

2nd World Congress on

Targeting Microbiota

Towards Clinical Revolution



Special Session

Fecal Microbiota Transplantation: Practical Issues and Regulation

October 16-17, 2014

Institut Pasteur - Paris, France

www.microbiota-site.com

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Targeting Microbiota
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Final Agenda

Day 1 - October 16, 2014

- 7h50 **Welcoming & Registration of Attendees**
- 9h00 **Welcome Introduction by Targeting Microbiota 2014 Chair Persons**
- 9h05 **Opening of Targeting Microbiota World Congress on behalf of the President of Institut Pasteur,**
by Prof. Philippe Sansonetti, Institut Pasteur, France

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

- 9h10 **Evolution, cooperation & conflicts**
Pierre-Henri Gouyon, National Museum of Natural History, France
- 9h40 **Impact of human microbiome research on public health**
Stanislas Dusko Ehrlich, INRA, Metagenopolis, France
- 10h10 **Interactions of segmented bacterium with the host immune system**
Nadine Cerf-Bensoussan, Institut Imagine, France

10h40 Break & Posters Session

- 11h10 **Microbiota and intestinal epithelium: decrypting signals in the crypt**
Philippe Sansonetti, Institut Pasteur, France

Session 2: Mitochondria-Microbiota Crosstalk: The Intriguing Relationship

- 11h40 **Mitochondria-microbiota: the intriguing relationship**
Marvin Edeas, Targeting Mitochondria Task Force Group, France
- 12h10 **Redox signaling mediated by gut microbiota: a mechanism of host-symbiont crosstalk**
Andrew Scott Neish, Emory University School of Medicine, USA

12h40 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: From Predictive to Personalized Medicine

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, RIPCM, 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

16h00 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

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**
- 20h30 Dinner between Speakers & Attendees in a French typical Restaurant**
If you are interested to take part to this dinner, please register online.

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**

- 9h00 Uncultivated bacterial symbionts: a rich resource for drug development**
Joern 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**
Gurumorthy Krishnamoorthy, Max Planck Institute of Neurobiology, Germany
- 12h00 NOD2-mediated dysbiosis predisposition to transmissible colitis & colorectal cancer**
Mathias Chamaillard, Institut Pasteur, France

12h30 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**
Jamila 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

Altered gut microbial energy and metabolism in children with non alcoholic fatty liver disease

Sonia Michail-Ramsy, USC and CHLA, USA

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

15h35 Break & Posters Session

16h05 Polyphenols and a lectin-limited diet promote weight loss by altering the human gut microbiome

Steven Robert Gundry, The Center for Restorative Medicine, USA

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**

The aim of this special session is to discuss the last advances, practical issues, limits of the intestinal microbiota and Fecal microbiota transplantation in various pathologies.

16h30 Variation in bacterial community stability after fecal microbiota transplantation

David Berry, University of Vienna, Austria

17h00 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

17h45 Discussion & Conclusion of Targeting Microbiota 2014

In presence of Targeting Microbiota organizers, speakers & scientific committee members

Targeting Microbiota 2014 Awards:

- ✓ [Scientific Contribution Award 2014](#)
- ✓ [Young Scientific Contribution for Oral and Poster Contribution](#)

Conclusion Remarks by Marvin Edeas & Miria Ricchetti

18h15 End of Targeting Microbiota 2014

**For all request concerning demonstrations,
exhibition and general information, please contact:**

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