y., & Cross, E. S. (2021). Empathy and Schadenfreude in Human–Robot Teams. *Journal of Cognition*, 4(1), 35. <https://doi.org/10.5334/joc.177>

Hortensius, R., Kent, M., Darda, K. M., Jastrzab, L. E., Koldewyn, K., Ramsey, R., & Cross, E. S. (2021). Exploring the relationship between anthropomorphism and Theory-of-Mind in brain and behaviour. *Human Brain Mapping*, 42: 13. <https://doi.org/10.1002/hbm.25542>

Henschel, A., Hortensius, R., & Cross, E. S. (2020). Social cognition in the age of human-robot interaction. *Trends in Neurosciences*, 43(6), 373-384. <https://doi.org/10.1016/j.tins.2020.03.013>

**230/18 – “Psychophysiological, cortical excitability and functional connectivity measures**

Investigadores/Researchers: Ignacio Obeso, Jose Ángel Pineda Pardo, Claudia Ammann, Lina Guida, Úrsula Alcañas, David Mata Marín

Instituição/Institution: Centro Integral en Neurociencias A.C. - CINAC, Fundación Investigación HM Hospitales, Madrid (Spain)

Duração/Duration: 2019/02 – 2023/03

*Peer-reviewed publications*

Guida, P., Foffani, G., & Obeso, I. (2023). The supplementary motor area and automatic cognitive control: Lack of evidence from two neuromodulation techniques. *Journal of Cognitive Neuroscience*, 35(3), 439-451. [https://doi.org/10.1162/jocn\\_a\\_01954](https://doi.org/10.1162/jocn_a_01954)

Mata-Marín, D., Redgrave, P., & Obeso, I. (2023). The Impact of Emotions on Habitual Inhibition. *Journal of Cognitive Neuroscience*, 35(11), 1868–1878. [https://doi.org/10.1162/jocn\\_a\\_02050](https://doi.org/10.1162/jocn_a_02050)

## 252/18 – “Spiritual states induced by ayahuasca, and the involvement of the reward system”

Investigadores/Researchers: Miguel Castelo-Branco, Gisela Lima, Miguel Raimundo, Pedro Fonseca, Carla Cavaleiro, Lorena Petrella, Célia Cabral, Antero Abrunhosa

Instituição/Institution: Institute for Nuclear Sciences Applied to Health - ICNAS, University of Coimbra (Portugal)

Duração/Duration: 2019/10 – 2022/09

### Peer-reviewed publications

Duarte, I. C., Ribeiro, B., Jorge, H., Direito, B., & Castelo-Branco, M. (2025). Trust-based decision-making in the health and economic domains shows similar neural correlates. *Annals of the New York Academy of Sciences*, 1553(1), 300–308. <https://doi.org/10.1111/nyas.70076>

Lima, G., Soares, C., Teixeira, M., Pais, M., Cabral, C., Rijo, P., & Castelo-Branco, M. (2025). Inhaled N, N-dimethyltryptamine diminishes connectivity between the ventral tegmental area and the nucleus accumbens: Relevance to pathologies of mesolimbic and mesocortical pathways. *Scientific Reports*, 16(1), 1744. <https://doi.org/10.1038/s41598-025-31431-1>

Lima, G., Soares, C., Teixeira, M., & Castelo-Branco, M. (2024). Psychedelic research, assisted therapy and the role of the anaesthetist: A review and insights for experimental and clinical practices. *British Journal of Clinical Pharmacology*, 90(12), 3119–3134. <https://doi.org/10.1111/bcp.16264>

Pais, M. L., Teixeira, M., Soares, C., Lima, G., Rijo, P., Cabral, C., & Castelo-Branco, M. (2024). Rapid effects of tryptamine psychedelics on perceptual distortions and early visual cortical population receptive fields. *NeuroImage*, 297, 120718. <https://doi.org/10.1016/j.neuroimage.2024.120718>

Soares, C., Lima, G., Pais, M. L., Teixeira, M., Cabral, C., & Castelo-Branco, M. (2024). Increased functional connectivity between brain regions involved in social cognition, emotion and affective-value in psychedelic states induced by N,N-Dimethyltryptamine (DMT). *Frontiers in Pharmacology*, 15, 1454628. <https://doi.org/10.3389/fphar.2024.1454628>

Soares, C., Gonzalo, G., Castelhan, J., & Castelo-Branco, M. (2023). The relationship between the default mode network and the theory of mind network as revealed by psychedelics - A meta-analysis. *Neuroscience and Biobehavioral Reviews*, 152, 105325. <https://doi.org/10.1016/j.neubiorev.2023.105325>

Verdade, A., Sousa, T., Castelhan, J., & Castelo-Branco, M. (2022). Positive hysteresis in emotion recognition: Face processing visual regions are involved in perceptual persistence, which mediates interactions between anterior insula and medial prefrontal cortex. *Cognitive, Affective, & Behavioral Neuroscience*, 22(6), 1275–1289. <https://doi.org/10.3758/s13415-022-01024-w>

Castelhan, J., Duarte, I., Bernardino, I., Pelle, F., Francione, S., Sales, F., & Castelo-Branco, M. (2022). Intracranial recordings in humans reveal specific hippocampal spectral and dorsal vs. ventral connectivity signatures during visual, attention and memory tasks. *Scientific Reports*, 12(1), 3488. <https://doi.org/10.1038/s41598-022-07225-0>

Castelhan, J., Lima, G., Teixeira, M., Soares, C., Pais, M., & Castelo-Branco, M. (2021). The Effects of Tryptamine Psychedelics in the Brain: A meta-Analysis of Functional and Review of Molecular Imaging Studies. *Frontiers in Pharmacology*, 12, 739053. <https://doi.org/10.3389/fphar.2021.739053>

Rebelo, D., Oliveira, F., Abrunhosa, A., Januário, C., Lemos, J., & Castelo-Branco, M. (2021). A link between synaptic plasticity and reorganization of brain activity in Parkinson's disease. *Proceedings of the National Academy of Sciences of the United States of America*, 118(3): e2013962118. <https://doi.org/10.1073/pnas.2013962118>

Sousa, T., Duarte, J. V., Costa, G. N., Kemper, V. G., Martins, R., Goebel, R., & Castelo-Branco, M. (2021). The dual nature of the BOLD signal: Responses in visual area hMT+ reflect both input properties and perceptual decision. *Human Brain Mapping*, 42(6), 1920–1929. <https://doi.org/10.1002/hbm.25339>

Duarte, I. C., Coelho, G., Brito-Costa, S., Cayolla, R., Afonso, S., Castelo-Branco, M. (2020). Ventral caudate and anterior insula recruitment during value estimation of passionate rewarding cues. *Frontiers in Neuroscience*, 14: 678. <https://doi.org/10.3389/fnins.2020.00678>

Sayal, A., Sousa, T., Duarte, J. V., Costa, G. N., Martins, R., & Castelo-Branco, M. (2020). Identification of competing neural mechanisms underlying positive and negative perceptual hysteresis in the human visual system. *NeuroImage*, 221: 117153. <https://doi.org/10.1016/j.neuroimage.2020.117153>

## 261/18 – “Phenomenological experience and neurophysiological correlates of shamanic trance in healthy individuals”

Investigador/Researcher: Olivia Gosseries

Instituição/Institution: GIGA research center, GIGA-Consciousness, University of Liège (Belgium)

Duração/Duration: 2019/07 – 2021/11

### Peer-reviewed publications

Bicego, A., Alnaggar, N., Cardeña, E., Sombrun, C., Martial, C., Annen, J., Gosseries, O., & Vanhaudenhuyse, A. (2025). Exploring mystical-type experiences through auto-induced cognitive trance.



*The International Journal of Clinical and Experimental Hypnosis*, 73(4), 469–484.  
<https://doi.org/10.1080/00207144.2025.2544055>

Cardone, P., Bonhomme, A., Bonhomme, V., Thibaut, A., Martial, C., & Gosseries, O. (2025). A pilot human study using ketamine to treat disorders of consciousness. *iScience*, 28(1), Article 111639.  
<https://doi.org/10.1016/j.isci.2024.111639>

Girard Pepin, R., Seyfzadeh, F., Williamson, D., Gosseries, O., & Duclos, C. (2025). Pharmacological therapies for early and long-term recovery in disorders of consciousness: Current knowledge and promising avenues. *Expert Review of Neurotherapeutics*, 25(6), 613–633.  
<https://doi.org/10.1080/14737175.2025.2500757>

Oswald, V., Jerbi, K., Sombrun, C., Jitka, A., Martial, C., Gosseries, O., & Vanhaudenhuyse, A. (2025). Understanding individual differences in non-ordinary state of consciousness: Relationship between phenomenological experiences and autonomic nervous system. *International Journal of Clinical and Health Psychology*, 25(1), 100552. <https://doi.org/10.1016/j.ijchp.2025.100552>

Gosseries, O., Marie, N., Lafon, Y., Bicego, A., Grégoire, C., Oswald, V., & Vanhaudenhuyse, A. (2024). Exploration of trance states: Phenomenology, brain correlates, and clinical applications. *Current Opinion in Behavioral Sciences*, 58, 101400. <https://doi.org/10.1016/j.cobeha.2024.101400>

Grégoire, C., Sombrun, C., Lenaif, P., Marie, N., Giovine, A., Walter, M., Gosseries, O., & Vanhaudenhuyse, A. (2024). Phenomenological characteristics of auto-induced cognitive trance and Mahorikatan® trance. *Neuroscience of Consciousness*, 2024(1). <https://doi.org/10.1093/nc/niae024>

Regnier, A., Mélotte, E., Aubinet, C., Alnagger, N., Fischer, D., Lagier, A., Thibaut, A., Laureys, S., Kaux, J. F., & Gosseries, O. (2024). Swallowing dysfunctions in patients with disorders of consciousness: Evidence from neuroimaging data, assessment, and management. *NeuroRehabilitation*, 54(1), 91–107.  
<https://doi.org/10.3233/NRE-230135>

Vanhaudenhuyse, A., Castillo, M.-C., Martial, C., Annen, J., Bicego, A., Rousseaux, F., Sanz, L. R. D., Sombrun, C., Bioy, A., & Gosseries, O. (2024). Phenomenology of auto-induced cognitive trance using text mining: A prospective and exploratory group study. *Neuroscience of Consciousness*, 2024(1).  
<https://doi.org/10.1093/nc/niae036>

Oswald, V., Vanhaudenhuyse, A., Annen, J., Martial, C., Bicego, A., Rousseaux, F., Sombrun, C., Harel, Y., Faymonville, M. E., Laureys, S., Jerbi, K., & Gosseries, O. (2023). Autonomic nervous system modulation during self-induced non-ordinary states of consciousness. *Scientific Reports*, 13(1), 15811.  
<https://doi.org/10.1038/s41598-023-42393-7>

Panda, R., Vanhaudenhuyse, A., Piarulli, A., Annen, J., Demertzi, A., Alnagger, N., Chennu, S., Laureys, S., Faymonville, M. E., & Gosseries, O. (2023). Altered Brain Connectivity and Network Topological Organization in a Non-ordinary State of Consciousness Induced by Hypnosis. *Journal of Cognitive Neuroscience*, 35(9), 1394–1409. [https://doi.org/10.1162/jocn\\_a\\_02019](https://doi.org/10.1162/jocn_a_02019)

Timmermann, C., Bauer, P. R., Gosseries, O., Vanhaudenhuyse, A., Vollenweider, F., Laureys, S., Singer, T., Mind and Life Europe (MLE) ENCECON Research Group, Antonova, E., & Lutz, A. (2023). A neurophenomenological approach to non-ordinary states of consciousness: hypnosis, meditation, and psychedelics. *Trends in Cognitive Sciences*, 27(2), 139-159. <https://doi.org/10.1016/j.tics.2022.11.006>

Grégoire, C., Marie, N., Sombrun, C., Faymonville, M. E., Kotsou, I., van Nitsen, V., de Ribaucourt, S., Jerusalem, G., Laureys, S., Vanhaudenhuyse, A., & Gosseries, O. (2022). Hypnosis, Meditation, and Self-Induced Cognitive Trance to Improve Post-treatment Oncological Patients' Quality of Life: Study Protocol. *Frontiers in Psychology*, 13, 807741. <https://doi.org/10.3389/fpsyg.2022.807741>

Grégoire, C., Sombrun, C., Gosseries, O., & Vanhaudenhuyse, A. (2021). La transe cognitive auto-induite : caractéristiques et applications thérapeutiques potentielles. *Hegel*, 11(2), 192-201.  
<https://doi.org/10.3917/heg.112.0192>

Gosseries, O., & Fecchio, M., Wolff, A., Sanz, L. R. D., Sombrun, C., Vanhaudenhuyse, A., & Laureys, S. (2019). Behavioural and brain responses in cognitive trance: A TMS-EEG case study. *Clinical Neurophysiology*, 131(2), 586-588. <https://doi.org/10.1016/j.clinph.2019.11.011>

## **269/18 – “Electrophysiological and genetic factors associated with hypnosis, suggestibility and hypnotic phenomenology”**

Investigadores/Researchers: William McGeown, Irving Kirsch, Giuliana Mazzoni, Rothwelle Tate, Annalena Venneri

Instituição/Institution: School of Psychological Sciences and Health, University of Strathclyde, Glasgow (UK)

Duração/Duration: 2019/06 – 2024/09

### *Peer-reviewed publications*

Irving, A. J., Nikolova, N., Robinson, S., Ionita, I., Kelly, S. W., Kirsch, I., Mazzoni, G., Venneri, A., & McGeown, W. J. (2024). The relationship between transliminality, hypnotic and imaginative suggestibility, and other personality traits. *Acta Psychologica*, 243, 104125. <https://doi.org/10.1016/j.actpsy.2024.104125>

**276/18 – “Embodied morality: Autonomic signatures of spontaneous deception in mindfulness trained practitioners”**

Investigadores/Researchers: Giorgia Ponsi, Maria Serena Panasiti, Cristiano Crescentini, Salvatore Maria Aglioti

Instituição/Institution: Department of Psychology, University of Rome “La Sapienza” (Italy)

Duração/Duration: 2019/11 – 2024/07

*Peer-reviewed publications*

Feruglio, S., Panasiti, M. S., Crescentini, C., Aglioti, S. M., & Ponsi, G. (2023). Training the moral self: An 8-week mindfulness meditation program leads to reduced dishonest behavior and increased regulation of interoceptive awareness. *Mindfulness*, 14, 2757-2779. <https://doi.org/10.1007/s12671-023-02233-1>

Feruglio, S., Panasiti, M. S., Crescentini, C., Aglioti, S. M., & Ponsi, G. (2022). The impact of mindfulness meditation on social and moral behavior: Does mindfulness enhance other-oriented motivation or decrease monetary reward salience? *Frontiers in Integrative Neuroscience*, 16, 963422. <https://doi.org/10.3389/fnint.2022.963422>

Ponsi, G., Era, V., Fini, C., & Falcinelli, I. (2021). It's a matter of (executive) load: Separation as a load-dependent resetting procedure. *Behavioral and Brain Sciences*, 44: e17, 41-43. <https://doi.org/10.1017/S0140525X20000485>

Ponsi, G., Scattolin, M., Villa, R., & Aglioti, S. M. (2021). Human moral decision-making through the lens of Parkinson's disease. *npj parkinson's disease*, 7, 18. <https://doi.org/10.1038/s41531-021-00167-w>

Panasiti, M. S., Ponsi, G., & Violani, C. (2020). Emotions, alexithymia and emotion regulation in patients with psoriasis. *Frontiers in Psychology*, 11: 836. <https://doi.org/10.3389/fpsyg.2020.00836>

Ponsi, G., & Panasiti, M. S. (2020). Impulsive-compulsive disorders in Parkinson's Disease: Influence on individual and social decision-making processes. *Rivista di Psichiatria*, 55(4), 213-221. <https://doi.org/10.1708/3417.33997>

**281/18 – “A replication project to acquire pragmatically useful information from the future”**

Investigadores/Researchers: Stephan Schwartz, Randall DeMattei, Debra Katz

Instituição/Institution: Atlantic University, Virginia Beach (USA)

Duração/Duration: 2019/01 – 2022/03

*Peer-reviewed publications*

Schwartz S. A. (2025). Humanity's precognition: Climate change and the decline of democracy. *Explore*, 21(1), 103104. <https://doi.org/10.1016/j.explore.2024.103104>

Schwartz, S. A. (2025). Science, precognitive remote viewing, and our future. *Explore: The Journal of Science and Healing*, 21(3), 103142. <https://doi.org/10.1016/j.explore.2025.103142>

**284/18 – “Testing a neurophysiological model of inner speech processing”**

Investigador/Researcher: Bo Yao

Instituição/Institution: Division of Neuroscience and Experimental Psychology, University of Manchester (UK)

Duração/Duration: 2019/09 – 2022/01

*Peer-reviewed publications*

Yao, B., Taylor, J. R., Banks, B., & Kotz, S. A. (2021). Reading direct speech quotes increases theta phase-locking: Evidence for cortical tracking of inner speech? *Neuroimage*, 239: 118313. <https://doi.org/10.1016/j.neuroimage.2021.118313>

**287/18 – “More thankful, less stressed? Gratitude and physiological reactions to stress”**

Investigadores/Researchers: Brenda O'Connell, Stephen Gallagher, Brian Leavy

Instituição/Institution: Centre for Mental Health & Community Research, Department of Psychology, Maynooth University (Ireland); Study of Stress, Anxiety and Health Laboratory, Department of Psychology, University of Limerick (Ireland)

Duração/Duration: 2019/09 – 2023/10

*Peer-reviewed publications*

Leavy, B., O'Connell, B. H., & O'Shea, D. (2023). Gratitude, affect balance, and stress buffering: A growth curve examination of cardiovascular responses to a laboratory stress task. *International Journal of Psychophysiology*, 183, 103–116. <https://doi.org/10.1016/j.ijpsycho.2022.11.013>

Leavy, B., O'Connell, B. H., & O'Shea, D. (2023). Heart rate reactivity mediates the relationship between trait gratitude and acute myocardial infarction. *Biological Psychology*, 183, 108663. <https://doi.org/10.1016/j.biopsycho.2023.108663>

### 293/18 – “The middle-age brain”

Investigadores/Researchers: Marinella Cappelletti, Maria Herrojo Ruiz

Instituição/Institution: Department of Psychology, Goldsmiths, University of London (UK)

Duração/Duration: 2019/03 – 2024/02

#### Peer-reviewed publications

Porricelli, D., Tecilla, M., Pucci, V., Di Rosa, E., Mondini, S., & Cappelletti, M. (2024). Cognitive reserve modulates mental health in adulthood. *Aging Clinical and Experimental Research*, 36(1), 139. <https://doi.org/10.1007/s40520-024-02776-w>

D'Angelo, M., Frassinetti, F., & Cappelletti, M. (2023). The role of beta oscillations in mental time travel. *Psychological Science*, 34(4), 490-500. <https://doi.org/10.1177/09567976221147259>

Golemme, M., Tatti, E., Di Bernardi Luft, C., Bhattacharya, J., Herrojo Ruiz, M., & Cappelletti, M. (2021). Multivariate patterns and long-range temporal correlations of alpha oscillations are associated with flexible manipulation of visual working memory representations. *The European Journal of Neuroscience*, 54(9), 7260–7273. <https://doi.org/10.1111/ejn.15486>

Thompson, L., Khuc, J., Sacconi, M. S., Zokaei, N., & Cappelletti, M. (2021). Gamma oscillations modulate working memory recall precision. *Experimental Brain Research*, 239(9), 2711–2724. <https://doi.org/10.1007/s00221-021-06051-6>

Schmidt, R., Herrojo Ruiz, M., Kilavik, B. E., Lundqvist, M., Starr, P. A., & Aron, A. R. (2019). Beta oscillations in working memory, executive control of movement and thought, and sensorimotor function. *The Journal of Neuroscience*, 39(42), 8231–8238. <https://doi.org/10.1523/JNEUROSCI.1163-19.2019>

### 296/18 – “The power of mind: Altering cutaneous sensations by autosuggestion”

Investigadores/Researchers: Elena Azáñon, Esther Kuehn

Instituição/Institution: Institute of Psychology, Faculty of Natural Sciences, Otto-von-Guericke University, Magdeburg (Germany)

Duração/Duration: 2019/11 – 2023/11

#### Peer-reviewed publications

Myga, K. A., Longo, M. R., Kuehn, E., & Azáñon, E. (2025). Autosuggestion and mental imagery bias the perception of social emotions. *Cognition*, 264, 106235. <https://doi.org/10.1016/j.cognition.2025.106235>

Myga, K. A., Azáñon, E., Ambroziak, K. B., Ferrè, E. R., & Longo, M. R. (2024). Haptic experience of bodies alters body perception. *Perception*, 53(10), 716–729. <https://doi.org/10.1177/03010066241270627>

Myga, K. A., Kuehn, E., & Azáñon, E. (2024). How the inner repetition of a desired perception changes actual tactile perception. *Scientific Reports*, 14(1), 3072. <https://doi.org/10.1038/s41598-024-53449-7>

Myga, K. A., Kuehn, E., & Azanon, E. (2022). Autosuggestion: a cognitive process that empowers your brain? *Experimental Brain Research*, 240(2), 381–394. <https://doi.org/10.1007/s00221-021-06265-8>

### 306/18 – “The neural circuitry underlying error monitoring during social cognition”

Investigadores/Researchers: Teresa Sousa, Miguel Castelo-Branco, João Castelhana, Verónica Figueiredo, Andreia Pereira

Instituição/Institution: Institute for Nuclear Sciences Applied to Health - ICNAS, University of Coimbra (Portugal)

Duração/Duration: 2019/10 – 2022/09

#### Peer-reviewed publications

Dias, C., Sousa, T., Cruz, A., Costa, D., Mouga, S., Castelhana, J., Pires, G., & Castelo-Branco, M. (2025). A role for preparatory midfrontal theta in autism as revealed by a high executive load brain–computer interface reverse spelling task. *Scientific Reports*, 15, 16671. <https://doi.org/10.1038/s41598-025-00670-7>

Dias, C., Sousa, T., Mouga, S., & Castelo-Branco, M. (2025). A link between error monitoring and basal ganglia-dependent learning in autism. *Brain Communications*, 7(6), fc4f414. <https://doi.org/10.1093/braincomms/fcaf414>

Dias, C., Sousa, T., & Castelo-Branco, M. (2024). A chronometric relationship between circuits underlying learning and error monitoring in the basal ganglia and salience network. *Imaging Neuroscience*, 2, 1-16. [https://doi.org/10.1162/imag\\_a\\_00343](https://doi.org/10.1162/imag_a_00343)

Estiveira, J., Dias, C., Costa, D., Castelhana, J., Castelo-Branco, M. & Sousa, T. (2022). An action-independent role for midfrontal theta activity prior to error commission. *Frontiers in Human Neuroscience*, 16, 805050. <https://doi.org/10.3389/fnhum.2022.805080>

Dias, C., Costa, D., Sousa, T., Castelhana, J., Figueiredo, V., Pereira, A. C., & Castelo-Branco, M. (2022). A neuronal theta band signature of error monitoring during integration of facial expression cues. *PeerJ*, 10, e12627. <https://doi.org/10.7717/peerj.12627>

Dias, C., Costa, D. M., Sousa, T., Castelhana, J., Figueiredo, V., Pereira, A. C., & Castelo-Branco, M. (2021). Classification of erroneous actions using EEG frequency features: implications for BCI

performance. Annual International Conference of the IEEE Engineering in Medicine and Biology Society. *IEEE Engineering in Medicine and Biology Society. Annual International Conference*, 629-632. <https://doi.org/10.1109/EMBC46164.2021.9630509>

### **309/18 – “Neuroimaging of lucid dreaming”**

Investigadores/Researchers: Martin Dresler, Florian Krause

Instituição/Institution: Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Centre, Nijmegen (The Netherlands)

Duração/Duration: 2019/09 – 2023/07

#### *Peer-reviewed publications*

Pereira, M., Chen, X., Paltazhytskaya, A., Pacheco, Y., Muller, N., Bovy, L., Lei, X., Chen, W., Ren, H., Song, C., Lewis, L. D., Dang-Vu, T. T., Czisch, M., Picchioni, D., Duyn, J., Peigneux, P., Tagliazucchi, E., & Dresler, M. (2025). Sleep neuroimaging: Review and future directions. *Journal of Sleep Research*, 34(6), e14462. <https://doi.org/10.1111/jsr.14462>

### **331/18 – “Frontostriatal neurophysiological underpins of decision-making”**

Investigadores/Researchers: Hugo Leite-Almeida, Madalena Esteves, Marco Rafael Guimarães, Ana Margarida Cunha, Joana Mendes, Armando Almeida

Instituição/Institution: Life and Health Sciences Research Institute - ICVS, University of Minho, Braga (Portugal)

Duração prevista/Estimated duration: 2020/02 – 2026/08

#### *Peer-reviewed publications*

Fiúza-Fernandes, J., Pereira-Mendes, J., Esteves, M., Radua, J., Picó-Pérez, M., & Leite-Almeida, H. (2025). Common neural correlates of chronic pain – A systematic review and meta-analysis of resting-state fMRI studies. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 138, 111326. <https://doi.org/10.1016/j.pnpbp.2025.111326>

Esteves, M., Moreira, P. S., Sousa, N., & Leite-Almeida, H. (2021). Assessing impulsivity in humans and rodents: Taking the translational road. *Frontiers in Behavioral Neuroscience*, 15, 647922. <https://doi.org/10.3389/fnbeh.2021.647922>

### **334/18 – “Inducing lucid dreams with optimized sensory cues”**

Investigadores/Researchers: Benjamin Baird, Giulio Tononi, Stephen LaBerge

Instituição/Institution: Department of Psychiatry, Wisconsin Institute for Sleep and Consciousness, University of Wisconsin – Madison (USA)

Duração/Duration: 2019/03 – 2022/10

#### *Peer-reviewed publications*

Baird, B., Tononi, G., & LaBerge, S. (2022). Lucid dreaming occurs in activated rapid eye movement sleep, not a mixture of sleep and wakefulness. *Sleep*, 45(4), zsab294. <https://doi.org/10.1093/sleep/zsab294>

Baird, B., Aparicio, M. K., Alauddin, T., Riedner, B., Boly, M., & Tononi, G. (2021). Episodic thought distinguishes spontaneous cognition in waking from REM and NREM sleep. *Consciousness and Cognition*, 97, 103247. <https://doi.org/10.1016/j.concog.2021.103247>

Baird, B., LaBerge, S., & Tononi, G. (2021). Two-way communication in lucid REM sleep dreaming. *Trends in Cognitive Sciences*, 25(6), 427– 428. <https://doi.org/10.1016/j.tics.2021.04.004>

LaBerge, S., Baird, B., & Zimbardo, P. G. (2018). Smooth tracking of visual targets distinguishes lucid REM sleep dreaming and waking perception from imagination. *Nature Communications*, 9: 3298. <https://doi.org/10.1038/s41467-018-05547-0>

### **336/18 – “Research-inspired cognitive empowerment: Modulating Episodic Memory through Egocentric Navigational Training (MEMENT)”**

Investigadores/Researchers: Giorgia Committeri, Carlo Sestieri, Matteo Frisoni, Agustina Fragueiro, Annalisa Tosoni

Instituição/Institution: Department of Neuroscience, Imaging and Clinical sciences, Institute for Advanced Biomedical Technologies, University G. d' Annunzio of Chieti-Pescara (Italy)

Duração/Duration: 2021/09 – 2023/04

#### *Peer-reviewed publications*

Fragueiro, A., Tosoni, A., Boccia, M., Di Matteo, R., Sestieri, C. & Committeri, G. (2024). Reference frames for spatial navigation and declarative memory: Individual differences in performance support the phylogenetic continuity hypothesis. *Evolution and Human Behavior*, 45(1), 20-26. <https://doi.org/10.1016/j.evolhumbehav.2023.08.001>



Fragueiro, A., Tosoni, A., Di Matteo, R., & Committeri, G. (2023). Empowering episodic memory through a model-based egocentric navigational training. *Psychological Research*, 87(6), 1743–1752. <https://doi.org/10.1007/s00426-022-01777-6>

Altomare, E. C., Committeri, G., Di Matteo, R., Capotosto, P., & Tosoni, A. (2021). Automatic coding of environmental distance for walking-related locomotion in the foot-related sensory-motor system: A TMS study on macro-affordances. *Neuropsychologia*, 150, 107696. <https://doi.org/10.1016/j.neuropsychologia.2020.107696>

Fragueiro, A., Tosoni, A., Frisoni, M., Di Matteo, R., Sestieri, C., & Committeri, G. (2021). Travel in the Physical and Mental Space: A Behavioral Assessment of the Phylogenetic Continuity Hypothesis Between Egocentric Navigation and Episodic Memory. *Evolutionary Psychology*, 19(3), 14747049211040823. <https://doi.org/10.1177/14747049211040823>

Committeri, G., Fragueiro, A., Campanile, M. M., Lagatta, M., Burles, F., Iaria, G., Sestieri, C., & Tosoni, A. (2020). Egocentric navigation abilities predict episodic memory performance. *Frontiers in Human Neuroscience*, 14, 574224. <https://doi.org/10.3389/fnhum.2020.574224>

### **344/18 – “Encoding of the kinematics of observed actions in the responses of mirror neurons”**

Investigador/Researcher: Antonino Casile

Instituição/Institution: Center for Translational Neurophysiology - CTNSC, Fondazione Istituto Italiano di Tecnologia, Genova (Italy)

Duração/Duration: 2019/04 – 2023/01

Peer-reviewed publications

Casile, A. (2022). Mirror neurons. In S. Della Sala (Ed.), *Encyclopedia of behavioral neuroscience* (2nd ed., Vol. 2, pp. 541–552). Elsevier. <https://doi.org/10.1016/B978-0-12-819641-0.00130-4>

Fregna, G., Schincaglia, N., Baroni, A., Straudi, S., & Casile, A. (2022). A novel immersive virtual reality environment for the motor rehabilitation of stroke patients: A feasibility study. *Frontiers in robotics and AI*, 9, 906424. <https://doi.org/10.3389/frobt.2022.906424>

Marini, M., & Casile, A. (2022). I can see my virtual body in a mirror: The role of visual perspective in changing implicit racial attitudes using virtual reality. *Frontiers in Psychology*, 13, 989582. <https://doi.org/10.3389/fpsyg.2022.989582>

### **347/18 – “Driving synaptic plasticity in motor-to-visual neural pathways to enhance action prediction”**

Investigadores/Researchers: Alessio Avenanti, Marco Zanon

Instituição/Institution: Department of Psychology, Alma Mater Studiorum - Università di Bologna (Italy)

Duração/Duration: 2019/10 – 2023/06

Peer-reviewed publications

Cristiano, A., Finisguerra, A., Urgesi, C., Avenanti, A., & Tidoni, E. (2023). Functional role of the theory of mind network in integrating mentalistic prior information with action kinematics during action observation. *Cortex*, 166, 107-120. <https://doi.org/10.1016/j.cortex.2023.05.009>

Pennisi, P., Salehinejad, M. A., Corso, A. M., Merlo, E. M., Avenanti, A., & Vicario, C. M. (2023). Delay discounting in Parkinson's disease: A systematic review and meta-analysis. *Behavioural Brain Research*, 436, 114101. <https://doi.org/10.1016/j.bbr.2022.114101>

Santarnecchi, E., & Avenanti, A. (2023). Cortico-cortical paired associative stimulation (ccPAS) over premotor-motor areas affects local circuitries in the human motor cortex via Hebbian plasticity. *NeuroImage*, 271, 120027. <https://doi.org/10.1016/j.neuroimage.2023.120027>

Spaccasassi, C., Cenka, K., Petkovic, S., & Avenanti, A. (2023). Sense of agency predicts severity of moral judgments. *Frontiers in Psychology*, 13, 1070742. <https://doi.org/10.3389/fpsyg.2022.1070742>

Trajkovic, J., Di Gregorio, F., Avenanti, A., Thut, G., & Romei, V. (2023). Two oscillatory correlates of attention control in the alpha-band with distinct consequences on perceptual gain and metacognition. *Journal of Neuroscience*, 43(19), 3548-3556. <https://doi.org/10.1523/JNEUROSCI.1827-22.2023>

Turrini, S., Bevacqua, N., Cataneo, A., Chiappini, E., Fiori, F., Battaglia, S., Romei, V., & Avenanti, A. (2023). Neurophysiological Markers of Premotor–Motor Network Plasticity Predict Motor Performance in Young and Older Adults. *Biomedicine*, 11(5), 1464. <https://doi.org/10.3390/biomedicine11051464>

Turrini, S., Bevacqua, N., Cataneo, A., Chiappini, E., Fiori, F., Candidi, M., & Avenanti, A. (2023). Transcranial cortico-cortical paired associative stimulation (ccPAS) over ventral premotor-motor pathways enhances action performance and corticomotor excitability in young adults more than in elderly adults. *Frontiers in Aging Neuroscience*, 15, 1119508. <https://doi.org/10.3389/fnagi.2023.1119508>

Vitale, F., Urrutia, M., Avenanti, A., & de Vega, M. (2023). You are fired! Exclusion words induce corticospinal modulations associated with vicarious pain. *Social Cognitive and Affective Neuroscience*, 18(1), nsad033. <https://doi.org/10.1093/scan/nsad033>

- Ahumada-Méndez, F., Lucero, B., Avenanti, A., Saracini, C., Muñoz-Quezada, M., Cortés-Rivera, C., & Canales-Johnson, A. (2022). Affective modulation of cognitive control: A systematic review of EEG studies. *Physiology & Behavior*, 249, 113743. <https://doi.org/10.1016/j.physbeh.2022.113743>
- Chiappini, E., Sel, A., Hibbard, P. B., Avenanti, A., & Romei, V. (2022). Increasing interhemispheric connectivity between human visual motion areas uncovers asymmetric sensitivity to horizontal motion. *Current Biology*, 32(18), 4064–4070.e3. <https://doi.org/10.1016/j.cub.2022.07.050>
- Di Gregorio, F., Trajkovic, J., Roperti, C., Marcantoni, E., Di Luzio, P., Avenanti, A., Thut, G., & Romei, V. (2022). Tuning alpha rhythms to shape conscious visual perception. *Current Biology*, 32, 1–11. <https://doi.org/10.1016/j.cub.2022.01.003>
- Lucifora, C., Grasso, G., Nitsche, M., D'Italia, G., Sortino, M., Salehinejad, M., Falzone, A., Avenanti, A. & Vicario, C. (2022). Enhanced fear acquisition in individuals with evening chronotype. A virtual reality fear conditioning/extinction study. *Journal of Affective Disorders*, 311, 344–352. <https://doi.org/10.1016/j.jad.2022.05.033>
- Spaccasassi, C., Zanon, M., Borgomaneri, S. & Avenanti, A. (2022). Mu rhythm and corticospinal excitability capture two different frames of motor resonance: A TMS-EEG co-registration study. *Cortex*, 154, 197–211. <https://doi.org/10.1016/j.cortex.2022.04.019>
- Turrini, S., Fiori, F., Chiappini, E., Santarnecchi, E., Romei, V., & Avenanti, A. (2022). Gradual enhancement of corticomotor excitability during cortico-cortical paired associative stimulation. *Scientific Reports*, 12(1), 14670. <https://doi.org/10.1038/s41598-022-18774-9>
- Vicario, C. M., Turrini, S., Lucifora, C., Culicetto, L., Ferraioli, F., Falzone, A., Nitsche, M. A., & Avenanti, A. (2022). When defeat leaves a bad taste in the mouth: Modulation of tongue corticobulbar output during monetary loss in a gambling task. *Brain Stimulation*, 15(6), 1448–1450. <https://doi.org/10.1016/j.brs.2022.10.010>
- Vicario, C., Nitsche, M., & Avenanti, A. (2022). Tongue motor cortex: The back door of the reward system. *Neuroscience and Biobehavioral Reviews*, 141, 104820. <https://doi.org/10.1016/j.neubiorev.2022.104820>
- Vitale, F., Monti, I., Padrón, I., Avenanti, A., & de Vega, M. (2022). The neural inhibition network is causally involved in the disembodiment effect of linguistic negation. *Cortex*, 147, 72–82. <https://doi.org/10.1016/j.cortex.2021.11.015>
- Borgomaneri, S., Battaglia, S., Avenanti, A., & Pellegrino, G. D. (2021). Don't hurt me no more: State-dependent transcranial magnetic stimulation for the treatment of specific phobia. *Journal of Affective Disorders*, 286, 78–79. <https://doi.org/10.1016/j.jad.2021.02.076>
- Borgomaneri, S., Vitale, F., Battaglia, S., & Avenanti, A. (2021). Early right motor cortex response to happy and fearful facial expressions: A TMS motor-evoked potential study. *Brain Sciences*, 11(9), 1203. <https://doi.org/10.3390/brainsci11091203>
- Botta, A., Lagravinese, G., Bove, M., Avenanti, A., & Avanzino, L. (2021). Modulation of response times during processing of emotional body language. *Frontiers in Psychology*, 12: 616995. <https://doi.org/10.3389/fpsyg.2021.616995>
- Oldrati, V., Finisguerra, A., Avenanti, A., Aglioti, S. M., & Urgesi, C. (2021). Differential influence of the dorsal premotor and primary somatosensory cortex on corticospinal excitability during kinesthetic and visual motor imagery: A low-frequency repetitive transcranial magnetic stimulation study. *Brain Sciences*, 11(9), 1196. <https://doi.org/10.3390/brainsci11091196>
- Borgomaneri, S., Battaglia, S., Garofalo, S., Tortora, F., Avenanti, A., & di Pellegrino, G. (2020). State-dependent TMS over prefrontal cortex disrupts fear-memory reconsolidation and prevents the return of fear. *Current Biology*, 30(18), 3672–3679.e4. <https://doi.org/10.1016/j.cub.2020.06.091>
- Borgomaneri, S., Bolloni, C., Sessa, P., & Avenanti, A. (2020) Blocking facial mimicry affects recognition of facial and body expressions. *PLoS ONE*, 15(2): e0229364. <https://doi.org/10.1371/journal.pone.0229364>
- Borgomaneri, S., Vitale, F., & Avenanti, A. (2020). Early motor reactivity to observed human body postures is affected by body expression, not gender. *Neuropsychologia*, 146, 107541. <https://doi.org/10.1016/j.neuropsychologia.2020.107541>
- Breveglieri, R., Bosco, A., Borgomaneri, S., Tessari, A., Galletti, C., Avenanti, A., & Fattori, P. (2020). Transcranial magnetic stimulation over the human medial posterior parietal cortex disrupts depth encoding during reach planning. *Cerebral Cortex*, bhaa224. <https://doi.org/10.1093/cercor/bhaa224>
- Chiappini, E., Borgomaneri, S., Marangon, M., Turrini, S., Romei, V., & Avenanti, A. (2020). Driving associative plasticity in premotor-motor connections through a novel paired associative stimulation based on long-latency cortico-cortical interactions. *Brain Stimulation*, 13(5), 1461–1463. <https://doi.org/10.1016/j.brs.2020.08.003>

Decroix, J., Borgomaneri, S., Kalénine, S., & Avenanti, A. (2020). State-dependent TMS of inferior frontal and parietal cortices highlights integration of grip configuration and functional goals during action recognition. *Cortex*, 132, 51–62. <https://doi.org/10.1016/j.cortex.2020.08.004>

Vicario, C. M., Rafal, R. D., di Pellegrino, G., Lucifora, C., Salehinejad M. A., Nitsche, M. A., & Avenanti, A. (2020). Indignation for moral violations suppresses the tongue motor cortex: preliminary TMS evidence. *Social Cognitive and Affective Neuroscience*, nsaa036. <https://doi.org/10.1093/scan/nsaa036>

Vitale, F., Padrón, I., Avenanti, A., & de Vega, M. (2021). Enhancing motor brain activity improves memory for action language: A tDCS study. *Cerebral Cortex*, 31(3), 1569-1581. <https://doi.org/10.1093/cercor/bhaa309>

### **355/18 – “The implicit cognition of interpersonal attraction”**

Investigadores/Researchers: Joana Arantes, John Wearden, Mavilde Arantes, Emanuel Albuquerque  
Instituição/Institution: Psychology Research Center - CIPsi, School of Psychology, University of Minho, Braga (Portugal)

Duração/Duration: 2019/05 – 2024/02

#### *Peer-reviewed publications*

Fernandes, N., Soares, S., Arantes, M., & Arantes, J. (2025). Time perception of attractive male faces and voices: The role of women's menstrual cycle. *PLoS One*, 20(4), e0321956. <https://doi.org/10.1371/journal.pone.0321956>

Arantes, J., Pinho, M., Wearden, J., & Albuquerque, P. B. (2021). "Time slows down whenever you are around" for women but not for men. *Frontiers in Psychology*, 12, 641729. <https://doi.org/10.3389/fpsyg.2021.641729>

### **356/18 – “Neural mechanisms underlying unconscious working memory”**

Investigadores/Researchers: Albert Compte, João Barbosa, Josep Valls-Solé

Instituição/Institution: Institut d'investigacions Biomèdiques August Pi i Sunyer - IDIBAPS, Barcelona (Spain)

Duração/Duration: 2019/05 – 2021/09

#### *Peer-reviewed publications*

Pagnotta, M. F., Santo-Angles, A., Temudo, A., Barbosa, J., Compte, A., D'Esposito, M., & Sreenivasan, K. K. (2026). Alpha phase coding supports feature binding during working memory maintenance. *Communications Biology*, 9, Article 922. <https://doi.org/10.1038/s42003-026-10071-9>

Barbosa, J., Stein, H., Zorowitz, S., Niv, Y., Summerfield, C., Soto-Faraco, S., & Hyafil, A. (2022). A practical guide for studying human behavior in the lab. *Behavior Research Methods*, 55(1), 58–76. <https://doi.org/10.3758/s13428-022-01793-9>

Barbosa, J., Lozano-Soldevilla, D., & Compte, A. (2021). Pinging the brain with visual impulses reveals electrically active, not activity-silent working memories. *PLoS Biology*, 19(10): e3001436. <https://doi.org/10.1371/journal.pbio.3001436>

Barbosa, J., Babushkin, V., Temudo, A., Sreenivasan, K. K., & Compte, A. (2021). Across-area synchronization supports feature integration in a biophysical network model of working memory. *Frontiers in Neural Circuits*, 15, 716965. <https://doi.org/10.3389/fncir.2021.716965>

Barbosa, J., & Compte, A. (2020). Build-up of serial dependence in color working memory. *Scientific Reports*, 10: 10959. <https://doi.org/10.1038/s41598-020-67861-2>

Barbosa, J., Stein, H., Martínez, R. L., Galan-Gadea, A., Li, S., Dalmau, J., ... Compte, A. (2020). Interplay between persistent activity and activity-silent dynamics in the prefrontal cortex underlies serial biases in working memory. *Nature Neuroscience*, 23, 1016-1024. <https://doi.org/10.1038/s41593-020-0644-4>

Stein, H., Barbosa, J., Rosa-Justicia, M., Prades, L., Morató, A., Galan-Gadea, A., Ariño, H., Martínez-Hernández, E., Castro-Fornieles, J., Dalmau, J., & Compte, A. (2020). Reduced serial dependence suggests deficits in synaptic potentiation in anti-NMDAR encephalitis and schizophrenia. *Nature communications*, 11: 4250. <https://doi.org/10.1038/s41467-020-18033-3>

**359/18 – “A Comparison of NN-DMT, Changa & 5-MeO-DMT and the Near-death Experience: Qualitative analyses and reviews of the neuroscience”**

Investigadores/Researchers: Pascal Michael, David Luke

Instituição/Institution: Department of Psychology, Social Work and Counselling, Greenwich University, London (UK); Psychedelic Research Group, Imperial College London (UK)

Duração/Duration: 2020/01 – 2024/05

*Peer-reviewed publications*

Michael, P., Luke, D., & Robinson, O. (2025). An encounter with death: a comparative thematic and content analysis of naturalistic DMT experiences and the near-death experience. *Frontiers in Psychology*, 16, 1532937. <https://doi.org/10.3389/fpsyg.2025.1532937>

Michael, P., Luke, D., & Robinson, O. (2024). Smokable "Vine of the Dead": Two case studies of experiencers of both Changa and near-death experiences. *International Journal of Transpersonal Studies*, 43(1). <https://doi.org/10.24972/ijts.2024.43.1-2.1>

Michael, P., Luke, D., & Robinson, O. (2023). This is your brain on death: a comparative analysis of a near-death experience and subsequent 5-Methoxy-DMT experience. *Frontiers in Psychology*, 14, 1083361. <https://doi.org/10.3389/fpsyg.2023.1083361>

Michael, P., Luke, D., & Robinson, O. (2021). An encounter with the other: A thematic and content analysis of DMT experiences from a naturalistic field study. *Frontiers in Psychology*, 12, 720717. <https://doi.org/10.3389/fpsyg.2021.720717>

Michael, P., Luke, D., & Robinson, O. (2023). An encounter with the self: A thematic and content analysis of the DMT experience from a naturalistic field study. *Frontiers in Psychology*, 14, 1083356. <https://doi.org/10.3389/fpsyg.2023.1083356>

**361/18 – “When style matters: Do oculomotor fingerprint and brain dynamics explain visual exploration and memory strategies?”**

Investigadores/Researchers: Maurizio Corbetta, Andrea Zangrossi

Instituição/Institution: Venetian Institute of Molecular Medicine - VIMM, Fondazione per la Ricerca Biomedica Avanzata, Padova (Italy); Padova Neuroscience Center – PNC, Università di Padova (Italy)

Duração/Duration: 2019/04 – 2023/11

*Peer-reviewed publications*

Campagnolo, M., Fiorenzato, E., Musso, G., Misenti, V., Cauzzo, S., Cagnin, A., Biundo, R., Bussè, C., Fogliano, C., Mozzetta, S., Codemo, A., Gasparoli, E., Moz, S., Narici, M., Pizzo, P., Corbetta, M., Montagnana, M., & Antonini, A. (2025). The role of blood-based biomarkers in Parkinsonian disorders, Alzheimer's disease and frontotemporal dementia. *Journal of the Neurological Sciences*, 476, 123617. <https://doi.org/10.1016/j.jns.2025.123617>

Celli, M., Cona, G., Volpi, T., Tronelli, V., Zangrossi, A., & Corbetta, M. (2025). Predicting visual object memory through natural eye movement topography. *Scientific Reports*, 15(1), 43606. <https://doi.org/10.1038/s41598-025-27312-2>

Pini, L., Brusini, L., Griffa, A., Cruciani, F., Allali, G., Frisoni, G. B., Corbetta, M., Menegaz, G., Boscolo Galazzo, I., & Alzheimer's Disease Neuroimaging Initiative. (2025). Functional dynamic network connectivity differentiates biological patterns in the Alzheimer's disease continuum. *Neurobiology of Disease*, 208, 106866. <https://doi.org/10.1016/j.nbd.2025.106866>

Zhang, L., Pini, L., Shulman, G. L., & Corbetta, M. (2025). Brain-wide dynamic coactivation states code for hand movements in the resting state. *Proceedings of the National Academy of Sciences of the United States of America*, 122(11), e2415508122. <https://doi.org/10.1073/pnas.2415508122>

Idesis, S., Allegra, M., Vohryzek, J., Perl, Y. S., Metcalf, N. V., Griffis, J. C., Corbetta, M., Shulman, G. L., & Deco, G. (2024). Generative whole-brain dynamics models from healthy subjects predict functional alterations in stroke at the level of individual patients. *Brain Communications*, 6(4), fcae237. <https://doi.org/10.1093/braincomms/fcae237>

Manjunatha, K. K. H., Baron, G., Benozzo, D., Silvestri, E., Corbetta, M., Chiuso, A., Bertoldo, A., Suweis, S., & Allegra, M. (2024). Controlling target brain regions by optimal selection of input nodes. *PLoS Computational Biology*, 20(1), e1011274. <https://doi.org/10.1371/journal.pcbi.1011274>

Massimini, M., Corbetta, M., Sanchez-Vives, M. V., Andrillon, T., Deco, G., Rosanova, M., & Sarasso, S. (2024). Sleep-like cortical dynamics during wakefulness and their network effects following brain injury. *Nature Communications*, 15, 7207. <https://doi.org/10.1038/s41467-024-51586-1>

Bisogno, A. L., Franco Novelletto, L., Zangrossi, A., De Pellegrin, S., Facchini, S., Basile, A. M., Baracchini, C., & Corbetta, M. (2023). The Oxford cognitive screen (OCS) as an acute predictor of long-term functional outcome in a prospective sample of stroke patients. *Cortex*, 166, 33-42. <https://doi.org/10.1016/j.cortex.2023.04.015>



- Facchini, S., Favaretto, C., Castellaro, M., Zangrossi, A., Zannin, M., Bisogno, A. L., Baro, V., Anglani, M. G., Vallesi, A., Baracchini, C., D'Avella, D., Della Puppa, A., Semenza, C., & Corbetta, M. (2023). A common low dimensional structure of cognitive impairment in stroke and brain tumors. *NeuroImage: Clinical*, 40, 103518. <https://doi.org/10.1016/j.nicl.2023.103518>
- Monai, E., Pini, L., Palacino, F., Bisio, M., Bernocchi, F., Salvalaggio, A., & Corbetta, M. (2023). Convergence of visual and motor awareness in human parietal cortex. *Annals of Neurology*, 95(1), 90–103. <https://doi.org/10.1002/ana.26791>
- Monai, E., Silvestri, E., Bisio, M., Cagnin, A., Aiello, M., Cecchin, D., Bertoldo, A., & Corbetta, M. (2023). Case report: Multiple disconnection patterns revealed by a multi-modal analysis explained behavior after a focal frontal damage. *Frontiers in Neurology*, 14, 1142734. <https://doi.org/10.3389/fneur.2023.1142734>
- Murphy, D., Cornfield, E., Higginson, A., Norman, A., Long, R., & Noad, R. (2023). Oxford cognitive screen: A critical review and independent psychometric evaluation. *Journal of Neuropsychology*, 17(3), 491–504. <https://doi.org/10.1111/jnp.12318>
- Pini, L., Bisogno, A. L., Salvalaggio, A., Shulman, G. L., & Corbetta, M. (2023). The correlation of behavioural deficits post-stroke: A trivial issue? *Brain*, 146(10), e83–e85. <https://doi.org/10.1093/brain/awad173>
- Pini, L., Salvalaggio, A., Wennberg, A. M., Dimakou, A., Matteoli, M., & Corbetta, M. (2023). The pollutome-connectome axis: A putative mechanism to explain pollution effects on neurodegeneration. *Ageing Research Reviews*, 86, 101867. <https://doi.org/10.1016/j.arr.2023.101867>
- Salvalaggio, A., Pini, L., Gaiola, M., Velco, A., Sansone, G., Anglani, M., Fekonja, L., Chioffi, F., Picht, T., Thiebaut de Schotten, M., Zagonel, V., Lombardi, G., D'Avella, D., & Corbetta, M. (2023). White Matter Tract Density Index Prediction Model of Overall Survival in Glioblastoma. *JAMA Neurology*, 80(11), 1222–1231. <https://doi.org/10.1001/jamaneurol.2023.3284>
- Sansone, G., Pini, L., Salvalaggio, A., Gaiola, M., Volpin, F., Baro, V., Padovan, M., Anglani, M., Facchini, S., Chioffi, F., Zagonel, V., D'Avella, D., Denaro, L., Lombardi, G., & Corbetta, M. (2023). Patterns of gray and white matter functional networks involvement in glioblastoma patients: indirect mapping from clinical MRI scans. *Frontiers in Neurology*, 14, 1175576. <https://doi.org/10.3389/fneur.2023.1175576>
- Zhang, L., Pini, L., & Corbetta, M. (2023). Different MRI structural processing methods do not impact functional connectivity computation. *Scientific Reports*, 13(1), 8589. <https://doi.org/10.1038/s41598-023-34645-3>
- Zhang, L., Pini, L., Kim, D., Shulman, G. L., & Corbetta, M. (2023). Spontaneous activity patterns in human attention networks code for hand movements. *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience*, 43(11), 1976–1986. <https://doi.org/10.1523/JNEUROSCI.1601-22.2023>
- Alves, P. N., Forkel, S. J., Corbetta, M., & Thiebaut de Schotten, M. (2022). The subcortical and neurochemical organization of the ventral and dorsal attention networks. *Communications Biology*, 5(1), 1343. <https://doi.org/10.1038/s42003-022-04281-0>
- Celli, M., Mazzonetto, I., Zangrossi, A., Bertoldo, A., Cona, G., & Corbetta, M. (2022). One-year-later spontaneous EEG features predict visual exploratory human phenotypes. *Communications Biology*, 5(1), 1361. <https://doi.org/10.1038/s42003-022-04294-9>
- Idesis, S., Faskowitz, J., Betzel, R., Corbetta, M., Sporns, O., & Deco, G. (2022). Edge-centric analysis of stroke patients. An alternative approach for biomarkers of lesion recovery. *NeuroImage: Clinical*, 35, 103055. <https://doi.org/10.1016/j.nicl.2022.103055>
- Idesis, S., Favaretto, C., Metcalf, N. V., Griffis, J. C., Shulman, G. L., Corbetta, M., & Deco, G. (2022). Inferring the dynamical effects of stroke lesions through whole-brain modeling. *NeuroImage: Clinical*, 36, 103233. <https://doi.org/10.1016/j.nicl.2022.103233>
- Liven, T., Kim, D., Metcalf, N., Zhang, L., Pini, L., Shulman, G., & Corbetta, M. (2022). Spontaneous activity patterns in human motor cortex replay evoked activity patterns for hand movements. *Scientific Reports*, 12(1), 16867. <https://doi.org/10.1038/s41598-022-20866-5>
- Siegel, J. S., Shulman, G. L., & Corbetta, M. (2022). Mapping correlated neurological deficits after stroke to distributed brain networks. *Brain Structure and Function*, 227(9), 3173–3187. <https://doi.org/10.1007/s00429-022-02525-7>
- Zangrossi, A., Silvestri, E., Bisio, M., Bertoldo, A., De Pellegrin, S., Vallesi, A., Della Puppa, A., D'Avella, D., Denaro, L., Scienza, R., Mondini, S., Semenza, C., & Corbetta, M. (2022). Presurgical predictors of early cognitive outcome after brain tumor resection in glioma patients. *NeuroImage: Clinical*, 36, 103219. <https://doi.org/10.1016/j.nicl.2022.103219>
- Bisogno, A. L., Favaretto, C., Zangrossi, A., Monai, E., Facchini, S., De Pellegrin, S., Pini, L., Castellaro, M., Basile, A. M., Baracchini, C., & Corbetta, M. (2021). A low-dimensional structure of neurological impairment in stroke. *Brain Communications*, 3(2), fcab119. <https://doi.org/10.1093/braincomms/fcab119>

Pezzulo, G., Zorzi, M., & Corbetta, M. (2021). The secret life of predictive brains: What's spontaneous activity for? *Trends in Cognitive Sciences*, 25(9), 730–743. <https://doi.org/10.1016/j.tics.2021.05.007>

Pini, L., Salvalaggio, A., de Grazia, M., Zorzi, M., de Schotten, M. & Corbetta, M. (2021). A novel stroke lesion network mapping approach: Improved accuracy yet still low deficit prediction. *Brain Communications*, 3(4), fcab259. <https://doi.org/10.1093/braincomms/fcab259>

Pini, L., Wennberg, A. M., Salvalaggio, A., Vallesi, A., Pievani, M., & Corbetta, M. (2021). Breakdown of specific functional brain networks in clinical variants of Alzheimer's disease. *Ageing Research Reviews*, 72: 101482. <https://doi.org/10.1016/j.arr.2021.101482>

Zangrossi, A., Cona, G., Celli, M., Zorzi, M., & Corbetta, M. (2021). Visual exploration dynamics are low-dimensional and driven by intrinsic factors. *Communications Biology*, 4: 1100. <https://doi.org/10.1038/s42003-021-02608-x>

Betti, V., Penna, S. D., de Pasquale, F., & Corbetta, M. (2020). Spontaneous beta band rhythms in the predictive coding of natural stimuli. *The Neuroscientist*, 27(2), 184–201. <https://doi.org/10.1177/1073858420928988>

### **366/18 – “Transpersonal imagery and bereavement: The psychomanteum and virtual reality”**

Investigadores/Researchers: Marilyn Schlitz, Dorote Lucci, Donna Dulo, Kelly Yi, Lincoln Nguyen

Instituição/Institution: Institute of Transpersonal Psychology Foundation, Palo Alto, California (USA); Sofia University, Palo Alto, California (USA)

Duração/Duration: 2021/05 – 2024/09

#### *Peer-reviewed publications*

Schlitz, M., Lucci, D., Thompson, J., Tarrant, J., Guem, S., Patel, A., Zvan, P., & Olmstead, E. (2025). From grief to growth: Uniting ancient wisdom and cutting-edge technology to probe grief and absorption in the psychomanteum. *Journal of Management, Spirituality & Religion*, 22(6), 639–666. <https://doi.org/10.51327/UKBH5231>



## Apoios à Investigação Científica 2020/21 | Grants for Scientific Research 2020/21

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 24/20 – “World-relative object motion: How the brain detects object motion while we are moving”

Investigador/Researcher: Valentina Sulpizio

Instituição/Institution: IRCCS Fondazione Santa Lucia, Rome (Italy)

Duração/Duration: 2021/10 – 2024/01

Peer-reviewed publications

Sulpizio, V., von Gal, A., Galati, G., Fattori, P., Galletti, C., & Pitzalis, S. (2024). Neural sensitivity to translational self- and object-motion velocities. *Human Brain Mapping*, 45(1), e26571. <https://doi.org/10.1002/hbm.26571>

### 26/20 – “Anticipation and experience of stressful situations and their psychobiological impact on providing pre-hospital emergency medicine care”

Investigadores/Researchers: Mark Wetherell, Jeff Doran

Instituição/Institution: Department of Psychology, Northumbria University Newcastle (UK); Great North Air Ambulance Service (UK)

Duração/Duration: 2021/09 – 2024/10

Peer-reviewed publications

Wetherell, M. A., Williams, G., & Doran, J. (2024). Assessing the psychobiological demands of high-fidelity training in pre-hospital emergency medicine. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 32, 101. <https://doi.org/10.1186/s13049-024-01272-4>

### 30/20 – “Exploring the role of ‘Enchantment’ in psi phenomena”

Investigadores/Researchers: Rense Lange, James Houran

Instituição/Institution: Integrated Knowledge Systems – IKS, Chatham (USA); ISLA – Instituto Politécnico de Gestão e Tecnologia, Vila Nova de Gaia (Portugal)

Duração/Duration: 2021/06 – 2022/09

Peer-reviewed publications

Houran, J., Laythe, B., Lange, R., Hanks, M., & Ironside, R. (2023). Immersive study of Gestalt variables in uncanny geographies. *Journal of the Society for Psychical Research*, 87, 65-100.

Lange, R., Laythe, B., & Houran, J. (2023). Preregistered field test of an ‘enchantment-psi’ loop. *Journal of Parapsychology*, 87, 11-34. <https://doi.org/10.30891/jopar.2023.01.03>

Lange, R., & Houran, J. (2021). Replicable survey evidence for a ‘psi-enchantment’ loop. *Journal of Transpersonal Psychology*, 53, 140-156.

Laythe, B., Houran, J., Lange, R., & Boussoffara, M. A. (2021). A ‘multi-event sensor app’ (MESA 3.0) for environmental studies of exceptional human experiences. *Australian Journal of Parapsychology*, 21, 128-162.

### 34/20 – “What mechanisms and computations does the brain use to solve complex decision problems?”

Investigador/Researcher: Nicholas Furl

Instituição/Institution: Department of Psychology, Royal Holloway University of London, Egham (UK)

Duração/Duration: 2021/07 – 2026/09

Peer-reviewed publications

Dimitriadou, C., & Furl, N. (2026). From sampling to stopping: The P300 ERP component and beta power contribute to reward-related decision commitments. *Neuropsychologia*, 231, Article 109551. <https://doi.org/10.1016/j.neuropsychologia.2026.109551>

### 36/20 – “The role of non-verbal behaviour on placebo and nocebo effects. Psychophysiological experiments”

Investigadores/Researchers: Magne Arve Flaten, Hojjat Daniali, Per Aslaksen, Ted Kaptchuk, Mollie Ruben  
Instituição/Institution: Department of Psychology, Norwegian University of Science and Technology, Trondheim (Norway); University of Tromsø (Norway); Harvard Medical School, Boston (USA)

Duração/Duration: 2021/02 – 2024/11

#### Peer-reviewed publications

Daniali, H., Hunsbeth, P. L., & Flaten, M. A. (2024). Effects of open and hidden administration of treatment-related information; A multi-experiment study. *Psychology & Health*, 1–29. <https://doi.org/10.1080/08870446.2024.2392820>

Daniali, H., Ruben, M. A., Aslaksen, P. M., Fiskum, C., Kaptchuk, T. J., & Flaten, M. A. (2024). The effect of singular nonverbal behaviours of experimenters on pain reports. *Journal of Pain Research*, 17, 1345–1360. <https://doi.org/10.2147/jpr.s449150>

Daniali, H., Martinussen, M., & Flaten, M. A. (2023). A global meta-analysis of depression, anxiety, and stress before and during COVID-19. *Health Psychology*, 42(2), 124–138. <https://doi.org/10.1037/hea0001259>

Daniali, H., Ruben, M. A., & Flaten, M. A. (2023). Systematic manipulation of experimenters' non-verbal behaviors for the investigation of pain reports and placebo effects. *Frontiers in Psychology*, 14, 1248127. <https://doi.org/10.3389/fpsyg.2023.1248127>

### 41/20 – “Luminous dancing fairies in weightlessness: How gravity shapes conscious experiences”

Investigador/Researcher: Elisa Ferrè

Instituição/Institution: Department of Psychological Sciences, Birkbeck, University of London (UK)

Duração prevista/Estimated duration: 2021/12 – 2026/08

#### Peer-reviewed publications

Nezami, A., & Ferre, E. R. (2026). Space Oddity: microgravity as a neurocognitive catalyst for transformative consciousness experiences. *Frontiers in Psychology*, 17, 1769177. <https://doi.org/10.3389/fpsyg.2026.1769177>

Cadete, D., Marino, V. P., Ferrè, E. R., & Longo, M. R. (2025). Perceived hand size and perceived hand weight. *Cognition*, 254, 105998. <https://doi.org/10.1016/j.cognition.2024.105998>

Cadete, D., Young, P., Hallett, B., Ferrè, E. R., & Longo, M. R. (2025). Underestimation of human hand density. *Cortex*, 189, 140–147. <https://doi.org/10.1016/j.cortex.2025.05.015>

Schoenmaekers, C., Wuyts, F. L., & Ferre, E. R. (2025). Integrating vestibular and visual cues for verticality perception. *Experimental Brain Research*, 243(2), 49. <https://doi.org/10.1007/s00221-024-06992-8>

Arshad, I., Gallagher, M., & Ferrè, E. R. (2023). Visuo-vestibular conflicts within the roll plane modulate multisensory verticality perception. *Neuroscience Letters*, 792, 136963. <https://doi.org/10.1016/j.neulet.2022.136963>

Bliss, L., Vasas, V., Freeland, L., Roach, R., Ferrè, E. R., & Versace, E. (2023). A spontaneous gravity prior: Newborn chicks prefer stimuli that move against gravity. *Biology Letters*, 19(2), 20220502. <https://doi.org/10.1098/rsbl.2022.0502>

Ferrè, E. R., Joel, J., Cadete, D., & Longo, M. R. (2023). Systematic underestimation of human hand weight. *Current Biology*, 33(14), R758–R759. <https://doi.org/10.1016/j.cub.2023.05.041>

Zanchi, S., Cuturi, L. F., Sandini, G., Gori, M., & Ferrè, E. R. (2023). Spatial sensory references for vestibular self-motion perception. *Multisensory Research*, 37(1), 75–88. <https://doi.org/10.1163/22134808-bja10117>

Zanchi, S., Cuturi, L. F., Sandini, G., Gori, M., & Ferrè, E. R. (2023). Vestibular contribution to spatial encoding. *The European Journal of Neuroscience*, 58(9), 4034–4042. <https://doi.org/10.1111/ejn.16146>

Arshad, I. & Ferrè, E. (2022). Cognition in zero gravity: Effects of non-terrestrial gravity on human behaviour. *Quarterly Journal of Experimental Psychology*, 76(5), 979–994. <https://doi.org/10.1177/17470218221113935>



#### 47/20 – “Fear in action: How Pavlovian fear learning shapes goal-directed motor responses”

Investigadores/Researchers: Francesca Starita, Giuseppe di Pellegrino

Instituição/Institution: Centre for Studies and Research in Cognitive Neuroscience – CsrNC, Department of Psychology, University of Bologna (Italy)

Duração/Duration: 2021/03 – 2024/03

##### Peer-reviewed publications

Di Gregorio, F., Betti, S., Dalbagno, D., Mannari, V., di Pellegrino, G., & Starita, F. (2026). Predictive encoding of pain location in the motor system indexed by somatomotor alpha and corticospinal excitability. *NeuroImage*, 332, 121909. <https://doi.org/10.1016/j.neuroimage.2026.121909>

Dalbagno, D., Betti, S., Garofalo, S., Mannari, V., di Pellegrino, G., & Starita, F. (2025). Learning the time of pain in the human motor system. *PAIN*, 166(12), e715–e731. <https://doi.org/10.1097/j.pain.0000000000003730>

Finotti, G., Degni, L. A. E., Badioli, M., Dalbagno, D., Starita, F., Bardi, L., Huang, Y., Wei, J., Sirigu, A., Gazzola, V., di Pellegrino, G., & Garofalo, S. (2025). Cortical beta power reflects the influence of Pavlovian cues on human decision-making. *The Journal of Neuroscience*, 45(6), e0414242024. <https://doi.org/10.1523/JNEUROSCI.0414-24.2024>

Betti, S., Badioli, M., Dalbagno, D., Garofalo, S., di Pellegrino, G., & Starita, F. (2024). Topographically selective motor inhibition under threat of pain. *Pain*, 165(12), 2851–2862. <https://doi.org/10.1097/j.pain.0000000000003301>

Degni, L. A. E., Garofalo, S., Finotti, G., Starita, F., Robbins, T. W., & di Pellegrino, G. (2024). Sex differences in motivational biases over instrumental actions. *npj Science of Learning*, 9, 62. <https://doi.org/10.1038/s41539-024-00246-6>

Marzuki, A. A., Banca, P., Garofalo, S., Degni, L. A. E., Dalbagno, D., Badioli, M., Sule, A., Kaser, M., Conway-Morris, A., Sahakian, B. J., & Robbins, T. W. (2024). Compulsive avoidance in youths and adults with OCD: An aversive pavlovian-to-instrumental transfer study. *Translational Psychiatry*, 14(1), 308. <https://doi.org/10.1038/s41398-024-03028-1>

Starita, F., Stussi, Y., Garofalo, S., & Terenzi, D. (2024). Editorial: The neurobiological and cognitive underpinnings of appetitive and aversive motivation. *Frontiers in Behavioral Neuroscience*, 18, 1383393. <https://doi.org/10.3389/fnbeh.2024.1383393>

Pirazzini, G., Starita, F., Ricci, G., Garofalo, S., Di Pellegrino, G., Magosso, E., & Ursino, M. (2023). Changes in brain rhythms and connectivity tracking fear acquisition and reversal. *Brain Structure & Function*, 228(5), 1259–1281. <https://doi.org/10.1007/s00429-023-02646-7>

Starita, F., Stussi, Y., Garofalo, S., & di Pellegrino, G. (2023). Threat learning in space: How stimulus-outcome spatial compatibility modulates conditioned skin conductance response. *International Journal of Psychophysiology*, 190, 30–41. <https://doi.org/10.1016/j.ijpsycho.2023.06.003>

Degni, L. a. E., Dalbagno, D., Starita, F., Benassi, M., Di Pellegrino, G., & Garofalo, S. (2022). General Pavlovian-to-instrumental transfer in humans: Evidence from Bayesian inference. *Frontiers in Behavioral Neuroscience*, 16, 945503. <https://doi.org/10.3389/fnbeh.2022.945503>

Starita, F., Garofalo, S., Dalbagno, D., Degni, L. a. E., & Di Pellegrino, G. (2022). Pavlovian threat learning shapes the kinematics of action. *Frontiers in Psychology*, 13, 1005656. <https://doi.org/10.3389/fpsyg.2022.1005656>

Starita, F., Pirazzini, G., Ricci, G., Garofalo, S., Dalbagno, D., Degni, L. A. E., Di Pellegrino, G., Magosso, E., & Ursino, M. (2023). Theta and alpha power track the acquisition and reversal of threat predictions and correlate with skin conductance response. *Psychophysiology*, 60(7), e14247. <https://doi.org/10.1111/psyp.14247>

Sellitto, M., Terenzi, D., Starita, F., Di Pellegrino, G., & Battaglia, S. (2022). The cost of imagined actions in a reward-valuation task. *Brain Sciences*, 12(5), 582. <https://doi.org/10.3390/brainsci12050582>

#### 48/20 – “Investigating the relationship between sensory processing sensitivity (SPS), anomalous experiences, and precognitive performance”

Investigadores/Researchers: Elizabeth Roxburgh, David Vernon, Malcolm Schofield

Instituição/Institution: Psychology Department, Canterbury Christ Church University (UK); University of Derby (UK)

Duração/Duration: 2021/12 – 2025/06

##### Peer-reviewed publications

Roxburgh, E. C., Vernon, D., & Schofield, M. B. (2024). Sensory processing sensitivity, transliminality, and boundary-thinness as predictors of anomalous experiences, beliefs, and abilities. *Current Psychology*, 43, 30098–30106. <https://doi.org/10.1007/s12144-024-06619-9>

Vernon, D., Roxburgh, E. C., & Schofield, M. B. (2024). Testing home dream precognition and exploring links to psychological factors. *International Journal of Dream Research*, 17(2), 148–156. <https://doi.org/10.11588/ijodr.2024.2.100871>

### 73/20 – “Cerebrovascular hypothesis of stress-induced behavioral alterations”

Investigadores/Researchers: Ana Paula Silva, Filipa Baptista, Ana Rita Gaspar, Ricardo Leitão, Catarina Gomes

Instituição/Institution: Centre for Innovative Biomedicine and Biotechnology - CIBB, Faculty of Medicine, University of Coimbra (Portugal)

Duração/Duration: 2021/09 – 2025/07

#### Peer-reviewed publications

Sanches, E. S., Simões, D., Baptista, F. I., & Silva, A. P. (2025). Neurovascular dysfunction in psychiatric disorders: Underlying mechanisms and therapeutic approaches. *European Journal of Clinical Investigation*, 55(1), e14319. <https://doi.org/10.1111/eci.14319>

Simões, D. M., Carreira, J., Henriques, A., Gaspar, R., Sanches, E. S., Baptista, F. I., & Silva, A. P. (2025). Distinct behavioural and neurovascular signatures induced by acute and chronic stress in rats. *Behavioural Brain Research*, 493, 115706. <https://doi.org/10.1016/j.bbr.2025.115706>

### 74/20 – “The social code in cingulate-hippocampal circuits: The role of memory in social contests”

Investigadores/Researchers: Emanuel Fernandes, João Peça, Carolina Kunicki, Joana Guedes, Ana Cardoso

Instituição/Institution: Center for Neuroscience and Cell Biology, University of Coimbra (Portugal)

Duração/Duration: 2021/02 – 2024/09

#### Peer-reviewed publications

Ferreira-Fernandes, E., Laranjo, M., Reis, T., Canijo, B., Ferreira, P. A., Martins, P., Vilarinho, J., Tavakoli, M., Kunicki, C., & Peça, J. (2023). In vivo recordings in freely behaving mice using independent silicon probes targeting multiple brain regions. *Frontiers in Neural Circuits*, 17, 1293620. <https://doi.org/10.3389/fncir.2023.1293620>

Ferreira-Fernandes, E. & Peça, J. (2022). The neural circuit architecture of social hierarchy in rodents and primates. *Frontiers in Cellular Neuroscience*, 16, 874310. <https://doi.org/10.3389/fncel.2022.874310>

### 75/20 – “Psychophysiology of highly superior autobiographical memory: Shedding light on the mind of people who never forget”

Investigadores/Researchers: Valerio Santangelo, Sabrina Fagioli

Instituição/Institution: Department of Philosophy, Social Sciences & Education, University of Perugia (Italy); Roma Tre University (Italy)

Duração/Duration: 2021/09 – 2026/05

#### Peer-reviewed publications

Pedale, T., Van der Lubbe, R., Daviddi, S., Parente, F., Cipriani, I., Campolongo, P., Fagioli, S., & Santangelo, V. (2026). Modulation of midfrontal theta and posterior alpha during the construction and elaboration of autobiographical memories in individuals with highly superior autobiographical memory. *Neuropsychologia*, 227, Article 109444. <https://doi.org/10.1016/j.neuropsychologia.2026.109444>

Daviddi, S., Yaya, G., Sperduti, M., & Santangelo, V. (2024). A systematic review and meta-analysis of the neural correlates of direct vs. generative retrieval of episodic autobiographical memory. *Neuropsychology Review*, 35(4), 710–730. <https://doi.org/10.1007/s11065-024-09653-3>

Daviddi, S., Mastroberardino, S., St Jacques, P. L., Schacter, D. L., & Santangelo, V. (2022). Remembering a virtual museum tour: Viewing time, memory reactivation, and memory distortion. *Frontiers in Psychology*, 13, 869336. <https://doi.org/10.3389/fpsyg.2022.869336>

Daviddi, S., Orwig, W., Palmiero, M., Campolongo, P., Schacter, D. L., & Santangelo, V. (2022). Individuals with highly superior autobiographical memory do not show enhanced creative thinking. *Memory*, 30(9), 1148–1157. <https://doi.org/10.1080/09658211.2022.2094416>

Santangelo, V. (2022). On the contribution of the ventromedial prefrontal cortex to the neural representation of past memories. *Cognitive Neuroscience*, 13(3-4), 154-155. <https://doi.org/10.1080/17588928.2022.2076072>

Santangelo, V., Macrì, S., & Campolongo, P. (2022). Superior memory as a new perspective to tackle memory loss. *Neuroscience and Biobehavioral Reviews*, 141, 104828. <https://doi.org/10.1016/j.neubiorev.2022.104828>

**79/20 – “Redefining the boundaries between cognition and action through the psychophysiological investigation of binary decisions”**

Investigadores/Researchers: Michele Scaltritti, Simone Sulpizio

Instituição/Institution: Department of Psychology and Cognitive Science, University of Trento, Rovereto (Italy); Università degli Studi di Milano-Bicocca (Italy)

Duração/Duration: 2021/02 – 2023/09

*Peer-reviewed publications*

Scaltritti, M., Giacomoni, F., Job, R., & Sulpizio, S. (2023). Redefining the decisional components of motor responses: Evidence from lexical and object decision tasks. *Journal of Experimental Psychology: Human Perception and Performance*, 49(6), 835-851. <https://doi.org/10.1037/xhp0001113>

Scaltritti, M., Greatti, E., & Sulpizio, S. (2023). Electrophysiological evidence of discontinuities in the propagation of lexical decision processes across the motor hierarchy. *Neuropsychologia*, 188, 108630. <https://doi.org/10.1016/j.neuropsychologia.2023.108630>

**80/20 – “Mindfulness meditation state and trait through the eyes of brain computational modelling”**

Investigadores/Researchers: Laura Marzetti

Instituição/Institution: Department of Neurosciences, Imaging and Clinical Sciences, Università degli Studi G. d'Annunzio Chieti – Pescara (Italy)

Duração/Duration: 2021/10 – 2025/10

*Peer-reviewed publications*

Freddi, R., Cicala, F., Marzetti, L., & Basti, A. (2025). A mean-field approach to criticality in spiking neural networks for reservoir computing. *Scientific Reports*, 15(1), 34709. <https://doi.org/10.1038/s41598-025-18004-y>

D'Andrea, A., Croce, P., O'Byrne, J., Jerbi, K., Pascarella, A., Raffone, A., Pizzella, V., & Marzetti, L. (2024). Mindfulness meditation styles differently modulate source-level MEG microstate dynamics and complexity. *Frontiers in Neuroscience*, 18, 1295615. <https://doi.org/10.3389/fnins.2024.1295615>

Guidotti, R., D'Andrea, A., Basti, A., Raffone, A., Pizzella, V., & Marzetti, L. (2023). Long-term and meditation-specific modulations of brain connectivity revealed through multivariate pattern analysis. *Brain Topography*, 36(3), 409-418. <https://doi.org/10.1007/s10548-023-00950-3>

Basti, A., Chella, F., Guidotti, R., Ermolova, M., D'Andrea, A., Stenroos, M., ... Marzetti, L. (2022). Looking through the windows: A study about the dependency of phase-coupling estimates on the data length. *Journal of Neural Engineering*, 19(1). <https://doi.org/10.1088/1741-2552/ac542f>

D'Andrea, A., Basti, A., Tosoni, A., Guidotti, R., Chella, F., Michelmann, S., Romani, G. L., Pizzella, V., & Marzetti, L. (2022). Magnetoencephalographic spectral fingerprints differentiate evidence accumulation from saccadic motor preparation in perceptual decision-making. *iScience*, 25(10), 105246. <https://doi.org/10.1016/j.isci.2022.105246>

**86/20 – “Age-related changes in motor-cognitive dual-tasking: An electrophysiological investigation of interference at the level of sub-task elements”**

Investigadores/Researchers: Subhobrata Mitra, Christina Howard

Instituição/Institution: Psychology Department, Nottingham Trent University (UK)

Duração/Duration: 2021/10 – 2024/05

*Peer-reviewed publications*

Mitra, S., Boatman, C., & Baker, J. (2022). Age-related changes in the interference between cognitive task components and concurrent sensorimotor coordination. *Brain Research*, 1790, 147985. <https://doi.org/10.1016/j.brainres.2022.147985>

**91/20 – “Mentation report analysis across distinct states of consciousness: A linguistic approach”**

Investigadores/Researchers: Giulio Bernardi, Giulia Avvenuti, Michele Bellesi, Valentina Elce, Emanuela Merelli

Instituição/Institution: IMT School for Advanced Studies, Lucca (Italy); University of Camerino (Italy)

Duração/Duration: 2021/02 – 2024/02

*Peer-reviewed publications*

Elce, V., Bontempi, G., Scarpelli, S., Pedreschi, B., Pietrini, P., De Gennaro, L., Bellesi, M., Bernardi, G., & Handjaras, G. (2026). Individual traits and experiences predict the content of dreams. *Communications Psychology*, 4(1), 69. <https://doi.org/10.1038/s44271-026-00447-2>

Elce, V., Bergamo, D., Bontempi, G., Pedreschi, B., Bellesi, M., Handjaras, G., & Bernardi, G. (2025). The individual determinants of morning dream recall. *Communications Psychology*, 3(1), 25. <https://doi.org/10.1038/s44271-025-00191-z>

Wong, W., Herzog, R., Andrade, K. C., Andrillon, T., Barros de Araujo, D., Arnulf, I., Ataei, S., Avvenuti, G., Baird, B., Bellesi, M., Bergamo, D., Bernardi, G., Blagrove, M., Decat, N., Demirel, Ç., Dresler, M., Eichenlaub, J.-B., Elce, V., Gais, S., ... Tsuchiya, N. (2025). A dream EEG and mentation database. *Nature Communications*, 16, 7495. <https://doi.org/10.1038/s41467-025-61945-1>

Salvesen, L., Capriglia, E., Dresler, M., & Bernardi, G. (2024). Influencing dreams through sensory stimulation: A systematic review. *Sleep Medicine Reviews*, 74, 101908. <https://doi.org/10.1016/j.smr.2024.101908>

Elce, V., Handjaras, G., & Bernardi, G. (2021). The language of dreams: Application of linguistics-based approaches for the automated analysis of dream experiences. *Clocks & Sleep*, 3(3), 495–514. <https://doi.org/10.3390/clockssleep3030035>

## 99/20 – “Beyond ‘mindfulness’ and toward a modern science of meditative mastery and spiritual transformation”

Investigadores/Researchers: Matthew Sacchet, Diego Pizzagalli, Remko van Lutterveld, Marta Biancardi

Instituição/Institution: Department of Psychiatry, Massachusetts General Hospital (USA)

Duração/Duration: 2021/03 – 2024/02

### Peer-reviewed publications

Keshava, P., Potash, R. M., Walsh, S. W., Pizzagalli, D. A., & Sacchet, M. D. (2026). Individualized subcortical functional brain organization is related to diagnosis, symptoms, and behavior in Major Depressive Disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 11(6), 719–727. <https://doi.org/10.1016/j.bpsc.2026.01.002>

Chowdhury, A., Biancardi, M., Chapdelaine, E., Riaz, O. S., Timmermann, C., van Lutterveld, R., Sparby, T., & Sacchet, M. D. (2025). Multimodal neurophenomenology of advanced concentration absorption meditation: An intensively sampled case study of Jhāna. *NeuroImage*, 305, 120973. <https://doi.org/10.1016/j.neuroimage.2024.120973>

Demir, U., Yang, W. F. Z., & Sacchet, M. D. (2025). Advanced concentrative absorption meditation reorganizes functional connectivity gradients of the brain: 7T MRI and phenomenology case study of jhāna meditation. *Cerebral Cortex*, 35(4), bhaf079. <https://doi.org/10.1093/cercor/bhaf079>

Goya-Maldonado, R., Erwin-Grabner, T., Zeng, L.-L., Ching, C. R. K., Aleman, A., Amod, A. R., Basgoze, Z., Benedetti, F., Besteher, B., Brosch, K., Bülow, R., Colle, R., Connolly, C. G., Corruble, E., Couvy-Duchesne, B., Cullen, K., Dannlowski, U., Davey, C. G., Dols, A., Ernsting, J., ... Thompson, P. M. (2026). Classification of major depressive disorder using vertex-wise brain sulcal depth, curvature, and thickness with a deep and a shallow learning model. *Molecular Psychiatry*, 31(3), 1517–1529. <https://doi.org/10.1038/s41380-025-03273-w>

Potash, R. M., Yang, W. F. Z., Winston, B., Atasoy, S., Kringelbach, M. L., Sparby, T., & Sacchet, M. D. (2025). Investigating the complex cortical dynamics of an advanced concentrative absorption meditation called jhānas (ACAM-J): A geometric eigenmode analysis. *Cerebral Cortex*, 35(2), bhaf039. <https://doi.org/10.1093/cercor/bhaf039>

Prakash, R. S., Shankar, A., Tripathi, V., Yang, W. F. Z., Fisher, M., Bauer, C., Betzel, R., & Sacchet, M. D. (2025). Mindfulness meditation and network neuroscience: Review, synthesis, and future directions. *Biological Psychiatry - Cognitive Neuroscience and Neuroimaging*, 10(4), 350–358. <https://doi.org/10.1016/j.bpsc.2024.11.005>

Rayani, K., Grabovac, A., Chan, P., Montgomery, S., Ghovanloo, M. R., & Sacchet, M. D. (2025). Brain stimulation enhances dispositional mindfulness in PTSD: an exploratory sham-controlled rTMS trial. *Frontiers in Psychiatry*, 16, 1494567. <https://doi.org/10.3389/fpsy.2025.1494567>

Sacchet, M. D., Valenti, J. L., Keshava, P., Walsh, S. W., Smoski, M. J., Krystal, A. D., & Pizzagalli, D. A. (2025). Individualized functional brain mapping machine learning prediction of symptom-change resulting from selective kappa-opioid antagonism in an anhedonic sample from a Fast-Fail trial. *Journal of Mood & Anxiety Disorders*, 11, 100126. <https://doi.org/10.1016/j.xjmad.2025.100126>

Treves, I. N., Yang, W. F. Z., Sparby, T., & Sacchet, M. D. (2025). Dynamic brain states underlying advanced concentrative absorption meditation: A 7T fMRI intensive case study. *Network Neuroscience*, 9(1), 125–145. [https://doi.org/10.1162/netn\\_a\\_00432](https://doi.org/10.1162/netn_a_00432)

Yang, W. F. Z., Chowdhury, A., Sparby, T., & Sacchet, M. D. (2025). Deconstructing the self and reshaping perceptions: An intensive whole-brain 7T MRI case study of the stages of insight during advanced investigative insight meditation. *NeuroImage*, 305, 120968. <https://doi.org/10.1016/j.neuroimage.2024.120968>

Abellaneda-Pérez, K., Potash, R. M., Pascual-Leone, A., & Sacchet, M. D. (2024). Neuromodulation and meditation: A review and synthesis toward promoting well-being and understanding consciousness and brain. *Neuroscience and Biobehavioral Reviews*, 166, 105862. <https://doi.org/10.1016/j.neubiorev.2024.105862>



Ganesan, S., Yang, W. F. Z., Chowdhury, A., Zalesky, A., & Sacchet, M. D. (2024). Within-subject reliability of brain networks during advanced meditation: An intensively sampled 7 Tesla MRI case study. *Human Brain Mapping*, 45(7), e26666. <https://doi.org/10.1002/hbm.26666>

Sacchet, M. D., Keshava, P., Walsh, S. W., Potash, R. M., Li, M., Liu, H., & Pizzagalli, D. A. (2024). Individualized functional brain system topologies and major depression: Relations among patch sizes and clinical profiles and behavior. *Biological psychiatry. Cognitive Neuroscience and Neuroimaging*, 9(6), 616–625. <https://doi.org/10.1016/j.bpsc.2024.02.011>

van Lutterveld, R., Chowdhury, A., Ingram, D. M., & Sacchet, M. D. (2024). Neurophenomenological investigation of mindfulness meditation "cessation" experiences using EEG network analysis in an intensively sampled adept meditator. *Brain Topography*, 37(5), 849–858. <https://doi.org/10.1007/s10548-024-01052-4>

Yang, W. F., Sparby, T., Wright, M., Kim, E., & Sacchet, M. D. (2024). Volitional mental absorption in meditation: Toward a scientific understanding of advanced concentrative absorption meditation and the case of jhana. *Heliyon*, 10(10), e31223. <https://doi.org/10.1016/j.heliyon.2024.e31223>

Bishop, J. H., Geoly, A., Khan, N., Tischler, C., Krueger, R., Keshava, P., Amin, H., Baltusis, L., Wu, H., Spiegel, D., Williams, N., & Sacchet, M. D. (2023). Real-time semi-automated and automated voxel placement using fMRI targets for repeated acquisition magnetic resonance spectroscopy. *Journal of Neuroscience Methods*, 392, 109853. <https://doi.org/10.1016/j.jneumeth.2023.109853>

Campos, A. I., Van Velzen, L. S., Veltman, D. J., Pozzi, E., Ambrogio, S., Ballard, E. D., Banaj, N., Basgöze, Z., Bellow, S., Benedetti, F., Bollettini, I., Brosch, K., Canales-Rodríguez, E. J., Clarke-Rubright, E. K., Colic, L., Connolly, C. G., Courtet, P., Cullen, K. R., Dannlowski, U., . . . Rentería, M. E. (2023). Concurrent validity and reliability of suicide risk assessment instruments: A meta-analysis of 20 instruments across 27 international cohorts. *Neuropsychology*, 37(3), 315–329. <https://doi.org/10.1037/neu0000850>

Chowdhury, A., Lutterveld, R. V., Laukkonen, R. E., Slagter, H. A., Ingram, D. M., & Sacchet, M. D. (2023). Investigation of advanced mindfulness meditation "cessation" experiences using EEG spectral analysis in an intensively sampled case study. *Neuropsychologia*, 190, 108694. <https://doi.org/10.1016/j.neuropsychologia.2023.108694>

Galante, J., Grabovac, A., Wright, M., Ingram, D. M., Van Dam, N. T., Sanguinetti, J. L., Sparby, T., van Lutterveld, R., & Sacchet, M. D. (2023). A framework for the empirical investigation of mindfulness meditative development. *Mindfulness*, 14(5), 1054–1067. <https://doi.org/10.1007/s12671-023-02113-8>

Laukkonen, R. E., Sacchet, M. D., Barendregt, H., Devaney, K. J., Chowdhury, A., & Slagter, H. A. (2023). Cessations of consciousness in meditation: Advancing a scientific understanding of nirodha samapatti. *Progress in Brain Research*, 280, 61–87. <https://doi.org/10.1016/bs.pbr.2022.12.007>

Rosmarin, D. H., Chowdhury, A., Pizzagalli, D. A., & Sacchet, M. D. (2023). In God we trust: Effects of spirituality and religion on economic decision making. *Personality and Individual Differences*, 214, 112350. <https://doi.org/10.1016/j.paid.2023.112350>

Yang, W. F. Z., Chowdhury, A., Bianciardi, M., van Lutterveld, R., Sparby, T., & Sacchet, M. D. (2024). Intensive whole-brain 7T MRI case study of volitional control of brain activity in deep absorptive meditation states. *Cerebral Cortex*, 34(1), bhad408. <https://doi.org/10.1093/cercor/bhad408>

Rosmarin, D. H., Kaufman, C. C., Ford, S. F., Keshava, P., Drury, M., Minns, S., Marmarosh, C., Chowdhury, A., & Sacchet, M. D. (2022). The neuroscience of spirituality, religion, and mental health: A systematic review and synthesis. *Journal of Psychiatric Research*, 156, 100–113. <https://doi.org/10.1016/j.jpsychires.2022.10.003>

Sezer, I., Pizzagalli, D. & Sacchet, M. (2022). Resting-state fMRI functional connectivity and mindfulness in clinical and non-clinical contexts: A review and synthesis. *Neuroscience & Biobehavioral Reviews*, 135, 104583. <https://doi.org/10.1016/j.neubiorev.2022.104583>

Sparby, T., & Sacchet, M. D. (2022). Defining Meditation: Foundations for an Activity-Based Phenomenological Classification System. *Frontiers in Psychology*, 12, 795077. <https://doi.org/10.3389/fpsyg.2021.795077>

## 100/20 – “Zooming in on the true neural mechanisms of phenomenal consciousness”

Investigadores/Researchers: Simon van Gaal, Andres Canales-Johnson, Robin Ince, Srivas Chennu  
Instituição/Institution: Amsterdam, Brain and Cognition - ABC, University of Amsterdam (The Netherlands); Cambridge University (UK)  
Duração/Duration: 2021/04 – 2024/02

### Peer-reviewed publications

Gelens, F., Äijälä, J., Roberts, L., Komatsu, M., Uran, C., Jensen, M. A., Miller, K. J., Ince, R. A. A., Garagnani, M., Vinck, M., & Canales-Johnson, A. (2024). Distributed representations of prediction error signals across the cortical hierarchy are synergistic. *Nature Communications*, 15(1), 3941. <https://doi.org/10.1038/s41467-024-48329-7>

Canales-Johnson, A., Beerendonk, L., Chennu, S., Davidson, M. J., Ince, R. A. A., & van Gaal, S. (2023). Feedback information transfer in the human brain reflects bistable perception in the absence of report. *PLoS Biology*, 21(5), e3002120. <https://doi.org/10.1371/journal.pbio.3002120>

Vinck, M., Uran, C., Spyropoulos, G., Onorato, I., Broggin, A. C., Schneider, M., & Canales-Johnson, A. (2023). Principles of large-scale neural interactions. *Neuron*, 111(7), 987–1002. <https://doi.org/10.1016/j.neuron.2023.03.015>

#### **107/20 – “Attitudes and beliefs as predictors of psi effects in a pseudo-gambling task”**

Investigador/Researcher: Lance Storm

Instituição/Institution: School of Psychology, University of Adelaide (Australia)

Duração/Duration: 2022/01 – 2023/11

*Peer-reviewed publications*

Storm, L. (2023). Attitudes and beliefs as predictors of psi effects in a pseudo-gambling task. *Journal of Parapsychology*, 87(1), 66–86. <https://doi.org/10.30891/jopar.2023.01.05>.

#### **108/20 – “A telephone telepathy study: Does genetic relatedness influence psychic abilities?”**

Investigador/Researcher: Helané Wahbeh

Instituição/Institution: Institute of Noetic Sciences, Petaluma (USA)

Duração/Duration: 2021/03 – 2023/09

*Peer-reviewed publications*

Wahbeh, H., Delorme, A., Cannard, C., Rossner, R., Yount, G., & Radin, D. (2026). Genomic correlates of self-reported psychic experiences: An exploratory analysis. *Explore*, 22(4), 103416. <https://doi.org/10.1016/j.explore.2026.103416>

Wahbeh, H., Cannard, C., Radin, D., & Delorme, A. (2024). Who's calling? Evaluating the accuracy of guessing who is on the phone. *Explore*, 20(2), 239–247. <https://doi.org/10.1016/j.explore.2023.08.008>

#### **115/20 – “Living in a dream: Body and self-experience during waking and dream states in depersonalisation”**

Investigadores/Researchers: Jane Aspell, Anna Ciaunica, Bigna Lenggenhager, Jennifer Windt

Instituição/Institution: School of Psychology and Sport Science, Anglia Ruskin University Higher Education Corporation, Chelmsford (UK)

Duração/Duration: 2021/04 – 2025/02

*Peer-reviewed publications*

Gwyther, M. P. D., Lenggenhager, B., Windt, J. M., Aspell, J. E., & Ciaunica, A. (2024). Examining the association between depersonalisation traits and the bodily self in waking and dreaming. *Scientific Reports*, 14(1), 6107. <https://doi.org/10.1038/s41598-024-56119-w>

#### **116/20 – “Can the time needed to process visual information following a saccade be used to predict variations in neural measures of working memory and well-being?”**

Investigadores/Researchers: Corinna Haenschel, John Barbur, Emsal Llapashtica

Instituição/Institution: Department of Psychology, City, University of London (UK)

Duração/Duration: 2021/04 – 2024/07

*Peer-reviewed publications*

Llapashtica, E., Barbur, J. & Haenschel, C. (2025). Reduced visual function in schizotypal traits: An exploratory study. *Schizophrenia Bulletin*, 51(2), S205-S213. <https://doi.org/10.1093/schbul/sbae049>

Llapashtica, E., Sun, T., Grattan, K. T. V., & Barbur, J. L. (2024). Effects of post-saccadic oscillations on visual processing times. *PLoS ONE*, 19(5), e0302459. <https://doi.org/10.1371/journal.pone.0302459>

#### **123/20 – “A latent profile analysis and structural equation modelling of paranormal belief, psychopathological symptoms, and well-being”**

Investigadores/Researchers: Neil Dagnall, Andrew Denovan

Instituição/Institution: Health, Psychology and Communities, Manchester Metropolitan University (UK)

Duração/Duration: 2021/02 – 2023/04

*Peer-reviewed publications*

Drinkwater, K. G., Denovan, A., & Dagnall, N. (2024). Re-evaluation of the relationship between paranormal belief and perceived stress using statistical modelling. *PloS ONE*, 19(11), e0312511. <https://doi.org/10.1371/journal.pone.0312511>

Dagnall, N., Denovan, A., & Drinkwater, K. G. (2023). Longitudinal assessment of the temporal stability and predictive validity of the Revised Paranormal Belief Scale. *Frontiers in Psychology*, 13, 1094701. <https://doi.org/10.3389/fpsyg.2022.1094701>

Dagnall, N., Denovan, A., & Drinkwater, K. (2022). Paranormal belief, cognitive-perceptual factors, and well-being: A network analysis. *Frontiers in Psychology*, 13, 967823. <https://doi.org/10.3389/fpsyg.2022.967823>

Dagnall, N., Denovan, A., & Drinkwater, K. G. (2022). Variations in well-being as a function of paranormal belief and psychopathological symptoms: A latent profile analysis. *Frontiers in Psychology*, 13, 886369. <https://doi.org/10.3389/fpsyg.2022.886369>

Dagnall, N., Denovan, A., Drinkwater, K. G., & Escolà-Gascón, Á. (2022). Paranormal belief and well-being: The moderating roles of transliminality and psychopathology-related facets. *Frontiers in Psychology*, 13, 915860. <https://doi.org/10.3389/fpsyg.2022.915860>

**129/20 – “Investigating the role of expertise in the predictive coding framework combining time resolved neural and behavioural evidence”**

*Investigadores/Researchers:* Marie Smith, Ines Mares, Louise Ewing, Fraser Smith

*Instituição/Institution:* Department of Psychological Sciences, Birkbeck, University of London (UK)

*Duração/Duration:* 2021/08 – 2024/07

*Peer-reviewed publications*

Ewing, L., Althaus, N., Farran, E. K., Papasavva, M., Mares, I., & Smith, M. L. (2025). Exploring the development of face recognition across childhood via logistic mixed-effects modelling of the standardised Cambridge Face Memory Test. *Behavior Research Methods*, 57(4), 113. <https://doi.org/10.3758/s13428-025-02629-y>

Mares, I., Smith, F. W., Goddard, E. J., Keighery, L., Pappasava, M., Ewing, L., & Smith, M. L. (2024). Effects of expectation on face perception and its association with expertise. *Scientific Reports*, 14(1), 9402. <https://doi.org/10.1038/s41598-024-59284-0>

**131/20 – “From inner to dyadic connection: The effect of mindfulness intervention on mother-infant bio-behavioural synchrony”**

*Investigadores/Researchers:* Maria Spinelli, Chiara Suttora, Filippo Zappasodi

*Instituição/Institution:* Department of Neurosciences, Imaging and Clinical Sciences, Università degli Studi "G. d'Annunzio" Chieti - Pescara (Italy); Alma Mater Studiorum, Università di Bologna (Italy)

*Duração/Duration:* 2021/09 – 2024/05

*Peer-reviewed publications*

Passaquindici, I., Sperati, A., Lionetti, F., Fasolo, M., & Spinelli, M. (2025). Maternal mindfulness buffers parenting in highly sensitive mothers. *Current Psychology*, 44, 15946-15949. <https://doi.org/10.1007/s12144-025-08258-0>

Sperati, A., Passaquindici, I., Persico, M. E., Di Matteo, C., Fasolo, M., Lionetti, F., & Spinelli, M. (2025). Maternal depression during the perinatal period: The role of Sensory Processing Sensitivity and social support and its impact on infants' negative affect. *Frontiers in Psychology*, 16, 1551016. <https://doi.org/10.3389/fpsyg.2025.1551016>

Passaquindici, I., Nardoza, O., Sperati, A., Lionetti, F., D'Urso, G., Fasolo, M., & Spinelli, M. (2024). Maternal dispositional mindfulness and mother-child relationship: The mediating role of emotional control during parenting. *Child Care Health and Development*, 50(3), e13264. <https://doi.org/10.1111/cch.13264>

Passaquindici, I., Pastore, M., Nardoza, O., Lionetti, F., D'Urso, G., Palumbo, R., Fasolo, M., & Spinelli, M. (2024). From inner to dyadic connection: the role of mindfulness in mother-infant interaction during the first year of life. *Frontiers in Behavioral Neuroscience*, 18, 1398042. <https://doi.org/10.3389/fnbeh.2024.1398042>

**134/20 – “Copy me, copy you: Investigating the development of facial mimicry”**

*Investigadores/Researchers:* Carina de Klerk, Javier Andreu-Perez

*Instituição/Institution:* Department of Psychology, University of Essex, Colchester (UK)

*Duração/Duration:* 2021/12 – 2026/05

*Peer-reviewed publications*

Richmond, C., Parrett, L., Tye, E., & de Klerk, C. (2026). Two weeks of mirror exposure enhances sensorimotor cortex activation but not facial mimicry in 4-month-old infants. *Developmental Science*, 29(4), e70221. <https://doi.org/10.1111/desc.70221>

**140/20 – “Stimulating compassion: Using transcutaneous vagus nerve stimulation (tVNS) to probe compassionate behaviour”**

Investigador/Researcher: Sunjeev Kamboj

Instituição/Institution: Department Clinical, Educational and Health Psychology, University College London (UK)

Duração/Duration: 2022/02 – 2024/07

*Peer-reviewed publications*

Kamboj, S. K., Peniket, M., Norman, J., Robshaw, R., Soni-Tricker, A., Falconer, C., Gilbert, P., & Simeonov, L. (2025). Electroceutical enhancement of self-compassion training using transcutaneous vagus nerve stimulation: Results from a preregistered fully factorial randomized controlled trial. *Psychological Medicine*, 55, e223, 1–11. <https://doi.org/10.1017/S0033291725101013>

Kamboj, S. K., Peniket, M., & Simeonov, L. (2023). A bioelectronic route to compassion: Rationale and study protocol for combining transcutaneous vagus nerve stimulation (tVNS) with compassionate mental imagery. *PloS ONE*, 18(3): e0282861. <https://doi.org/10.1371/journal.pone.0282861>

**146/20 – “The me and the I: Dissociating ownership and agency in sensorimotor processing”**

Investigadores/Researchers: Ana Pinheiro, Sonja Kotz, Michael Schwartz

Instituição/Institution: Centro de Investigação em Ciência Psicológica – CICPSI, Faculdade de Psicologia da Universidade de Lisboa (Portugal); Faculty of Psychology and Neuroscience, University of Maastricht (The Netherlands)

Duração prevista/Estimated duration: 2021/09 – 2026/08

*Peer-reviewed publications*

Honcamp, H., O'Donnell, P., Pinheiro, A. P., Trujillo-Barreto, N. J., Schwartz, M., El-Deredy, W., & Kotz, S. A. (2026). Differentiating hallucination proneness dimensions through alpha resting state dynamics. *Behavioural Brain Research*, 505, 116101. <https://doi.org/10.1016/j.bbr.2026.116101>

Pinheiro, A. P. (2026). The developing vocal self. *Trends in Cognitive Sciences*. Advance online publication. <https://doi.org/10.1016/j.tics.2026.06.005>

Abalo-Rodríguez, I., & Pinheiro, A. P. (2025). The Hitchhiker's guide to hallucination research. *Consciousness and Cognition*, 136, 103941. <https://doi.org/10.1016/j.concog.2025.103941>

Honcamp, H., Goller, L. K., Amorim, M., Duggirala, S. X., Johnson, J. F., Schwartz, M., Pinheiro, A. P., & Kotz, S. A. (2025). Multidimensionality of hallucination-like experiences: A factor structure refinement of the Launay-Slade Hallucination Scale. *Schizophrenia Research: Cognition*, 41, 100368. <https://doi.org/10.1016/j.schog.2025.100368>

Pinheiro A. P. (2025). Beyond acoustics: Self-relevance as a key to voice naturalness (L). *Journal of the Acoustical Society of America*, 158(5), 4045–4047. <https://doi.org/10.1121/10.0039927>

Pinheiro, A. P. (2025). Behind a voice there is a speaker: Why vocal emotion research needs to become 'personal'. *Affective Science*, 6(3), 562–574. <https://doi.org/10.1007/s42761-025-00317-w>

Temudo, S., & Pinheiro, A. P. (2025). What is faster than where in vocal emotional perception. *Journal of Cognitive Neuroscience*, 37(2), 239–265. [https://doi.org/10.1162/jocn\\_a\\_02251](https://doi.org/10.1162/jocn_a_02251)

Honcamp, H., Duggirala, S. X., Climent, J. R., Astudillo, A., Trujillo-Barreto, N. J., Schwartz, M., Linden, D. E. J., van Amelsvoort, T. A. M. J., El-Deredy, W., & Kotz, S. A. (2024). EEG resting state alpha dynamics predict an individual's vulnerability to auditory hallucinations. *Cognitive Neurodynamics*, 18(5), 2405–2417. <https://doi.org/10.1007/s11571-024-10093-1>

Honcamp, H., Schwartz, M., Amorim, M., Linden, D., Pinheiro, A., & Kotz, S. (2024). Revisiting alpha resting state dynamics underlying hallucinatory vulnerability: Insights from Hidden semi-Markov Modeling. *Journal of Neuroscience Methods*, 110138. <https://doi.org/10.1016/j.jneumeth.2024.110138>

Johnson, J. F., Schwartz, M., Belyk, M., Pinheiro, A. P., & Kotz, S. A. (2024). Variability in white matter structure relates to hallucination proneness. *NeuroImage Clinical*, 43, 103643. <https://doi.org/10.1016/j.nicl.2024.103643>

Pinheiro, A. P., Aucouturier, J., & Kotz, S. A. (2024). Neural adaptation to changes in self-voice during puberty. *Trends in Neurosciences*, 47, 777–787. <https://doi.org/10.1016/j.tins.2024.08.001>

Pinheiro, A. P., Sarzedas, J., Roberto, M. S., & Kotz, S. A. (2023). Attention and emotion shape self-voice prioritization in speech processing. *Cortex*, 158, 83–95. <https://doi.org/10.1016/j.cortex.2022.10.006>



**148/20 – “Multifunctional mediums? An exploration of the contemporary social psychological function of mediums and mediumship in the UK”**

Investigadores/Researchers: Deborah Earnshaw, James Thompson

Instituição/Institution: School of Social Sciences, Birmingham City University (UK)

Duração/Duration: 2021/06 – 2026/06

*Peer-reviewed publications*

Earnshaw, D., & Thompson, J. (2026). Navigating belief and scepticism: A qualitative exploration of mediumship engagement in the UK. *Australian Journal of Parapsychology*, 26(1), 47–63. <https://doi.org/10.3316/informit.T2026052100007800447647486>

**149/20 – “Uncertainty as an elicitor or modulator of emotion and associated psychophysiology”**

Investigador/Researcher: Jayne Morriss

Instituição/Institution: School of Psychology and Clinical Language Sciences, University of Reading (UK)

Duração/Duration: 2021/10 – 2023/05

*Peer-reviewed publications*

Biagi, N., Byrne, P., & Morriss, J. (2025). Effects of outcome uncertainty related to gain and loss, performance feedback, and individual differences during a cognitive control task. *Frontiers in Psychology*, 16, Article 1469701. <https://doi.org/10.3389/fpsyg.2025.1469701>

Morriss, J., Goh, K., Hirsch, C. R., & Dodd, H. (2023). Intolerance of uncertainty heightens negative emotional states and dampens positive emotional states. *Frontiers in Psychiatry*, 14, 1147970. <https://doi.org/10.3389/fpsyg.2023.1147970>

Morriss, J., Tupitsa, E., Dodd, H. F., & Hirsch, C. R. (2022). Uncertainty makes me emotional: Uncertainty as an elicitor and modulator of emotional states. *Frontiers in Psychology*, 13, 777025. <https://doi.org/10.3389/fpsyg.2022.777025>

**150/20 – “A swing between the inner and the outer worlds: Exploring the function of the frontal aslant tract with transcranial magnetic stimulation”**

Investigadores/Researchers: Luigi Cattaneo, Sara Parmigiani

Instituição/Institution: Center for Mind/Brain Sciences - CIMeC, University of Trento (Italy)

Duração/Duration: 2021/09 – 2025/01

*Peer-reviewed publications*

Tagliaferri, M., Amoroso, G., Voltolini, L., Giampiccolo, D., Avesani, P., & Cattaneo, L. (2024). A revision of the dorsal origin of the frontal aslant tract (FAT) in the superior frontal gyrus: a DWI-tractographic study. *Brain Structure & Function*, 229(4), 987–999. <https://doi.org/10.1007/s00429-024-02778-4>

Tagliaferri, M., Giampiccolo, D., Parmigiani, S., Avesani, P., & Cattaneo, L. (2023). Connectivity by the Frontal Aslant Tract (FAT) explains local functional specialization of the superior and inferior frontal gyri in humans when choosing predictive over reactive strategies: a tractography-guided TMS study. *The Journal of Neuroscience*, 43(41), 6920–6929. <https://doi.org/10.1523/JNEUROSCI.0406-23.2023>

**169/20 – “Investigation of the phenomenology and impact of spontaneous and direct After-Death Communications (ADCs)”**

Investigador/Researcher: Callum Cooper

Instituição/Institution: Research Centre for Psychology & Social Sciences, University of Northampton (UK)

Duração/Duration: 2021/01 – 2024/06

*Peer-reviewed publications*

Elsaesser, E., Roe, C. A., Cooper, C. E., Morrison, S., Lorimer, D. (2025). Was Verstorbene mitteilen, was wir über ihren Gemütszustand erfahren und wie sich dies auf die Trauer auswirkt: Mixed-Methods-Analyse einer mehrsprachigen Fallsammlung spontaner Nachtodkontakte (NTK). *Zeitschrift für Anomalistik*, 25(2). <https://doi.org/10.23793/zfa.2025.242de>

Elsaesser, E., Roe, C. A., Cooper, C. E., Morrison, S., & Lorimer, D. (2025). What the deceased communicate, what we learn about their state of mind, and how this impacts grief: Mixed methods analysis of a multilingual case collection of spontaneous after-death communications (ADCs). *Journal of Anomalistics*, 25(2), 242–281. <https://doi.org/10.23793/zfa.2025.242>

Penberthy, J. K., Pehlivanova, M., Kalelioglu, T., Roe, C. A., Cooper, C. E., Lorimer, D., & Elsaesser, E. (2023). Factors Moderating the Impact of After Death Communications on Beliefs and Spirituality. *OMEGA - Journal of Death and Dying*, 87(3), 884–901. <https://doi.org/10.1177/00302228211029160>

Penberthy, J. K., St Germain-Sehr, N. R., Grams, G., Burns, M., Lorimer, D., Cooper, C. E., Roe, C. A., Morrison, S., & Elsaesser, E. (2023). Description and impact of encounters with deceased partners or spouses. *OMEGA - Journal of Death and Dying*, 0(0). <https://doi.org/10.1177/00302228231207900>

Elsaesser, E., Roe, C. A., Cooper, C. E., & Lorimer, D. (2022). Phänomenologie und Auswirkungen von spontanen Nachtod-Kontakten (NTK) – Forschungsergebnisse und Fallstudien. *Journal of Anomalistics*, 22(1), 36-71. <https://doi.org/10.23793/zfa.2022.36>

#### **174/20 – “In your skin: The psychophysiology of touch observation”**

Investigador/Researcher: Bettina Forster

Instituição/Institution: Department of Psychology, School of Arts and Social Sciences, City, University of London (UK)

Duração/Duration: 2021/09 – 2024/06

##### *Peer-reviewed publications*

Forster, B., & Abad-Hernando, S. (2024). In your skin? Somatosensory cortex is purposely recruited to situate but not simulate vicarious touch. *NeuroImage*, 289, 120561. <https://doi.org/10.1016/j.neuroimage.2024.120561>

#### **175/20 – “The role of nucleus accumbens in the perception of natural rewards”**

Investigadores/Researchers: Carina Cunha, Ana João Rodrigues, Nivaldo Vasconcelos, Rodrigo Oliveira, Bárbara Coimbra, Ana Verónica Domingues, Gabriela Martins

Instituição/Institution: Life and Health Sciences Research Institute – ICVS, University of Minho, Braga (Portugal); Zuckerman Institute, Columbia University, New York City (USA)

Duração/Duration: 2021/06 – 2025/01

##### *Peer-reviewed publications*

Domingues, A. V., Carvalho, T. T. A., Martins, G. J., Correia, R., Coimbra, B., Bastos-Gonçalves, R., Wezik, M., Gaspar, R., Pinto, L., Sousa, N., Costa, R. M., Soares-Cunha, C., & Rodrigues, A. J. (2025). Dynamic representation of appetitive and aversive stimuli in nucleus accumbens shell D1- and D2-medium spiny neurons. *Nature Communications*, 16(1), 59. <https://doi.org/10.1038/s41467-024-55269-9>

Deseyve, C., Domingues, A. V., Carvalho, T. T. A., Armada, G., Correia, R., Vieitas-Gaspar, N., Wezik, M., Pinto, L., Sousa, N., Coimbra, B., Rodrigues, A. J., & Soares-Cunha, C. (2024). Nucleus accumbens neurons dynamically respond to appetitive and aversive associative learning. *Journal of Neurochemistry*, 168(3), 312–327. <https://doi.org/10.1111/jnc.16063>

Jungmann, R. M., Feliciano, T., Aguiar, L. A. A., Soares-Cunha, C., Coimbra, B., Rodrigues, A. J., Copelli, M., Matias, F. S., de Vasconcelos, N. A. P., & Carelli, P. V. (2024). State-dependent complexity of the local field potential in the primary visual cortex. *Physical Review. E*, 110(1-1), 014402. <https://doi.org/10.1103/PhysRevE.110.014402>

Domingues, A. V., Rodrigues, A. J., & Soares-Cunha, C. (2023). A novel perspective on the role of nucleus accumbens neurons in encoding associative learning. *FEBS letters*, 597(21), 2601–2610. <https://doi.org/10.1002/1873-3468.14727>

Correia, R., Coimbra, B., Domingues, A. V., Wezik, M., Vieitas-Gaspar, N., Gaspar, R., Sousa, N., Pinto, L., Rodrigues, A. J., & Soares-Cunha, C. (2023). Involvement of nucleus accumbens D2-medium spiny neurons projecting to the ventral pallidum in anxiety-like behaviour. *Journal of Psychiatry & Neuroscience*, 48(4), E267–E284. <https://doi.org/10.1503/jpn.220111>

Soares-Cunha, C., & Heinsbroek, J. A. (2023). Ventral pallidal regulation of motivated behaviors and reinforcement. *Frontiers in Neural Circuits*, 17, 1086053. <https://doi.org/10.3389/fncir.2023.1086053>

Domingues, A. V., Coimbra, B., Correia, R., Deseyve, C., Vieitas-Gaspar, N., Floresco, S., Sousa, N., Soares-Cunha, C., & Rodrigues, A. J. (2022). Prenatal dexamethasone exposure alters effort decision making and triggers nucleus accumbens and anterior cingulate cortex functional changes in male rats. *Translational Psychiatry*, 12, 338. <https://doi.org/10.1038/s41398-022-02043-4>

Soares-Cunha, C., Domingues, A. V., Correia, R., Coimbra, B., Vieitas-Gaspar, N., Vasconcelos, N., Pinto, L., Sousa, N. & Rodrigues, A. J. (2022). Distinct role of nucleus accumbens D2-MSN projections to ventral pallidum in different phases of motivated behavior. *Cell Reports*, 38, 7. <https://doi.org/10.1016/j.celrep.2022.110380>

#### **181/20 – “Sleep and dreaming after a near-death experience. An exploratory study using wrist actigraphy”**

Investigadores/Researchers: Nicole Lindsay, Natasha Tassell-Matamua, Rosemary Gibson

Instituição/Institution: School of Psychology, Massey University, Palmerston North (New Zealand)

Duração/Duration: 2021/11 – 2025/09

##### *Peer-reviewed publications*

Lindsay, N., Brough, N., Gibson, R., O'Sullivan, L., & Tassell-Matamua, N. (2025). “Outside the matrix.” Dreaming after near-death experiences: A qualitative analysis. *Psychology of Consciousness: Theory, Research, and Practice*. Advance online publication. <https://doi.org/10.1037/cns0000454>

Lindsay, N., Tassell-Matamua, N., O'Sullivan, L., & Gibson, R. (2024). Trauma or transcendence? The relationship between near-death experiences and dreaming. *Dreaming*, 35(1), 1–17. <https://doi.org/10.1037/drm0000278>

Lindsay, N., O'Sullivan, L., Gibson, R., Ladyman, C., & Tassell-Matamua, N. (2023). Near-death experiences and sleep disturbance: An exploratory study using wrist actigraphy. *The Journal of Nervous and Mental Disease*, 211(11), 856–861. <https://doi.org/10.1097/NMD.0000000000001710>

## **191/20 – “Understanding the brain mechanisms of death-denial for fostering mindfulness-based existential resilience”**

*Investigadores/Researchers:* Aviva Berkovich-Ohana, Yair Dor-Ziderman

*Instituição/Institution:* The Edmond J. Safra Brain Research Center, University of Haifa (Israel); Gonda Multidisciplinary Brain Research Center, Bar-Ilan University (Israel)

*Duração/Duration:* 2022/01 – 2024/01

### *Peer-reviewed publications*

Dor-Ziderman, Y., David, J., & Berkovich-Ohana, A. (2025). Intact neurophysiological markers of death denial in long-term ayahuasca users. *Psychopharmacology*. Advance online publication. <https://doi.org/10.1007/s00213-025-06963-z>

Dor-Ziderman, Y., Schweitzer, Y., Nave, O., Trautwein, F. M., Fulder, S., Lutz, A., Goldstein, A., & Berkovich-Ohana, A. (2025). Training the embodied self in its impermanence: Meditators evidence neurophysiological markers of death acceptance. *Neuroscience of Consciousness*, 2025(1), niaf002. <https://doi.org/10.1093/nc/niaf002>

Schweitzer, Y., Trautwein, F. M., Dor-Ziderman, Y., Nave, O., David, J., Fulder, S., & Berkovich-Ohana, A. (2024). Meditation-induced self-boundary flexibility and prosociality: A MEG and behavioral measures study. *Brain Sciences*, 14(12), 1181. <https://doi.org/10.3390/brainsci14121181>

Trautwein, F. M., Schweitzer, Y., Dor-Ziderman, Y., Nave, O., Ataria, Y., Fulder, S., & Berkovich-Ohana, A. (2024). Suspending the embodied self in meditation attenuates beta oscillations in the posterior medial cortex. *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience*, 44(26), e1182232024. <https://doi.org/10.1523/JNEUROSCI.1182-23.2024>

David, J., Bouso, J. C., Kohek, M., Ona, G., Tadmor, N., Arnon, T., Dor-Ziderman, Y., & Berkovich-Ohana, A. (2023). Ayahuasca-induced personal death experiences: prevalence, characteristics, and impact on attitudes toward death, life, and the environment. *Frontiers in Psychiatry*, 14, 1287961. <https://doi.org/10.3389/fpsy.2023.1287961>

## **201/20 – “The control of attentional diversion: A psychophysiological approach”**

*Investigadores/Researchers:* John Marsh, Federica Degno, Robert Hughes

*Instituição/Institution:* Perception, Cognition and Neuroscience Laboratory, School of Psychology and Computer Science, University of Central Lancashire, Preston (UK); Royal Holloway University of London, Egham (UK)

*Duração prevista/Estimated duration:* 2021/10 – 2026/08

### *Peer-reviewed publications*

Skog, E., Marsh, J. E., Ljungberg, J. K., & Sörqvist, P. (2026). No evidence for a vibrotactile changing-state effect in serial recall: A multi-experimental replication attempt. *Journal of Cognitive Psychology*. Advance online publication. <https://doi.org/10.1080/20445911.2026.2657818>

Atanasov, P., Liversedge, S. P., & Degno, F. (2025). Word order effects in sentence reading. *Cognitive Psychology*, 157, 101715. <https://doi.org/10.1016/j.cogpsych.2025.101715>

Elbe, P., Marsh, J. E., Sörman, D. E., Nyberg, L., Vega-Mendoza, M., & Ljungberg, J. K. (2025). Differential impacts of addition and omission deviants on the working memory performance of adults with and without self-reported ADHD. *Journal of Cognitive Psychology*, 1–16. <https://doi.org/10.1080/20445911.2025.2563538>

Ermer, C. A., Yadav, M., Marsh, J. E., Schlittmeier, S. J., Kuhlen, T. W., & Fels, J. (2025). Serial recall in spatial acoustic environments: Irrelevant sound effect and spatial source alternations. *Scientific Reports*, 15(1), 32473. <https://doi.org/10.1038/s41598-025-18592-9>

Marsh, J. E., Bell, R., Röer, J. P., & Hodgetts, H. M. (2025). Emerging perspectives on distraction and task interruptions – Part III: contexts, mechanisms, and metacognitive blind spots. *Journal of Cognitive Psychology*, 37(6), 501–509. <https://doi.org/10.1080/20445911.2025.2543015>

Atienzar, T. O., Pilgrim, L. K., Na Sio, U., & Marsh, J. E. (2024). Replicating and extending hemispheric asymmetries in auditory distraction: no metacognitive awareness for the left-ear disadvantage for changing-state sounds. *Journal of Cognitive Psychology*. <https://doi.org/10.1080/20445911.2024.2319268>

- Littlefair, Z., Richardson, B. H., Ball, L. J., Vachon, F., & Marsh, J. E. (2024). Semantic priming by task-irrelevant speech: Category-level or item-level processing? *Journal of Cognitive Psychology*, 1–20. <https://doi.org/10.1080/20445911.2024.2395584>
- Marsh, J. E., Hanczakowski, M., Beaman, C. P., Meng, Z., & Jones, D. M. (2024). Thinking about meaning: Level-of-processing modulates semantic auditory distraction. *Journal of Cognitive Psychology*, 1–13. <https://doi.org/10.1080/20445911.2024.2381279>
- Marsh, J. E., Hurlstone, M. J., Marois, A., Ball, L. J., Moore, S. B., Vachon, F., Schlittmeier, S. J., Röer, J. P., Buchner, A., Aust, F., & Bell, R. (2024). Changing-state irrelevant speech disrupts visual–verbal but not visual–spatial serial recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 50(11), 1772–1790. <https://doi.org/10.1037/xlm0001360>
- Sio, U. N., Lortie-Forgues, H., & Marsh, J. E. (2024). Effects of task characteristics and task-switching on remote associates test problem solving. *Journal of Cognitive Psychology*, 36(4), 595–616. <https://doi.org/10.1080/20445911.2024.2333580>
- Linklater, R. D., Judge, J., Sörqvist, P., & Marsh, J. E. (2023). Auditory distraction of vocal-motor behaviour by different components of song: testing an interference-by-process account. *Journal of Cognitive Psychology*, 36(1), 101–13. <https://doi.org/10.1080/20445911.2023.2284404>
- Marsh, J. E., Vachon, F., Sörqvist, P., Marsja, E., Röer, P. J., Richardson, B. H., & Ljungberg, J. K. (2023). Irrelevant changing-state vibrotactile stimuli disrupt verbal serial recall: implications for theories of interference in short-term memory. *Journal of Cognitive Psychology*, 36(1), 78–100. <https://doi.org/10.1080/20445911.2023.2198065>
- Rettie, L., Potter, R. F., Brewerc, G., Degnod, F., Vachone, F., Hughes, R. W., & Marsh, J. E. (2023). Warning-taboo words ahead! Avoiding attentional capture by spoken taboo distractors. *Journal of Cognitive Psychology*, 36(1), 61–77. <https://doi.org/10.1080/20445911.2023.2285860>
- Littlefair, Z., Vachon, F., Ball, L. J., Robinson, N., & Marsh, J. E. (2022). Acoustic, and categorical, deviation effects are produced by different mechanisms: Evidence from additivity and habituation. *Auditory Perception & Cognition*, 5(1-2), 1-24. <https://doi.org/10.1080/25742442.2022.2063609>

## 203/20 – “Dynamic eye-movement encoding in human cortex using ultra-high field fMRI (7Tesla)”

Investigador/Researcher: Alessio Fracasso

Instituição/Institution: Institute of Neuroscience and Psychology, University of Glasgow, Scotland (UK)

Duração/Duration: 2021/10 – 2023/09

### Peer-reviewed publications

- Dalby, C., Dibble, A., Carnevalheiro, J., Queirazza, F., Sevegnani, M., Harvey, M., Svanera, M., & Fracasso, A. (2026). Delineating In Vivo T1-Weighted Intensity Profiles Within the Human Insula Cortex Using 7-Tesla MRI. *Human Brain Mapping*, 47(4), e70486. <https://doi.org/10.1002/hbm.70486>
- Tal, Z., Sayal, J., Fang, F., Bi, Y., Almeida, J., & Fracasso, A. (2026). The neural organization of visual information in the auditory cortex of the congenitally deaf. *Human Brain Mapping*, 47(2), e70444. <https://doi.org/10.1002/hbm.70444>
- Almeida, J., Kristensen, S., Tal, Z., & Fracasso, A. (2025). Contentopic mapping in ventral and dorsal association cortex: The topographical organization of manipulable object information. *NeuroImage*, 321, 121514. <https://doi.org/10.1016/j.neuroimage.2025.121514>
- Burns, C. D. G., Fracasso, A., & Rousselet, G. A. (2025). Bias in data-driven replicability analysis of univariate brain-wide association studies. *Scientific Reports*, 15(1), 6105. <https://doi.org/10.1038/s41598-025-89257-w>
- Taylor, R., Buonocore, A., & Fracasso, A. (2024). Saccadic “inhibition” unveils the late influence of image content on oculomotor programming. *Experimental Brain Research*, 242(9), 2281–2294. <https://doi.org/10.1007/s00221-024-06890-z>
- Almeida, J., Fracasso, A., Kristensen, S., Valério, D., Bergström, F., Chakravarthi, R., Tal, Z., & Walbrin, J. (2023). Neural and behavioral signatures of the multidimensionality of manipulable object processing. *Communications Biology*, 6(1), 940. <https://doi.org/10.1038/s42003-023-05323-x>
- Battaglia, S., Cardellicchio, P., Di Fazio, C., Nazzi, C., Fracasso, A., & Borgomaneri, S. (2022). The influence of vicarious fear-learning in “infecting” reactive action inhibition. *Frontiers in Behavioral Neuroscience*, 16, 946263. <https://doi.org/10.3389/fnbeh.2022.946263>
- Bianciardi, B., Gajwani, R., Gross, J., Gumley, A. I., Lawrie, S. M., Moelling, M., Schwannauer, M., Schultze-Lutter, F., Fracasso, A., & Uhlhaas, P. J. (2023). Investigating temporal and prosodic markers in clinical high-risk for psychosis participants using automated acoustic analysis. *Early Intervention in Psychiatry*, 17(3), 327–330. <https://doi.org/10.1111/eip.13357>
- Fabius, J. H., Fracasso, A., Deodato, M., Melcher, D., & Van der Stigchel, S. (2023). Bilateral increase in MEG planar gradients prior to saccade onset. *Scientific Reports*, 13(1), 5830. <https://doi.org/10.1038/s41598-023-32980-z>



Fracasso, A., Buonocore, A., & Hafed, Z. M. (2023). Peri-saccadic orientation identification performance and visual neural sensitivity are higher in the upper visual field. *The Journal of Neuroscience*, 43(41), 6884–6897. <https://doi.org/10.1523/JNEUROSCI.1740-22.2023>

Gaglianese, A., Fracasso, A., Fernandes, F. G., Harvey, B., Dumoulin, S. O., & Petridou, N. (2023). Mechanisms of speed encoding in the human middle temporal cortex measured by 7T fMRI. *Human Brain Mapping*, 44(5), 2050-2061. <https://doi.org/10.1002/hbm.26193>

Battaglia, S., Cardellicchio, P., Di Fazio, C., Nazzi, C., Fracasso, A., & Borgomaneri, S. (2022). Stopping in (e)motion: Reactive action inhibition when facing valence-independent emotional stimuli. *Frontiers in Behavioral Neuroscience*, 16. <https://doi.org/10.3389/fnbeh.2022.998714>

Battaglia, S., Fabius, J. H., Moravkova, K., Fracasso, A., & Borgomaneri, S. (2022). The neurobiological correlates of gaze perception in healthy individuals and neurologic patients. *Biomedicines*, 10(3), 627. <https://doi.org/10.3390/biomedicines10030627>

Brunner, G., Gajwani, R., Gross, J., Gumley, A., Krishnadas, R., Lawrie, S., Schwannauer M., Schultze-Lutter, F., Fracasso, A. & Uhlhaas, P. (2022). Hippocampal structural alterations in early-stage psychosis: Specificity and relationship to clinical outcomes. *NeuroImage: Clinical*, 35, 103087. <https://doi.org/10.1016/j.nicl.2022.103087>

Fabius, J. H., Moravkova, K., & Fracasso, A. (2022). Topographic organization of eye-position dependent gain fields in human visual cortex. *Nature Communications*, 13(1), 7925. <https://doi.org/10.1038/s41467-022-35488-8>

Fracasso, A., Gaglianese, A., Vansteensel, M. J., Aarnoutse, E. J., Ramsey, N. F., Dumoulin, S. O., & Petridou, N. (2022). fMRI and intra-cranial electrocorticography recordings in the same human subjects reveals negative BOLD signal coupled with silenced neuronal activity. *Brain Structure & Function*, 227(4), 1371–1384. <https://doi.org/10.1007/s00429-021-02342-4>

van Dijk, J. A., de Jong, M. C., Piantoni, G., Fracasso, A., Vansteensel, M. J., Groen, I., Petridou, N., & Dumoulin, S. (2022). Intracranial recordings show evidence of numerosity tuning in human parietal cortex. *PLoS One*, 17(8), e0272087. <https://doi.org/10.1371/journal.pone.0272087>

Fracasso, A., Dumoulin, S. O., & Petridou, N. (2021). Point-spread function of the BOLD response across columns and cortical depth in human extra-striate cortex. *Progress in Neurobiology*, 207, 102187. <https://doi.org/10.1016/j.pneurobio.2021.102034>

Dijk, J. A., Fracasso, A., Petridou, N., & Dumoulin, S. O. (2021). Laminar processing of numerosity supports a canonical cortical microcircuit in human parietal cortex. *Current biology*, 31(20), 4635-4640. <https://doi.org/10.1016/j.cub.2021.07.082>

## **212/20 – “Comparing cognitive styles among parapsychology researchers, psi-believers, and skeptics”**

Investigadores/Researchers: Marieta Pehlivanova, Bruce Greyson

Instituição/Institution: Division of Perceptual Studies - DOPS, School of Medicine, University of Virginia, Charlottesville (USA)

Duração/Duration: 2021/03 – 2023/12

### *Peer-reviewed publications*

Pehlivanova, M., Pehlivanova, M., & Pehlivanova, M. (2024). Cognitive styles and psi: psi researchers are more similar to skeptics than to lay believers. *Frontiers in Psychology*, 15. <https://doi.org/10.3389/fpsyg.2024.1398121van>

## **216/20 – “Analysis of an entropic anomaly in 23 years of truly random data”**

Investigador/Researcher: Dean Radin

Instituição/Institution: Institute of Noetic Sciences, Petaluma (USA)

Duração/Duration: 2022/01 – 2023/02

### *Peer-reviewed publications*

Radin, D. (2023). Anomalous entropic effects in physical systems associated with collective consciousness. *Physics Essays*, 36(1), 76-85.

## 229/20 – “Sensory entrainment for improving spatial navigation”

Investigador/Researcher: Mireia Torralba Cuello, Salvador Soto-Faraco, Lluís Fuentemilla, José Ángel Blat  
Instituição/Institution: Center for Brain and Cognition, University Pompeu Fabra, Barcelona (Spain);  
University of Barcelona (Spain)

Duração/Duration: 2021/09 – 2025/04

### Peer-reviewed publications

Cuello, M., Marti-Marca, A., Pápaia, M. S., & Soto-Faraco, S. (2025). Single-trial characterisation of frontal theta and parietal alpha oscillatory episodes during spatial navigation in humans. *Cerebral Cortex*, 35(4), bhaf083. <https://doi.org/10.1093/cercor/bhaf083>.

## 241/20 – “The premotor roots of musical beat perception and imagery: A neurophysiological investigation”

Investigadores/Researchers: Carlotta Lega, Virginia Penhune, Luigi Cattaneo

Instituição/Institution: Department of Psychology, Università degli Studi di Milano-Bicocca (Italy)

Duração/Duration: 2021/09 – 2026/02

### Peer-reviewed publications

Lazzari, G., Costantini, G., La Rocca, S., Massironi, A., Cattaneo, L., Penhune, V., & Lega, C. (2025). Topography of functional organization of beat perception in human premotor cortex: Causal evidence from a transcranial magnetic stimulation (TMS) study. *Human Brain Mapping*, 46(7), e70225. <https://doi.org/10.1002/hbm.70225>

Lazzari, G., Ferreri, L., Cattaneo, L., Penhune, V., & Lega, C. (2025). Imagining the beat: causal evidence for dorsal premotor cortex (dPMC) role in beat imagery via transcranial magnetic stimulation (TMS). *NeuroImage*, 323, 121593. <https://doi.org/10.1016/j.neuroimage.2025.121593>

Lazzari, G., Sacheli, L. M., Benoit, C.-E., Lega, C., & van Vugt, F. T. (2024). Pleasantness makes a good time: Musical consonance shapes interpersonal synchronization in dyadic joint action. *Frontiers in Human Neuroscience*, 18, 1472632. <https://doi.org/10.3389/fnhum.2024.1472632>

Lazzari, G., Van De Vorst, R., Van Vugt, F. T., & Lega, C. (2024). Subtle patterns of altered responsiveness to delayed auditory feedback during finger tapping in people who stutter. *Brain Sciences*, 14(5), 472. <https://doi.org/10.3390/brainsci14050472>

Benoit, C. E., Ferreri, L., Lega, C., & van Vugt, F. T. (2022). Editorial: Rhythm in human cognition and action: Health and pathology. *Frontiers in Psychology*, 13, 1047825. <https://doi.org/10.3389/fpsyg.2022.1047825>

## 246/20 – “The hidden rhythm of interpersonal (sub-)movement coordination”

Investigadores/Researchers: Alice Tomassini, Alessandro D'Ausilio, Julien Laroche

Instituição/Institution: Center for Translational Neurophysiology of Speech and Communication – CTNSC, Istituto Italiano di Tecnologia, Ferrara (Italy)

Duração/Duration: 2021/06 – 2023/06

### Peer-reviewed publications

Tomassini, A., Torricelli, F., Fadiga, L., & D'Ausilio, A. (2026). Alpha and beta cortico-motor phase dynamics shape visuomotor control on a single-trial basis. *Journal of Neuroscience*, 46(7), e0765252025. <https://doi.org/10.1523/JNEUROSCI.0765-25.2025>

Corsini, A., Tomassini, A., Pastore, A., Delis, I., Fadiga, L., & D'Ausilio, A. (2024). Speech perception difficulty modulates theta-band encoding of articulatory synergies. *Journal of Neurophysiology*, 131(3), 480–491. <https://doi.org/10.1152/jn.00388.2023>

Emanuele, M., D'Ausilio, A., Koch, G., Fadiga, L., & Tomassini, A. (2024). Scale-invariant changes in corticospinal excitability reflect multiplexed oscillations in the motor output. *The Journal of Physiology*, 602(1), 205–222. <https://doi.org/10.1113/JP284273>

Laroche, J., Tomassini, A., Fadiga, L., & D'Ausilio, A. (2024). Submovement interpersonal coupling is associated to audio-motor coordination performance. *Scientific Reports*, 14(1), 4662. <https://doi.org/10.1038/s41598-024-51629-z>

Nazzaro, G., Emanuele, M., Laroche, J., Esposto, C., Fadiga, L., D'Ausilio, A., & Tomassini, A. (2023). The microstructure of intra- and interpersonal coordination. *Proceedings. Biological Sciences*, 290(2011), 20231576. <https://doi.org/10.1098/rspb.2023.1576>

Torricelli, F., Tomassini, A., Pezzulo, G., Pozzo, T., Fadiga, L., & D'Ausilio, A. (2023). Motor invariants in action execution and perception. *Physics of Life Reviews*, 44, 13–47. <https://doi.org/10.1016/j.plrev.2022.11.003>

Laroche, J., Tomassini, A., Volpe, G., Camurri, A., Fadiga, L., & D'Ausilio, A. (2022). Interpersonal sensorimotor communication shapes intrapersonal coordination in a musical ensemble. *Frontiers in Human Neuroscience*, 16: 899676. <https://doi.org/10.3389/fnhum.2022.899676>

Pastore, A., Tomassini, A., Delis, I., Dolfini, E., Fadiga, L., & D'Ausilio, A. (2022). Speech listening entails neural encoding of invisible articulatory features. *NeuroImage*, 264, 119724. <https://doi.org/10.1016/j.neuroimage.2022.119724>

Tomassini, A., Laroche, J., Emanuele, M., Nazzaro, G., Petrone, N., Fadiga, L. & D'Ausilio, A. (2022). Interpersonal synchronization of movement intermittency. *iScience*, 25(4), 104096. <https://doi.org/10.1016/j.isci.2022.104096>

**252/20 – “Neurophysiological bases of decision-making processes: Dissociating risk and uncertainty in the human brain”**

Investigadores/Researchers: Tiago Paiva, Carina Fernandes, Fernando Barbosa, João Marques-Teixeira, Fernando Ferreira-Santos, Carlos Seixas, Rita Pasion, Carlos Campos

Instituição/Institution: Laboratory of Neuropsychophysiology, Faculty of Psychology and Educational Sciences, University of Porto (Portugal)

Duração prevista/Estimated duration: 2021/06 – 2026/08

*Peer-reviewed publications*

Botelho, C., Fernandes, C., Campos, C., Seixas, C., Pasion, R., Garcez, H., Ferreira-Santos, F., Barbosa, F., Marques-Teixeira, J., & Paiva, T. O. (2023). Uncertainty deconstructed: conceptual analysis and state-of-the-art review of the ERP correlates of risk and ambiguity in decision-making. *Cognitive, Affective & Behavioral Neuroscience*, 23(3), 522–542. <https://doi.org/10.3758/s13415-023-01101-8>

**258/20 – “In God's shoes: Embodying the avatar of the supreme moral authority modulates psychophysiological indices of one's own morality”**

Investigadores/Researchers: Salvatore Maria Aglioti, Michael Schepisi, Althea Frisanco, Gaetano Tieri

Instituição/Institution: Department of Psychology, “Sapienza” University of Rome (Italy), GIGA-Consciousness, University of Liège (Belgium)

Duração/Duration: 2021/06 – 2023/09

*Peer-reviewed publications*

Frisanco, A., Schepisi, M., Tieri, G., & Aglioti, S. M. (2024). Does embodying a divine avatar influence moral decisions? An immersive virtual reality study. *Cyberpsychology, Behavior and Social Networking*, 27(7), 482–489. <https://doi.org/10.1089/cyber.2023.0242>

Frisanco, A., Schepisi, M., Tieri, G., & Aglioti, S. M. (2022). Embodying the avatar of an omnipotent agent modulates the perception of one's own abilities and enhances feelings of invulnerability. *Scientific Reports*, 12(1), 21585. <https://doi.org/10.1038/s41598-022-26016-1>

**263/20 – Brain routes to creativity: Uncovering creative flow in Jazz with neuromodulation**

Investigadores/Researchers: Henrique Fernandes, Jakub Vohryzek, Ana Coelho, Morten Kringelbach, Peter Vuust

Instituição/Institution: Center for Music in the Brain, Department of Clinical Medicine, Aarhus University (Denmark); University of Oxford (UK)

Duração/Duration: 2021/01 – 2023/03

*Peer-reviewed publications*

Da Mota, P. A., Fernandes, H. M., Lourenço Queiroga, A. T., Stark, E., Vohryzek, J., Cabral, J., Heggli, O. A., Sousa, N., Deco, G., Kringelbach, M., & Vuust, P. (2025). Creativity in music: The brain dynamics of jazz improvisation. *Annals of the New York Academy of Sciences*, 1553(1), 350–362. <https://doi.org/10.1111/nyas.70042>

**272/20 – “Advancements on the aware mind-brain: New insights about the neural correlates of meditation states and traits”**

Investigadores/Researchers: Antonino Raffone, Vasil Kolev, Peter Malinowski, Juliana Yordanova, Roumen Kirov

Instituição/Institution: Department of Psychology, “Sapienza” University of Rome (Italy); Bulgarian Academy of Sciences, Sofia (Bulgaria); Liverpool John Moores University (UK)

Duração/Duration: 2021/03 – 2024/09

*Peer-reviewed publications*

Kolev, V., Beshkov, K., Malinowski, P., Raffone, A., & Yordanova, J. (2026). Distinct patterns of directed brain connectivity in focused attention, open monitoring, and loving kindness meditation: An electroencephalographic Granger causality study with long-term meditators. *Journal of Cognitive Neuroscience*, 38(8), 1527–1540. <https://doi.org/10.1162/JOCN.a.2593>

Chiarella, S. G., Ortame, L., Simione, L., Pazzaglia, M., Di Pace, E., & Raffone, A. (2025). The effects of focused attention and open monitoring meditation on interval duration estimation and passage of time

judgments in non-meditators. *Mindfulness*, 16(10), 2930–2946. <https://doi.org/10.1007/s12671-025-02650-4>

Chiarella, S. G., Simone, L., D'Angiò, M., Saracini, C., Raffone, A., & Di Pace, E. (2025). Implicit observational learning of second-order conditional repeated sequences presented in rapid serial visual presentation. *Consciousness and Cognition*, 137, 103967. <https://doi.org/10.1016/j.concog.2025.103967>

Yordanova, J., Nicolardi, V., Malinowski, P., Simone, L., Aglioti, S. M., Raffone, A., & Kolev, V. (2025). EEG oscillations reveal neuroplastic changes in pain processing associated with long-term meditation. *Scientific Reports*, 15(1), 10604. <https://doi.org/10.1038/s41598-025-94223-7>

Berkovich-Ohana, A., Brown, K. W., Gallagher, S., Barendregt, H., Bauer, P., Giommi, F., Nyklíček, I., Ostafin, B., Raffone, A., Slagter, H. A., Trautwein, F.-M., Vago, D., & Amaro, A. (2024). Pattern theory of selflessness: How meditation may transform the self-pattern. *Mindfulness*, 15, 2114–2140. <https://doi.org/10.1007/s12671-024-02418-2>

Gallagher, S., Raffone, A., & Aglioti, S. M. (2024). The pattern theory of compassion. *Trends in Cognitive Sciences*, 28(6), 504–516. <https://doi.org/10.1016/j.tics.2024.04.005>

Pieroni, I., Raffone, A., & Simone, L. (2024). Sleep reactivity mediates the relationship between sensory-processing sensitivity and insomnia symptoms severity: A cross-sectional correlational study. *Stress and Health: Journal of the International Society for the Investigation of Stress*, 40(2), e3297. <https://doi.org/10.1002/smi.3297>

Colombo, S. L., Chiarella, S. G., Lefrançois, C., Fradin, J., Simone, L., Raffone, A. (2023). Probing pro-environmental behaviour: A systematic review on its relationship with executive functions and self-regulation processes. *Journal of Environmental Psychology*, 92, 102153. <https://doi.org/10.1016/j.jenvp.2023.102153>

## **276/20 – “Beyond your own body: Extending the bodily self to the neuroaesthetics of interactions”**

Investigadores/Researchers: Andrea Orlandi, Matteo Candidi, Martina Fanghella, Quentin Moreau

Instituição/Institution: Department of Psychology, “Sapienza” University of Rome (Italy)

Duração prevista/Estimated duration: 2021/02 – 2026/08

### *Peer-reviewed publications*

Orlandi, A., & Candidi, M. (2025). Toward a neuroaesthetics of interactions: Insights from dance on the aesthetics of individual and interacting bodies. *iScience*, 28(5), 112365. <https://doi.org/10.1016/j.isci.2025.112365>

Fanghella, M., Era, V., & Candidi, M. (2021). Interpersonal motor interactions shape multisensory representations of the peripersonal space. *Brain Sciences*, 11(2):255. <https://doi.org/10.3390/brainsci11020255>

## **284/20 – “The whole is more than the sum of its parts: Elucidating the link between sleep quality and well-being by integrating cross-modal networks”**

Investigadores/Researchers: Tessa Blanken, Denny Borsboom

Instituição/Institution: Department of Psychology, University of Amsterdam (The Netherlands)

Duração/Duration: 2021/09 – 2023/03

### *Peer-reviewed publications*

Burger, J., Andikhash, V., Jäger, N., Anderbro, T., Blanken, T. F., & Klintwall, L. (2024). A novel approach for constructing personalized networks from longitudinal perceived causal relations. *Behaviour Research and Therapy*, 173, 104456. <https://doi.org/10.1016/j.brat.2023.104456>

Lunansky, G., Hoekstra, R. H. A., & Blanken, T. F. (2023). Disentangling the role of affect in the evolution of depressive complaints using complex dynamical networks. *Collabra: Psychology*, 9(1), 74841. <https://doi.org/10.1525/collabra.74841>

Lancee, J., Harvey, A., Morin, C., Ivers, H., van der Zweerde, T. & Blanken, T. (2022). Network intervention analyses of cognitive therapy and behavior therapy for insomnia: Symptom specific effects and process measures. *Behaviour Research and Therapy*, 153, 104100. <https://doi.org/10.1016/j.brat.2022.104100>

Chattratrai, T., Blanken, T., Lobbezoo, F., Su, N., Aarab, G. & Van Someren, E. (2022). A network analysis of self-reported sleep bruxism in the Netherlands sleep registry: Its associations with insomnia and several demographic, psychological, and life-style factors. *Sleep Medicine*, 93, 63-70. <https://doi.org/10.1016/j.sleep.2022.03.018>

Blanken, T. F., Bathelt, J., Deserno, M. K., Voge, L., Borsboom, D., & Douw, L. (2021). Connecting brain and behavior in clinical neuroscience: A network approach. *Neuroscience and Biobehavioral Reviews*, 130, 81-90. <https://doi.org/10.1016/j.neubiorev.2021.07.027>



## 287/20 – “Title: Emotional distraction: Contextual modulation of attentional capture”

Investigadores/Researchers: Maurizio Codispoti, Cristina Filannino

Instituição/Institution: Department of Psychology, University of Bologna (Italy)

Duração/Duration: 2021/04 – 2023/02

### Peer-reviewed publications

Codispoti, M., De Cesarei, A., & Ferrari, V. (2023). Alpha-band oscillations and emotion: A review of studies on picture perception. *Psychophysiology*, 60(12), e14438. <https://doi.org/10.1111/psyp.14438>

Ferrari, V., Canturi, F., & Codispoti, M. (2021). Stimulus novelty and emotionality interact in the processing of visual distractors. *Biological Psychology*, 108238. <https://doi.org/10.1016/j.biopsycho.2021.108238>

## 288/20 – “The origin of the sublime power in the brain: An integrated EEG-TMS study”

Investigadores/Researchers: Eleonora Maggioni, Paolo Brambilla, Giandomenico Schiena, Alice Chirico, Andrea Gaggioli, Maddalena Mazzocut-Mis

Instituição/Institution: Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan (Italy);

Università Cattolica del Sacro Cuore, Milan (Italy); Università degli Studi di Milano (Italy)

Duração/Duration: 2021/04 – 2025/05

### Peer-reviewed publications

Bondi, E., Carbone, F., Schiena, G., Massalha, Y., Marra, M., Di Consoli, L., Mazzocut-Mis, M., Gaggioli, A., Chirico, A., Brambilla, P., & Maggioni, E. (2026). The neurobiological basis of the awe experience in affective disorders: an exploratory EEG study. *Frontiers in Systems Neuroscience*, 20, 1805778. <https://doi.org/10.3389/fnsys.2026.1805778>

Carbone, F., Bondi, E., Pizzolante, M., Massalha, Y., Anastasi, A., Ferro, A., Schiena, G., Coelli, S., Bianchi, A. M., Gaggioli, A., Mazzocut-Mis, M., Chirico, A., Brambilla, P., & Maggioni, E. (2026). Brain response to awe experiences in virtual reality: An integrated linear and nonlinear EEG analysis. *NeuroImage*, 338, Article 122075. <https://doi.org/10.1016/j.neuroimage.2026.122075>

Bondi, E., Carbone, F., Pizzolante, M., Schiena, G., Ferro, A., Mazzocut-Mis, M., Gaggioli, A., Chirico, A., Brambilla, P., & Maggioni, E. (2025). Integrating virtual reality, electroencephalography, and transcranial magnetic stimulation to study the neural correlates of awe experiences: The SUBRAIN protocol. *PloS One*, 20(4), e0302762. <https://doi.org/10.1371/journal.pone.0302762>

Bondi, E., Pescuma, V., Massalha, Y., Pizzolante, M., Chirico, A., Schiena, G., Bianchi, A. M., Brambilla, P., & Maggioni, E. (2024). A TMS-EEG pre-processing parameters tuning study. In A. Badnjevic & L. Gurbeta Pokvic (Eds.), *MEDICON'23 and CMBEBIH'23: MEDICON CMBEBIH 2023* (Vol. 93). Springer, Cham. [https://doi.org/10.1007/978-3-031-49062-0\\_19](https://doi.org/10.1007/978-3-031-49062-0_19)

Bruin, W. B., Zhutovsky, P., van Wingen, G. A., Bas-Hoogendam, J. M., Groenewold, N. A., Hilbert, K., Winkler, A. M., Zugman, A., Agosta, F., Áhs, F., Andreescu, C., Antonacci, C., Asami, T., Assaf, M., Barber, J. P., Bauer, J., Bavdekar, S. Y., Beesdo-Baum, K., Benedetti, F., ... Aghajani, M. (2024). Brain-based classification of youth with anxiety disorders: Transdiagnostic examinations within the ENIGMA-Anxiety database using machine learning. *Nature Mental Health*, 2(104–118). <https://doi.org/10.1038/s44220-023-00173-2>

Chirico, A., Borghesi, F., Yaden, D. B., Pizzolante, M., Sarcinella, E. D., Cipresso, P., & Gaggioli, A. (2024). Unveiling the underlying structure of awe in virtual reality and in autobiographical recall: an exploratory study. *Scientific Reports*, 14(1), 12474. <https://doi.org/10.1038/s41598-024-62654-3>

Bondi, E., Maggioni, E., Brambilla, P., & Delvecchio, G. (2023). A systematic review on the potential use of machine learning to classify major depressive disorder from healthy controls using resting state fMRI measures. *Neuroscience and Biobehavioral Reviews*, 144, 104972. <https://doi.org/10.1016/j.neubiorev.2022.104972>

Del Fabro, L., Bondi, E., Serio, F., Maggioni, E., D'Agostino, A., & Brambilla, P. (2023). Machine learning methods to predict outcomes of pharmacological treatment in psychosis. *Translational Psychiatry*, 13, 75. <https://doi.org/10.1038/s41398-023-02371-z>

Maggioni, E., Piani, M. C., Bondi, E., Bianchi, A. M., & Brambilla, P. (2023). Multimodal integration in psychiatry: Clinical potential and challenges. In D. Stoyanov, B., Draganski, P., Brambilla, & C., Lamm (Eds.), *Computational Neuroscience* (pp. 235–256). Humana. [https://doi.org/10.1007/978-1-0716-3230-7\\_15](https://doi.org/10.1007/978-1-0716-3230-7_15)

Maggioni, E., Rossetti, M. G., Allen, N. B., Batalla, A., Bellani, M., Chye, Y., Cousijn, J., Goudriaan, A. E., Hester, R., Hutchison, K., Li, C. R., Martin-Santos, R., Momenan, R., Sinha, R., Schmaal, L., Solowij, N., Suo, C., van Holst, R. J., Veltman, D. J., Yücel, M., ... Lorenzetti, V. (2023). Brain volumes in alcohol use disorder: Do females and males differ? A whole-brain magnetic resonance imaging mega-analysis. *Human Brain Mapping*, 44(13), 4652–4666. <https://doi.org/10.1002/hbm.26404>

Tassi, E., Maggioni, E., Mauri, M., Fagnani, C., Agarwal, N., Bianchi, A. M., Stazi, M. A., Nobile, M., & Brambilla, P. (2023). Environmental effects on brain functional networks in a juvenile twin population. *Scientific Reports*, 13(1), 3921. <https://doi.org/10.1038/s41598-023-30672-2>

Tomasino, B., Maggioni, E., Piani, M. C., Bonivento, C., D'Agostini, S., Balestrieri, M., & Brambilla, P. (2023). The mental simulation of state/psychological stimuli in anxiety disorders: A 3T fMRI study. *Journal of Affective Disorders*, 345, 435–442. <https://doi.org/10.1016/j.jad.2023.10.079>

### **293/20 – “Closing the loop: Using real-time EEG to mutually enlighten first and third-person perspectives on the self”**

Investigador/Researcher: Fynn-Mathis Trautwein, Lukas Hecker, Stefan Schmidt

Instituição/Institution: Department of Psychosomatic Medicine and Psychotherapy, University Medical Center Freiburg (Germany)

Duração/Duration: 2021/10 – 2025/06

*Peer-reviewed publications*

Röhr, H., Atad, D. A., Trautwein, F., Mediano, P. A. M., & Dor-Ziderman, Y. (2026). Decoding the self: Single-trial prediction of self-boundary meditation states from magnetoencephalography recordings. *Human Brain Mapping*, 47(1), e70440. <https://doi.org/10.1002/hbm.70440>

### **295/20 – “Peace of mind and emotion regulation: Survey-based, behavioural, and neuroscientific investigations”**

Investigador/Researcher: Pilleriin Sikka

Instituição/Institution: Department of Psychology and Speech-Language Pathology, University of Turku (Finland)

Duração/Duration: 2021/03 – 2025/10

*Peer-reviewed publications*

Lin, E., Grassini, S., Railo, H., Strid, N., Revonsuo, A., & Sikka, P. (2026). Fear in dreams predicts stronger affect reactivity in wakefulness. *Sleep*. Advance online publication. <https://doi.org/10.1093/sleep/zsag203>

Jylkkä, J., Väyrynen, H., Lin, E., Walldén, C., Krabbe, A., Kähönen, J., & Sikka, P. (2025). Meditation and psychedelics facilitate similar types of mystical, psychological, and philosophical-existential insights predictive of wellbeing: A qualitative-quantitative approach. *Consciousness and Cognition*, 133, Article 103901. <https://doi.org/10.1016/j.concog.2025.103901>

Krabbe, A., Sikka, P., & Jylkkä, J. (2026). The interplay of psychedelic use and meditation in shaping psychological well-being. *Consciousness and Cognition*, 137, 103977. <https://doi.org/10.1016/j.concog.2025.103977>

Krabbe, A., Sikka, P., & Jylkkä, J. (2024). Acceptance as a possible link between past psychedelic experiences and psychological flexibility. *Scientific Reports*, 14, 24253. <https://doi.org/10.1038/s41598-024-75595-8>

Sikka, P., Revonsuo, A., & Gross, J. J. (2023). Individual differences in peace of mind reflect adaptive emotion regulation. *Personality and Individual Differences*, 215, 112378. <https://doi.org/10.1016/j.paid.2023.112378>

### **309/20 – “Assessing static and dynamic effects of mindfulness meditation on peripersonal space”**

Investigadores/Researchers: Luca Simone, Salvatore Chiarella

Instituição/Institution: Institute of Cognitive Sciences and Technologies, Italian National Research Council – CNR, Rome (Italy)

Duração/Duration: 2021/11 – 2024/04

*Peer-reviewed publications*

Chiarella, S. G., Ortame, L., Simone, L., Pazzaglia, M., Di Pace, E., & Raffone, A. (2025). The effects of focused attention and open monitoring meditation on interval duration estimation and passage of time judgments in non-meditators. *Mindfulness*, 16(10), 2930–2946. <https://doi.org/10.1007/s12671-025-02650-4>

Chiarella, S. G., Simone, L., D'Angiò, M., Saracini, C., Raffone, A., & Di Pace, E. (2025). Implicit observational learning of second-order conditional repeated sequences presented in rapid serial visual presentation. *Consciousness and Cognition*, 137, 103967. <https://doi.org/10.1016/j.concog.2025.103967>

Chiarella, S. G., De Pastina, R., Raffone, A., & Simone, L. (2024). Mindfulness affects the boundaries of bodily self-representation: The effect of focused-attention meditation in fading the boundary of peripersonal space. *Behavioral Sciences*, 14(4), 306. <https://doi.org/10.3390/bs14040306>

Pieroni, I., Raffone, A., & Simone, L. (2024). Sleep reactivity mediates the relationship between sensory-processing sensitivity and insomnia symptoms severity: A cross-sectional correlational study.

*Stress and Health: Journal of the International Society for the Investigation of Stress*, 40(2), e3297. <https://doi.org/10.1002/smi.3297>

Chiarella, S. G., Simione, L., D'Angiò, M., Raffone, A., & Di Pace, E. (2023). The mechanisms of selective attention in phenomenal consciousness. *Consciousness and Cognition*, 107, 103446. <https://doi.org/10.1016/j.concog.2022.103446>

Colombo, S. L., Chiarella, S. G., Lefrançois, C., Fradin, J., Simione, L., Raffone, A. (2023). Probing pro-environmental behaviour: A systematic review on its relationship with executive functions and self-regulation processes. *Journal of Environmental Psychology*, 92, 102153. <https://doi.org/10.1016/j.jenvp.2023.102153>

Simione, L., & Saldarini, F. A. (2023). Critical review of the monitor and acceptance theory of mindfulness. *Mindfulness*, 14, 1317–1328. <https://doi.org/10.1007/s12671-023-02129-0>

Simione, L., De Berardinis, C., Calabrese, L., & Raffone, A. (2022). Validation of the Italian translation of the Philadelphia mindfulness scale. *Mindfulness*, 13, 2186–2201. <https://doi.org/10.1007/s12671-022-01947-y>

Simione, L., Vabba, A., Raffone, A., & Mirolli, M. (2022). Pupil dilation and self-reported emotional response to IAPS pictures: The role of emotional regulation and trait mindfulness. *2022 IEEE International Conference on Metrology for Extended Reality, Artificial Intelligence and Neural Engineering* (pp. 471–476), Rome, Italy. <https://doi.org/10.1109/MetroXRAINE54828.2022.9967538>

### **311/20 – “How body ownership shapes tactile awareness: Inducing phantom sensations and measuring their electrophysiological correlates in immersive virtual reality”**

Investigadores/Researchers: Carlotta Fossataro, Valentina Bruno, Alice Rossi Sebastiano, Francesca Garbarini

Instituição/Institution: Department of Psychology, University of Turin (Italy)

Duração/Duration: 2021/04 – 2024/01

#### *Peer-reviewed publications*

Pisoni, A.\*, Fossataro, C.\*, Sebastiano, A. R., Romeo, M., Arrigoni, E., Lauro, L. J. R., Bolognini, N., & Garbarini, F. (2025). Body ownership gates tactile awareness by reshaping the somatosensory functional connectivity. *Proceedings of the National Academy of Sciences*, 122(51), e2513533122. <https://doi.org/10.1073/PNAS.2513533122>

Fossataro, C., Noel, J., & Bruno, V. (2024). Editorial: The bodily self in the multisensory world. *Frontiers in Human Neuroscience*, 18. <https://doi.org/10.3389/fnhum.2024.1418014>

Sebastiano, A. R., Poles, K., Gualtieri, S., Romeo, M., Galigani, M., Bruno, V., Fossataro, C., & Garbarini, F. (2024). Balancing the senses: Electrophysiological responses reveal the interplay between somatosensory and visual processing during body-related multisensory conflict. *Journal of Neuroscience*, 44(19), Article e1397232024. <https://doi.org/10.1523/JNEUROSCI.1397-23.2024>

Del Vecchio, M., De Marco, D., Pigorini, A., Fossataro, C., Cassisi, A., & Avanzini, P. (2022). The vision of haptics tunes the somatosensory threshold. *Neuroscience Letters*, 787, 136823. <https://doi.org/10.1016/j.neulet.2022.136823>

Fossataro, C., Galigani, M., Rossi Sebastiano, A., Bruno, V., Ronga, I., & Garbarini, F. (2022). Spatial proximity to others induces plastic changes in the neural representation of the peripersonal space. *iScience*, 26(1), 105879. <https://doi.org/10.1016/j.isci.2022.105879>

Rossi Sebastiano, A., Bruno, V., Ronga, I., Fossataro, C., Galigani, M., Neppi-Modona, M., & Garbarini, F. (2022). Diametrical modulation of tactile and visual perceptual thresholds during the rubber hand illusion: a predictive coding account. *Psychological Research*, 86(6), 1830–1846. <https://doi.org/10.1007/s00426-0>

Rossi Sebastiano, A., Ronga, I., Fossataro, C., Galigani, M., Poles, K., & Garbarini, F. (2022). Multisensory-driven facilitation within the peripersonal space is modulated by the expectations about stimulus location on the body. *Scientific Reports*, 12(1), 20061. <https://doi.org/10.1038/s41598-022-21469-w>

Del Vecchio, M., Fossataro, C., Zauli, F. M., Sartori, I., Pigorini, A., d'Orto, P., Abarrategui, B., Russo, S., Mikulan, E. P., Caruana, F., Rizzolatti, G., Garbarini, F., & Avanzini, P. (2021). Tonic somatosensory responses and deficits of tactile awareness converge in the parietal operculum. *Brain*, 144(12), 3779–3787. <https://doi.org/10.1093/brain/awab384>

### 333/20 – “Mindfulness and psychedelics: A neurophenomenological approach to the characterization of acute and sustained response to DMT in experienced meditators”

Investigadores/Researchers: Milan Scheidegger, Daniel Meling, Michael Kometer, Dario Dornbierer

Instituição/Institution: Department of Psychiatry, Psychotherapy and Psychosomatics, Psychiatric Hospital, University of Zurich (Switzerland); University Medical Center Freiburg (Germany)

Duração/duration: 2021/10 – 2024/05

#### Peer-reviewed publications

Schlomberg, J. T. T., Meling, D., Grylka, R., Vasella, E. A., Augustinovic, D., & Scheidegger, M. (2026). Mixed-methods analysis on psychedelic-augmented meditation experiences from a randomized controlled mindfulness retreat. *Scientific Reports*, 16(1), 14236. <https://doi.org/10.1038/s41598-026-39261-5>

Aicher, H. D., Wicki, I. A., Meling, D., Mueller, M. J., Dornbierer, D. A., & Scheidegger, M. (2025). Enhancing mindfulness and compassion through an ayahuasca-inspired formulation containing N,N-DMT and harmine: A randomized controlled trial in healthy subjects. *Journal of Psychopharmacology*. Advance online publication. <https://doi.org/10.1177/02698811251344689>

Beyköylü, H., Vervaeke, J., & Meling, D. (2026). From flow to mystical experiences: Connecting entropy and fluency along the unifying framework of cognitive continuum. *Philosophical Psychology*, 39(5), 1810–1858. <https://doi.org/10.1080/09515089.2025.2601717>

Egger, K., Meling, D., Polat, F., Seifritz, E., Avram, M., & Scheidegger, M. (2025). Meditation, psychedelics, and brain connectivity: A randomized controlled resting-state fMRI study of N,N-dimethyltryptamine and harmine in a meditation retreat. *Imaging Neuroscience*, 3, Article IMAG.a.907. <https://doi.org/10.1162/IMAG.a.907>

Mueller, M. J., Aicher, H. D., Dornbierer, D. A., Marten, L., Suay, D., Meling, D., Elsner, C., Wicki, I. A., Müller, J., Poetzsch, S. N., Caflisch, L., Hempe, A., Steinhart, C. P., Puchkov, M., Kost, J., Landolt, H. P., Seifritz, E., Quednow, B. B., & Scheidegger, M. (2025). Pharmacokinetics and pharmacodynamics of an innovative psychedelic N,N-Dimethyltryptamine/Harmine formulation in healthy participants: A randomized controlled trial. *The International Journal of Neuropsychopharmacology*, 28(1), pyaf001. <https://doi.org/10.1093/ijnp/pyaf001>

Aicher, H. D., Mueller, M. J., Dornbierer, D. A., Suay, D., Elsner, C., Wicki, I., Meling, D., Caflisch, L., Hempe, A., Steinhart, C., Mueller, J., Von Rotz, R., Kleim, B., & Scheidegger, M. (2024). Potential therapeutic effects of an ayahuasca-inspired N,N-DMT and harmine formulation: a controlled trial in healthy subjects. *Frontiers in Psychiatry*, 14, 1302559. <https://doi.org/10.3389/fpsyg.2023.1302559>

Meling, D., Egger, K., Aicher, H. D., Jareño Redondo, J., Mueller, J., Dornbierer, J., Temperli, E., Vasella, E. A., Caflisch, L., Pfeiffer, D. J., Schlomberg, J. T., Smallridge, J. W., Dornbierer, D. A., & Scheidegger, M. (2024). Meditating on psychedelics. A randomized placebo-controlled study of DMT and harmine in a mindfulness retreat. *Journal of Psychopharmacology*, 38(10), 897–910. <https://doi.org/10.1177/02698811241282637>

Singer, B., Meling, D., Hirsch-Hoffmann, M., Michels, L., Kometer, M., Smigielski, L., Dornbierer, D., Seifritz, E., Vollenweider, F. X., & Scheidegger, M. (2024). Psilocybin enhances insightfulness in meditation: A perspective on the global topology of brain imaging during meditation. *Scientific Reports*, 14, 7211. <https://doi.org/10.1038/s41598-024-55726-x>

Meling, D., & Scheidegger, M. (2023). Not in the drug, not in the brain: Causality in psychedelic experiences from an enactive perspective. *Frontiers in Psychology*, 14, 1100058. <https://doi.org/10.3389/fpsyg.2023.1100058>

Meling, D. (2022). Knowing the knowing. Non-dual meditative practice from an enactive perspective. *Frontiers in Psychology*, 13: 778817. <https://doi.org/10.3389/fpsyg.2022.778817>

### 343/20 – “Italian research group on mediumship: Mediumistic abilities testing protocol”

Investigadores/Researchers: Laura Liberale, Patrizio Tressoldi, Ines Testoni, Sara Pompele, Erika Iacona, Gianmarco Biancalani

Instituição/Institution: Nemesi Aps, Padova (Italy)

Duração/Duration: 2021/01 – 2024/05

#### Peer-reviewed publications

Testoni, I., Pompele, S., & Liberale, L. (2023). What does it mean to be a medium? A qualitative research on the mediumship experience in Italy. *European Journal of Science and Theology*, 19(4), 119–137.

Testoni, I., Pompele, S., Liberale, L., & Tressoldi, P. (2022). Limits and meanings to the challenging territory of mediumship: A qualitative study with grieverers. *European Journal of Science and Theology*, 18(3), 97–109.



Tressoldi, P., Liberale, L., & Sinesio, F. (2022). Is there someone in the hereafter? Mediumship accuracy of 100 readings obtained with a triple level of blinding protocol. *Omega - Journal of Death and Dying*, 0(0). <https://doi.org/10.1177/00302228221146376>

Tressoldi, P., Liberale, L., Sinesio, F., Bubba, V., Pederzoli, L., & Testoni, I. (2022). Mediumship accuracy: A quantitative and qualitative study with a triple-blind protocol. *Explore: The Journal of Science & Healing*, 18(4), 411–415. <https://doi.org/10.1016/j.explore.2021.05.009>

#### **344/20 – “Title: Evaluation of psychological traits, pain perception and muscular strength in trance experts”**

Investigadores/Researchers: Olivia Gosseries, Paul Hollanders, Yannick Lafon

Instituição/Institution: GIGA Research Center, GIGA-Consciousness, University of Liège (Belgium)

Duração prevista/Estimated duration: 2022/01 – 2026/08

##### *Peer-reviewed publications*

Rasuli, B., Seyfzadeh, F., Thibaut, A., & Gosseries, O. (2026). The role of preprints in neuroscience scholarly communication: A citation analysis. *Quantitative Science Studies*. Advance Publication. <https://doi.org/10.1162/QSS.a.490>

Girard Pepin, R., Seyfzadeh, F., Williamson, D., Gosseries, O., & Duclos, C. (2025). Pharmacological therapies for early and long-term recovery in disorders of consciousness: Current knowledge and promising avenues. *Expert Review of Neurotherapeutics*, 25(6), 613–633. <https://doi.org/10.1080/14737175.2025.2500757>

Kumar, P. G., Panda, R., Sharma, K., Adarsh, A., Annen, J., Martial, C., Faymonville, M.-E., Laureys, S., Sombrun, C., Ganesan, R. A., Vanhaudenhuyse, A., & Gosseries, O. (2024). Changes in high-order interaction measures of synergy and redundancy during non-ordinary states of consciousness induced by meditation, hypnosis, and auto-induced cognitive trance. *NeuroImage*, 293, 120623. <https://doi.org/10.1016/j.neuroimage.2024.120623>

Marie, N., Lafon, Y., Bicego, A., Grégoire, C., Rousseaux, F., Bioy, A., Vanhaudenhuyse, A., & Gosseries, O. (2024). Scoping review on shamanistic trances practices. *BMC Complementary Medicine and Therapies*, 24(1), 381. <https://doi.org/10.1186/s12906-024-04678-w>

Bonin, E. A. C., Lejeune, N., Szymkowicz, E., Bonhomme, V., Martial, C., Gosseries, O., Laureys, S., & Thibaut, A. (2023). Assessment and management of pain/nociception in patients with disorders of consciousness or locked-in syndrome: A narrative review. *Frontiers in Systems Neuroscience*, 17, 1112206. <https://doi.org/10.3389/fnsys.2023.1112206>

Rousseaux, F., Panda, R., Toussaint, C., Bicego, A., Niimi, M., Faymonville, M. E., Nyssen, A. S., Laureys, S., Gosseries, O., & Vanhaudenhuyse, A. (2023). Virtual reality hypnosis in the management of pain: Self-reported and neurophysiological measures in healthy subjects. *European Journal of Pain*, 27(1), 148–162. <https://doi.org/10.1002/ejp.2045>

Timmermann, C., Bauer, P. R., Gosseries, O., Vanhaudenhuyse, A., Vollenweider, F., Laureys, S., Singer, T., Mind and Life Europe (MLE) ENCECON Research Group, Antonova, E., & Lutz, A. (2023). A neurophenomenological approach to non-ordinary states of consciousness: hypnosis, meditation, and psychedelics. *Trends in Cognitive Sciences*, 27(2), 139–159. <https://doi.org/10.1016/j.tics.2022.11.006>

#### **347/20 – “Open-label choice blindness: Exploring the mechanism underlying auto-suggestion”**

Investigadores/Researchers: Jeremy Olson, Despina Artenie, Ellen Langer, Jian Kong

Instituição/Institution: Department of Psychiatry, Massachusetts General Hospital, Harvard Medical School, Boston (USA); Department of Psychology, Harvard University, Cambridge (USA)

Duração/duration: 2022/05 – 2023/09

##### *Peer-reviewed publications*

Artenie, D. Z., Olson, J. A., Dupuis, G., Suisman, C. C., Casagrande, S. A. G., Akberdina, S., Roy, M., & Langer, E. J. (2025). Exploring the clinical utility of choice blindness: Generalization of effects and necessity of deception. *Psychology of Consciousness: Theory, Research, and Practice*, 12(4), 683–697. <https://doi.org/10.1037/cns0000372>

#### **356/20 – “Psi at home: An adaptable protocol for psi experiments with selected cohorts”**

Investigadores/Researchers: Peter Bancel, Mario Varvoglis, Jocelyne Boban, Miriam Gablier

Instituição/Institution: Institut Métapsychique International - IMI, Paris (France)

Duração/duration: 2021/02 – 2025/02

##### *Peer-reviewed publications*

Bancel, P., Varvoglis, M., Boban, J., & Bensahra, A. (2025). A Forced-choice Precognition Experiment with Selected Cohorts. *Journal of Anomalous Experience and Cognition*, 5(1), 14–46. <https://doi.org/10.31156/jaex.26394>

**358/20 – “Study of end-of-life paranormal phenomena recognized by palliative care health professionals in Portugal”**

Investigadores/Researchers: Úrsula Dalcolmo, Manuela Bertão, Francisca Rêgo, Luísa Castro

Instituição/Institution: Departamento de Medicina da Comunidade, Informação e Decisão em Saúde - MEDCIDS, Faculdade de Medicina da Universidade do Porto (Portugal)

Duração/duration: 2021/03 – 2024/04

*Peer-reviewed publications*

Bertão, M., Dalcolmo, Ú., & Rego, F. (2025). Deathbed phenomena, other end-of-life experiences and their effects in palliative care teams: A systematic review. *OMEGA - Journal of Death and Dying*, 0(0). <https://doi.org/10.1177/00302228251321203>

Dalcolmo, Ú., Bertão, M., Castro, L., & Rego, F. (2025). Study of end-of-life paranormal phenomena recognized by palliative care health professionals in Portugal. *Omega: Journal of Death and Dying*. Advance online publication. <https://doi.org/10.1177/00302228251347052>

Dalcolmo, Ú., Bertão, M., Hodge, D. R., Rego, F., & Castro, L. (2025). Translation and validation of the intrinsic spirituality scale to European Portuguese among medical students. *BMC Palliative Care*, 24(1), 68. <https://doi.org/10.1186/s12904-025-01714-5>

**360/20 – “Large scale online testing of psi abilities to identify and test talented individuals”**

Investigadores/Researchers: Arnaud Delorme

Instituição/Institution: Institute of Noetic Sciences, Petaluma (USA)

Duração/duration: 2021/04 – 2024/11

*Peer-reviewed publications*

Delorme, A., Wahbeh, H., & Radin, D. (2025). Testing the robustness of accurate intuitive abilities and assessment of reproducibility with a group of potentially talented individuals. *Journal of Consciousness Studies*, 32(1-2), 31-54. <https://doi.org/10.53765/20512201.32.1.031>

**369/20 – “A trait-and-state analysis of precognitive remote viewing focusing on gender, emotions, and pregnancy status”**

Investigadores/Researchers: Julia Mossbridge, Mark Boccuzzi, Kirsten Cameron

Instituição/Institution: The Institute for Love and Time - TILT, Sebastopol (USA); Windbridge Institute, LLC, Tucson (USA)

Duração/Duration: 2021/01 – 2022/09

*Peer-reviewed publications*

Mossbridge, J. A., Green, D., French, C. C., Pickering, A., & Abraham, D. (2025). Future dreams of electric sheep: Case study of a possibly precognitive lucid dreamer with AI scoring. *International Journal of Dream Research*, 18(2), 151–168. <https://doi.org/10.11588/ijodr.2025.2.108750>

Mossbridge, J., Cameron, K., & Boccuzzi, M. (2024). State, trait, and target parameters associated with accuracy in two online tests of precognitive remote viewin. *Journal of Anomalous Experience and Cognition*, 4(1), 88–121. <https://doi.org/10.31156/jaex.24743>

Mossbridge, J. (2023). Precognition at the boundaries: An empirical review and theoretical discussion. *Journal of Anomalous Experience and Cognition*, 3(1), 5-41. <https://doi.org/10.31156/jaex.24216>

**372/20 – “Dynamics of meditation: The influence of intensive shamatha training on posture, perception, endogenous neural activity, and predictive anticipatory activity during meditation”**

Investigadores/Researchers: Jonathan Schooler, Bruce Wallace, James Elliott

Instituição/Institution: Department of Psychological and Brain Sciences, University of California, Santa Barbara (USA)

Duração prevista/Estimated duration: 2022/02 – 2027/02

*Peer-reviewed publications*

Gross, M. E., Elliott, J. C., & Schooler, J. W. (2024). Why creatives don't find the oddball odd: Neural and psychological evidence for atypical salience processing. *Brain and Cognition*, 178, 106178. <https://doi.org/10.1016/j.bandc.2024.106178>

Schooler, J. W., & Riddle, J. (2024). Three dimensions of time: An approach for reconciling the discrepancies between experienced time and modern physics. *Possibility Studies & Society*, 0(0). <https://doi.org/10.1177/27538699241288704>

**380/20 – “Neuroanatomical correlates of wellbeing in a mindfulness and religious exercises program”**

Investigadores/Researchers: Paulo Dias, Ângela Leite, Bruno Nobre, Bruce Fischl

Instituição/Institution: Centre for Philosophical and Humanistic Studies, Universidade Católica Portuguesa, Braga (Portugal)

Duração/Duration: 2021/11 – 2026/03

*Peer-reviewed publications*

Leite, Â., Nobre, B., & Dias, P. (2024). Psychometric properties of Post-Critical Belief Scale and Centrality of Religiosity Scale: Portuguese versions. *Journal of Religion and Health*, 63, 3811–3828. <https://doi.org/10.1007/s10943-024-02135-z>

Leite, Â., Nobre, B., & Dias, P. C. (2024). Validation of the Portuguese Version of Hoge Intrinsic Motivation Religiosity Scale and Rohrbach and Jessor Religiosity Scale. *Journal of Psychology and Theology*, 52(1), 52-75. <https://doi.org/10.1177/00916471231189672>

**381/20 – “Pathways from prenatal and postnatal stress to sleep quality across childhoods: The role of the amygdala and cortisol”**

Investigadores/Researchers: Desana Kocavska, Annemarie Luik

Instituição/Institution: Department of Epidemiology, Erasmus Medical Center, Rotterdam (The Netherlands)

Duração/Duration: 2021/09 – 2024/04

*Peer-reviewed publications*

Kocavska, D., Schuurmans, I. K., Cecil, C. A. M., Jansen, P. W., van Someren, E. J. W., & Luik, A. I. (2023). A longitudinal study of stress during pregnancy, children's sleep and polygenic risk for poor sleep in the general pediatric population. *Research on Child and Adolescent Psychopathology*, 51(12), 1909–1918. <https://doi.org/10.1007/s10802-023-01097-2>

van de Langenberg, S., Kocavska, D. & Luik, A. (2022). The multidimensionality of sleep in population-based samples: A narrative review. *Journal of Sleep Research*, 31(4). <https://doi.org/10.1111/jsr.13608>

**384/20 – “Schema-based temporal memory in parietal cortex (SCHETEMP)”**

Investigadores/Researchers: Matteo Frisoni, Paolo Capotosto

Instituição/Institution: Department of Neurosciences, Imaging and Clinical Sciences, Università degli Studi G. d'Annunzio Chieti – Pescara (Italy)

Duração/Duration: 2021/10 – 2023/11

*Peer-reviewed publications*

Frisoni, M., Croce, P., Tosoni, A., Zappasodi, F., & Sestieri, C. (2025). Shared spectral fingerprints of temporal memory precision and representation of the temporal structure of complex narratives. *iScience*, 28(4), 112132. <https://doi.org/10.1016/j.isci.2025.112132>

Procida, F., Frisoni, M., Tullo, M. G., Tosoni, A., Perrucci, M. G., Chiacchiarretta, P., Guidotti, R., & Sestieri, C. (2025). Specialization for different memory dimensions in brain activity evoked by cued recollection. *NeuroImage*, 308, 121068. <https://doi.org/10.1016/j.neuroimage.2025.121068>

Frisoni, M., Bufagna, A., Tosoni, A., & Sestieri, C. (2024). Searching for linearity: Reconstructive processes reverse temporal scrambling in memory for movie scenes. *Psychological Reports*, 0(0). <https://doi.org/10.1177/00332941241282650>

Frisoni, M., Di Ghionno, M., Guidotti, R., Tosoni, A. & Sestieri, C. (2022). Effects of a narrative template on memory for the time of movie scenes: Automatic reshaping is independent of consolidation. *Psychological Research*, 87(2), 598-612. <https://doi.org/10.1007/s00426-022-01684-w>

Frisoni, M., Selvaggio, A., Tosoni, A., & Sestieri, C. (2023). Long-term memory for movie details: selective decay for verbal information at one week. *Memory*, 31(9), 1232-1243. <https://doi.org/10.1080/09658211.2023.2253568>

**387/20 – “AECKO: Towards a science of anomalous experience field studies”**

Investigadores/Researchers: Bryan Williams, Gerald Solfvin

Instituição/Institution: Psychical Research Foundation, Texas (USA)

Duração estimada/Estimated duration: 2021/10 – 2026/09

*Peer-reviewed publications*

Williams, B. J., & Solfvin, G. F. (2026). A conceptual replication and extension of William G. Roll's database of reported cases of the “Poltergeist”/RSPK-type: Preliminary survey. *Journal of Parapsychology*, 88, 62-92. <https://doi.org/10.30891/jopar.2025.01.07>

Auerbach, L., Hedva, B., Solfvin, G. F., & Williams, B. J. (2023). A virtually-facilitated investigation of anomalous household disturbances reported during the COVID-19 pandemic. *Journal of Parapsychology*, 87(1), 33–65. <https://doi.org/10.30891/jopar.2023.01.04>

### **391/20 – “Illuminating the dreamer's perceptual experiences”**

Investigadores/Researchers: Delphine Oudiette, Ken Paller, Susan Florczak, Karen Konkoly, Saba Al-youssef

Instituição/Institution: Institut du Cerveau, Paris (France); Cognitive Neuroscience Lab, Northwestern University, Evanston (USA)

Duração/Duration: 2022/02 – 2025/10

#### *Peer-reviewed publications*

Konkoly, K. R., Al-Youssef, S., Mazurek, C. Y., Mallett, R., Morris, D. J., Gales, A., Arnulf, I., Oudiette, D., & Paller, K. A. (2026). Using Real-time Reporting to Investigate Visual Experiences in Dreams. *Journal of Cognitive Neuroscience*, 38(2), 365–380. <https://doi.org/10.1162/JOCN.a.107>

Konkoly, K. R., Whitmore, N. W., Mallett, R., Mazurek, C. Y., & Paller, K. A. (2024). Provoking lucid dreams at home with sensory cues paired with pre-sleep cognitive training. *Consciousness and Cognition*, 125, 103759. <https://doi.org/10.1016/j.concog.2024.103759>

Mallett, R., Konkoly, K. R., Nielsen, T., Carr, M., & Paller, K. A. (2024). New strategies for the cognitive science of dreaming. *Trends in Cognitive Sciences*, 28(12), 1105–1117. <https://doi.org/10.1016/j.tics.2024.10.004>

Konkoly, K. R., Picard-Deland, C., Morris, D., & Mallett, R. (2023). Dreaming outside the box: Evidence for memory abstraction in REM sleep. *The Journal of Neuroscience*, 43(42), 6952–6953. <https://doi.org/10.1523/JNEUROSCI.1374-23.2023>

### **399/20 – “The plasticity of prayer: How speaking in tongues opens the mind”**

Investigadores/Researchers: Michael Lifshitz, Joshua Brahinsky, Samuel Veissière, Daniela Santucci

Instituição/Institution: Sir Mortimer B. Davis Jewish General Hospital, Lady Davis Institute for Medical Research, Montreal (Canada)

Duração/Duration: 2023/09 – 2025/11

#### *Peer-reviewed publications*

Brahinsky, J., Mago, J., Miller, M., Catherine, S., & Lifshitz, M. (2024). The spiral of attention, arousal, and release: A comparative phenomenology of Jhana meditation and speaking in tongues. *American Journal of Human Biology: The Official Journal of the Human Biology Council*, 36(12), e24189. <https://doi.org/10.1002/ajhb.24189>

### **“Mind-to-Mind Experiment: A multi-phase talent selection program and a potential enhancement technique for testing the hypothesis of interconnected minds”**

Investigador/Researcher: Dean Radin

Instituição/Institution: Institute of Noetic Sciences, California (USA)

Duração/Duration: 2024/03 – 2026/03

#### *Peer-reviewed publications*

Radin, D. (2025). Independent Replication of an “Excess Correlation” Effect in pH between Isolated Beakers of Water. *Journal of Biophysical Chemistry*, 16, 15-29. <https://doi.org/10.4236/jbpc.2025.162002>





## Apoios à Investigação Científica 2022/23 | Grants for Scientific Research 2022/23

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 03/22 – “The power of imagination: Neural effects of imagined placebo intake”

Investigador/Researcher: Anne Schienle

Instituição/Institution: Clinical Psychology, University of Graz (Austria)

Duração/Duration: 2023/03 – 2025/04

Peer-reviewed publications

Schienle, A., & Wabnegger, A. (2024). Neural correlates of expected and perceived treatment efficacy concerning open-label placebos for reducing emotional distress. *Brain Research Bulletin*, 219, 111121. <https://doi.org/10.1016/j.brainresbull.2024.111121>

Schienle, A., Kogler, W., Seibel, A., & Wabnegger, A. (2023). The pill you don't have to take that is still effective: Neural correlates of imaginary placebo intake for regulating disgust. *Social Cognitive and Affective Neuroscience*, 19(1), nsae021. <https://doi.org/10.1093/scan/nsae021>

### 06/22 – “Generating psi with enchanted spaces: A confirmatory study”

Investigador/Researcher: James Houran

Instituição/Institution: Integrated Knowledge Systems - IKS, Chatham (USA)

Duração/Duration: 2023/02 – 2024/03

Peer-reviewed publications

Houran, J., Laythe, B., & Little, C. (2024). Confirmatory study of anomalous experiences in enchanted spaces. *Journal of Anomalistics*, 24, 396-426. <https://doi.org/10.23793/zfa.2024.396>

Houran, J., & Laythe, B. (2023). Phenomenology of AI-Generated "Entity Encounter" Narratives. *Journal of Anomalous Experience and Cognition*, 3(2), 335-368. <https://doi.org/10.31156/jaex.25124>

Houran, J., Laythe, B., Little, C., & Houran, D. J. (2023). Rethinking a ghostly episode in the legacy literature. *Journal of Anomalistics*, 23, 77-102. <https://doi.org/10.23793/zfa.2023.xxx>

### 13/22 – “RE-thinking the role of the spatial memory system in cognitive MAPs (acronym: REMAP)”

Investigadores/Researchers: Luca Rinaldi, Marco Marelli

Instituição/Institution: Department of Brain and Behavioral Sciences, University of Pavia (Italy); Department of Psychology, Università degli Studi di Milano-Bicocca (Italy)

Duração prevista/Estimated duration: 2023/10 – 2026/10

Peer-reviewed publications

Gatti, D., Günther, F., & Rinaldi, L. (2024). A body map beyond perceptual experience. *Journal of Cognition*, 7(1), 22. <https://doi.org/10.5334/joc.347>

Gatti, D., Rodio, F., Rinaldi, L., & Marelli, M. (2024). On humans' (explicit) intuitions about the meaning of novel words. *Cognition*, 251, 105882. <https://doi.org/10.1016/j.cognition.2024.105882>

### 20/22 – “From psychiatric disorder to spiritual gift: Phenomenology and cerebral correlates of hearing voices”

Investigador/Researcher: Giulia Prete

Instituição/Institution: Department of Psychological, Health and Territorial Sciences, Università degli Studi "G. d'Annunzio" Chieti - Pescara (Italy)

Duração/Duration: 2023/06 – 2026/06

Peer-reviewed publications

Lucafò, C., Ceccato, I., Malatesta, G., Palumbo, R., Mammarella, N., Di Domenico, A., Tommasi, L., & Prete, G. (2025). The impact of religiosity, anxiety and depression on proneness to auditory hallucinations in healthy individuals. *BJPsych Open*, 11(4), e154. <https://doi.org/10.1192/bjo.2025.10775>

Prete, G., Rollo, B., Palumbo, R., Ceccato, I., Mammarella, N., Di Domenico, A., Capotosto, P., & Tommasi, L. (2024). Investigating the effect of rTMS over the temporoparietal cortex on the right ear advantage for perceived and imagined voices. *Scientific Reports*, 14, 24930. <https://doi.org/10.1038/s41598-024-75671-z>

**23/22 – “Investigating biochemical mechanisms underlying mind-matter interactions: Effect of intention on human cervical cancer cells properties via cryptochrome”**

Investigadores/Researchers: Yung-Jong Shiah, Chang-Tze Ricky Yu, Dean Radin

Graduate Institute of Counseling Psychology and Rehabilitation Counseling, National Kaohsiung Normal University, Taiwan (China); Department of Applied Chemistry, National Chi Nan University, Taiwan (China)

Duração/Duration: 2023/05 – 2025/09

*Peer-reviewed publications*

Yu, C.-T. R., Liao, Y. A., Radin, D. I., & Shiah, Y.-J. (2026). Intention-treated water inhibits migration of human glioblastoma cells via downregulation of motility-associated proteins. *Explore*, 22(5), 103454. <https://doi.org/10.1016/j.explore.2026.103454>

Yu, C.-T. R., Radin, D. I., Chu, C.-Y., & Shiah, Y.-J. (2025). Effects of intentionally-treated water on cell migration of human glioblastoma cells. *Explore*, 21(1), 103100. <https://doi.org/10.1016/j.explore.2024.103100>

**33/22 – “The influence of emotions on actions: Boosting brain network plasticity to ameliorate action control”**

Investigadores/Researchers: Sara Borgomaneri, Vincenzo Romei

Instituição/Institution: Department of Psychology, University of Bologna (Italy)

Duração/Duration: 2023/05 – 2025/05

*Peer-reviewed publications*

Arlati, N., Però, L., Lenzi, L., Quettier, T., Ippolito, G., Battaglia, S., & Borgomaneri, S. (2026). Online corticomotor modulations in action inhibition: Insights from TMS studies. *Journal of Affective Disorders*, 396, 120825. <https://doi.org/10.1016/j.jad.2025.120825>

Tarasi, L., Alamia, A., & Romei, V. (2026). Backward alpha band oscillations shape perceptual bias under probabilistic cues. *Communications Biology*, 9(1), 280. <https://doi.org/10.1038/s42003-026-09559-1>

Tarasi, L., Covelli, M., Bertini, C., & Romei, V. (2026). A novel bias-free approach for robust perceptual threshold estimation. *Behavior Research Methods*, 58(6), 157. <https://doi.org/10.3758/s13428-026-03038-5>

Borgomaneri, S., Quettier, T., Ambrosecchia, M., Battaglia, S., Tamietto, M., & Avenanti, A. (2025). Early changes in corticospinal excitability for subliminally presented fearful body postures. *Scientific Reports*, 15(1), 29088. <https://doi.org/10.1038/s41598-025-13185-y>

Cardellicchio, P., & Borgomaneri, S. (2025). Level of M1 GABAB predicts micro offline consolidation of motor learning during wakefulness. *npj Science of Learning*, 10(10). <https://doi.org/10.1038/s41539-025-00299-1>

Di Gregorio, F., Lullini, G., Orlandi, S., Petrone, V., Ferrucci, E., Casanova, E., Romei, V., & La Porta, F. (2025). Clinical and neurophysiological predictors of the functional outcome in right-hemisphere stroke. *NeuroImage*, 308, 121059. <https://doi.org/10.1016/j.neuroimage.2025.121059>

Frisoni, M., Tarasi, L., Borgomaneri, S., & Romei, V. (2025). The relationship between individual alpha frequency and time perception: Testing the internal clock versus the sampling rate hypothesis. *Cortex*, 192, 183-195. <https://doi.org/10.1016/j.cortex.2025.09.008>

Ippolito, G., Quettier, T., Borgomaneri, S., & Romei, V. (2025). Silicon Spike: An Arduino-based low-cost and open-access triggerbox to precisely control TMS devices. *Behavior Research Methods*, 57, 145. <https://doi.org/10.3758/s13428-025-02653-y>

Paredes, R., Ferri, F., Romei, V., & Seriès, P. (2025). Increased excitation enhances the sound-induced flash illusion by impairing multisensory causal inference in the schizophrenia spectrum. *Schizophrenia Research*, 283, 1–10. <https://doi.org/10.1016/j.schres.2025.06.007>

Però, L., Arlati, N., Lenzi, L., Quettier, T., Battaglia, S., & Borgomaneri, S. (2025). Enhancing human action inhibition through cortico-cortical paired associative stimulation. *Annals of the New York Academy of Sciences*, 1552(1), 335–350. <https://doi.org/10.1111/nyas.70077>

Tarasi, L., Covelli, M., Tabarelli de Fatis, C., & Romei, V. (2025). Prior information shapes perceptual confidence. *Journal of Cognition*, 8(1), 11. <https://doi.org/10.5334/joc.417>

Tarasi, L., Romanazzi, D., Pasini, A., & Romei, V. (2025). Delusion-like thinking is associated with lower individual alpha peak frequency. *Schizophrenia*, 11, 76. <https://doi.org/10.1038/s41537-025-00626-w>

Trajkovic, J., Ricci, G., Pirazzini, G., Tarasi, L., Di Gregorio, F., Magosso, E., Ursino, M., & Romei, V. (2025). Aberrant functional connectivity and brain network organization in high-schizotypy individuals: An electroencephalography study. *Schizophrenia Bulletin*, 51(5), 1266-1281. <https://doi.org/10.1093/schbul/sbaf004>

Battaglia, S., Nazzi, C., Di Fazio, C., & Borgomaneri, S. (2024). The role of pre-supplementary motor cortex in action control with emotional stimuli: A repetitive transcranial magnetic stimulation study. *Annals of the New York Academy of Sciences*, 1536(1), 151-166. <https://doi.org/10.1111/nyas.15145>

Battaglia, S., Nazzi, C., Fullana, M. A., Di Pellegrino, G., & Borgomaneri, S. (2024). 'Nip it in the bud': Low-frequency rTMS of the prefrontal cortex disrupts threat memory consolidation in humans. *Behaviour Research and Therapy*, 104548. <https://doi.org/10.1016/j.brat.2024.104548>

Quettier, T., Ippolito, G., Però, L., Cardellicchio, P., Battaglia, S., & Borgomaneri, S. (2024). Individual differences in intracortical inhibition predict action control when facing emotional stimuli. *Frontiers in Psychology*, 15. <https://doi.org/10.3389/fpsyg.2024.1391723>

Tarasi, L., Turrini, S., Sel, A., Avenanti, A., & Romei, V. (2024). Cortico-cortical paired-associative stimulation to investigate the plasticity of cortico-cortical visual networks in humans. *Current Opinion in Behavioral Sciences*, 56, 101359. <https://doi.org/10.1016/j.cobeha.2024.101359>

Borgomaneri, S., Vitale, F., Battaglia, S., de Vega, M., & Avenanti, A. (2023). Task-related modulation of motor response to emotional bodies: a TMS motor-evoked potential study. *Cortex*, 171, 235-246. <https://doi.org/10.1016/j.cortex.2023.10.013>

Borgomaneri, S., Zanon, M., Di Luzio, P., Cataneo, A., Arcara, G., Romei, V., Tamietto, M., & Avenanti, A. (2023). Increasing associative plasticity in temporo-occipital back-projections improves visual perception of emotions. *Nature Communications*, 14(1), 5720. <https://doi.org/10.1038/s41467-023-41058-3>

#### **50/22 – “The steady-state visual evoked potential (SSVEP) tool as a marker of subjective visibility”**

Investigadores/Researchers: Adélaïde de Heering, Axel Cleeremans

Instituição/Institution: Center for Research in Cognition and Neuroscience, Université libre de Bruxelles (Belgium)

Duração/Duration: 2023/11 – 2025/02

*Peer-reviewed publications*

Mazancieux, A., Cleeremans, A., & de Heering, A. (2026). Frequency-tagging as a measure of conscious face perception. *Cortex*, 199, 94–105. <https://doi.org/10.1016/j.cortex.2026.03.014>

#### **51/22 – “Enhanced well-being and psychological adjustment: The psychological benefits of paranormal endorsement”**

Investigadores/Researchers: Neil Dagnall, Kenneth Drinkwater

Instituição/Institution: Health, Psychology and Communities, Manchester Metropolitan University (UK)

Duração/Duration: 2023/06 – 2025/03

*Peer-reviewed publications*

Dagnall, N., Denovan, A., & Drinkwater, K. G. (2025). Examining the degree to which paranormal belief and conspiracy endorsement influence meaning in life: Sequential mediating effects of creativity and self-esteem. *Frontiers in Psychology*, 16, 1567920. <https://doi.org/10.3389/fpsyg.2025.1567920>

Dagnall, N., Denovan, A., Drinkwater, K. G., & Escolà-Gascón, A. (2025). Paranormal belief and conspiracy theory endorsement: Variations in adaptive function and positive wellbeing. *Frontiers in Psychology*, 16, 1519223. <https://doi.org/10.3389/fpsyg.2025.1519223>

Dagnall, N., Drinkwater, K. G., Denovan, A., & Escolà Gascón, A. (2025). Paranormal belief, conspiracy endorsement, and positive wellbeing: A network analysis. *Frontiers in Psychology*, 16, 1448067. <https://doi.org/10.3389/fpsyg.2025.1448067>

Dagnall, N., Drinkwater, K. G., Denovan, A., & Gascón, A. E. (2024). Variations in positive well-being as a function of the interaction between paranormal belief and schizotypy. *Frontiers in Psychology*, 15, 1396485. <https://doi.org/10.3389/fpsyg.2024.1396485>

#### **52/22 – “How reward shapes volition: Neural correlates of motivated intentional actions”**

Investigadores/Researchers: Laura Zapparoli, Francantonio Devoto

Instituição/Institution: Department of Psychology, Università degli Studi di Milano-Bicocca (Italy)

Duração/Duration: 2023/07 – 2026/05

*Peer-reviewed publications*

Mariano, M., Devoto, F., & Zapparoli, L. (2025). Feeling in control when things go well: A meta-analytical account of how action-outcome valence shapes the implicit sense of agency. *Neuroscience & Biobehavioral Reviews*, 179, 106443. <https://doi.org/10.1016/j.neubiorev.2025.106443>

## 65/22 – “Unintended returns of awareness during cardiopulmonary resuscitation”

Investigadores/Researchers: Charlotte Martial, Pauline Fritz, Alice Clerget

Instituição/Institution: Coma Science Group, University of Liège (Belgium)

Duração prevista/Estimated duration: 2023/02 – 2026/09

### Peer-reviewed publications

Cecconi, B., Bonhomme, V., Laureys, S., Gosseries, O., Boly, M., & Annen, J. (2025). Experimental approaches to study sensory disconnection in humans during sleep and anesthesia. *Current Opinion in Behavioral Sciences*, 63, 101505. <https://doi.org/10.1016/j.cobeha.2025.101505>

Fritz, P., Pichelin, A., Ancion, A., Alnagger, N., Lejeune, N., Ghuysen, A., Gosseries, O., & Martial, C. (2025). Near-death experience during emergency ketamine use: A case report. *Brain and Behavior*, 15(10), e70939. <https://doi.org/10.1002/brb3.70939>

Martial, C., Fritz, P., Gosseries, O., Bonhomme, V., Kondziella, D., Nelson, K., & Lejeune, N. (2025). A neuroscientific model of near-death experiences. *Nature Reviews Neurology*, 21, 297–311. <https://doi.org/10.1038/s41582-025-01072-z>

Fritz, P., Lejeune, N., Cardone, P., Gosseries, O., & Martial, C. (2024). Bridging the gap: (a)typical psychedelic and near-death experience insights. *Current Opinion in Behavioral Sciences*, 55, 101349. <https://doi.org/10.1016/j.cobeha.2023.101349>

Martial, C., Carhart-Harris, R., & Timmermann, C. (2024). Within-subject comparison of near-death and psychedelic experiences: Acute and enduring effects. *Neuroscience of Consciousness*, 2024(1), niae033. <https://doi.org/10.1093/nc/niae033>

Martial, C., Piarulli, A., Gosseries, O., Cassol, H., Ledoux, D., Charland-Verville, V., & Laureys, S. (2024). EEG signature of near-death-like experiences during syncope-induced periods of unresponsiveness. *NeuroImage*, 120759. <https://doi.org/10.1016/j.neuroimage.2024.120759>

Bicego, A. Y., Cassol, H., Simon, J., Fritz, P., Abagnale, S., Vanhaudenhuyse, A., Laureys, S., & Martial, C. (2023). Personality traits and pattern of beliefs of near-death(-like) experiencers. *Frontiers in Human Neuroscience*, 17. <https://doi.org/10.3389/fnhum.2023.1124739>

Martial, C., Cassol, H., Slater, M., Bourdin, P., Mensen, A., Ramon, O., Laureys, S., & Núñez, P. (2023). Electroencephalographic Signature of Out-of-Body Experiences Induced by Virtual Reality: A Novel Methodological approach. *Journal of Cognitive Neuroscience*, 35(9), 1410–1422. [https://doi.org/10.1162/jocn\\_a\\_02011](https://doi.org/10.1162/jocn_a_02011)

Martial, C., & Gosseries, O. (2023). Unresponsive but not necessarily unconscious: An introduction to the special focus. *Journal of Cognitive Neuroscience*, 35(9), 1369–1371. [https://doi.org/10.1162/jocn\\_e\\_02027](https://doi.org/10.1162/jocn_e_02027)

## 68/22 – “Can a silent mind know thyself? The role of inner speech in self-awareness”

Investigador/Researcher: Bo Yao

Instituição/Institution: Department of Psychology, Lancaster University (UK)

Duração/Duration: 2023/03 – 2025/09

### Peer-reviewed publications

Yao, B. (2025). It's about time: Rhythmic foundations of inner thought: Comment on “The sound of thought: Form matters the prosody of inner speech” by Hamutal Kreiner, Zohar Eviatar. *Physics of Life Reviews*, 52, 194–196. <https://doi.org/10.1016/j.plrev.2025.01.003>

Yao, B. (2025). Rethinking inner speech through linguistic active inference. *Psychological Review*. Advance online publication. <https://doi.org/10.1037/rev0000607>

Yao, B., Hand, C. J., Miellet, S., & Sereno, S. C. (2025). Parafoveal preview benefits magnified. *Cognition*, 261, 106149. <https://doi.org/10.1016/j.cognition.2025.106149>

Pratts, J., Pobric, G., & Yao, B. (2023). Bridging phenomenology and neural mechanisms of inner speech: ALE meta-analysis on egocentricity and spontaneity in a dual-mechanistic framework. *NeuroImage*, 282, 120399. <https://doi.org/10.1016/j.neuroimage.2023.120399>

## 69/22 – “Psychometric validation of a questionnaire for assessing paranormal health beliefs and statistically modelling the effects of the construct on health outcomes longitudinally”

Investigador/Researcher: Andrew Denovan

Instituição/Institution: Research Centre for Brain and Behaviour, Liverpool John Moores University (UK)

Duração/Duration: 2023/06 – 2025/07

### Peer-reviewed publications

Denovan, A., Dagnall, N., & Drinkwater, K. G. (2025). The Illusory Health Beliefs Scale: Validation using exploratory structural equation modeling and multidimensional Rasch analysis. *Frontiers in Psychology*, 16, 1491759. <https://doi.org/10.3389/fpsyg.2025.1491759>



Denovan, A., Dagnall, N., & Drinkwater, K. G. (2025). The relationship between illusory health beliefs, recommended health behaviours, and complementary and alternative medicine: An investigation across multiple time points. *Behavioral Sciences*, 15(5), 614. <https://doi.org/10.3390/bs15050614>

Denovan, A., Dagnall, N., & Drinkwater, K. G. (2024). The paranormal health beliefs scale: An evaluation using cognitive interviewing. *Frontiers in Psychology*, 15, 1306372. <https://doi.org/10.3389/fpsyg.2024.1306372>

Denovan, A., Dagnall, N., Drinkwater, K. G., & Escolà-Gascón, Á. (2024). The Illusory Health Beliefs Scale: Preliminary validation using exploratory factor and Rasch analysis. *Frontiers in Psychology*, 15, 1408734. <https://doi.org/10.3389/fpsyg.2024.1408734>

#### **70/22 – “An investigation into the nature of children's extra sensory experiences across various cultural contexts”**

Investigadores/Researchers: Donna Thomas, Chris Roe, Callum Cooper, Kirsty Allan, Kate Adams  
Instituição/Institution: School of Social Work, Care and Community, University of Central Lancashire (UK);  
Centre for Psychology and Sociological Sciences, University of Northampton (UK)  
Duração/Duration: 2023/03 – 2025/02

##### *Peer-reviewed publications*

Thomas, D. M., Rycroft, E., Allan, K., & Sharif, S. (2026). New methodological directions for involving children in past life memories research. *EXPLORE*, 22(1), 103283. <https://doi.org/10.1016/j.explore.2025.103283>

#### **92/22 – “An integrative biopsychological model to explain associations between trauma history, paranormal experience and belief”**

Investigador/Researcher: Alexander Sumich, Nadja Heym, Stephanie McArdle  
Instituição/Institution: NTU - Psychology, School of Social Sciences, Nottingham Trent University (UK)  
Duração prevista/Estimated duration: 2023/07 – 2026/08

##### *Peer-reviewed publications*

Loncar, B., Fox, R., Heym, N., & Sumich, A. (2026). Psychometric considerations of adverse childhood experiences questionnaire: Structure, validity, and the development of a supplementary instrument. *Journal of Traumatic Stress*, 39(3), 478-491. <https://doi.org/10.1002/jts.70062>

#### **98/22 – “Neural correlates of open-label placebo effects in emotional distress”**

Investigador/Researcher: Michael Schaefer  
Instituição/Institution: Medical School Berlin (Germany)  
Duração prevista/Estimated duration: 2023/09 – 2026/08

##### *Peer-reviewed publications*

Schaefer, M., Liedtke, C., & Enge, S. (2025). Roles of administration route, expectation, and belief in placebos in a randomized controlled trial with open-label placebos. *Scientific Reports*, 15(1), 42915. <https://doi.org/10.1038/s41598-025-27622-5>

Schaefer, M., & Enge, S. (2024). Open-label placebos enhance test performance and reduce anxiety in learner drivers: A randomized controlled trial. *Scientific Reports*, 14(1). <https://doi.org/10.1038/s41598-024-56600-6>

Schaefer, M., Kühnel, A., & Enge, S. (2024). Open-label placebos reduce weight in obesity: A randomized controlled trial. *Scientific Reports*, 14(1), 21311. <https://doi.org/10.1038/s41598-024-69866-7>

#### **101/22 – “I am where I believe my body is”**

Investigador/Researcher: Giorgia Tosi  
Department of Psychology, Università degli Studi di Milano-Bicocca (Italy)  
Duração/Duration: 2023/05 – 2025/05

##### *Peer-reviewed publications*

Frisko, F., Bruno, V., Romano, D., & Tosi, G. (2026). Trust me, you are there: The role of verbal manipulation on embodiment and body localization. *Psychological Research*, 90(2), 73. <https://doi.org/10.1007/s00426-026-02271-z>

Frisko, F., Bruno, V., Romano, D., & Tosi, G. (2024). I am where I believe my body is: The interplay between body spatial prediction and body ownership. *PloS one*, 19(12), e0314271. <https://doi.org/10.1371/journal.pone.0314271>

## 102/22 – “Identifying altered resting state connectivity dynamics as predictors of auditory verbal hallucinations (AVH)”

Investigadores/Researchers: Sonja Kotz, Hanna Honcamp, Michael Schwartz, David Linden, Federico de Martino, Ana Pinheiro

Instituição/Institution: Department of Neuropsychology and Psychopharmacology, Faculty of Psychology and Neuroscience, Maastricht University (The Netherlands)

Duração prevista/Estimated duration: 2023/09 – 2026/08

### Peer-reviewed publications

Honcamp, H., O'Donnell, P., Pinheiro, A. P., Trujillo-Barreto, N. J., Schwartz, M., El-Deredy, W., & Kotz, S. A. (2026). Differentiating hallucination proneness dimensions through alpha resting state dynamics. *Behavioural Brain Research*, 505, 116101. <https://doi.org/10.1016/j.bbr.2026.116101>

Honcamp, H., Goller, L. K., Amorim, M., Duggirala, S. X., Johnson, J. F., Schwartz, M., Pinheiro, A. P., & Kotz, S. A. (2025). Multidimensionality of hallucination-like experiences: A factor structure refinement of the Launay-Slade Hallucination Scale. *Schizophrenia Research: Cognition*, 41, 100368. <https://doi.org/10.1016/j.scog.2025.100368>

Honcamp, H., Schwartz, M., Amorim, M., Linden, D., Pinheiro, A., & Kotz, S. (2024). Revisiting Alpha Resting State Dynamics Underlying Hallucinatory Vulnerability: Insights from Hidden Semi-Markov Modeling. *Journal of Neuroscience Methods*, 110138. <https://doi.org/10.1016/j.jneumeth.2024.110138>

Pinheiro, A. P., Aucouturier, J., & Kotz, S. A. (2024). Neural adaptation to changes in self-voice during puberty. *Trends in Neurosciences*, 47, 777-787. <https://doi.org/10.1016/j.tins.2024.08.001>

Zoefel, B., Abbasi, O., Gross, J., & Kotz, S. A. (2024). Entrainment echoes in the cerebellum. *Proceedings of the National Academy of Sciences of the United States of America*, 121(34), e2411167121. <https://doi.org/10.1073/pnas.2411167121>

## 106/22 – “Gaze-centered decision making”

Investigadores/Researchers: Rubén Moreno Bote, Benjamin Hayden, Demetrio Ferro

Instituição/Institution: Center for Brain and Cognition, University Pompeu Fabra, Barcelona (Spain); Neuroscience Department, University of Minnesota (USA)

Duração/Duration: 2023/02 – 2025/02

### Peer-reviewed publications

Cos, I., Senel, G., Maldonado, P. E., & Moreno-Bote, R. (2025). The relationship between confidence and gaze-at-nothing oculomotor dynamics during decision-making. *PLOS ONE*, 20(7), e0310231. <https://doi.org/10.1371/journal.pone.0310231>

Vidal, A., Damiani, F., Valyan, A., Soto-Faraco, S., & Moreno-Bote, R. (2025). Fluctuations in Sequential Many-Alternative Decisions Reveal Strategies Beyond Immediate Reward Maximisation. *Journal of Cognition*, 8(1), 55. <https://doi.org/10.5334/joc.467>

Ferro, D., Cash-Padgett, T., Wang, M. Z., Hayden, B. Y., & Moreno-Bote, R. (2024). Gaze-centered gating, reactivation, and reevaluation of economic value in orbitofrontal cortex. *Nature Communications*, 15(1). <https://doi.org/10.1038/s41467-024-50214-2>

## 126/22 – “In search of experienced time: How does the heart-brain coupling support the perception of time?”

Investigadores/Researchers: Manos Tsakiris, Irena Arslanova

Instituição/Institution: Psychology Department, Royal Holloway University of London (UK)

Duração/Duration: 2023/10 - 2026/09

### Peer-reviewed publications

Arslanova, I., Jaglinska, M., & Tsakiris, M. (2026). Dissecting emotional and cardiac contributions to duration perception: Evidence from two EEG experiments. *Neuropsychologia*, 231, 109550. Advance online publication. <https://doi.org/10.1016/j.neuropsychologia.2026.109550>

## 129/22 – “Mapping the characteristics and impacts of terminal lucidity in children”

Investigadores/Researchers: Natasha Tassell-Matamua, Karalee Kothe, Marjorie Woollacott, Michael Nahm, Sara Gunnoe, Philip Roehrs, Allan Kellehear

Instituição/Institution: School of Psychology, Massey University (New Zealand)

Duração/Duration: 2023/10 – 2025/10

### Peer-reviewed publications

Tassell-Matamua, N., Kothe, K., Nahm, M., Woollacott, M., Roe, C., Greyson, B., Mutis, M., & Evrard, R. (2026). Terminal lucidity in children: A contemporary case collection. *Psychology of Consciousness: Theory, Research, and Practice*. Advance online publication. <https://doi.org/10.1037/cns0000458>

Kothe, K., Tassell-Matamua, N., Woollacott, M., Nahm, M., Roe, C., Greyson, B., Mutis, M., & Evrard, R. (2025). Impacts on caregivers of witnessing terminal lucidity in children. *Omega: Journal of Death and Dying*. Advance online publication. <https://doi.org/10.1177/00302228251391552>

### **132/22 – “Mapping the Psychophysiology of Commitment”**

Investigadores/Researchers: John Michael, Martina Fanghella, Stephen Butterfill, Corrado Sinigaglia

Instituições/Institutions: Cognition in Action Lab, Università degli Studi di Milano (Italy)

Duração prevista/Estimated duration: 2023/03 – 2027/02

#### *Peer-reviewed publications*

Székely, M., McEllin, L., Butterfill, S., & Michael, J. (2026). True grit? The perception of a partner's effort boosts cognitive control to sustain commitment in joint action. *New Ideas in Psychology*, 82, 101250. <https://doi.org/10.1016/j.newideapsych.2026.101250>

### **133/22 – “Neurocognitive basis of misinformation sharing across the political spectrum”**

Investigadores/Researchers: Clara Pretus, Salvador Soto-Faraco, Mireia Torralba

Instituições/Institutions: Fundació Institut Hospital del Mar d'Investigacions Mèdiques, Barcelona (Spain); Center for Brain and Cognition, University Pompeu Fabra, Barcelona (Spain)

Duração prevista/Estimated duration: 2023/10 – 2026/09

#### *Peer-reviewed publications*

Pretus, C., Gil-Buitrago, H., Cisma, I., Hendricks, R. C., & Lizarazo-Villarreal, D. (2024). Scaling crowdsourcing interventions to combat partisan misinformation. *Advances in Psychology*, 2(1). <https://doi.org/10.56296/aip00018>

### **137/22 – “Pavlovian conditioning of perceptual neural responses”**

Investigadores/Researchers: Andrea Caria, Christoph Braun

Instituições/Institutions: Department of Psychology and Cognitive Science, University of Trento (Italy); University of Tübingen (Germany)

Duração/Duration: 2023/10 – 2026/03

#### *Peer-reviewed publications*

Greco, A., D'Alessandro, M., Gallitto, G., Rastelli, C., Braun, C., & Caria, A. (2024). Statistical learning of incidental perceptual regularities induces sensory conditioned cortical responses. *Biology*, 13(8), 576. <https://doi.org/10.3390/biology13080576>

### **149/22 – “After-death communication with cell phones”**

Investigador/Researcher: Imants Baruss

Instituições/Institutions: Department of Psychology, King's University College at Western University, London (Canada)

Duração/Duration: 2023/05 – 2025/10

#### *Peer-reviewed publications*

Barušs, I., Mandoki, M. J., Ens, N., Shelvock, M., & Toporow, C. (in press). Overview of cell phone applications used for after-death communication. In A. Rock et al. (Eds.), *Advances in Parapsychological Research*, 11. McFarland.

Barušs, I., Padilla, E., Mandoki, M. J., & Ens, N. (2025). Testing cell phone applications used for after-death communication. *Journal of Consciousness Exploration & Research*, 16(5), 640–649.

### **174/22 – “Manipulating consciousness: The role of arousal and attention on conscious perception”**

Investigadores/Researchers: Pietro Avanzini, Maria Del Vecchio, Enrico Salemi, Annalisa Cassisi, Alice Giorgi

Instituições/Institutions: Consiglio Nazionale delle Ricerche - CNR, Institute of Neuroscience, Parma (Italy)

Duração/Duration: 2023/03 – 2026/03

#### *Peer-reviewed publications*

Del Vecchio, M., Giorgi, A., Bonomi, E., Salemi, E., Albertini, D., Zauli, F. M., Mikulan, E. P., Pigorini, A., & Avanzini, P. (2025). An HD-EEG database to dissect somatosensory awareness from task relevance and report. *Scientific Data*, 12, 1688. <https://doi.org/10.1038/s41597-025-05970-1>

Giorgi, A., Bonomi, E., Salemi, E., Albertini, D., Zauli, F. M., Mikulan, E. P., Pigorini, A., Avanzini, P., & Del Vecchio, M. (2025). Task relevance modulates somatosensory awareness depending on stimulus intensity. *European Journal of Neuroscience*, 62(6), e70262. <https://doi.org/10.1111/ejn.70262>

**178/22 – “Probing body and soul stress-related reactivity through Ingestible capsules”**

Investigadores/Researchers: Giuseppina Porciello, Vanessa Era, Maria Serena Panasiti

Instituições/Institutions: Department of Psychology, “Sapienza” University of Rome (Italy)

Duração prevista/Estimated duration: 2023/07 – 2026/08

*Peer-reviewed publications*

Salaris, A., Ravenda, S., Al-Naqshbandi, H., Provenzano, L., Gerra, M. C., Mattei, E., Calcagnini, G., Ottaviani, C., Carnevali, L., & Porciello, G. (2026). Interoception, blood pressure, and pain: unraveling their interaction under stressful and resting conditions. *Stress*, 29(1), 2666045. <https://doi.org/10.1080/10253890.2026.2666045>

Fusaro, M., Lisi, M. P., Era, V., Porciello, G., Candidi, M., Aglioti, S. M., & Boukarras, S. (2025). The transformative power of virtual reality: Redefining interactions in virtual platforms, education, healthcare, and workplaces. *Topoi*, 44(4), 1071–1086. <https://doi.org/10.1007/s11245-025-10216-1>

**191/22 – “Psychophysical interactions in an optical diffraction system”**

Investigador/Researcher: Dean Radin

Instituições/Institutions: Institute of Noetic Sciences, California (USA)

Duração/Duration: 2023/03 – 2025/03

*Peer-reviewed publications*

Radin, D. (2025). Observer influence on quantum interference: Testing the von Neumann–Wigner consciousness-collapse theory. *Physics Essays*, 38(1), 64–80. <https://doi.org/10.4006/0836-1398-38.1.64>

**192/22 – “Gut brain telepathy: A pilot study with food cues”**

Investigador/Researcher: Garret Yount

Instituições/Institutions: Institute of Noetic Sciences, California (USA)

Duração/Duration: 2023/06 – 2026/01

*Peer-reviewed publications*

Yount, G., Delorme, A., Wahbeh, H., Haro Lopez, J., Taddeo, S., Kriegsmann, M., Ahmadzai, S., Tian, R., & Radin, D. (in press). Investigating remote electrogastrogram modulation via emotional and eating stimuli: A sham-controlled pilot study. *Journal for Scientific Exploration*.

**211/22 – “Sensitive bio-behavioral connections: The role of sensory processing sensitivity and mindfulness in parenting”**

Investigadores/Researchers: Mauro Gianni Perrucci, Francesca Lionetti, Michael Pluess

Instituições/Institutions: Department of Neurosciences, Imaging and Clinical Sciences, Università degli Studi “G. d’Annunzio” Chieti - Pescara (Italy); Department of Biological and Experimental Psychology, Queen Mary University of London (UK)

Duração prevista/Estimated duration: 2023/11 – 2026/10

*Peer-reviewed publications*

Lionetti, F., Spinelli, M., Bosmans, G., D’Urso, G., Fasolo, M., & Pluess, M. (2026). Insights into brain oscillations and connectivity in neuropsychiatric disorders to understand parenting? Observational studies with mothers of young children. *Journal of Family Psychology*, 40(1), 12–24. <https://doi.org/10.1037/fam0001329>

**213/22 – “RegularMente: Randomized controlled trial of the effects of a guided imagery based Intervention on the well-being, socioemotional and cognitive development, physiologic activity, and academic success of children in school”**

Investigadores/Researchers: Iolanda Galinha, Joana Carvalho, Margarida Matos, Augusta Gaspar, António Palmeira, Gina Lemos, Joaquim Melro, Hélder Fernandes, Cátia Reis, Vitória Cardoso, Patrícia Arriaga, Hugo Plácido da Silva, Diego Pinal, Susana Martins

Instituições/Institutions: Universidade Católica Portuguesa, Lisbon (Portugal); Faculty of Psychology, University of Lisbon (Portugal); Lisbon School of Medicine (Portugal)

Duração prevista/Estimated duration: 2023/07 – 2026/11

*Peer-reviewed publications*

Galinha, I., de Carvalho, J., de Oliveira, A., Arriaga, P., Gaspar, A., Silva, H., & Ortega, V. (2025). MindRegulation-SEL: Randomized controlled trial of the effects of a relaxation and guided imagery intervention with socioemotional learning on the psychological and biophysiological well-being, socioemotional development, cognitive function and academic achievement of elementary school children. *Trials*, 26(1), 187. <https://doi.org/10.1186/s13063-025-08899-3>



### 231/22 – “Understanding how humans perceive high-frequency vibrations”

Investigadores/Researchers: Nélson Costa, Isabel Lisboa, Emanuel Silva, Paulo Cardoso

Instituição/Institution: Centro ALGORITMI, School of Engineering, University of Minho, Guimarães (Portugal)

Duração/Duration: 2023/03 – 2026/03

#### Peer-reviewed publications

Silva, E., Costa, N., & Lisboa, I. C. (2026). Vibration perception threshold assessments: Comparing the Staircase and von Békésy methods. *Attention, Perception, & Psychophysics*, 88(2), 49. <https://doi.org/10.3758/s13414-025-03190-8>

Silva, E., Lisboa, I. C., & Costa, N. (2025). How to determine hands' vibration perception thresholds – A systematic review. *Behavior Research Methods*, 57(1), 27. <https://doi.org/10.3758/s13428-024-02534-w>

Lisboa, I. C., Lourenço, V., Silva, E., Pereira, E., Carvalho, A., Pessoa, R., & Costa, N. (2024). Haptic warnings for a motorcycle jacket and gloves. *Transportation Research Part F: Traffic Psychology and Behaviour*, 100, 197-210. <https://doi.org/10.1016/j.trf.2023.11.017>

Silva, E., Lisboa, I. C., & Costa, N. (2024). Hand's vibration perception thresholds — A systematic review. *International Journal of Human-Computer Interaction*, 1–38. <https://doi.org/10.1080/10447318.2024.2413312>

### 235/22 – “SPARKS: Driving associative plasticity in the cortically blind brain to promote recovery of visual awareness”

Investigadores/Researchers: Simone Battaglia, Matteo Diano, Marco Tamietto

Instituições/Institutions: Department of Psychology, University of Turin (Italy)

Duração/Duration: 2023/10 – 2026/04

#### Peer-reviewed publications

Arlati, N., Però, L., Lenzi, L., Quettier, T., Ippolito, G., Battaglia, S., & Borgomaneri, S. (2026). Online corticomotor modulations in action inhibition: Insights from TMS studies. *Journal of Affective Disorders*, 396, 120825. <https://doi.org/10.1016/j.jad.2025.120825>

Battaglia, S., & Tanaka, M. (2026). Screen, sample, stratify: Biomarkers and machine learning compress dementia pathways. *Biomedicine*, 14(1), 159. <https://doi.org/10.3390/biomedicine14010159>

Pirazzini, G., Cataneo, A., Pelle, S., Marra, A., Arcara, G., Battaglia, S., Ursino, M., & Avenanti, A. (2026). Evidence for enhanced backward connectivity in the third visual pathway following cortico-cortical paired associative stimulation. *NeuroImage*, 327, 121759. <https://doi.org/10.1016/j.neuroimage.2026.121759>

Vilajosana, E., Battaglia, S., Chavarría-Elizondo, P., Martínez-Zalacain, I., Juaneda-Seguí, A., Saiz-Masvidal, C., De la Peña-Arteaga, V., Shackman, A. J., Radua, J., Soriano-Mas, C., & Fullana, M. A. (2026). Fear learning in unmedicated patients with anxiety disorders: A comparison of delay conditioning, fear reversal, and trace conditioning. *Translational Psychiatry*, 16(1), 274. <https://doi.org/10.1038/s41398-026-03996-6>

Battaglia, S., Andero, R., & Thayer, J. F. (2025). Translational cross-species evidence of heart-related dynamics in threat learning. *Neuroscience and Biobehavioral Reviews*, 176, 106273. <https://doi.org/10.1016/j.neubiorev.2025.106273>

Battaglia, S., Fazio, C. D., Borgomaneri, S., & Avenanti, A. (2025). Cortisol imbalance and fear learning in PTSD: Therapeutic approaches to control abnormal fear responses. *Current Neuropharmacology*, 23(7), 835–846. <https://doi.org/10.2174/1570159X23666250123142526>

Battaglia, S., Servajean, P., & Friston, K. J. (2025). The paradox of the self-studying brain: Timescales, self-representation, and roots of consciousness. Reply to comments on 'The paradox of the self-studying brain'. *Physics of Life Reviews*, 54, 162–165. <https://doi.org/10.1016/j.plrev.2025.07.008>

Battaglia, S., Servajean, P., & Friston, K. J. (2025). The paradox of the self-studying brain. *Physics of Life Reviews*, 52, 197–204. <https://doi.org/10.1016/j.plrev.2024.12.009>

Borgomaneri, S., Quettier, T., Ambroseccia, M., Battaglia, S., Tamietto, M., & Avenanti, A. (2025). Early changes in corticospinal excitability for subliminally presented fearful body postures. *Scientific Reports*, 15(1), 29088. <https://doi.org/10.1038/s41598-025-13185-y>

Gregorio, F. D., & Battaglia, S. (2026). Insights into brain oscillations and connectivity in neuropsychiatric disorders. *Advances in Clinical and Experimental Medicine*, 35(2), 201–208. <https://doi.org/10.17219/acem/213945>

Lanzilotto, M., Dal Monte, O., Diano, M., Panormita, M., Battaglia, S., Celeghin, A., Bonini, L., & Tamietto, M. (2025). Learning to fear novel stimuli by observing others in the social affordance framework. *Neuroscience and Biobehavioral Reviews*, 169, 106006. <https://doi.org/10.1016/j.neubiorev.2025.106006>

Però, L., Arlati, N., Lenzi, L., Quettier, T., Battaglia, S., & Borgomaneri, S. (2025). Enhancing human action inhibition through cortico-cortical paired associative stimulation. *Annals of the New York Academy of Sciences*, 1552(1), 335–350. <https://doi.org/10.1111/nyas.70077>

Tanaka, M., & Battaglia, S. (2025). Dualistic dynamics in neuropsychiatry: From monoaminergic modulators to multiscale biomarker maps. *Biomedicines*, 13(6), 1456. <https://doi.org/10.3390/biomedicines13061456>

Tanaka, M., & Battaglia, S. (2025). From biomarkers to behavior: Mapping the neuroimmune web of pain, mood, and memory. *Biomedicines*, 13(9), 2226. <https://doi.org/10.3390/biomedicines13092226>

Tanaka, M., Battaglia, S., & Liloia, D. (2025). Navigating neurodegeneration: Integrating biomarkers, neuroinflammation, and imaging in Parkinson's, Alzheimer's, and motor neuron disorders. *Biomedicines*, 13(5), 1045. <https://doi.org/10.3390/biomedicines13051045>

Tanaka, M., He, Z., Han, S., & Battaglia, S. (2025). Editorial: Noninvasive brain stimulation: a promising approach to study and improve emotion regulation. *Frontiers in Behavioral Neuroscience*, 19, 1633936. <https://doi.org/10.3389/fnbeh.2025.1633936>

#### **241/22 – “From the body to visual awareness: Interoceptive influences on the processing of consciously and non-consciously perceived emotional visual stimuli”**

Investigadores/Researchers: Ruben Azevedo, Marco Tamietto

Instituições/Institutions: School of Psychology, University of Kent (UK); Department of Psychology, University of Turin (Italy)

Duração prevista/Estimated duration: 2023/09 – 2026/08

*Peer-reviewed publications*

Ozturk, O. C., McFadyen, J., & Azevedo, R. T. (2025). Cardiac signals facilitate the breakthrough to awareness of emotional stimuli. *Psychophysiology*, 62(10), e70168. <https://doi.org/10.1111/psyp.70168>

#### **244/22 – “Autonomic signatures of mind wandering and its consequences on attention and positive emotions in individuals with different levels of expertise in mindfulness meditation”**

Investigadores/Researchers: Cristiano Crescentini, Susanna Feruglio, Alessio Matiz

Instituições/Institutions: Department of Languages and Literatures, Communication, Education and Society, University of Udine (Italy)

Duração prevista/Estimated duration: 2023/09 – 2026/09

*Peer-reviewed publications*

Chang, M., Sorella, S., Crescentini, C., & Grecucci, A. (2025). Gray and white matter networks predict mindfulness and mind wandering traits: A data fusion machine learning approach. *Brain Sciences*, 15(9), 953. <https://doi.org/10.3390/brainsci15090953>

Sorella, S., Crescentini, C., Matiz, A., Chang, M., & Grecucci, A. (2025). Resting-state BOLD temporal variability of the default mode network predicts spontaneous mind wandering, which is negatively associated with mindfulness skills. *Frontiers in Human Neuroscience*, 19, 1515902. <https://doi.org/10.3389/fnhum.2025.1515902>

#### **250/22 – “Implicit generalization of experience in the human brain: Keep Information for Navigation and Memory IN a Distance map (Keep IN MIND)”**

Investigadores/Researchers: Giorgia Committeri, Federica Santacroce, Agustina Fragueiro

Instituições/Institutions: Department of Neurosciences, Imaging and Clinical Sciences, Università degli Studi "G. d'Annunzio" Chieti - Pescara (Italy)

Duração prevista/Estimated duration: 2023/11 – 2027/02

*Peer-reviewed publications*

Fragueiro, A., Tosoni, A., Santacroce, F., Di Matteo, R., Raposo, A., Sestieri, C., & Committeri, G. (2026). The retrosplenial complex as an integration zone between self- and map-based components of spatial navigation and declarative memory: An activation likelihood estimation meta-analysis. *Neuroscience and Biobehavioral Reviews*, 180, 106470. <https://doi.org/10.1016/j.neubiorev.2025.106470>

Santacroce, F., Committeri, G., Di Matteo, R., Di Censo, D., Sestieri, C., & Tosoni, A. (2025). Graph-like organization of non-spatial knowledge about social closeness in movie narratives. *Scientific Reports*, 15(1), 34500. <https://doi.org/10.1038/s41598-025-17427-x>

### 253/22 – “Uncovering the dynamics of hyperarousal and restless sleep”

Investigadores/Researchers: Lara Rösler, Roy Cox, Eus Van Someren

Instituições/Institutions: Netherlands Institute for Neuroscience, Royal Netherlands Academy of Arts and Sciences, Amsterdam (The Netherlands)

Duração prevista/Estimated duration: 2023/10 – 2026/04

#### Peer-reviewed publications

Rösler, L., van Kesteren, E. J., Leerssen, J., van der Lande, G., Lakbila-Kamal, O., Foster-Dingley, J. C., Albers, A., & van Someren, E. J. (2024). Hyperarousal dynamics reveal an overnight increase boosted by insomnia. *Journal of Psychiatric Research*, 179, 279–285. <https://doi.org/10.1016/j.jpsychires.2024.09.032>

### 260/22 – “TrustyCobots: Human-like or machine-like? Tracking psychophysiological components of trust in human-robot collaboration”

Investigadores/Researchers: Artur Pilacinski, Sergi Bermudez i Badia, Ioannis Iossifidis, Ana Luisa Pinto, Paula Alexandra Silva, Christian Klaes

Instituição/Institution: Center for Research in Neuropsychology and Cognitive and Behavioral Intervention - CINEICC, Faculty of Psychology and Educational Sciences, University of Coimbra (Portugal); University of Madeira (Portugal); Ruhr West University of Applied Sciences (Germany)

Duração prevista/Estimated duration: 2023/03 – 2026/08

#### Peer-reviewed publications

Araújo, E., Silva, P. A., Bermúdez i Badia, S., Branco, D., & Pilacinski, A. (2026). PEHRCIVE: Platform for evaluating human-robot collaboration and interaction in virtual environments. In *HRI '26: Proceedings of the 21st ACM/IEEE International Conference on Human-Robot Interaction* (pp. 30–38). Association for Computing Machinery. <https://doi.org/10.1145/3757279.3785622>

Bertoni, S., Klaes, C., & Pilacinski, A. (2024). Human–robot intimacy: Acceptance of robots as intimate companions. *Biomimetics*, 9(9), 566. <https://doi.org/10.3390/biomimetics9090566>

Pilacinski, A., Vandenberghe, A., Andrietta, G., & Vannuscorps, G. (2024). Humans underestimate the movement range of their own hands. *Communications Psychology*, 2, Article 104. <https://doi.org/10.1038/s44271-024-00153-x>

Pilacinski, A., Christ, L., Boshoff, M., Iossifidis, I., Adler, P., Miro, M., Kuhlenkötter, B., & Klaes, C. (2024). Human in the collaborative loop: A strategy for integrating human activity recognition and non-invasive brain-machine interfaces to control collaborative robots. *Frontiers in Neurorobotics*, 18, 1383089. <https://doi.org/10.3389/fnbot.2024.1383089>

Pilacinski, A., Metzler, M., & Klaes, C. (2023). Phantom touch illusion, an unexpected phenomenological effect of tactile gating in the absence of tactile stimulation. *Scientific Reports*, 13(1), 15453. <https://doi.org/10.1038/s41598-023-42683-0>

Pilacinski, A., Pinto, A., Oliveira, S., Araújo, E., Carvalho, C., Silva, P. A., Matias, R., Menezes, P., & Sousa, S. (2023). The robot eyes don't have it. The presence of eyes on collaborative robots yields marginally higher user trust but lower performance. *Heliyon*, 9(8), E18164. <https://doi.org/10.1016/j.heliyon.2023.e18164>

### 265/22 – “Predicting the future to make sense of the present: Predictive brain mechanisms for speech perception”

Investigadores/Researchers: Ediz Sohoglu

Instituição/Institution: School of Psychology, University of Sussex (UK)

Duração prevista/Estimated duration: 2023/09 – 2026/08

#### Peer-reviewed publications

Doyle, C., & Guillaume, C. (2024). Reactivating an engram: Context matters. *The Journal of Neuroscience*, 44(29), e0650242024. <https://doi.org/10.1523/JNEUROSCI.0650-24.2024>

### 267/22 – “System for measuring and manipulating language-based social interactions using EEG hyperscanning, neurofeedback and closed-loop brain stimulation”

Investigadores/Researchers: Alejandro Perez, Ander Ramos-Murguialday, Carmen Vidaurre

Instituição/Institution: Universidad de La Laguna (Spain)

Duração prevista/Estimated duration: 2023/11 – 2027/07

#### Peer-reviewed publications

Pérez, A., Insausti-Delgado, A., Park, H., & Ramos-Murguialday, A. (2026). Modulating speech tracking through brain state-dependent changes in audio loudness. *Journal of Neural Engineering*, 23(1). <https://doi.org/10.1088/1741-2552/ae30ab>

**277/22 – “Anger in the mind and body: From unconscious cognitive mechanisms to psychophysiological and neural substrates”**

Investigadores/Researchers: Líliliana Capitão, Catherine Harmer, Stefan Van Duijvenboden, Marlene Nogueira, Anna Pelliet, Marieke Martens, Adriana Sampaio, Joana Coutinho, Susana Capela, Catarina Fagundes, Fátima Saraiva

Instituição/Institution: Psychology Research Center - CIPsi, School of Psychology, University of Minho, Braga (Portugal); Psychopharmacology and Emotion Research Laboratory, University of Oxford (UK)

Duração prevista/Estimated duration: 2023/04 – 2027/04

*Peer-reviewed publications*

Pelliet, A., Nogueira, M., Fagundes, C., Capela, S., Saraiva, F., Pulcu, E., Harmer, C. J., Murphy, S. E., & Capitão, L. P. (2025). "Invisible Dangers": Unconscious processing of angry vs fearful faces and its relationship to subjective anger. *Consciousness and Cognition*, 130, 103848. <https://doi.org/10.1016/j.concog.2025.103848>

**300/22 – “Feeling good and feeling in control: A longitudinal study of mood and sense of agency”**

Investigadores/Researchers: Alexandre Hyafil, María da Fonseca

Instituição/Institution: Centre de Recerca Matemàtica, Bellaterra (Spain)

Duração estimada/Estimated duration: 2023/06 – 2026/06

*Peer-reviewed publications*

da Fonseca, M., & Hyafil, A. (2026). Computational modeling of behavior as a window on psychological traits and states. *European Journal of Psychological Assessment*. Advance online publication. <https://doi.org/10.1027/1015-5759/a000940>

**304/22 – “Boosting and hindering action imitation by modulating spike-timing dependent plasticity”**

Investigadores/Researchers: Alessio Avenanti, Chiara Spaccasassi, Sonia Turrini, Antonio Cataneo

Instituição/Institution: Department of Psychology, Alma Mater Studiorum - Università di Bologna (Italy)

Duração/Duration: 2023/11 – 2025/11

*Peer-reviewed publications*

Bevacqua, N., Turrini, S., Cataneo, A., Zago, S., Arcara, G., Candidi, M., Mirabella, G., & Avenanti, A. (2026). Cortico-cortical paired associative stimulation highlights the functional role of the cortical pathway from the right inferior frontal gyrus to the primary motor cortex in motor inhibition. *NeuroImage*, 333, 121933. <https://doi.org/10.1016/j.neuroimage.2026.121933>

Bevacqua, N., Turrini, S., & Avenanti, A. (2026). Optimal parameters for reliable PMv–M1 facilitation identified with dual coil TMS. *Clinical Neurophysiology*, 181, 2111434. <https://doi.org/10.1016/j.clinph.2025.2111434>

Borgomaneri, S., Quettier, T., Ambrosecchia, M., Battaglia, S., Tamietto, M., & Avenanti, A. (2025). Early changes in corticospinal excitability for subliminally presented fearful body postures. *Scientific Reports*, 15(1), 29088. <https://doi.org/10.1038/s41598-025-13185-y>

Chiappini, E., Turrini, S., Fiori, F., Benassi, M., Tessari, A., di Pellegrino, G., & Avenanti, A. (2025). You are as old as the connectivity you keep: Distinct neurophysiological mechanisms underlying age-related changes in hand dexterity and strength. *Archives of Medical Research*, 56(1), 103031. <https://doi.org/10.1016/j.arcmed.2024.103031>

Turrini, S., Fiori, F., Arcara, G., Romei, V., di Pellegrino, G., & Avenanti, A. (2025). State-dependent associative plasticity highlights function-specific premotor-motor pathways crucial for arbitrary visuomotor mapping. *Science Advances*, 11(20), eadu4098. <https://doi.org/10.1126/sciadv.adu4098>

Turrini, S., Tarasi, L., Bevacqua, N., Fiori, F., Zago, S., Arcara, G., Candidi, M., Romei, V., & Avenanti, A. (2025). Disentangling the functional roles of premotor-motor pathways in automatic imitation: A combined network-based transcranial stimulation and drift diffusion modeling approach. *The Journal of Neuroscience*, 45(47), e0340252025. <https://doi.org/10.1523/JNEUROSCI.0340-25.2025>

Vitale, F., Hernández-Sauret, A., Avenanti, A., & de Vega, M. (2025). Exploring the impact of sentential negation on inhibitory motor networks: Insights from paired-pulse TMS. *Brain and Language*, 262, 105536. <https://doi.org/10.1016/j.bandl.2025.105536>

Bevacqua, N., Turrini, S., Fiori, F., Saracini, C., Lucero, B., Candidi, M., & Avenanti, A. (2024). Cortico-cortical paired associative stimulation highlights asymmetrical communication between rostral premotor cortices and primary motor cortex. *Brain Stimulation*, 17(1), 89-91. <https://doi.org/10.1016/j.brs.2024.01.001>

Chiappini, E., Turrini, S., Zanon, M., Marangon, M., Borgomaneri, S., & Avenanti, A. (2024). Driving Hebbian plasticity over ventral premotor-motor projections transiently enhances motor resonance. *Brain Stimulation*, 17(2), 211–220. <https://doi.org/10.1016/j.brs.2024.02.011>



Tarasi, L., Turrini, S., Sel, A., Avenanti, A., & Romei, V. (2024). Cortico-cortical paired-associative stimulation to investigate the plasticity of cortico-cortical visual networks in humans. *Current Opinion in Behavioral Sciences*, 56, 101359. <https://doi.org/10.1016/j.cobeha.2024.101359>

Turrini, S., Fiori, F., Bevacqua, N., Saracini, C., Lucero, B., Candidi, M., & Avenanti, A. (2024). Spike-timing-dependent plasticity induction reveals dissociable supplementary– and premotor–motor pathways to automatic imitation. *Proceedings of the National Academy of Sciences*, 121(27), e2404925121. <https://doi.org/10.1073/pnas.2404925121>

Culicetto, L., Ferraioli, F., Lucifora, C., Falzone, A., Martino, G., Craparo, G., Avenanti, A., & Vicario, C. M. (2023). Disgust as a transdiagnostic index of mental illness: A narrative review of clinical populations. *Bulletin of the Menninger Clinic*, 87(Supplement A), 53-91. <https://doi.org/10.1521/bumc.2023.87.supplA.53>

Borgomaneri, S., Zanon, M., Di Luzio, P., Cataneo, A., Arcara, G., Romei, V., Tamietto, M., & Avenanti, A. (2023). Increasing associative plasticity in temporo-occipital back-projections improves visual perception of emotions. *Nature Communications*, 14(1), 5720. <https://doi.org/10.1038/s41467-023-41058-3>

Cristiano, A., Finisguerra, A., Urgesi, C., Avenanti, A., & Tidoni, E. (2023). Functional role of the theory of mind network in integrating mentalistic prior information with action kinematics during action observation. *Cortex*, 166, 107-120. <https://doi.org/10.1016/j.cortex.2023.05.009>

Rizzo, G., Martino, D., Avanzino, L., Avenanti, A., & Vicario, C. M. (2023). Social cognition in hyperkinetic movement disorders: A systematic review. *Social Neuroscience*, 18(6), 331–354. <https://doi.org/10.1080/17470919.2023.2248687>

Spaccasassi, C., Cenka, K., Petkovic, S., & Avenanti, A. (2023). Sense of agency predicts severity of moral judgments. *Frontiers in Psychology*, 13, 1070742. <https://doi.org/10.3389/fpsyg.2022.1070742>

Tortora, F., Hadipour, A. L., Battaglia, S., Falzone, A., Avenanti, A., & Vicario, C. M. (2023). The role of serotonin in fear learning and memory: A systematic review of human studies. *Brain Sciences*, 13(8), 1197. <https://doi.org/10.3390/brainsci13081197>

Turrini, S., & Avenanti, A. (2023). Understanding the sources of cortico-cortical paired associative stimulation (ccPAS) variability: Unraveling target-specific and state-dependent influences. *Clinical Neurophysiology*, 156, 290–292. <https://doi.org/10.1016/j.clinph.2023.08.019>

Turrini, S., Bevacqua, N., Cataneo, A., Chiappini, E., Fiori, F., Candidi, M., & Avenanti, A. (2023). Transcranial cortico-cortical paired associative stimulation (ccPAS) over ventral premotor-motor pathways enhances action performance and corticomotor excitability in young adults more than in elderly adults. *Frontiers in Aging Neuroscience*, 15, 1119508. <https://doi.org/10.3389/fnagi.2023.1119508>

### **320/22 – “Psychophysiology of the blind mind: Shedding light on memories without imagery”**

Investigadores/Researchers: Elena Azañón, Max-Philipp Stenner

Instituição/Institution: Department of Neurology, Faculty of Medicine, Otto-von-Guericke University, Magdeburg (Germany)

Duração prevista/Estimated duration: 2024/01 – 2026/12

#### *Peer-reviewed publications*

Azañón, E., Pounder, Z., Figueroa, A., & Reeder, R. R. (2025). Individual variability in mental imagery vividness does not predict perceptual interference with imagery: A replication study of Cui et al. (2007). *Journal of Experimental Psychology: General*, 154(7), 2043–2057. <https://doi.org/10.1037/xge0001756>

Reeder, R. R., Pounder, Z., Figueroa, A., Jüllig, A., & Azañón, E. (2024). Non-visual spatial strategies are effective for maintaining precise information in visual working memory. *Cognition*, 251, 105907. <https://doi.org/10.1016/j.cognition.2024.105907>



## Apoios à Investigação Científica 2024/25 | Grants for Scientific Research 2024/25

Publicações revistas por pares, segundo os autores | Peer-reviewed publications, as indicated by the authors

### 05/24 – “A robust AI-test of enchanted psi”

Investigadores/Researchers: Jim Houran, Brian Laythe

Instituição/Institution: Institute for the Study of Religious and Anomalous Experience - ISRAE, Charlestown (USA)

Duração/Duration: 2025/02 – 2026/03

Peer-reviewed publications

Laythe, B., & Houran, J. (2026). *Development of a dual-mode application for psi research*. *Journal of Anomalistics*, 26(1), 216-254. <https://doi.org/10.23793/zfa.2026.216>

Houran, J., & Laythe, B. (2026). Still images, shifting minds: Testing the transformative effects of evocative visuals. *Psychology of Aesthetics, Creativity, and the Arts*. Advance online publication. <https://doi.org/10.1037/aca0000860>

Houran, J., Laythe, B., & Houran, B. M. (2026). Still images as portals to immersive and transformative experience: A narrative review. *Journal of Transpersonal Psychology*, 57, 158-187.

### 025/24 – “Brain basis of mental imagery”

Investigadores/Researchers: Juha Silvanto, Kristian Sandberg

Instituição/Institution: Centre for Cognitive and Brain Sciences, University of Macau (China); Department of Clinical Medicine, University of Aarhus (Denmark)

Duração prevista/Estimated duration: 2025/03 – 2027/03

Peer-reviewed publications

Kvamme, T. L., Nagai, Y., & Silvanto, J. (2026). Imagery in affective and neurodevelopmental conditions: An insula-based interoceptive framework. *Trends Open*. Advance online publication. <https://doi.org/10.1016/j.treopn.2026.06.003>

### 137/24 – “Decoding the motor and physiological dynamics of human-robot interactions”

Investigadores/Researchers: Emmanuele Tidoni, Carlo Campagnoli, Nathan Caruana

Instituição/Institution: Human Technology Laboratory, School of Psychology, University of Leeds (UK)

Duração prevista/Estimated duration: 2025/09 – 2027/08

Peer-reviewed publications

Hechler, F. C., Tidoni, E., Cross, E. S., & Caruana, N. (2025). The influence of human agency beliefs on ascribing gaze-signalled communicative intent. *Scientific Reports*, 15(1), 36296. <https://doi.org/10.1038/s41598-025-22810-9>

Hechler, F. C., Tidoni, E., Stark, C., Aitken, K., Cross, E. S., & Caruana, N. (2025). Autistic and nonautistic people evaluate eye contact cues in context to identify communicative opportunities. *Journal of Experimental Psychology: Human Perception and Performance*, 52(3), 328-348. <https://doi.org/10.1037/xhp0001385>

### 142/24 – “Losing the self in virtual worlds: The relationship between depersonalisation/derealisation, presence, and vestibular functioning in virtual reality”

Investigador/Researcher: Maria Gallagher

Instituição/Institution: School of Psychology, University of Kent, Canterbury (UK)

Duração prevista/Estimated duration: 2025/04 – 2026/08

Peer-reviewed publications

Gallagher, M. (2026). The aftereffects of virtual reality: a narrative review. *Virtual Reality*, 30(3), 118. <https://doi.org/10.1007/s10055-026-01373-8>

**153/24 – “Psychophysiological activation and learning (to Learn): Evidence from action-like video games to mindfulness”**

Investigador/Researcher: Andrea Facoetti

Instituição/Institution: Department of General Psychology, University of Padova (Italy)

Duração prevista/Estimated duration: 2025/10 – 2028/10

*Peer-reviewed publications*

Puccio, G., Franceschini, S., Carbone, S., Filotto, C., Gori, S., Pievani, T., Trezza, V., Mascheretti, S., Facoetti, A., & Bertoni, S. (2026). Brief digital and traditional gameplay transiently reallocate attentional resources in preschool children. *Computers in Human Behavior Reports*, 23, Article 101183. <https://doi.org/10.1016/j.chbr.2026.101183>

Franceschini, S., Bertoni, S., Pluchino, P., Panzeri, A., Bruno, G., Mancarella, M., Puccio, G., Carbone, S., Lulli, M., Termine, C., Spoto, A., Gori, S., & Facoetti, A. (2026). The placebo effect in reading performance: A cross-over experimental study. *Acta Psychologica*, 266, Article 106776. <https://doi.org/10.1016/j.actpsy.2026.106776>

**156/24 – “Decoding the neural signals underlying memory processing in cortico-limbic circuits”**

Investigadores/Researchers: João Filipe Oliveira, Ana João Rodrigues, Leandro Aguiar, Tawan Carvalho, João Machado, João Viana, Daniela Abreu, Sara Barsanti, Alexandra Veiga, Duarte Dias

Instituição/Institution: Life and Health Sciences Research Institute - ICVS, School of Medicine, University of Minho, Braga (Portugal)

Duração prevista/Estimated duration: 2025/10 – 2028/09

*Peer-reviewed publications*

Oliveira, J. F., & Araque, A. (2026). Preface to the special issue "Astrocytes in cognition and behavior". *Journal of Neurochemistry*, 170(6), e70501. <https://doi.org/10.1111/jnc.70501>

**162/24 – “Development and validation of a measure of experiences of spirit communication/interaction”**

Investigadores/Researchers: Etzel Cardeña, Matti Cervin, Alejandro Frigerio, Yvonne Schaffler, Hans van Eyghen, Alexander Moreira-Almeida

Instituição/Institution: Center for Research on Consciousness and Anomalous Psychology - CERCAP, Lund University (Sweden); School of Catholic Theology, University of Tilburg (The Netherlands); Research Center on Spirituality and Health - NUPES, Federal University of Juiz de Fora (Brazil)

Duração prevista/Estimated duration: 2025/05 – 2026/11

*Peer-reviewed publications*

Cardeña, E., Sparhuber, M., & Marcusson-Clavertz, D. (in press). Hypnosis and ganzfeld experiences: How different are they? *Journal of Anomalous Experience and Cognition*.

**241/24 – “BE-FLEX: Oscillatory brain encodings for flexible execution of bayesian inference”**

Investigadores/Researchers: Luca Tarasi, Danilo Carrozzino

Instituição/Institution: Centre for studies and research in Cognitive Neuroscience - CsrNC, University of Bologna (Italy)

Duração prevista/Estimated duration: 2025/10 – 2027/10

*Peer-reviewed publications*

Romanazzi, D., Pasini, A., Tarasi, L., & Romei, V. (2026). Building worlds of your own: the functional role of metacognitive bias in metacognition. *Frontiers in Psychology*, 17, 1792782. <https://doi.org/10.3389/fpsyg.2026.1792782>

Tarasi, L., Covelli, M., Bertini, C., & Romei, V. (2026). A novel bias-free approach for robust perceptual threshold estimation. *Behavior Research Methods*, 58(6), 157. <https://doi.org/10.3758/s13428-026-03038-5>

Tarasi, L., Pasini, A., Romanazzi, D., Covelli, M., & Romei, V. (2026). Prior Expectations Bias Confidence Judgments Through Parietal Alpha-Band Modulation. *Advanced Science*, e19417. Advance online publication. <https://doi.org/10.1002/advs.202519417>

**323/24 – “The psychophysiological and neurocognitive correlates of mindfulness (MindfulBrain+)”**

Investigadores/Researchers: Ana Ganho-Ávila, Vera Mateus, Andrea Antal, Perianen Ramasawmy, Marco Pereira, Raquel Guiomar, Mónica Sobral, Filipa Santos, Yasmin Vieira, Caroline do Rosário, Rafael Cavaca  
Instituição/Institution: Center for Research in Neuropsychology and Cognitive and Behavioral Intervention - CINEICC, University of Coimbra (Portugal); Department of Neurology, University Medical Center Göttingen (Germany)

Duração prevista/Estimated duration: 2025/02 – 2028/02

*Peer-reviewed publications*

Freire-Santos, F., Karacadag, D., Vieira, Y., Sobral, M., Mateus, V., Guiomar, R., Ramasawmy, P., Antal, A., & Ganho-Ávila, A. (2025). The impact of transcranial direct current stimulation combined with virtual reality-based mindfulness on attention and inhibitory control in healthy individuals. *International Journal of Clinical and Health Psychology*, 25(4), 100631. <https://doi.org/10.1016/j.ijchp.2025.100631>

**326/24 – “Digital doppelgänger: Psychophysiological exploration of encounters with contrarian AI”**

Investigadores/Researchers: Emily S. Cross, Manuel Hendry, Andrea Orlandi

Instituição/Institution: Department of Humanities, Social and Political Sciences, ETH Zurich (Switzerland); Institute for the Performing Arts and Film, Zurich University of the Arts (Switzerland)

Duração prevista/Estimated duration: 2025/07 – 2027/07

*Peer-reviewed publications*

Hechler, F. C., Tidoni, E., Cross, E. S., & Caruana, N. (2025). The influence of human agency beliefs on ascribing gaze-signalled communicative intent. *Scientific Reports*, 15(1), 36296. <https://doi.org/10.1038/s41598-025-22810-9>

Hechler, F. C., Tidoni, E., Stark, C., Aitken, K., Cross, E. S., & Caruana, N. (2026). Autistic and nonautistic people evaluate eye contact cues in context to identify communicative opportunities. *Journal of Experimental Psychology. Human Perception and Performance*, 52(3), 328–348. <https://doi.org/10.1037/xhp0001385>

**346/24 – “Charting the moral compass: TMS-EEG Investigation of causal brain dynamics in moral judgment”**

Investigadores/Researchers: Alessio Avenanti, Kamela Cenka, Yanyan Gao, Alice Marra

Instituição/Institution: Department of Psychology "Renzo Canestrari", University of Bologna (Italy)

Duração prevista/Estimated duration: 2025/12 – 2027/11

*Peer-reviewed publications*

Bevacqua, N., Turrini, S., Cataneo, A., Zago, S., Arcara, G., Candidi, M., Mirabella, G., & Avenanti, A. (2026). Cortico-cortical paired associative stimulation highlights the functional role of the cortical pathway from the right inferior frontal gyrus to the primary motor cortex in motor inhibition. *NeuroImage*, 333, 121933. <https://doi.org/10.1016/j.neuroimage.2026.121933>

Cenka, K., Spaccasassi, C., Petkovic, S., Pezzetta, R., Vicario, C. M., Arcara, G., & Avenanti, A. (2026). Rapid rTPJ-driven cortical interactions encode malicious intentions during implicit moral evaluation: A TMS-EEG study. *NeuroImage*, 332, 121885. <https://doi.org/10.1016/j.neuroimage.2026.121885>

**351/24 – “Understanding the interaction of compassion and mindfulness meditation in shaping self-other interactions”**

Investigadores/Researchers: Luca Simone, Salvatore Chiarella, Shaun Gallagher, Antonino Raffone

Instituição/Institution: University of International Studies of Rome (Italy); Department of Psychology, "Sapienza" University of Rome (Italy)

Duração prevista/Estimated duration: 2025/02 – 2027/01

*Peer-reviewed publications*

Carfora, V., Festa, S., Pompili, S., Azzena, I., & Simone, L. (2026). Mindful and informed: Promoting Mediterranean diet sustainability through environmental information and mindfulness induction. *British Food Journal*, 128(7), 2885–2901. <https://doi.org/10.1108/BFJ-04-2025-0484>

Chiarella, S. G., Froli, A., Cavallaro, A., Raffone, A., Simone, L. (2026). Differential contributions of mindfulness, gratitude, and forgiveness to psychological distress, well-being, and emotion regulation: A cross-sectional study. *International Journal of Mental Health Promotion*, 28(4), 3. <https://doi.org/10.32604/ijmhp.2026.072949>



**396/24 – “Mapping the circumstances, phenomenology and impact of After-Death Communications (ADCs): Analysis of new case collections and extension to other cultures”**

Investigadores/Researchers: David Lorimer, Evelyn Elsaesser, Sophie Morrison

Instituição/Institution: The Scientific & Medical Network, London (UK)

Duração prevista/Estimated duration: 2025/02 – 2027/04

*Peer-reviewed publications*

Elsaesser, E., Roe, C. A., Cooper, C. E., Morrison, S., Lorimer, D. (2025). Was Verstorbene mitteilen, was wir über ihren Gemütszustand erfahren und wie sich dies auf die Trauer auswirkt: Mixed-Methods-Analyse einer mehrsprachigen Fallsammlung spontaner Nachtodkontakte (NTK). *Zeitschrift für Anomalistik*, 25(2). <https://doi.org/10.23793/zfa.2025.242de>

Elsaesser, E., Roe, C. A., Cooper, C. E., Morrison, S., & Lorimer, D. (2025). What the deceased communicate, what we learn about their state of mind, and how this impacts grief: Mixed methods analysis of a multilingual case collection of spontaneous after-death communications (ADCs). *Journal of Anomalistics*, 25(2), 242–281. <https://doi.org/10.23793/zfa.2025.242>

**403/24 – “The inner working of primate brain during natural sleep”**

Investigadores/Researchers: Marco Lanzilotto, Mattia Delgrosso, Chiara Campanello

Instituição/Institution: Department of Medicine and Surgery, University of Parma (Italy)

Duração prevista/Estimated duration: 2025/02 – 2028/01

*Peer-reviewed publications*

Lanzilotto, M., Dal Monte, O., Diano, M., Panormita, M., Battaglia, S., Celeghin, A., Bonini, L., & Tamietto, M. (2025). Learning to fear novel stimuli by observing others in the social affordance framework. *Neuroscience and Biobehavioral Reviews*, 169, 106006. <https://doi.org/10.1016/j.neubiorev.2025.106006>

Tili, F., Maranesi, M., Lanzilotto, M., Ferroni, C. G., Livi, A., Bonini, L., & Albertini, D. (2025). Mirror neurons in monkey frontal and parietal areas. *Scientific Data*, 12, 1005. <https://doi.org/10.1038/s41597-025-05299-9>

**422/24 – “Affect, consciousness, and moral judgments”**

Investigadores/Researchers: Piotr Winkielman

Instituição/Institution: Department of Psychology, University of California, San Diego (USA)

Duração prevista/Estimated duration: 2025/07 – 2028/07

*Peer-reviewed publications*

Winkielman, P., & Jasko, K. (2026). The value of effort in actions and thoughts derives from how it serves our goals. *Affective Science*. Advance online publication. <https://doi.org/10.1007/s42761-026-00373-w>

Zhang, Z., & Winkielman, P. (2026). How do faces influence behavior? A proposal for distinguishing between mechanisms that involve cognitive inferences, emotional feelings, and unconscious affective reactions. *Affective Science*, 7(1), 74–87. <https://doi.org/10.1007/s42761-025-00350-9>

**427/24 – “F.O.C.U.S: The role of front-orbito-cerebellar unity in sustained motivation”**

Investigadores/Researchers: João Peça, Joana Guedes, Tiago Reis, Emanuel Ferreira Fernandes, Renato Duarte, Ana Luísa Cardoso

Instituição/Institution: Center for Neuroscience and Cell Biology - CNC, University of Coimbra (Portugal)

Duração prevista/Estimated duration: 2025/04 – 2028/04

*Peer-reviewed publications*

Oliveira, A. R., Cammarata, G., Seabra, C., Cardoso, A. M., Santos, H. J., Guedes, J., Sequeira, D., Santos, J. M. M., Oliveira, G., Cardoso, A. L., Fernandes, D., Leite, M. I., Coutinho, E., Carvalho, A. L., Ferreira, L., & Peça, J. (2026). CASPR2 Autoimmune Antibodies Induce Neuronal Hyperactivity in Human Brain Organoids. *Journal of Neurochemistry*, 170(2), e70388. <https://doi.org/10.1111/jnc.70388>