



2nd World Congress on

Targeting Microbiota

October 16-17, 2014 – Institut Pasteur, Paris, France

Final Agenda

Day 1 - October 16, 2014

- 7h30 Welcoming & Registration of Attendees**
- 9h00 Welcome Introduction by Targeting Microbiota 2014 Chairpersons**
- 9h05 Opening of Targeting Microbiota World Congress on behalf of the President of Institut Pasteur, by Prof. Philippe Sansonetti, Institut Pasteur, France**
- 9h10 Aim and objective of Microbiota 2014. Why ISM ? Remarks and points of view**
Marvin Edeas, Targeting Mitochondria Task Force Group, France

Session 1: Microbiota 2014: State-of-the-Art & Visions

Chaired by Marvin Edeas & Miria Ricchetti

- 9h40 Evolution, cooperation & conflicts**
Pierre-Henri Gouyon, National Museum of Natural History, France
- 10h10 Impact of human microbiome research on public health**
Stanislas Dusko Ehrlich, INRA, Metagenopolis, France

10h40 Break & Posters Session

- 11h10 Interactions of segmented bacterium with the host immune system**
Nadine Cerf-Bensoussan, Institut Imagine, France
- 11h40 Microbiota and intestinal epithelium: decrypting signals in the crypt**
Philippe Sansonetti, Institut Pasteur, France

Session 2: Mitochondria-Microbiota Crosstalk: The Intriguing Relationship

Chaired by Fabrizia Stavru & Miria Ricchetti

- 12h10 Mitochondria-Microbiota: The intriguing relationship**
Marvin Edeas, Targeting Mitochondria Task Force Group, France
- 12h15 Redox signaling mediated by gut microbiota: a mechanism of host-symbiont crosstalk**
Andrew Scott Neish, Emory University School of Medicine, USA

12h45 Group Picture - Lunch Break & Posters Session

- 14h00 The Enteropathogen *Listeria monocytogenes* Alters host Cell Mitochondrial Dynamics**
Fabrizia Stavru, Institut Pasteur, France
- 14h30 Novel strategies of mitochondria targeting by gastric pathogen *Helicobacter pylori***
Laurent Chatre, Institut Pasteur, France

Session 3: Microbiota, Innovative Methods & Biomarkers

Chaired by Stanislas Dusko Ehrlich & Jörn Piel

- 14h40 Metaproteome Display: A novel approach for biomarker discovery in Inflammatory Bowel Disease**
Jonas Zantow, TU Braunschweig, Germany



Strain specific lactobacilli-mediated promotion of host juvenile growth: innovative technique brings new evidence from strains belonging to several lactobacilli species.

Mélanie Mitchell, IGFL, France

A fast and inexpensive flow cytometry-based approach to analyze the commensal microbiota

Jakob Zimmermann, DRFZ Berlin, Germany

Microbiota regulation of fungal infectivity

Melissa Palmieri, University of Perugia, Italy

Gut microbiota are related to parkinson's disease and clinical phenotype

Filip Scheperjans, Helsinki University Central Hospital, Finland

Microbiota as reservoir for antibiotic resistance

Dmitry Alexeev, RIPCМ, Russian Federation

Specific distortions in gut microbiota related to chronic inflammation in response to iron and reactive-oxygen species

Magdalena Strus, Jagiellonian University Medical College, Poland

15h30 Break & Posters Session

A single host-derived glycan arbitrates cooperation between host and microbe

Julia Schwartzman, University of Wisconsin, USA

Alignment-free analysis of metagenomic data with machine learning: an alternative approach for studying microbiota

Xuegong Zhang, Tsinghua University, China

Use of two NGS approaches for studying the evolution of skin microbiota after application of exogenous compounds

Cyrille Jarrin, Libragen, France

KLAST: A new high-performance sequence similarity search tool for metagenome analysis

Patrick Durand, Korilog, France

OMNigene•GUT: A novel fecal self-collection, stabilization and transport system for gut microbiome studies

Carlos Merino, DNA Genotek Inc., Canada

Metabiote®: Integrated solution for analyses of bacterial microbiota

Guillaume de Saint Martin, Genoscreen, France

Session 4: The Microbiota Role in Health & Diseases: The Mechanistic

Chaired by Nadine Cerf-Bensoussan & Rémy Burcelin

16h45 Targeted modulation of the gut microbiota-host interaction reveals novel mechanisms involved in host response during obesity

Patrice D. Cani, Louvain Drug Research Institute, Brussels, Belgium

17h15 A functional genomics approach to the understanding of gastro-intestinal colonization by the opportunistic fungal pathogen *Candida albicans*

Christophe d'Enfert, Institut Pasteur, Paris, France

17h45 Gut Microbiota Modulate Lung Immunity against Mycobacterial Infection

Chuan-Sheng Lin, Chang Gung University, Taiwan, Republic of China

17h55 Dysbiotic microbiota in liver cirrhosis relates to systemic inflammation

Valerio Iebba, University of Rome, Italy

18h05 Posters Session & Networking - 19h00 End of First Day

20h00 Dinner between Speakers & Attendees in a French typical Restaurant



Day 2 - October 17, 2014

**Session 5: New Challenges to Prevent & Treat:
Metabolic Diseases, Cancer, Neurodegenerative Diseases
Liver, Kidney, Lung, Skin Diseases & all Inflammation Related Diseases**

Chaired by Patrice Cani & Marvin Edeas (from 9:00 to 12:30)

Chaired by Sergueï Fetissov & Andrew Scott Neish (from 13:30 to 16:20)

9h00 Uncultivated bacterial symbionts: a rich resource for drug development
Jörn Piel, ETH Zürich, Switzerland

9h30 ROR γ t + cells & symbiotic microbiota: regulation of intestinal immunity
Gerard Eberl, Institut Pasteur, France

10h00 The new paradigm of tissue microbiota to intestinal immune defense in metabolic disease
Rémy Burcelin, INSERM, France

10h30 Break & Posters Session

11h00 Modulation of the anticancer immune effects of cyclophosphamide by the intestinal microbiota
Sophie Viaud, Institut Gustave Roussy, France

11h30 Commensal microbiota as a trigger of spontaneous autoimmune demyelination
Gurumoorthy Krishnamoorthy, Max Planck Institute of Neurobiology, Germany

12h00 NOD2-mediated dysbiosis predisposition to transmissible colitis & colorectal cancer
Mathias Chamaillard, Institut Pasteur, France

12h30 Group Picture - Lunch Break & Posters Session

13h30 The microbiome-to-host communication affecting pregnancy and fetal growth in early postnatal life
Sven Pettersson, Karolinska Institute, Solna, Sweden

14h00 Mind-altering microorganisms: the impact of the gut microbiota on brain and behaviour
Niall Hyland, University College Cork, Cork, Ireland

14h30 Gut microbiota modulated by Reg3 α protects against lethal inflammatory bowel disease in mouse model
Jamil Faivre, Hôpital Paul Brousse, France

Gut microbial profile in patients with chronic kidney disease on conservative treatment: is there relationship with inflammation and markers of cardiovascular risk?

Denise Mafra, Federal Fluminense University, Brazil

Inhibition of hepatic alcohol toxicity by correcting intestinal dysbiosis in mice

Gladys Ferrere, INSERM, France

Intestinal dysbiosis explains individual differences in the susceptibility to alcoholic liver disease

Gabriel Perlemuter, AP-HP, Antoine-Béclère University Hospital, France

Early gut colonization with toxin-producing *Staphylococcus aureus* may protect against the development of eczema

Forough L. Nowrouzian, Gothenburg University, Sweden

The microbiota of gallstone patients is enriched with *Oscillospira*, and further modified by cholecystectomy, without changes in fecal bile acids

Gophna Uri, Tel Aviv University, Israel

Molecular mimicry between proteins from gut bacteria and host peptide hormones at the origin of eating disorders

Sergueï Fetissov, Rouen University, France



D-Fagomine balances gut Bacteroidales and reduces weight gain in rats fed a high-fat high-sucrose diet
Sara Ramos-Romero, Institute for Advanced Chemistry of Catalonia, Spanish Research Council (CSIC), Spain

Non digestible oligosaccharides modulate the gut microbiota to control the development of leukemia and associated cachexia

Laure Bindels, Université Catholique de Louvain, Belgium

Polyphenols and a Lectin-Limited Diet Promote Weight Loss By Altering the Human Gut Microbiome

Steven Robert Gundry, The Center for Restorative Medicine, USA

15h35 Break & Posters Session

16h05 Effect of probiotics on gut microbiota and environmental toxins

Gregor Reid, Lawson Health Research Institute, Canada

The Microbiota of the Long Living Naked Mole Rat

Tewodros Debebe, University of Leipzig, Germany

Special Session on Fecal Microbiota Transplantation: Practical Issues & Regulation

Chaired by David Berry & Gurumoorthy Krishnamoorthy

16h20 Variation in bacterial community stability after fecal microbiota transplantation

David Berry, University of Vienna, Austria

16h50 Juristical Hurdles and Possibilities for Companies providing Faecal Transplant Services

Andreas Schwiertz, SymbioVaccin, Germany

Alterations of Fecal Microbiota and Metabolic Landscape in Response to Oral or Intravenous Iron Replacement Therapy in Patients with Inflammatory Bowel Diseases

Thomas Clavel, Technische Universität München, Germany

Transplantation of Genetically and Diet-induced Obese Gut Microbiota in Conventional Mice Blunts High-Fat Diet-induced Glucose Homeostasis Imbalance

Matteo Serino, INSERM UMR1048-I2MC, France

Fecal Microbiota Transplantation for Recurrent Clostridium Difficile Infection in a Child via a Percutaneous Gastrojejunostomy

Xavier Stephenne, Université Catholique de Louvain-Cliniques universitaires St Luc, Belgium

Fecal microbiota transplantation: A sui generis biological drug, not a tissue

Pierre Bourlioux, Université Paris Descartes, France

17h35 Discussion & Conclusion of Targeting Microbiota 2014

In the presence of Organizers & Speakers from scientific committee

Targeting Microbiota 2014 Awards:

- ✓ **Scientific Contribution Award 2014**
- ✓ **Young Scientific Contribution for Oral and Poster Contribution**

Concluding Remarks by Marvin Edeas & Miria Ricchetti

18h00 End of Targeting Microbiota 2014