

A scenic view of the Eiffel Tower in Paris, France, set against a clear blue sky. The tower is the central focus, with its intricate lattice structure clearly visible. In the foreground, there are lush green trees on the left and a body of water (the Seine) at the bottom. Several boats are docked along the riverbank, and a white boat is visible in the water. The overall atmosphere is bright and sunny.

International **S**ociety of **M**icrobiota

4th World Congress on

Targeting Microbiota

October 17-19, 2016
Institut Pasteur, Paris

Agenda

www.microbiota-site.com



4th World Congress on

Targeting Microbiota Towards Clinical Revolution

October 17-19, 2016 - Institut Pasteur - Paris, France

Day 1 – Monday, October 17 (at Auditorium CIS)

7h45 Welcoming & Registration of Attendees

8h55 Introduction by Targeting Microbiota 2016 Chairpersons: Strategy & Questions

Session 1: Microbiota 2016: Recent Advances & Perspectives (Part 1)

Chairpersons: Marvin Edeas, Iradj Sobhani, Howard Weiner

9h00 **Mammals shape their microbiome to prevent disease: recent scientific advances & perspectives**
Howard Weiner, Harvard Medical School, USA

9h25 **Anti cancer chemotherapy and microbiota changes in colorectal cancer**
Iradj Sobhani, Editor-in-Chief of the Journal of ISM, Hôpital Henri Mondor, France

9h50 **Moody microbes or fecal phrenology: what do we know about the microbiota-gut-brain axis?**
Paul Forsythe, McMaster University, Canada

10h15 **Age-related immune senescence and microbiota dysbiosis: lessons from the fly**
Henri Jasper, Buck Institute for Research on Aging, USA

10h40 *Coffee Break & Poster Session*

11h20 **The butyrate revival. Short chain fatty acids as key mediators of gut microbiota**
Hervé Blottière, Micalis Institut, France

11h45 **Impact of microbiota on odorant detection and olfactory preferences in mice**
Nicolas Meunier, Neurobiology of Olfaction (NBO), INRA / UVSQ, France

12h10 **Metagenomic analyses of microbial succession in the infant's gut**
Pilar Francino, Valencian Region Foundation for the Promotion of Health and Biomedical Research, Spain

12h35 *Lunch Break & Poster Session*

Chairpersons: Hervé Blottière, Paul Forsythe, Henri Jasper

14h00 **Transition from an infant- to adult-like gut microbiota – where do the bacteria come from?**
Ekaterina Avershina, Norwegian University of Life Sciences, Norway

14h25 **Maternal microbiota sets neonatal innate immune system development**
Mercedes Gomez de Agüero, University of Bern, Switzerland

14h50 **The gut microbiota mobilome in preterm infants with and without necrotizing enterocolitis**
Anuradha Ravi, Norwegian University of Life Sciences, Norway



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15h00 Infant gut mycobiota and fungal transfer from mother to child
Kasper Schei, Norwegian University of Science and Technology, Norway

15h10 Lung microbes and their effect on asthma
Muriel Thomas, INRA Jouy-en-Josas, France

15h35 Metabolites from gut microbiota of healthy long-living persons affect mitochondria
Miria Ricchetti, Institut Pasteur, France

15h45 *Coffee Break & Poster Session*

Chairpersons: Serguei Fetissov, Miria Ricchetti

16h30 Intercepting host microbial signalling for prevention of chronic pathogen establishment in respiratory disease microbiomes
Fergal O’Gara, National University of Ireland, Ireland

16h40 Changes in the lung microbiome in relation to anti-pseudomonal therapy in children with cystic fibrosis
Lenka Kramna, Charles University in Prague, Czech Republic

16h50 Response of gut bacteria to host starvation: understanding the risk factors to develop an eating disorder
Serguei Fetissov, Rouen University, France

17h15 Chronic psychosocial stress in children and gut health
Nathalie Michels, Ghent University, Belgium

17h25 The effects of different physicochemical factors on growth and survival of human gut lactic acid bacteria
Diana Soghomonyan, Yerevan State University, Armenia

17h35 Living environment modifies the mouse microbiota and alleviates allergic inflammation
Noora Ottman, University of Helsinki, Finland

17h45 Microbiota dysbiosis induced by defect of enteric antimicrobial activity triggers visceral hypersensitivity in young adult mice
Ambre Riba, INRA Toxalim Team 4, France

17h55 Intestinal atrophy following ileostomy is associated with dysbiosis
Emma Leigh Beamish, Lancaster University, United Kingdom

18h05 Endotoxin-producing gut opportunistic pathogens as causative agents for human obesity
Na Fei, Micalis Institute, France

18h15 The role of the colon microbiota in the Mexican children obesity
Selvasankar Murugesan, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Mexico

18h25 Colonic bacteria and methanogens specifically response to different types of dietary fibers through the alteration of community, fermentation mode and metabolic pathways in swine and mice model
Yuheng Luo, Sichuan Agricultural University, China

18h35 End of the first day



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Day 2 – Tuesday, October 18

(Morning at Auditorium CIS / Afternoon at Amphitheatre Duclaux)

8h55 Opening of the second day

Session 1: Microbiota 2016: Recent Advances & Perspectives (Part 2)

Chairpersons: Elena Comelli, Lorenzo Drago

9h00 **Systemic immunity against selected gut microbes protects from atherosclerosis and western-diet-related inflammation**
Filippo Canducci, San Raffaele Scientific Institute IRCCS, Italy

9h25 **Bacteriocin from epidemic Listeria strains alters the host intestinal microbiota to favor infection**
Juan-Jose Quereda, Institut Pasteur, France

9h50 **The antigen CAIP promotes inflammatory-dependent mechanisms responsible for atherosclerosis progression in Helicobacter cinaedi-infected patients**
Gaia Codolo, University of Padua, Italy

10h00 **The effects of intracolonic indole and hydrogen sulfide, gut-bacteria metabolites, on the circulatory system in rats**
Marcin Ufnal, Medical University of Warsaw, Poland

10h10 *Coffee Break & Poster Session*

Session 2: Microbiota & Skin: Recent Advances & Perspectives

11h10 **Changing of skin and gut microbiotas in ordinary life: cosmetics and bowel**
Lorenzo Drago, University of Milan, Italy

11h35 **Faecalibacterium prausnitzii dynamics in the human gut microbiome underlying atopic dermatitis**
Heenam Stanley Kim, Korea University, Republic of Korea

12h00 **Long lasting effect of skin microbiome modulation induced by probiotic solution application**
Bernhard Paetzold, University Clinic Magdeburg, Germany

12h10 *Lunch Break & Poster Session*

Session 3: Microbiota Analysis 2016: The challenge of interpretation

(at Amphitheatre Duclaux)

Chairpersons: Sean Kennedy, Knut Rudi

13h30 **Microbiota & bioinformatics: strategic targets**
Sean Kennedy, Institut Pasteur, France

13h55 **Bioinformatics, integrating clinical and microbiome data: the challenge**
Examples from gut, oral and nasal microbiota in Parkinson's disease
Velma Aho, University of Helsinki, Finland

14h20 **Tools and approaches to achieve strain resolution analyses of the microbiota**
The gut microbiota mobilome and the potential of pathogen transmission of antibiotic resistance
Knut Rudi, Norwegian University of Life Sciences, Norway

14h45 **Shotgun sequencing of total RNA as a novel method to define microbiota community structures**
Fabien Cottier, Agency for Science, Technology and Research, Singapore



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- 14h55 **Multi-omics analysis of microbial and microbiome samples**
Sandrine Miller, MoBio Laboratories, USA
- 15h05 **Where are the standards? Needs for universal microbiota analysis**
Francisco Codoner, LifeSequencing, Spain
- 15h15 **Insights into the composition of the vaginal microbial community in Korean woman**
Sooyeon Lim, Korean Research Institute of Bioscience and Biotechnology, Republic of Korea

15h25 *Coffee Break & Poster Session*

**Session 4: Challenges to control the diversity and variability of microbiota:
From the basic research to the clinical studies (Part 1)**

Chairpersons: Filippo Canducci, Alexander Sulakvelidze

- 16h25 **Bacteriophages for improving human health: from food additives to dietary supplements**
Alexander Sulakvelidze, Intralytix, USA
- 16h50 **Ethyl pyruvate: an anti-microbial agent that selectively targets pathobionts and biofilms**
Gerd Birkenmeier, University of Leipzig, Germany
- 17h15 **Microbiota & nonalcoholic fatty liver disease: recent advances and perspectives**
Gabriel Perlemuter, Hôpital Antoine-Béclère, France
- 17h40 **Curing/remission of multiple autoimmune diseases is possible by manipulation of the human gut microbiome: the effect of a lectin limited, polyphenol enriched, prebiotic/probiotic regimen in 78 patients**
Steven Gundry, The International Heart and Lung Institute, USA
- 17h50 **Probiotics supplementation modulates IFN- λ /II response and their relationships with CSF-miRNAs levels in treated HIV-1 positive patients with suppressed viremia**
Giuseppe Corano Scheri, Sapienza University of Roma, Italy
- 18h00 **Improvement of intestinal mucosa after probiotic supplementation in HIV-1 patients**
Ivan Schietroma, Sapienza University of Roma, Italy
- 18h10 **Chemotherapy impact on the gut microbiome of patient-derived tumor xenograft models**
Françoise Le Vacon, Biofortis Mérieux NutriSciences, France
- 18h20 **End of the second day**
- 20h00 **Tuesday dinner between speakers and attendees at Hotel Sofitel le Faubourg**
15, rue Boissy d'Anglas, 75008 Paris

To participate, please contact the registration desk.



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Day 3 – Wednesday, October 19 (at Auditorium CIS)

8h55 Opening of the third day

Session 4: Challenges to control the diversity and variability of microbiota: From the basic research to the clinical studies (Part 2)

Chairpersons: Gerd Birkenmeier, Peter Konturek

9h00 **Lactobacillus rhamnosus GG intake modifies preschool children's intestinal microbiota, alleviates penicillin-associated changes and reduces antibiotic use**
Katri Korpela, Helsinki University, Finland

9h25 **Gut microbiota bone axis: recent advances and perspectives**
Elena Comelli, University of Toronto, Canada

9h50 **Sex steroid deficiency-associated bone loss is microbiota dependent and prevented by probiotics**
Roberto Pacifici, Emory University School of Medicine, USA

10h15 **TSI - a low volume small intestine in vitro model with increased throughput**
Tomasz Cieplak, University of Copenhagen, Denmark

10h25 **Identification of blood microbiota alteration associated with liver fibrosis in obese patients**
Benjamin Lelouvier, Vaiomer, France

10h35 *Coffee Break & Poster Session*

Session 5: Microbiota Innovations 2016 The Fecal Microbiota Transplantation: Clinical & Practical Issues

11h45 **Emerging role of fecal microbiota therapy in the treatment of gastrointestinal diseases**
Peter C. Konturek, Thuringia-Clinic Saalfeld, Germany

12h30 *Lunch Break & Poster Session*

Chairpersons: Marvin Edeas, Peter Konturek, Miria Ricchetti

14h00 **Important human microbial ecological system modulator - FMT (fecal microorganism transplantation) or one of the best clinical applications of epigenetics in gastroenterology**
Diana Zandere, University of Riga, Latvia

14h30 **MyNewGut: insulin resistance - linking modulation of the gut microbiome to dietary recommendations and health claims to tackle obesity**
Stoffer Loman, NutriClaim, The Netherlands

14h40 **Target-specific modulation of complex gut microbiota using novel DNA-based nanoparticle therapeutics**
Nichola Wong, Institute of Food Research Procarta Biosystems, United Kingdom

14h50 **The prevalence of Fusobacterium nucleatum before and after periodontal treatment of periodontitis patients in Taiwanese**
Chingzong Wu, Taipei Medical University College of Oral Medicine, Taiwan

15h00 **Impact of Enterobius vermicularis infection and mebendazole treatment on intestinal microbiota and host immune response**
Chin-An Yang, China Medical University Hospital, Taiwan



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- 15h10 **Associating a specific gut microbiome with kidney stone disease**
Kelvin Paul Davies, Albert Einstein College of Medicine, USA
- 15h20 **Structuring genetic and taxonomic diversity in gut microbes of lizards affected by a quick dietary change**
Chloé Vigliotti, CNRS, France
- 15h30 **Zebrafish gut as a house for human intestinal bacteria**
Nerea Arias Jayo, Azti tecnalia, Spain
- 15h40 **Concluding remarks by Pr Peter Konturek**
- Targeting Microbiota 2016 Awards:**
- * Scientific Contribution Award 2016
 - * Young Scientific Contribution for Oral and Poster Contribution
- 16h15 **Time for Networking – One hour to discuss your collaborations, projects and next...**
- 17h15 **End of Targeting Microbiota 2016**

