

Online live and on-demand

4-6 October 2021



Programme – Online and On-demand			
Central European Time			
		lay 4 <sup>th</sup> October 2021	
12:00-12:15	Welcome and opening session Chairs: Greg Poland and Paolo Bonanni		
12:15-13:45	PLENARY SESSION 1		
	COVID Vaccines – Immunology, Vaccines and Epidemiology		
	Chair: Ivan Hung		
12:15-12:45	KEY01	countries: what do the models tell us	-
	Mark Jit, LSHTM, UK	countries. What do the models tell di	5
12:45-13:15	KEY02		
	COVID-19: lessons learned and prepa	aring for the future	
	Mike Whelan, Coalition for Epidemic	Preparedness Innovations, UK	
13:15-13:45	KEY03	and affective an	and in activists of COMP 40
	Ben Cowling, University of Hong Kon	ogenicity and effectiveness of mRNA a	ind inactivated COVID-19 vaccines
13:45-14:15	Refreshment break	y, riong kong	
14:15-15:45	BREAKOUT SESSION 1	BREAKOUT SESSION 2	BREAKOUT SESSION 3
	Vaccines against Emerging	Hot Topics	Vaccines against Emerging and
	Diseases – Current Progress	Chairs: Florian Krammer and Rick	other Diseases – Current
	Chair: Ivan Hung	Kennedy	Progress Chairs: Arthur Reingold and
			Danny Altmann
14:15-14:45	[INV01]	[INV02]	[INV03]
	Novel Coronavirus 2019: A	Rapid Development of a SARS-	Safety and Long-Term
	Review and Update Greg Poland, Editor in Chief,	CoV-2 Vaccine: Then and Now Kizzmekia Corbett	Immunogenicity of a Chikungunya Virus-Like Particle
	Vaccine and Mayo Clinic, USA	Harvard T.H. Chan School of Public	Vaccine
		Health, USA	Sean Bennett <sup>1</sup> , James M.
			McCarty <sup>2</sup> , Roshan Ramanathan <sup>1</sup> ,
			Jason Mendy <sup>3</sup> , Lisa Bedell <sup>3</sup> , Emily Coates <sup>4</sup> , Grace Chen <sup>5</sup> ,
			Chris Cabell <sup>3</sup> , Julie E.
			Ledgerwood <sup>4</sup> , <u>Kelly Warfield</u> <sup>3</sup>
			<sup>1</sup> Formerly Emergent
			BioSolutions, Inc., USA. <sup>2</sup> Stanford
			University, Stanford, CA, USA.
			<sup>3</sup> Emergent BioSolutions Inc, Gaithersburg, MD, USA.
			<sup>4</sup> Vaccine Research Center,
			Bethesda, MD, USA. <sup>5</sup> Formerly
			Vaccine Research Center,
			Bethesda, MD, USA
14:45-15:00	[001.1]	[002.1]	[003.1]
25.00	Development of a thermostable	The replication-defective	Vaccine strategy for emerging
	and easy to produce dual-target	Sementis Copenhagen Vector	diseases such as dengue and
	Ebola/yellow fever vaccine	encoding the SARS-CoV-2 spike	SARS-CoV-2
	candidate Viktor Lemmens <sup>1</sup> , Lorena Sanchez-	glycoprotein induces broad and durable cellular and humoral	<u>Day-Yu Chao</u> National Chung-Hsing
	Felipe <sup>1</sup> , Sarah Debaveye <sup>1</sup> , Lara	immune responses after	University, Taiwan
	Kelchtermans <sup>1</sup> , Robbert	vaccination	
	Boudewijns <sup>1</sup> , Katrien Geerts <sup>1</sup> ,		

14:00-15:15	Hendrik Jan Thibaut <sup>1,2</sup> , Johan Neyts <sup>1</sup> , Kai Dallmeier <sup>1</sup> <sup>1</sup> KU Leuven, Belgium. <sup>2</sup> TPVC, Belgium  [O01.2] Feasibility of Pan-Filovirus Protection: Progress towards a single-vial thermostabilized recombinant subunit vaccine Axel T Lehrer <sup>1</sup> , Teri Ann S Wong <sup>1</sup> , Michael M Lieberman <sup>1</sup> , Albert To <sup>1</sup> , Oreola Donini <sup>2</sup> , Kendall Preston <sup>3</sup> , Theodore W Randolph <sup>3</sup> , Thomas W Geisbert <sup>4</sup> <sup>1</sup> University of Hawaii, USA. <sup>2</sup> Soligenix, Inc., USA. <sup>3</sup> University of Colorado Boulder, USA. <sup>4</sup> University of Texas Medical Branch, USA	Preethi Eldi¹, Natalie Prow¹, Tamara Cooper¹, Liang Liu², Gary Heinemann², Jamie Zhang¹, Leanne Hobbs³, Kerrilyn Diener¹, John Hayball¹,³ ¹University of South Australia, Australia. ²CSL Ltd, Australia. ³Sementis Ltd, Australia  [O02.2] Anti-SARS-CoV-2 antibody responses in the saliva following systemic COVID-19 Vaccination Salma Sheikh-Mohamed¹, Mahya Fazel², Alyson Takaoka³, Keelia Quinn de Launay³, Gary Chao¹, Alainna Jamal², Olga Rojas¹, Allison McGeer², Anne-Claude Gingras², Jennifer Gommerman¹ ¹University of Toronto, Canada. ²Mount Sinai Hospital, Canada. ³St. Michael's Hospital, Canada	[O03.2] A chimeric yellow fever-Zika virus vaccine and a thermostable plasmid-launched version thereof protect macaques against Zika virus challenge  Mahadesh Prasad Arkalagud  Javarappa¹, Bert Melanier- Devlies², Babs E Verstrepen³, Ji  Ma¹, Thomas Vercruysse⁴, Sapna Sharma¹, Ernst Verschoor³, Johan Neyts¹, Lotte Coelmont¹, Kai Dallmeier¹  ¹KU Leuven, Rega Institute, Belgium. ²KU Leuven, Department of Microbiology, Immunology and Transplantation, Belgium.  ³Department of Virology, Biomedical Primate Research Centre (BPRC), The Netherlands.  ⁴KU Leuven, Translational Platform Virology and Chemotherapy (TPVC), Belgium
15:15-15:30	[O01.3] Ebola exposure and post- vaccination risk behaviors during the 2018 North Kivu Ebola outbreak in the Democratic Republic of the Congo Anna Bratcher <sup>1</sup> , Nicole A Hoff <sup>1</sup> , Roch A Nianogo <sup>1</sup> , Adva Gadoth <sup>1</sup> , Dalau Nkamba Mukadi <sup>2</sup> , Angelica Barrall <sup>1</sup> , Patrick Mukadi <sup>3</sup> , Steve Ahuka <sup>3</sup> , Jean-Jacques Muyembe- Tamfum <sup>3</sup> , Anne W. Rimoin <sup>1</sup> <sup>1</sup> University of California, Los Angeles, USA. <sup>2</sup> Ecole de Sante Publique, Université de Kinshasa, Democratic Republic of Congo. <sup>3</sup> Institut National de Recherche Biomédicale, Democratic Republic of Congo	[O02.3] Antibody Responses After a Single Dose of ChAdOx1 nCoV-19 Vaccine in Healthcare Workers Previously Infected with SARS- CoV-2 Sebastian Havervall <sup>1</sup> , Ulrika Marking <sup>1</sup> , Nina Greilert-Norin <sup>1</sup> , Henry Ng <sup>2</sup> , Mia Phillipson <sup>2</sup> , Jonas Klingstrom <sup>1</sup> , Mikael Aberg <sup>2</sup> , Sophia Hober <sup>3</sup> , Peter Nilsson <sup>3</sup> , Charlotte Thalon <sup>1</sup> <sup>1</sup> Karolinska Institutet, Sweden. <sup>2</sup> Uppsala University, Sweden. <sup>3</sup> KTH Royal Institute of Technology, Sweden	[O03.3] A potent single dose live- attenuated YF17D-vectored SARS-CoV-2 vaccine fully protects against lethal yellow fever virus infection Ji Ma, Dominique Van Looveren, Xin Zhang, Robbert Boudewijns, Lorena Sanchez-Felipe, Thomas Vercruysse, Hendrik Jan Thibaut, Johan Neyts, Kai Dallmeier Rega Institute for Medical Research, KU Leuven, Belgium
15:30-15:45	oj congo	[O02.4] Transient sensory symptoms among first-dose recipients of the BNT162b2 mRNA COVID-19 vaccine: A case-control study Sergio Valdés-Ferrer, Miguel García-Grimshaw	[O03.4] Analyzing the antibody response to a universal influenza virus vaccine candidate with an influenza virus protein microarray Philip Meade <sup>1,2</sup> , Fatima Amanat <sup>1,2</sup> , Shirin Strohmeier <sup>1,2</sup> ,

	Defination and	Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico	Andres Javier <sup>1</sup> , Florian Krammer <sup>1</sup> <sup>1</sup> Department of microbiology, Icahn school of medicine at Mount Sinai, USA. <sup>2</sup> Graduate school of biomedical sciences, Icahn school of medicine at Mount Sinai, USA
15:45-16:15	Refreshment break		
16:15-17:15	Prize winner Plenary Session Chair: Greg Poland		
16:15-16:45	KEY04 - Winner of the Schneerson-R	cobbins Prize yond the Randomized Controlled Trial	l
16:45-17:15	KEY05 – Winner of Edward Jenner V Myths Surrounding COVID-19 Vaccin Paul Offit, The Children's Hospital of	es	
17:15	End of day		
	Tuesc	lay 5 <sup>th</sup> October 2021	
09:00-10:30	BREAKOUT SESSION 4 Enhancing Vaccine Immunogenicity – Adjuvants, Modifiers and Antigen Packaging Chairs: Linda Lua and Danny Altmann	BREAKOUT SESSION 5 Fungal/Bacterial/ AMR/Parasitic /STD Vaccines Chair: Ray Borrow	BREAKOUT SESSION 6 Vaccine Safety and Risk Chair: Ken Ishii
09:00-09:30	[INV04] Complete protection by a single dose skin patch delivered SARS-CoV-2 spike vaccine <u>David Muller</u> , The University of Queensland, Australia	[INV05] Developing a controlled human infection model for tuberculosis Helen McShane University of Oxford, Oxford, UK	[INV06] The Global Vaccine Data Network (GVDN) - a multi national collaboration using big data for post authorisation vaccine safety studies. Helen Petousis-Harris <sup>1</sup> , Steve Black <sup>2</sup> <sup>1</sup> The University of Auckland, Auckland, New Zealand. <sup>2</sup> Global Vaccine Data Network, New Zealand
09:30-09:45	[O04.1] Intranasal vaccine development using probiotic Escherichia coli- derived membrane vesicles carrying pneumococcal capsular polysaccharides Ryoma Nakao¹, Yusuke Iwabuchi¹,², Soichiro Kimura³, Satoru Hirayama⁴, Saeko Morino⁵, Motoi Suzuki⁵, Makoto Ohnishi⁶ ¹National Institute of Infectious Diseases, Japan. ² Medical and Dental University, Japan. ³ Toho University Graduate School of Medicine, Japan. ⁴Niigata University Graduate School of Medical and Dental Sciences, Japan. ⁵Infectious Diseases Surveillance Center, National Institute of Infectious Diseases, Japan. ⁶National Institute of Infectious Diseases, Japan	[O05.1] A novel therapeutic vaccine against multi-drug resistant tuberculosis by T cell-immunity and phase 1 clinical trial Masaji Okada¹, Kazunori Tomono², Yoko Kita¹, Yasufumi Kaneda³, Kazunari Tsuyuguchi¹, Takefumi Saito⁴, Yoshikazu Inoue¹, Akira Yamane⁵, Tomoshige Matsumoto⁶ ¹National Hospital Organization Kinki-chuo Chest Medical Center, Japan. ²Osaka Institute of Public Health, Japan. ³Osaka University, Japan. ⁴NHO Ibaraki-higashi Hospital, Japan. ⁵NHO Tokyo Hospital, Japan. ⁶JATA Osaka Hospital, Japan	[O06.1] Safety, humoral and cellular response to standard and double dose of hepatitis B vaccine in children after liver transplantation Palittiya Sintusek <sup>1</sup> , Yong Poovorawan <sup>1</sup> , Supranee Buranapraditkun <sup>1</sup> , Piyaporn Wanawongsawad <sup>2</sup> 1 Chulalongkorn University, Thailand. 2 King Chulalongkorn Memorial Hospital, Thailand

09:45-10:00	Design of recombinant viral vaccines based on mumps virus  Dorotea Pali, Tanja Kosutic Gulija, Anamarija Slovic, Jelena Ivancic Jelecki, Dubravko Forcic University of Zagreb, Croatia	[O05.2] Identification of protective antigens of mycoplasma pneumoniae that are engineered to avoid vaccine-enhanced disease Arlind Mara <sup>1,2</sup> , Tyler Gavitt <sup>1,2</sup> , Rosemary Ozyck <sup>1</sup> , Joseph Pettinelli <sup>1</sup> , Edan Tulman <sup>1,2</sup> , Steven Geary <sup>1,2</sup> , Steven Szczepanek <sup>1,2</sup> <sup>1</sup> University of Connecticut, USA. <sup>2</sup> Center of Excellence for Vaccine Research, USA	[O06.2] Vaccines in times of pandemic. Argumentative time work for vaccine hesitancy Simona - Nicoleta Vulpe University of Bucharest, Romania
10:00-10:15	[O04.3] Pulsatile burst-release microneedle patches for single administration vaccines for respiratory pathogens Khanh Tran <sup>1</sup> , <u>Tyler Gavitt</u> <sup>1,2</sup> , Edan Tulman <sup>1</sup> , Steven Szczepanek <sup>1,2</sup> , Thanh Nguyen <sup>1</sup> <sup>1</sup> University of Connecticut, USA. <sup>2</sup> Center of Excellence for Vaccine Research, USA	[O05.3] In silico evaluation of potential epitopes for the design of a peptide vaccine against Uropathogenic Escherichia Coli infection Andrés Felipe Cuspoca Orduz, Yardany Rafael Mendez Fandiño, Laura L Diaz Lache, Alvaro F Acosta Costilla Universidad Pedagógica y Tecnológica de Colombia - UPTC Tunja, Colombia	[O06.3] A scoping review examining the availability of dialogue-based resources to support healthcare providers engagement with vaccine hesitant individuals Joshua Karras UNSW, Australia
10:15-10:30	[O04.4] Characterization of novel CMV- based vaccine vectors against microbial pathogens and tumors Marko Šustic¹, Tina Ružic¹, Maja Cokarić Brdovčak¹, Lea Hiršl¹, Berislav Lisnic¹, Lydija Gaćina¹, Luka Čičin-Šain²,³, Ilija Brizic¹, Astrid Krmpotic¹, Stipan Jonjic¹ ¹University of Rijeka, Faculty of Medicine, Croatia. ²Helmholtz Centre for Infection Research, Germany. ³German Center for Infection Research (DZIF), Germany	[O05.4] Enhancing pneumococcal vaccination rates through shared decision making in outpatient care – a systematic review and meta-analysis Flora Kuehne <sup>1</sup> , Linda Sanftenberg <sup>1</sup> , Charlotte Anraad <sup>2</sup> , Caroline Jung-Sievers <sup>3</sup> , Tobias Dreischulte <sup>1</sup> , Jochen Gensichen <sup>1</sup> <sup>1</sup> LMU University Hospital, Germany. <sup>2</sup> Maastricht University, The Netherlands, <sup>3</sup> Institute for Medical Information Processing, Biometry and Epidemiology (IBE), Ludwig-Maximilians-University Munich, Germany,	[O06.4] Guillain-Barré syndrome among recipients of the BNT162b2 mRNA COVID-19 vaccine in Mexico: A Nationwide Descriptive Study Sergio Iván Valdés-Ferrer <sup>1,2</sup> , Miguel García-Grimshaw <sup>1</sup> , Maria del Mar Saniger-Alba <sup>1</sup> , Laura Hernández-Vanegas <sup>3</sup> , Antonio Arauz <sup>3</sup> , Santa Elizabeth Ceballos-Liceaga <sup>4</sup> <sup>1</sup> Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico. <sup>2</sup> Northwell Health Feinstein Institutes for Medical Research, USA. <sup>3</sup> National Institute of Neurology and Neurosurgery Manuel Velasco Suarez, Mexico. <sup>4</sup> Dirección General de Epidemiología, Secretaría de Salud, Mexico
10:30-11:00	Refreshment break		,
11:00-12:30	BREAKOUT SESSION 07 Veterinary Vaccinology and Vaccines against Neurological Infections Chairs: Sylvia van den Hurk and Tony Fooks	BREAKOUT SESSION 8 Novel and Emerging Influenza Vaccines Chairs: Florian Krammer and Daniel Salmon	BREAKOUT SESSION 9 Vaccines against SARS-CoV-2 Chair Ken Ishii

11:00-11:30	[INV07.1] Evolution of rabies vaccines and the concept "Zero by 2030"  Noel Tordo, Institut Pasteur de Guinée/Insitut Pasteur, France	Fighting COVID-19 with a broadly neutralizing monoclonal antibody Davide Corti, Humabs BioMed SA, a subsidiary of Vir Biotechnology, Bellinzona, Switzerland	[O09.1] A room temperature-stable, tablet-based SARS-COV-2 oral vaccine candidate induces both antigen-specific mucosal IgA responses and CD8+ T cell responses in humans Mario Cortese, Susan Johnson, Karen Lin, Clarissa Martinez, Sarah Tedjakusuma, Damoun Torabi, Nadine Peinovich, Emery Dora, Sean Tucker Vaxart Inc., USA [O09.2] SARS-CoV-2 vaccine design for improved humoral responses in aging mice Dominik Pflumm, Katja Stifter University Hospital Ulm, Germany
11:45-12:00	[INV07.2] Multimeric scaffolds and bacterial superglue – modern vaccine development using the Schmallenberg virus model Martin Beer, Friedrich-Loeffler Institute, Reims, Germany	[O08.1] Obesity is associated with an altered baseline and post-vaccination influenza antibody repertoire  Marwa Abd Alhadi¹,², Lilach Friedman¹,², Erik Karlsson³,⁴, Liel Cohen-Lavi¹,⁵, Anat Burkovitz¹,², Stacey Schultz-Cherry⁴, Terry Noah⁶, Samuel Weirˀ, Lester Shulman³, Melinda Beck³ ¹National Center for Biotechnology in the Negev, Ben-Gurion University of the Negev, Israel. ²Department of Microbiology, Immunology and Genetics, Ben-Gurion University of the Negev, Israel. ³Virology Unit, Institute Pasteur du Cambodge, Cambodia. ⁴St. Jude Children's Research Hospital, USA ⁵Department of Industrial Engineering and Management, Ben-Gurion University of the Negev, Israel. ⁶ University of North Carolina at Chapel Hill, USA ¹Department of Family Medicine, University of North Carolina at Chapel Hill, USA. ®Dept. of Epidemiology and Preventive Medicine, School of Public Health, Sackler Faculty of Medicine, Tel Aviv University, Israel. ९ Gillings School of Global Public Health, UNC, USA [O08.2]	[O09.3] Development of epitope nanoparticle-based vaccine for prevention of SARS-CoV2 infection approved by in vivo model  Andrey Tchorbanov <sup>1,2</sup> , Nikolina Mihaylova <sup>1</sup> , Iliyan Manoylov <sup>1</sup> , Nikola Ralchev <sup>1</sup> , Kalina Nikolova- Ganeva <sup>1</sup> , Silviya Bradyanova <sup>1</sup> , Gabriela Boneva <sup>1</sup> , Irini Doytchinova <sup>3</sup> <sup>1</sup> Bulgarian Academy of Sciences, Bulgaria. <sup>2</sup> National Institute of Immunology, Bulgaria. <sup>3</sup> Medical University of Sofia, Bulgaria
11.45-12:00		HLA-DRB1*04 associated chronic inflammation and extracellular matrix-specific autoimmunity following inadvertent	In silico characterization of non- synonymous substitutions and immune recognition of SARS- CoV-2: potential vaccine target

		periarticular influenza vaccination Julia Hirsiger¹, Giorgio Tamborrini², Dorothee Harder³, Glenn R. Bantug¹, Gideon Hoenger³, Quan-Zhen Li⁴, Ivan Martin¹, Arnaud Scherberich¹, Thomas Daikeler³, Christoph T. Berger³ ¹University of Basel, Switzerland. ²Ultrasound Center for Rheumatology, Switzerland. ³University Hospital Basel, Switzerland. ⁴University of Texas Southwestern Medical Center, USA	for development in the Americas Andrés Felipe Cuspoca Orduz, Yardany Rafael Mendez Fandiño, Laura L Diaz Lache, Alvaro F Acosta Costilla Universidad Pedagógica y Tecnológica de Colombia - UPTC Tunja, Colombia
12:00-12:15	[O07.1] Humoral and Cell-Mediated Immune Response Validation in Calves after a Live Attenuated Vaccine of Babesia bigemina Imran Rashid University of Veterinary and Animal Sciences, Pakistan	[O08.3] Cost-effectiveness of quadrivalent adjuvanted influenza vaccine with MF59® versus high and standard-dose quadrivalent influenza vaccines in Germany Michele Kohli¹, Michael Maschio¹, Shannon Cartier¹, Joaquin Mould- Quevedo² ¹Quadrant Health Economics Inc., Canada. ²Seqirus USA Inc., USA	[O09.5] A single-dose live-attenuated YF17D-vectored SARS-CoV-2 vaccine candidate Lorena Sanchez-Felipe <sup>1,2</sup> , Thomas Vercruysse <sup>1,3</sup> , Sapna Sharma <sup>1,2</sup> , Ji Ma <sup>1,2</sup> , Viktor Lemmens <sup>1,2</sup> , Dominique Van Looveren <sup>1,3</sup> , Mahadesh Prasad Arkalagud Javarappa <sup>1,2</sup> , Johan Neyts <sup>1,2</sup> , Hendrik Jan Thibaut <sup>1,3</sup> , Kai Dallmeier <sup>1,2</sup> 1KU Leuven Department of Microbiology, Immunology and Transplantation, Rega Institute, Belgium. 2GVN, Global Virus Network, USA. 3KU Leuven Department of Microbiology, Immunology and Transplantation, Rega Institute, (TPVC), Belgium
12:15-12:30	[O07.2] A synthetic peptide CTL vaccine confers protection from SARS-CoV-2 challenge in rhesus macaques Paul Harris <sup>1</sup> , Jason Comer <sup>2</sup> , Trevor Brasel <sup>2</sup> , Christopher Massey <sup>2</sup> , Scott Burkholz <sup>3</sup> , Richard Carback <sup>3</sup> , Thomas Hodge <sup>3</sup> , Liu Wang <sup>3</sup> , C.V. Herst <sup>3</sup> , Reid Rubsamen <sup>3</sup> 1 Columbia University Medical Center, USA. 2 University of Texas Medical Branch, USA. 3 Flow Pharma Inc, USA	[O08.4] Influenza vaccine effectiveness against hospitalisation in children – experiences from the childhood influenza vaccination programme in England Nicki Boddington <sup>1,2</sup> , Richard Pebody <sup>1</sup> , Punam Mangtani <sup>2</sup> <sup>1</sup> Public Health England, UK. <sup>2</sup> London School of Hygiene and Tropical Medicine, UK	( · · · · · · · · · · · · · · · · · · ·
12:30-13:00	Break		
13:00-14:30	BREAKOUT SESSION 10 Vaccine Durability and Miscellaneous Chairs: Rick Kennedy and Sylvia van den Hurk	BREAKOUT 11 Age Based v Risk Based Vaccination —COVID and other Vaccine Prioritisation Chair: Paolo Bonanni	BREAKOUT SESSION 12 Disease/Pathogen X and Preparations for the future Chairs: Art Reingold and Florian Krammer
13:00-13.30	[INV10] Vaccine Durability and Immunologic Memory – How Do We Get There?	[INV11] Optimizing COVID-19 vaccine allocation: Who to vaccinate first?	[INV12] Florian Krammer, Icahn School of Medicine, USA

	Rick Kennedy, Mayo Clinic, USA	Laura Matrajt <sup>1</sup> , Julia Eaton <sup>2</sup> , Tiffany Leung <sup>1</sup> , Dobromir Dimitrov <sup>1</sup> , Joshua Schiffer <sup>1</sup> , David Swan <sup>1</sup> , Holly Janes <sup>1</sup> <sup>1</sup> Fred Hutchinson Cancer Research Center, USA. <sup>2</sup> University of Washington Tacoma, USA	
13.30-13.45	[O10.1] Waning immunity of Pertussis, Diphtheria, Tetanus and Polio- related vaccine: a systematic review and meta-analysis Huizhi Gao <sup>1</sup> , Benjamin J. Cowling <sup>1,2</sup> , Eric Ho Yin Lau <sup>1,2</sup> <sup>1</sup> WHO Collaborating Centre for Infectious Disease Epidemiology and Control, The University of Hong Kong, Hong Kong. <sup>2</sup> Laboratory of Data Discovery for Health, Hong Kong Science and Technology Park, Hong Kong	[O11.1] The optimal vaccination strategy to control COVID-19: a modeling study based on the transmission scenario in Wuhan City, China Zeyu Zhao State Key Laboratory of Molecular Vaccinology and Molecular Diagnostics, Xiamen University, China. Université de Montpellier, CIRAD, Intertryp, Montpellier, IES, CNRS, France	[O12.1] The next generation of human diploid vaccine development Anna-Barbara Hachmann <sup>1</sup> , Megan Pajak-Lee <sup>1</sup> , David Klinkenberg <sup>2</sup> , Annette Madsen <sup>2</sup> , Andrew Campbell <sup>1</sup> <sup>1</sup> Thermo Fisher Scientific, USA. <sup>2</sup> Thermo Fisher Scientific, Denmark
13:45-14:00	[O10.2] Immunization Using Male Germ Cells and Gametes as Rich Sources of Cancer/Testis Antigens for Inhibition of 4T1 Breast Tumors' Growth and Metastasis in BALB/c Mice Amirhosein Kefayat <sup>1</sup> , Fatemeh Ghahremani <sup>2</sup> , Parvin Goli <sup>1</sup> , Ashkan Safavi <sup>3</sup> <sup>1</sup> Isfahan University of Medical Sciences, Iran. <sup>2</sup> Arak University of Medical Sciences, Iran. <sup>3</sup> Islamic Azad University of Tehran, Iran	[O11.2] 1-year impact of COVID-19 on childhood immunizations in Pakistan: analysis of >3.7 million children Subhash Chandir <sup>1,2,3</sup> , Danya Arif Siddiqi <sup>1</sup> , Mariam Mehmood <sup>3</sup> , Sundus Iftikhar <sup>3</sup> , Muhammad Siddique <sup>3</sup> , Sindhika Jai <sup>3</sup> , Vijay Kumar Dharma <sup>3</sup> , Anokhi Ali Khan <sup>3</sup> , Mohammed Adil Akhter <sup>3</sup> , Aamir Javed Khan <sup>1</sup> 1IRD Global, Singapore. <sup>2</sup> Harvard Medical School, USA. <sup>3</sup> IRD Pakistan, Pakistan	[O12.2] Modelling the efficacy of a herpesvirus-vectored transmissible vaccine as a long-term control strategy for vampire bat transmitted rabies virus  Megan Griffiths <sup>1</sup> , Dan Haydon <sup>2</sup> , Daniel Streicker <sup>1,2</sup> <sup>1</sup> MRC-University of Glasgow Centre for Virus Research, UK. <sup>2</sup> IBAHCM, University of Glasgow, UK
14:00-14:15	[O10.3] Individual Preferences for COVID- 19 Vaccination in China anli Leng <sup>1</sup> , Elizabeth Maitland <sup>2</sup> , Siyuan Wang <sup>3</sup> , Stephen Nicholas <sup>4</sup> , Rugang Liu <sup>5</sup> , Jian Wang <sup>6</sup> <sup>1</sup> Shandong University, China. <sup>2</sup> University of Liverpool, UK. <sup>3</sup> University of Melbourne, Australia. <sup>4</sup> University of Newcastle, Australia. <sup>5</sup> Nanjing Medical University, China. <sup>6</sup> Wuhan University, China	[O11.3] Systematic review of the ongoing clinical trials dedicated to evaluate the safety and efficacy of COVID-19 vaccines in children Shreya Garg <sup>1</sup> , Karan Raheja <sup>1</sup> , Sachin Dubey <sup>1</sup> , Saurabh Gupta <sup>2</sup> <sup>1</sup> Yashoda Hospital and Research Centre, India. <sup>2</sup> Yashoda Hospital and Research, India	[O12.3] The value of public-private partnerships to monitor vaccines effectiveness in Europe: leveraging an existing influenza platform for COVID-19 post-authorization studies Laurence Torcel-Pagnon <sup>1</sup> , Kaat Bollaerts <sup>2</sup> , Antonio Carmona <sup>3</sup> <sup>1</sup> Sanofi Pasteur, France. <sup>2</sup> P95, Belgium. <sup>3</sup> FISABIO, Spain
14:15-14:30		[O11.4] Cov19VaxKB: A Web-based Integrative COVID-19 Vaccine Knowledge Base Philip Huang <sup>1</sup> , Rohit Goru <sup>1</sup> , Anthony Huffman <sup>1</sup> , Asiyah Yu Lin <sup>2</sup> , Yongqun "Oliver" He <sup>1</sup> <sup>1</sup> University of Michigan Medical School, Ann Arbor, MI, USA. <sup>2</sup> NIH, USA	[O12.4] An immunoinformatics approach for SARS-CoV-2 in Latam populations and multi- epitope vaccine candidate directed towards the world's population Andrés Felipe Cuspoca Orduz <sup>1</sup> , Yardany Rafael Mendez Fandiño <sup>1</sup> , Juvenal Yosa Reyes <sup>2</sup> ,

	Laura L Diaz Lache <sup>1</sup> , Alvaro F		
	Acosta Costilla <sup>1</sup>		
	<sup>1</sup> Universidad Pedagógica y		
	Tecnológica de Colombia - UPTC		
	Colombia. <sup>2</sup> Universidad Simón		
	Bolivar, Colombia		
14:30-15:00	Break		
15:00-16:00	A correlate of protection for licensure of COVID-19 vaccines		
45.00.45.00	Chair: Greg Poland		
15:00-15:20	Correlates of Vaccine-induced Immunity Stanley Plotkin, University of Pennsylvania, USA		
15:20-15:40	Neutralising antibodies as predictors of immune protection from SARS-CoV-2 infection		
13.20-13.40	Miles Davenport, Kirby Institute, UNSW, Australia		
15:40-16:00	Population based thresholds of protection for COVID-19 vaccines		
13.40 10.00	David Goldblatt, UCL, UK		
16:00	End of day		
	Wednesday 6 <sup>th</sup> October 2021		
09:00-10:10	Spotlight on Europe: COVID-19 Vaccine Immunogenicity, Safety, communication and organizational issues		
	Chair: Paolo Bonanni		
09:00-09:10	Introduction		
09:10-09:25	[Spotlight.1]		
	Post-marketing Cases Reporting Anaphylaxis after Vaccination with COVID-19 Vaccines in Croatia		
	Barbara Kovačić, Nikica Mirošević Skvrce, Morana Pavičić, Željana Margan Koletić, Siniša Tomić		
	Agency for Medicinal Products and Medical Devices of Croatia, Croatia		
09:25-09:40	[Spotlight.2]		
	Assessment of health care resource utilisation for COVID-19 mRNA vaccination programs in Germany		
	J Matthias Graf von der Schulenburg <sup>1</sup> , Alfred Müller <sup>2</sup> , <u>Steffen Wahler<sup>3</sup></u> <sup>1</sup> Center for Health Economics Research, Hannover, Germany. <sup>2</sup> Analytic Services, Munich, Germany. <sup>3</sup> St.		
	Bernward GmbH, Hamburg, Germany		
09:40-09:55	[Spotlight.3]		
	Kinetics of the humoral response after SARS-CoV-2 vaccination with BNT162b2 (Pfizer-BioNTech) in		
	gonesse hospital's healthcare workers		
	Amina Kadi, Habiba Kadi, Didier Troisvallets, Rachid Sehouane, Wacila Berkani		
	Medical biology laboratory, Gonesse Hospital Center, France		
09:55-10:25	Refreshment Break		
10:25-11:55	PLENARY SESSION 3		
	Vaccine Hesitancy and Population Coverage Rates – The Way Forward		
	Chair: Heidi Larson		
10:25-10:55	[KEY06]		
	The state of vaccine confidence in Europe: what was the impact of the COVID-19 pandemic?		
40 44	Emilie Karafillakis London School of Hygiene & Tropical Medicine, London, UK		
10:55-11:25	[KEY07]		
	What drives COVID-19 Vaccination Decisions in Quebec, Canada? Findings from repeated cross-sectional		
	surveys across 4 waves		
11.25-11:55	Eve Dubé Institut national de santé publique du Québec, Canada. Université Laval, Canada		
11.25-11:55	[KEY08]		
	Improving vaccine acceptance: the use of human centered design and the empathy tool <u>Caroline Poland Poland and Associates Consulting, LLC, USA</u>		
11:55-12:15	Closing Plenary and close of conference		
11.33-12.13	Greg Poland and Paolo Bonanni		
	Greg Forum unu Fuoro Bondinin		