

International Society of Microbiota

6th World Congress on Targeting Microbiota



# Targeting Microbiota 2018

*Towards Clinical Revolution*

## Preliminary Agenda



October 28 - 30, 2018 - Porto, Portugal

[www.microbiota-site.com](http://www.microbiota-site.com)



# International Society of Microbiota

## Congress Sessions:

- Microbiota 2018: recent advances & challenges
- Recent analysis, methods, bioinformatics & interpretations
- Strategic role of metabolites and mediators on the microbiota-host cross-talk
- Strategies to manipulate microbiota & medicine of tomorrow

## Call for Abstracts

**Wed.** Short Oral Submission  
Sept. 5, 2018

**Thur.** Poster Submission  
Sept. 27, 2018

**Register & Save before**

**Tue.** Early Bird Registration  
Oct 02, 2018

## Microbiota 2018 Speakers



Recent advances on gut microbiota and food intolerances

**Yurdagül Zopf**  
University of Erlangen-Nuremberg, Germany



Psycho neuro immunology and gut microbes

**Paul Forsythe**  
McMaster University, Canada



Targeted gut microbiota and short chain fatty acid profile among term and preterm infants

**Jan Mazela**  
Poznan University of Medical Sciences, Poland



Honor thy lodgers? Interactions between the built environment microbiome and the human microbiome

**Markus Egert**  
Furtwangen University, Germany



Phage therapy strategy to modulate the child stunting microbiota

**Mohammadali Khan Mirzaei**  
McGill University, Canada



Hyperglycemia drives intestinal barrier dysfunction and risk for enteric infection

**Sara Federici**  
Weizmann Institute of Science, Israel



Exploring the role of gut dysbiosis in neuroinflammation and hypertension

**David Durgan**  
Baylor College of Medicine, USA



Impact of antibiotic treatment on the human microbiota - a review of the clinical implications

**Maria Vehreschild**  
University Hospital of Cologne, Germany



Role of microbes in stem cells transplantation related complication

**Ernst Holler**  
University Hospital Regensburg, Germany



MAIT cells (Mucosal-Associated Invariant T cells) in liver disease and antibacterial response

**Antonio Riva**  
Institute of Hepatology London, United Kingdom



The effect of gut bacterial metabolites on cardiovascular risk

**Marcin Ufnal**  
Medical University of Warsaw, Poland



Crosstalk between gut microbiota, innate immune cells and endocrine cells in the pancreas regulates autoimmune diabetes

**Julien Diana**  
Inserm, France



# International Society of Microbiota

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Dear Colleagues,

On behalf of the International Society of Microbiota, we are pleased to inform you that the **6th World Congress on Targeting Microbiota** will be organized at **Porto, Portugal, on October 28-30, 2018**.

During both days, many oral and poster communications will be presented and will cover many hot topics:

- Microbiota 2018: Recent Advances & Perspectives
- Challenges of microbiota sequencing and analyzing: How to manage the Big Data of sequencing?
- Challenges of microbiota-host cross-talk understanding and intestinal microbiome signaling to extraintestinal organs
- Microbiota & medicine of tomorrow: Development of effective therapeutic strategies to manipulate the gut microbiota

During Targeting Microbiota 2018, we will try to answer many question, among them:

- Can we modulate the quality and diversity of human microbiota?
- How to induce durable beneficial changes in gut microbiota?
- 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?
- What is the influence of gut microbiota on the development and progression of chronic diseases?

I do believe that this would be the best future strategy for the 6th World Congress of Targeting Microbiota in 2018: **a strong communication between basic, pre-clinical scientists and clinicians.**

## **Microbiota & Medicine of Tomorrow: The Revolution**

The scientific committee of ISM and in particular Prof. Marvin Edeas (Institut Cochin, Université Paris Descartes, France), founder of the International Society of Microbiota (ISM) wish to highlight: *"...there is a deep transformation in our current medicine where big data and Artificial Intelligence will play a strategic role in the medicine of tomorrow. How all big data generated by microbiota sequencing can be used? Can we talk about Artificial Intelligence and microbiota medicine? We wish to open the door for this kind of discussion..."*

So, I hope to meet you at the next meeting in order to capture moments of relationship and scientific inspirations by the many and best scientists we have in the world studying the various aspects of the microbiota.

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



**Prof. Peter C. Konturek** - President of ISM  
Teaching Hospital of the University of Jena, Germany  
President of the International Society of Microbiota



# International Society of Microbiota

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

## Targeting Microbiota

October 28-30, 2018 - Hotel Crowne Plaza, Porto, Portugal

### Scientific Preliminary Agenda

#### Day 1 – Sunday, October 28

17h00 – 18h00 Registration – Badges & Material Providing

#### Day 2 – Monday, October 29

7h45 Welcoming & registration of attendees

8h55 Introduction note by President of ISM Targeting Microbiota 2018  
Peter Konturek, Teaching Hospital of the University of Jena, Germany

#### Session 1: Microbiota 2018: Recent Advances & Challenges

9h00 – 15h40

**Honor the lodgers? – Interaction between the built environment microbiome and the human microbiome (Skin & Gut)**  
Markus Egert, Furtwangen University, Germany

**Impact of Antibiotics and microbiota: recent scientific advances and perspectives**  
Maria Vehreschild, University Hospital of Cologne, Germany

**Hyperglycemia drives intestinal barrier dysfunction and risk for enteric infection**  
Sara Federici, Weizmann Institute of Science, Israel

**Recent advances on gut microbiota and food intolerances**  
Yurdagül Zopf, University of Erlangen-Nuremberg, Germany

**Exploring the role of gut dysbiosis in neuroinflammation and hypertension**  
David Durgan, Baylor College of Medicine, USA

10h40 Coffee Break & Poster Session

**Role of microbes in stem cells transplantation related complication**  
Ernst Holler, University Hospital Regensburg, Germany

12h45 Lunch Break, Network & Poster Session

Short oral presentations for sessions 1 (7 minutes presentation + 3 minutes questions)

15h40 Coffee Break, Network & Poster Session

#### Session 2: Microbiota recent analysis and methods, bioinformatics & interpretations

16h25 – 18h30

18H00 End of the day

20h30 Targeting Microbiota Dinner



# International Society of Microbiota

Day 3 – Tuesday, October 30

8h55 Opening of the second day

**Session 3: Strategic role of metabolites and mediators on the microbiota-host cross-talk**

9h00 – 12h45

**Crosstalk between gut microbiota, innate immune cells and endocrine cells in the pancreas regulates autoimmune diabetes**

Julien Diana, Institut National de la Santé et de la Recherche Médicale (INSERM), France

**MAIT cells (Mucosal-Associated Invariant T cells) in liver disease and antibacterial response**

Antonio Riva, Institute of Hepatology London, Foundation for Liver Research, United Kingdom

**The effect of gut bacterial metabolites on cardiovascular risk**

Marcin Ufnal, Medical University of Warsaw, Poland

**Psycho neuro immunology and gut microbes**

Paul Forsythe, McMaster University, Canada

**Targeted gut Microbiota and short chain fatty acid profile among term and preterm infants**

Jan Mazela, Poznan University of Medical Sciences, Poland

**Current and new approaches for measuring gut-blood barrier permeability**

Kinga Jaworska, Medical University of Warsaw, Poland

10h40 *Coffee Break, Network & Poster Session*

**Short oral presentations** (7 minutes presentation + 3 minutes questions)

12h45 *Lunch Break, Network & Poster Session*

**Session 4: Strategies to manipulate microbiota & medicine of tomorrow**

*This session is focused on effective therapeutic strategies to manipulate gut microbiota including phage therapy, pre- & probiotics treatments, and fecal microbiota transplant (FMT)*

14h00 – 17h15

**Fecal Microbiota Transplant 2018: What's next?**

Prof. Peter Konturek, Teaching Hospital of the University of Jena, Germany

**Phage therapy strategy to modulate the child stunting microbiota**

Mohammadali Khan Mirzaei, McGill University, Canada

15h40 *Coffee Break & Poster Session*

**Short oral presentations** (7 minutes presentation + 3 minutes questions)

**Altered gut microbiota and endocannabinoid system tone in vitamin D deficiency-mediated chronic pain**

Francesca Guida, Università degli Studi della Campania "Luigi Vanvitelli", Italy

**General discussion & Concluding remarks:**

**Targeting Microbiota 2018 Awards**

18h00 End of Targeting Microbiota 2018