

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), Jacques RAVEL (University of Maryland School of Medicine, USA), Mathias RICHARD (INRAE, FRA) and Luisa DE SORDI (Sorbonne University, FRA)

MICROBIOTA IN HEALTH AND DISEASES

François LEULIER (IGFL, FRA), Nathalie ROLHION (Inserm U938, FRA), Frédéric CARVALHO (Inserm U1107, FRA), Omry KOREN (Bar Ilan University, ISR), Laure BINDELS (UC Louvain, BEL) and Emilie VIENNOIS (Inserm U1149, 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 (Lallemand Health Solutions, FRA), Mathieu ALMEIDA (INRAE, FRA) and Sébastien DESJEAN (University of Toulouse, FRA)

MODULATION OF THE MICROBIOTA IN HEALTH AND DISEASE

Benoit CHASSAING (Institut Cochin & Inserm U1016, FRA), Bruno LAMAS (INRAE, FRA), Amandine EVERARD (UC Louvain, BEL), Emilie COMBET (University of Glasgow, GBR) and Mahesh DESAI (Luxembourg Institute of Health, LUX)



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:
<https://ateliersinserm.dakini-pco.com>