**Request for transfer of biological material / human biological sample / associated data**

**Scope**: This form must be used by any researcher who would like to obtain samples or data from *Milieu Intérieur* Collection *" Genetic & Environmental Determinants Of Immune Phenotype variance: Establishing A Path Towards Personalized Medicine (ID-RCB Number: 2018-A00861-54;* NCT03905993*)",* funded in the framework of the project LABEX *Milieu Intérieur*. Samples should be used only to answer *Milieu Intérieur* Collection research objectives. All Access Request Forms will be reviewed by the *Milieu Intérieur* Committee to validate access.

🡺 Requests should be sent to: [milieuinterieurdac@pasteur.fr](mailto:milieuinterieurdac@pasteur.fr)

1. **Administrative information**

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| **Laboratory** |  |
| **Institution** |  |
| **Name of applicant** |  |
| **E-mail** |  |
| **Name of supervisor** |  |
| **Member of the *Milieu Intérieur* Consortium (MIC)** | **yes  no** |
| **Request for samples** | **yes  no** |
| **Request for raw data** | **yes  no** |
| **Request for analyzed data** | **yes  no** |
| **Date of request** |  |
| **Signature** | |

**Conditions**: The Applicant must be compliant with current regulations for the sample / data use and specifically with the French legal regulations.

All use of data generated by MI or from MI samples must respect the consortium publication charter, and any newly generated data must be returned for inclusion in the MI data warehouse and made available for use by the rest of the consortium.

As regards to the MI data, in no case these data should be used for (1) reidentification of subjects, (2) sent to a third party and (3) used for diagnostic purposes.

MI genetic data can be held in unencrypted files on an institutional compute system, with Unix user read/write access for the Applicant only, behind a secure firewall. Laptops holding these data should have logins and screenlocks protected by a >10-character password. If held on USB keys or other portable hard drives, the data must be encrypted. If the request for sample/data is granted, the project title, a non-technical summary and names of collaborators will be posted on the website - <https://research.pasteur.fr/en/program_project/milieu-interieur-labex>, to comply with the GDPR requirements.

**Research project**

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| **LABEX *Milieu Intérieur* Research Objectives**  ***🡺 Your research project must fit within the objectives of the Milieu Intérieur Collection. Please tick one or more boxes below*** |
| Analysis I will perform will contribute to answer to the **primary** outcome of the *Milieu Intérieur* Collection for identifying factors (either genetic, immunological or environmental) that contribute to the observed heterogeneity in immune responses at the individual and population level.  To characterize genetic variability  To characterize epigenetic variability  To characterize baseline or induced immune responses  To characterize commensal microbiota (nasal swab and stools samples)  To characterize plasma proteins or metabolites  To associate immune phenotype variance with genetic variants, demographic variables or microbiome profiles  To perform functional assays with fibroblast cell lines, derived iPSCs or EBV transformed cell lines  Analysis I will perform will contribute to answer to the **secondary** outcome of the *Milieu Intérieur* Collection:  To determine genotype-to-phenotype associations at a mechanistic level  To compare studies with independent disease cohorts  To compare studies with independent healthy cohorts |

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| **Brief overview of the research project**  **and the intended uses of data and /or samples** |
| 1. ***Project title*** 2. ***Describe research project (300 words)*** 3. ***Define complementarity to the MIC core research questions (300 words)***   ***For request of data, your summary should:***  *• indicate preferences for file format*  *• if relevant, detail adherence to French legal regulations and MIC policy, with clear strategy for ensuring data protection and donor confidentiality*  ***For request of samples, your summary should:***  *• specify if your request concerns the full cohort or a sub-part (and, in this case, precise the subcategories of donors and justification for the sample size)*  *• justify requested volume,*  *• disposition of samples after completion of study,*  *• location of sample storage during studies, including information about backup alarms,*  *• informatics support related to sample traceability (e.g., tubes with 2D barcodes)*  *• data access strategy for MIC after analysis is performed*  *• specify if you need the assistance of a sub-contractor for the analysis* |

1. **Samples and data request**

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| **Types of Data**  ***(check all boxes that apply to your request)*** | eCRF data (demography, health-related habits, etc.)  *See description in: Thomas et al., Clin Immunol 2015*  *Patin\*, Hasan\*, Bergstedt\* et al., Nat Immunol 2018*  Serological data  *See description in: Scepanovic et al., Genome Med 2018*  Cytometry data  format:  cell phenotypes  .fcs  mcqx  *See description in: Patin\*, Hasan\*, Bergstedt\* et al., Nat Immunol 2018*  Plasma proteins  format:  Luminex  NMR  *See description in Partula et al., Br J Nutr 2020*    TruCulture data – proteomics  Stimuli:  *See description in: Duffy et al., Immunity 2014; Urrutia et al., 2016*  TruCulture data – Immune gene expression (Nanostring)  Stimuli:  *See description in: Piasecka\*, Duffy\* et al., PNAS 2018; Urrutia\* Duffy\* et al., 2016*  Human SNP array data (Illumina arrays + imputation)  *See description in: Patin\*, Hasan\*, Bergstedt\* et al., Nat Immunol 2018*  Human methylation data (Illumina EPIC array)  16S data for fecal microbiota  *See description in: Scepanovic et al., Microbiome 2019*  *Partula et al., Br J Nutr 2020*  Shotgun data for fecal microbiota  *See description in: Byrd et al., J Exp Med 2021* |
| **Type of Samples†**  ***(check all boxes that apply to your request)*** | Plasma  DNA  TruCulture supernatants  TruCulture Trizol pellets  Cells  EBV *(203 lines available)*  PBMCs  Fibroblast *(322 donors)*  Nasal swabs  Stool samples  Stool extracted DNA |
| **Samples**  **Requested** | \_ \_ \_ Number of donors involved in your study  \_ \_ \_ Minimum volume per aliquot |

**4. Budget**

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| --- | --- |
| **Estimated budget for your proposed project** |  |
| **Source of budget for your proposed project** |  |
| **If applicable, please indicate Grant applications for which you are planning to apply** |  |
| **Do you request MIC to act as partner for your grant application?** | **yes  no** |

**APPROVAL**

**MIC Committee** (Date, Name and Signature):

**Project Applicant** (Date, Name and Signature):

***† Delays must be anticipated based on needs for traceability procedures, etc. Based on review, discussions will be initiated with MIC team***