Inserm Workshop 272
Microbiota - from exploration to therapeutic potential

REGISTRATION DEADLINE: February 10, 2023

ORGANIZERS: Benoit CHASSAING (Institut Cochin & Inserm U1016, FRA), Eric DUGAT-BONY (INRAE, FRA) and Nathalie ROLHION (Inserm U938, FRA)

AIMS: Provide an overview of the different techniques in place aiming to provide a fine mapping of the composition and function of various microbiota, regardless of the organ, model, or pathology studied.

PHASE I – CRITICAL ASSESSMENT
May 15-17, 2023 in Bordeaux

HUMAN MICROBIOTA - DESCRIPTION AND FUNCTION
Geneviève HERY-ARNAUD (University of Brest, FRA), Luisa DE SORDI (Sorbonne University, FRA), Jacques RAVEL (University of Maryland School of Medicine, USA) and Mathias LAVIE RICHARD (INRAE, FRA)

MICROBIOTA IN HEALTH AND DISEASES
Francois LEULIER (IGFL, FRA), Frédéric CARVALHO (Inserm U1107, FRA), Omry KOREN (Bar Ilan University, ISR), Laure BINDELS (UC Louvain, BEL), Emilie VIENNOIS (Inserm U1149, FRA) and Nathalie ROLHION (Inserm U938, FRA)

TOOLS FOR MICROBIOTA STUDY
Thomas CLAVEL (University Hospital RWTH Aachen, DEU), Lucie ETIENNE-MESMIN (University of Clermont Auvergne, FRA), Martin LARSEN (Sorbonne University, FRA), Florence CASTELLI (CEA, FRA), Vincent THOMAS (Bioaster, FRA), Mathieu ALMEIDA (INRAE, FRA) and Sébastien DESJEAN (University of Toulouse, FRA)

MODULATION OF THE MICROBIOTA IN HEALTH AND DISEASE
Bruno LAMAS (INRAE, FRA), Amandine EVERARD (UC Louvain, BEL), Mahesh DESAI (University of Luxembourg, LUX), Emilie COMBET (University of Glasgow, GBR) and Benoit CHASSAING (Institut Cochin & Inserm U1016, FRA)

PHASE II – TECHNICAL WORKSHOP
June 12-14, 2023 - Paris

Opportunity to practice different steps important for the analysis of various microbiota.

Practice 1 (1 day): samples collection, aliquoting and in vitro microbiota culture in research laboratory using anaerobic chambers and dynamic and long-term simulator of the gastro-intestinal tract with Benoit CHASSAING and Nathalie ROLHION.

Practice 2 (2 days): bioinformatics analysis of metabarcoding data (from Illumina-generated data to visualization (FROGS and QIIME2 tools)), data integration (integration of clinical / pre-clinical / sequencing, and other omics data to identify biomarkers and mechanisms) and statistical analysis (MixOmics Package) with Eric DUGAT-BONY, Benoit CHASSAING and Mahendra MARIADASSOU. This practice will use available data for a "hands-on" training.

SELECTION: 10 trainees will be selected among Phase I participants.

Information and registration
ateliers@inserm.fr

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