

Microbiota

A Key Determinant In Health and Disease

© Benoit Chassaing

28-29 October 2024

Faculté Necker
Université Paris Cité



160 rue de Vaugirard
75015 Paris, France
Grand amphithéâtre

Métro Pasteur - Bus 70, 89

The final symposium of the Microbiota cross-cutting program of Inserm will bring to an end the program launched in 2017. It will revisit the main scientific breakthroughs of the scientific community structured by the program, and address the determinant role of microbiota in health and disease.

Introduction: Didier SAMUEL, CEO Inserm, France

Keynote Speakers: Yasmine BELKAID, Institut Pasteur, France
Eran SEGAL, Weizmann Institute, Israël

Invited Speakers:

Premysl BERCIK (McMaster University, Canada), Thomas CLAVEL (Aachen University, Germany), Maria Carmen COLLADO (National Research Council-Valencia, Spain), Mahesh DESAI (Luxembourg Institute of Health, Luxembourg), Sofia FORSLUND (Max Delbrück Center-Berlin, Germany), Andrew GEWIRTZ (Georgia State University, USA), Nicola SEGATA (University of Trento, Italy), Valentina TREMAROLI (University of Gothenburg, Sweden), Elena VERDU (Mc Master University, Canada)

Inserm Program Members and Organizing Committee:

Nicolas BARNICH, Ivo BONECA, Anne-Marie CASSARD, Nadine CERF-BENSUSSAN, Benoit CHASSAING, Mathias CHAMAILLARD, Sylvie CLAEYSEN, Karine CLÉMENT, Gérard EBERL, Serguei FETISsov, Valérie GABORIAU-ROUTHIAU, Nathalie GRIVEL, Évelyne JOUVIN-MARCHE, Antonin LAMAZIÈRE, Agnès LEHUEN, François LEULIER, Philippe LESNIK, Olivier MEILHAC, Michel NEUNLIST, Harry SOKOL, Nathalie VERGNOLLE, Hubert VIDAL

With the support of the theme-based institutes of Inserm: Immunology, Inflammation, Infectious Diseases, Microbiology (I3M) and Pathophysiology, Metabolism, Nutrition (PMN)

Inserm



[Link to register and submit poster abstract](#) – free registration before September 15, 2024

Program

28 October 2024

— 08:30 Opening —

09:00 – 09:15 Introduction by **Didier SAMUEL**, CEO Inserm, France

09:15 – 10:30 Session 1

09:15 – 10:00 Keynote lecture by **Yasmine BELKAID**

Paris, France – Bethesda, USA

Microbiota control of tissue immunity and repair

10:00 – 10:15 Renan CORREA

Paris, France

Modeling early interactions of commensal bacteria with the gut immune system: the case of segmented filamentous bacteria

10:15 – 10:30 Gérard EBERL

Paris, France

Microbiota and immune Imprinting

10:30 – 11:00 Break

11:00 – 12:35 Session 2

11:00 – 11:25 Elena VERDU

Hamilton, Canada

Mechanisms through which duodenal microbiome impacts chronic inflammation: the example of celiac disease

11:25 – 11:50 **Maria Carmen COLLADO**

Valencia, Spain

To be determined

11:50 – 12:05 Agnès LEHUEU

Paris, France

MAIT cells and microbiota in type I diabetes

12:05 – 12:20 Ivo BONECA

Paris, France

The role of peptidoglycan in host physiology: from homeostasis to disease

12:20 – 12:35 Marie-Paule GONTIER

Saint-Denis, La Réunion, France

Establishing the link between oral microbiota dysbiosis, inflammation and metabolic disorders during obesity

12:35 – 14:00 Lunch break and posters

14:00 – 15:35 Session 3

14:00 – 14:25 Nicola SEGATA

Trento, Italy

Meta-omics state of the art and perspectives

14:25 – 14:50 Andrew GEWIRTZ

Atlanta, USA

Microbiota and dietary fibers

14:50 – 15:05 Tiphaine LE ROY

Paris, France

Jejunal microbiota and metabolic diseases

15:05 – 15:20 Cyrielle CAUSSY

Lyon, France

NASH, bacterial metabolite signature

15:20 – 15:35 Dragos CIOCAN

Paris, France

Bile acid homeostasis and intestinal dysbiosis in alcoholic hepatitis

15:35 – 16:05 Break

16:05 – 17:30 Session 4

16:05 – 16:30 Premysl BERCIK

Hamilton, Canada

Microbiota, neuroenteric system and intestinal inflammation

16:30 – 16:45 Nathalie VERGNOLLE

Toulouse, France

Host epithelium-microbiota interactions as major regulators of visceral pain

16:45 – 17:00 Michel NEUNLIST

Nantes, France

Fecal microbiota from adults with autism spectrum disorder alters behavior and digestive functions in recipient mice

17:00 – 17:15 Sylvie CLAEYSEN

Montpellier, France

Microbiota and Alzheimer's disease

17:15 – 17:30 Serguei FETISSOV

Rouen, France

Proteomic identification in the Lactobacillus and functional validation of an oxytocin mimetic protein and its relevance to autism

17:30 – 19:30 Posters and discussion

Program

29 October 2024

— 08:30 Opening —

09:00 – 10:30 Session 5

09:00 – 09:25 Karine CLÉMENT

Paris, France

Nutrition, microbiome and cardiometabolic diseases

09:25 – 09:50 Benoit CHASSAING

Paris, France

Diet-microbiota interactions... A personnalized point of view

09:50 – 10:05 Hang NGUYEN

Clermont-Ferrand, France

Impact of environmental factors on host – E. coli interaction in chronic intestinal diseases: from better understanding to therapeutic targetsint of view

10:05 – 10:20 Jean-Paul MOTTA

Toulouse, France

Proteolytic tension at the host-gut biofilm interface: a role in emergence of pathobionts

10:20 – 10:30 Tribute to Nicolas BARNICH

10:30 – 11:00 Break

11:00 – 12:35 Session 6

11:00 – 11:25 Thomas CLAVEL

Aachen, Germany

We will soon know them all! Functional microbiome research using cultivation

11:25 – 11:50 Mahesh DESAI

Luxembourg, Luxembourg

Diet-assisted engineering of the gut microbiome: from mechanisms to translation

11:50 – 12:05 Nathalie ROLHION

Paris, France

In vitro tools for human gut microbiota culture and studies

12:05 – 12:20 Adeline SIVIGNON

Clermont-Ferrand, France

Cooperation between symbiotic bacteria and pathobionts in the intestinal mucosa?

12:20 – 12:35 Emmanuel LEMICHEZ

Paris, France

The CNF1 toxin from Escherichia coli pathobionts: role in gut colonization and colorectal cancer

12:35 – 14:00 Lunch break

14:00 – 15:35 Session 7

14:00 – 14:25 Sofia FORSLUND

Berlin, Germany

Measuring the medicated holobiont

14:25 – 14:50 Harry SOKOL

Paris, France

Therapeutic intervention on microbiota

14:50 – 15:05 François LEULIER

Lyon, France

Microbial influence on juvenile growth

15:05 – 15:20 Philippe LESNIK

Paris, France

Deciphering the role of microbiota in shaping the immuno-oncogenic potential of statins

15:20 – 15:35 Mathias CHAMAILLARD

Lille, France

Postprandial bacterial signatures linking fasting, epithelial barrier and glucose metabolism

15:35 – 16:05 Break

16:05 – 17:55 Session 8

16:05 – 16:30 Valentina TREMAROLI

Gothenburg, Sweden

Development of next-generation probiotics

16:30 – 16:45 Anne-Marie CASSARD

Paris, France

Probiotics protection against ALD and NAFLD

16:45 – 17:00 Hubert VIDAL

Lyon, France

Gut commensal Bacteroides faecichinchilleae is a novel candidate of next-generation probiotics targeting type 2 diabetes

17:00 – 17:45 Final keynote lecture by Eran SEGAL

Rehovot, Israël

Multomics & prediction risk of pathology in a general cohort

17:45 – 17:55 Conclusion by Emmanuelle MAGUIN and Évelyne JOUVIN-MARCHE

Paris, France

Moving to the National Program Food Systems, Microbiomes and Health

17:55 – 18:00 Posters prizes