

International Society of Microbiota



# Targeting Microbiota 2017

*Towards Clinical Revolution*

October 26 - 27, 2017 - Berlin, Germany



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5th World Congress on Targeting Microbiota



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5<sup>th</sup> World Congress on

## Targeting Microbiota

October 26-27, 2017 - Steigenberger Hotel Berlin, Germany

Dear Colleagues,

On behalf of the members of the scientific committee, we are pleased to inform you about the **strategies for our annual meeting: 5th World Congress on Targeting Microbiota**, which will be held in Berlin, Germany on October 26-27, 2017.

We took on consideration the conclusion of our past meeting which was held at Institut Pasteur, Paris last October 2016 and the valuable remarks and conclusion presented by Pr Peter Konturek. We decided to underline and target the following strategies:

- **Can we modulate the quality and diversity of human microbiota?**
- How to induce durable beneficial changes in gut microbiota? What is the importance for prevention and therapy of IBS, IBD, CRC and other GI and liver diseases?
- **Where is the red line of the gut microbiota manipulation?**
- What are the strategic mediators of gut microbiota?
- **How to understand better the role of bacterial metabolites?**
- What is the perfect microbiota "signature" and how to use it as a biomarker to "predict" and/or treat many diseases?
- **More studies on small intestine microbiota are needed: different composition and more dynamic variation compared with the colon**
- What is the impact of non-bacterial components on host health: viruses, protozoa, fungi?
- **Challenges of microbiota sequencing and analyzing: How to interpret the results and where is the golden standard?**
- Additional studies urgently needed from Asia, Africa and South America
- **Challenges of microbiota-host cross-talk understanding and intestinal microbiome signaling to extraintestinal organs**
  - *Exact role in the immune tolerance (allergic diseases)*
  - *Role of lung microbiota (asthma and other chronic diseases of the lung)*
  - *Role of microbiota brain gut axis in functional diseases of GI tract and psychiatric and neurologic diseases*
  - *Impact of gut microbiota on NASH, obesity and diabetes mellitus*
  - *Contribution of gut microbiota to the development of autoimmune diseases*
  - *Role of gut microbiota in the pathogenesis of skin diseases (gut-skin axis)*
  - *Role of gut microbiota in the pathogenesis osteoporosis (gut-bone axis)*
  - *Contribution of gut microbiota to neurodegenerative diseases (Alzheimer's disease, Parkinson's disease)*
- **Microbiota & medicine of tomorrow: Development of effective therapeutic strategies to manipulate the gut microbiota**
  - *Fecal Microbiota Transplantation (attributes of the optimal donor, optimal mode of delivery, designed microbiota-based capsule)*
  - *New pre- and probiotics (single vs consortium)*
  - *Bacterial metabolites: the pharmaceutical challenge*

We very much look forward to seeing you in Berlin for this exciting event.

**Prof. Lorenzo Drago**

President of the International Society of Microbiota  
University of Milan, Italy

**Prof. Marvin Edeas**

Chairman of ISM Scientific Committee  
University Paris Descartes, Cochin Institute, Paris, France



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## Targeting Microbiota

October 26-27, 2017 - Steigenberger Hotel Berlin, Germany

### Day 1 – Thursday, October 26

7h45 Welcoming & Registration of Attendees

8h55 Introduction by Targeting Microbiota 2017 Chairpersons

Lorenzo Drago, President of ISM - Marvin Edeas, Chairman of the Scientific Committee

#### Session 1: Microbiota 2017: Recent Advances & Perspectives

9h00 Role of microbiota in Graft-versus-Host Disease (GvHD) and complications of allogeneic stem cell transplantation

Daniela Weber, Regensburg Universitätsklinikum, Germany

9h25 Microbiota and autoimmune diseases: a shield or a sword?

Filippo Canducci, University of Insubria, Italy

9h50 Hemodynamic effects of hydrogen sulfide, indole and tmao - gut bacteria-derived molecules: the role of the gut-blood barrier

Marcin Ufnal, Medical University of Warsaw, Poland

10h15 Host genetics driving gut microbiota composition: experimental challenges

Andy Wullaert, University of Ghent, Belgium

10h40 Coffee Break & Poster Session

11h10 Lactobacilli modulate epithelial cytoprotection through the Nrf2 pathway

Rheinalt M. Jones, Emory University School of Medicine, USA

11h35 Indoles from commensal bacteria extend healthspan

Rheinalt M. Jones, Emory University School of Medicine, USA

11h45 The human infant gut microbiota mobilome

Knut Rudi, Norwegian University of Life Sciences, Norway

12h10 Role of nasal microbiota in respiratory recurrent infections (RRI)

Desiderio Passali, Honorary President Italian Society of Rhinology, Italy

12h25 Short Oral Presentations for Session 1

Don't forget to send your abstract before September 12.

Among short oral presentations already selected:

**Antibiotic-induced microbiota perturbation causes gut endocannabinoidome changes, hippocampal neuroglial reorganization and depression in mice.**

Francesca Guida, University of Campania, Naples, Italy

**The gut microbiota is a crucial regulator of local intestinal androgen metabolism in male mice**

Hannah Colldén, University of Gothenburg, Sweden

12h45 Lunch Break & Poster Session



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## Session 2: Challenges of microbiota sequencing and analyzing: How to interpret the results and where is the golden standard? New studies from Asia, Africa and South America

**14h00 Human gut microbiota: from structures to functions**  
Hervé Blottière, INRA, France

**14h25 Advances in fecal microbiota transplantation**  
Peter Konturek, Teaching Hospital of the University of Jena, Germany

**14h50 Culturomics: illuminating dark matter**  
Grégory Dubourg, Aix-Marseille Université, France

**15h15 Novel techniques in microbiota research: From meta-omics to single cells**  
Jakob Zimmermann, University of Bern, Switzerland

15h40 Coffee Break & Poster Session

**16h40 RNA-based stable isotope probing to link structure and function of prebiotics-assimilating intestinal microbiotas**  
Markus Egert, Furtwangen University, Germany

**17h05 Short Oral Presentations for Session 2**  
*Don't forget to send your abstract before September 12.*

**18h35 End of the first day**

**20h00 Dinner between speakers and attendees.**  
*To participate, please register online before October 12.  
The exact venue will be communicated soon.*



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## Day 2 – Friday, October 27

8h55 Opening of the second day

### Session 3: Challenges of microbiota-host cross-talk understanding and intestinal microbiome signaling to extraintestinal organs

9h00 **Microbiota & mitochondria intertalk in hemodialysis patients**  
Marvin Edeas, University Paris Descartes, Institut Cochin, France

9h25 **Microbiota, bacterial translocation and inflammation in chronic kidney disease**  
Didier Ducloux, CHU Besançon, France

9h50 **Intestinal microbiota and primary sclerosing cholangitis: is there any link?**  
Johannes Hov, University of Oslo, Norway

10h15 **The microbiota, epigenome and transcriptome of colonic inflammation in inflammatory bowel disease**  
Marcus Claesson, University College Cork, Ireland

10h40 *Coffee Break & Poster Session*

11h40 **Dysbiosis profiling and pediatric diseases: pattern correlations and bacterial dysfunctions**  
Lorenza Putignani, Bambino Gesù Children's Hospital and Research Institute, Italy

12h05 **The microbiota-gut-brain axis: modulation by probiotics and antibiotics**  
Paul Forsythe, Mc Master University, Canada

12h30 *Lunch Break & Poster Session*

13h45 **Skin microbioma approaches: atopic dermatitis versus Psoriasis**  
Lorenzo Drago, University of Milano, Italy

### Session 4: Microbiota & medicine of tomorrow: Development of effective therapeutic strategies to manipulate the gut microbiota

14h10 **Metabolic, epigenetic, and transgenerational effects of gut bacterial choline consumption**  
Federico Rey, University of Wisconsin-Madison, USA

14h35 **Probiotics and bone health: recent scientific advances and perspectives**  
Roberto Pacifici, Emory University School of Medicine, USA

15h00 **Unraveling the gut microbiome of the long-lived naked mole-rat**  
Gerd Birkenmeier, University of Leipzig, Germany

15h25 *Coffee Break & Poster Session*

15h45 **Probiotics as potential therapeutics in the management of metabolic syndrome**  
Ryo Aoki, Ezaki Glico Co., Japan

16h10 **Short Oral Presentations for Sessions 3 & 4**  
*Don't forget to send your abstract before September 12.*

17h30 **Concluding remarks**

**Targeting Microbiota 2017 Awards**

18h00 **End of Targeting Microbiota 2017**