

International Society of Microbiota

7th World Congress on Targeting Microbiota



# SCIENTIFIC AGENDA

## Targeting Microbiota 2019

*Towards Clinical Revolution*

October 10 - 11, 2019

Park Inn Hotel - Krakow, Poland



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

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On behalf of the International Society of Microbiota, we are pleased to inform you that the 7th World Congress on Targeting Microbiota will be organized in Park Inn Hotel - Krakow, Poland, on October 10 - 11, 2019.

During those days, a lot of oral and poster presentations will be introduced and will cover many hot topics:

- *Microbiota 2019 : Recent Advances & Perspectives*
- *Microbiota Metabolites and Metabolome: Challenges & Perspectives*
- *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*
- *New Session dedicated to Built Environment Microbiome*
- *Special Workshop dedicated to Skin microbiota 2019: From basics to applied cosmetics and skin care*
  - *The first part - Skin Microbiota: Recent advances and perspectives*
  - *The second part - Strategies to modulate and affect skin microbiota in health and diseases*

I do believe that this would be the best future strategy for the 7th World Congress of Targeting Microbiota in 2019: strong communication between basic, pre-clinical scientists and clinicians.

Microbiota & Medicine of Tomorrow: The Revolution

The Microbiota and microbiome are transforming deeply our understanding of Medicine of tomorrow. It is really a revolution which allows us to rethink and redesign our strategies about the way we will prevent and treat many diseases and pathologies.

**Among the strategic questions which will be debated:**

- How can all big data generated by microbiota sequencing or the metabolome be used?
- Can we speak about Artificial Intelligence and microbiota medicine?
- What is the credibility of tests, devices probiotics the market?

I hope to meet you at the next meeting to capture moments of conviviality and scientific inspirations and to study the various aspects of the microbiota with the best scientists we have in the world.

Krakow is a unique place for visitors and offers the most convenient and pleasant settings for international congresses, and has the oldest and largest academic centers in Poland. The city is famous for its historical old town (UNESCO World Heritage Site) along with the Wawel castle and the city's Kazimierz district. Krakow can be easily reached by plane, train or car.

Looking forward to seeing you soon,

Our warmest regards.



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



### Congress Sessions:

- Microbiota 2019: Recent Advances & Challenges
- Microbiota Metabolites and Metabolome: Challenges & Perspectives
- Workshop: Skin microbiota 2019: From basics to applied cosmetics and skin care
- Session on Built Environment Microbiome
- Microbiota & medicine of tomorrow: Development of effective therapeutic strategies to manipulate the gut microbiota
- Round Table Discussion: The Scientific Committee will discuss two topics:
  - The future of Microbiota Medicine
  - The future of Microbiota Investments

### Microbiota 2019 Key dates

- Tue.** Early Registration  
Sep. 17, 2019
- Wed.** Short Oral Submission  
Sep. 23, 2019
- Sat.** Poster Submission  
Sep. 28, 2019

### Microbiota 2019 Speakers



Introduction note by the President of ISM Targeting Microbiota 2019

**Peter C. Konturek**  
Teaching Hospital of the University of Jena, Germany



International Space Station and Hospital Environments: Composition and function of microbiomes in confined built environments

**Christine Moissl-Eichinger**,  
Medical University Graz, Austria



Microbiota and cancer : Between Detection and Prognosis

**Romain Villegier**  
University of Clermont Auvergne, France



microRNA in host-microbiome interaction and probiotics

**Elena M Comelli**,  
University of Toronto, Canada



Skin microbiota 2019: From basics to applied cosmetics and skin care

**Florence Abdallah**,  
University Paris-Sud - Inserm, France



Intestinal barrier, gut microbiota and psoriasis

**Mariusz Sikora**,  
Medical University of Warsaw, Poland



Risk for Diabetes and Cardiovascular diseases in the Qatari population: Can the salivary microbiome predict it?

**Souhaila Al Khodor**,  
Sidra Medicine, Qatar



Gut microbiota and graft-versus-host disease in patients after bone marrow transplantation: FMT as a prevention or treatment?

**Jaroslaw Bilinski**,  
Medical University of Warsaw, Poland



Fecal Preservation by Freeze-Drying: Applications and Perspectives

**Julie Reygnier**,  
Université Paris Descartes, France



Metabolic and Metagenomic Consequences of *E. coli* Infections

**Matteo Serino**,  
Inserm and Digestive Health Research Institute, France



Skin-Bacterial Microbiota Communication: Key Role in Cutaneous Homeostasis

**Marc G.J. Feuilletoy**,  
University of Rouen Normandy, France



Microbiota Medicine of tomorrow: How do microbiota and metabolites will affect our classical thinking and make us rethink and redesign our strategies

**Marvin Edeas**,  
Université Paris Descartes, INSERM 1016, France



Special session on Built Environment Microbiome

**Markus Egert**,  
Furtwangen University, Germany



Gut bacterial metabolites as markers and mediators of cardiovascular aging

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



Dialogue between the skin and the microbiota: The immune system is under control

**Chantal Pichon**,  
French National Centre for Scientific Research, France



Brain-Gut-Microbiota Axis in Alzheimer's Disease

**Agata Mulak**,  
Wroclaw Medical University, Poland



Modulating the microbiota of the hospital environment by probiotic cleaning: impact on infections and antimicrobial resistance

**Elisabetta Caselli**,  
University of Ferrara, Italy



Hyaluronan, a new neuroimmune modulator of the microbiota-immune-gut-axis

**Cristina Giaroni**,  
University of Insubria, Italy



Carcinogenic microbiota of oral cavity

**Tomasz M. Karpiński**  
Poznań University of Medical Sciences, Poland



Intergenerational Transfer of the Atopic-Disease Potential from the Murine Maternal Gut Microbiota Grafted with Human Faecalibacterium Prausnitzii Pathobionts

**Heenam Stanley Kim**, Korea University, Korea



Microbiota Dysbiosis is Associated with HPV-Induced Cervical Carcinogenesis

**Wojciech Kwasniewski**,  
Medical University of Lublin, Poland



Psychotropic Drugs and Microbiota - Important and Little Known Interaction

**Igor Loniewski**  
Pomeranian Medical University, Poland

# 7<sup>th</sup> World Congress on Targeting Microbiota

October 10-11, 2019 - Park Inn Hotel, Krakow, Poland

## Scientific Agenda

**Reminder Key Dates: Submit your abstract for:**

Oral Presentation before **September 23, 2019**

Poster Presentation before **September 28, 2019**

### Day 1 – Wednesday, October 9, 2019

17h00 – 18h30 Registration – Badges & Material delivery at the Hotel.

### Day 2 – Thursday, October 10, 2019

7h45 Welcoming & Registration of attendees

8h50 Introduction note by the President of ISM Targeting Microbiota 2019, Prof. Peter Konturek

#### Session 1: Microbiota 2019: Recent Advances & Challenges

*Chairs: Marvin Edeas, Peter Konturek*

9h00 **Role of Intestinal Microbiota in Intestinal Inflammation with Respect to Stress**  
*Peter Konturek, Teaching Hospital of the University of Jena, Germany*

9h20 **Metabolic and Metagenomic Consequences of *E. coli* Infections**  
*Matteo Serino, Inserm and Digestive Health Research Institute, France*

9h40 **Brain-Gut-Microbiota Axis in Alzheimer's Disease**  
*Agata Mulak, Wroclaw Medical University, Poland*

10h00 **Risk for Diabetes and Cardiovascular Diseases in the Qatari population: Can the salivary microbiome predict it?**  
*Souhaila Al Khodor, Sidra Medicine, Qatar*

10h20 **Diet Type, Antibiotic Intake and Gut Microbiota: A Lesson from a Large Cross-Sectional Study**  
*Tewodros Debebe, BIOMES NGS GmbH, Germany*

10h30 *Coffee Break, Network & Poster Session*

11h15 **Biomedical Approach in Autism Spectrum Disorders – The Importance of Assessing Inflammation**  
*Tatjana Mijatovic, R.E.D. Laboratories, Belgium*

11h25 **MicroRNA in Host-Microbiome Interaction and Probiotics**  
*Elena M Comelli, University of Toronto, Canada*

11h45 **Microbiota and cancer : between Detection and Prognosis**  
*Romain Villegier, University of Clermont Auvergne, France*

12h05 **Microbiota Dysbiosis is Associated with HPV-Induced Cervical Carcinogenesis**  
*Wojciech Kwasniewski, Medical University of Lublin, Poland*

12h30 *Lunch Break, Network & Poster Session*

- 14h00 **The Impact of Lactobacillus, Bifidobacterium, E.Coli and Lactoferrin on the Phenomenon of Translocation in the Low-Birth-Weight Preterm Neonates**  
*Magdalena Strus, Jagiellonian University Medical College, Poland*
- 14h20 **Short oral presentations**
- Setting Standards in Microbiome and Multi-Omics Research to Power Novel Discovery**  
*Heloise Breton, DNA GENOTEK, Canada*
- Reproducibility of Statistical Methods in Comparative Metagenomics**  
*Vera Odintsova, Knomics LLC, Russia*
- Immediate Elevation of Gaba in Rat Brain after Feeding with Lactobacillus Rhamnosus JB-1**  
**The Gut-Brain Axis Study of Animal Model of Depressive Disorder**  
*Anna Orzylowska, Medical University of Lublin, Poland*
- The Aged Microbiota in Alzheimer's Disease – An Investigation in Model Mice**  
*Kristina Endres, University Medical Center JGU Mainz, Germany*
- Strict Anaerobic Bacteria Involvement in Gut-Brain Axis: A Novel Regulator of Pain and Well-Being**  
*Sandie Gervason, Clermont-Auvergne University, France*
- Impact of Chronic Social Stress in Gut-Brain-Axis in Female C57BL/6 Mice**  
*Malena dos Santos Guilherme, University Medical Center Mainz, Germany*
- Altered Abundance of Indicator Species of Intestinal Microbiota of Patients with Recurrent Rhinosinusitis**  
*Michał Michałik, MML Medical Center, Poland*
- 15h30 *Coffee Break, Network & Poster Session*
- Session 2: Microbiota Metabolites and Metabolome: Challenges & Perspectives**
- Chair: Marcin Ufnal*
- 16h10 **Introduction: Gut Bacterial Metabolites as Markers and Mediators of Cardiovascular Aging**  
*Marcin Ufnal, Medical University of Warsaw, Poland*
- 16h30 **Microbiota and Metabolomics: Effects of Bariatrics Surgery**  
*Paulina Samczuk, Medical University of Białystok, Poland*
- 16h50 **Short oral presentations** (7 minutes for presentation + 3 min for questions)
- Gut Mycobiota and Fungal Metabolites in Human Homeostasis**  
*Izabella Maria Mogilnicka, Medical University of Warsaw, Poland*
- Short Orals presentations related to Session 1 and 2**
- 17h15 **Concluding remarks**  
*Marvin Edeas, Université Paris Descartes, INSERM 1016, France*
- How do microbiota and metabolites, will affect our classical thinking and make us rethink and redesign our strategies concerning the medicine of tomorrow?**
- 18h15 **End of the day**
- 20h00 **Targeting Microbiota Dinner**

## Day 3 – Friday, October 11, 2019

8h25 Opening of the second day



### Session 3 - Skin microbiota 2019: From basics to applied cosmetics and skin care

Chair: Chantal Pichon

8h30 General Introduction of the session

**Skin-Bacterial Microbiota Communication: A New Element in Cutaneous Neurogenic Inflammation**

**Marc G.J. Feuilloley**, University of Rouen Normandy, France

8h50 **Dialogue between the Skin and the Microbiota: The Immune System is Under Control**

**Chantal Pichon**, French National Centre for Scientific Research, France

9h10 **Intergenerational Transfer of the Atopic-Disease Potential from the Murine Maternal Gut Microbiota Grafted with Human Faecalibacterium Prausnitzii Pathobionts**

**Heenam Stanley Kim**, Korea University, Korea

09h30 **Intestinal Barrier, Gut Microbiota and Psoriasis**

**Mariusz Sikora**, Medical University of Warsaw, Poland

9h50 Coffee Break, Network & Poster Session

#### Practical Workshop

10h30 **Skin Microbiota and Formulation: Recent Advances and Perspectives Strategies to Modulate and Affect Skin Microbiota in Health and Diseases?**

**Florence Abdallah**, University Paris-Sud, France

### Session 4: Session on Built Environment Microbiome

Chair: Markus Egert

11h30 **General Introduction of the session Special Session on Built Environment Microbiome**

**Markus Egert**, Furtwangen University, Germany

12h00 **International Space Station and Hospital Environments: Composition and Function of Microbiomes in Confined Built Environments**

**Christine Moissl-Eichinger**, Medical University Graz, Austria

12h25 **Modulating the Microbiota of the Hospital Environment by Probiotic Cleaning: Impact on Infections and Antimicrobial Resistance**

**Elisabetta Caselli**, University of Ferrara, Italy

12h45 Lunch Break, Network & Poster Session

### Session 5: Microbiota & medicine of tomorrow: Development of effective therapeutic strategies to manipulate the gut microbiota

Chairs: **Elena M Comelli, Carole Nicco**

14h00 **Carcinogenic Microbiota of Oral Cavity**

**Tomasz M. Karpiński**, Poznań University of Medical Sciences, Poland

14h20 **Gut Microbiota and Graft-versus-host Disease in Patients after Bone Marrow Transplantation: FMT as a prevention or treatment?**

**Jaroslav Bilinski**, Medical University of Warsaw, Poland

14h40 **Fecal Preservation by Freeze-Drying: Applications and Perspectives**

**Julie Reygner**, Université Paris Descartes, France



- 15h00 **Hyaluronan, A New Neuroimmune Modulator of the Microbiota-Immune-Gut-Axis**  
*Cristina Giaroni, University of Insubria, Italy*
- 15h20 **Psychotropic Drugs and Microbiota - Important and little-Known Interaction**  
*Igor Loniewski, Pomeranian Medical University, Poland*
- 15h40 Coffee Break, Network & Poster Session
- 16:10 **Short oral presentation: Submit your innovations**
- Morphology of Blood Microbiota Accessed by Light and Electron Microscopy**  
*Stefan Panaiotov, National Center of Infectious and Parasitic Diseases, Bulgaria*
- Comparison of Fecal Microbiota and Selected Parameters Between Healthy and Postpartum Dysgalactia Syndrome in Sows**  
*Yeong-Hsiang Cheng, National I-Lan University, Taiwan*
- Fermented Milk by *Lactobacillus Delbrueckii* Cidca133, Carrying the Vaccinal Plasmid Pexu:Hps65 Ammeliorates Intestinal Mucositis in Murine Model**  
*Mariana Martins Drumond, Federal Center for Technological Education of Minas Gerais, Brazil*
- Targeting Faecalibacterium Prausnitzii with Prebiotic Xylo-Oligosaccharides Prevents from Non-Alcoholic Fatty Liver Disease (NAFLD)**  
*Satu Pekkala, University of Jyväskylä, Finland*
- Importance of Intestinal Microbiota Indicators for Clinical Purposes of Using Targeted Microbiological Therapy**  
*Anna Maria Basińska, Institute of Microecology, Poland*
- Early Introduction of Solid Foods: Ingestion Level Matters more than Prebiotics Supplementation for Shaping the Gut Microbiota**  
*Charlotte Paes, INRA, France*
- Short oral presentation: Submit your innovations**
- 17:00 Round Table Discussion: The Scientific Committee will discuss two topics:
- 1) The future of Microbiota Medicine
  - 2) The future of Microbiota Investments
- With the intervention of Dr. Peter Bak, Back Bay Life Science Advisors, USA, who will provide his vision and recommendations:*  
**Corporate Development in the Microbe Space: Has Investment Outpaced Science?**
- 17h30 **Concluding remarks**  
**Targeting Microbiota 2019 Scientific & Innovation Awards**
- 17h45 **End of Targeting Microbiota 2019**

## SUBMIT YOUR QUESTIONS

Before September 23, 2019 and WIN...

Despite the wealth of data typically presented, many questions of the participants remain unanswered, and for many scientists, even those who have been considered as keynote speakers, there is only limited opportunity to interact with colleagues.

To facilitate the scientific discussion and make the conference more interactive, the scientific committee has decided to include a round table discussions that address hot topics, challenges and pressing questions to various areas of Microbiota medicine and research.

All questions will be answered and the most pertinent and critical questions will be awarded with the free registration at the Next Microbiota 2020.

All participants are invited to participate in these discussions by sending their questions and thoughts before the meeting by the **September 23, 2019** to [microbiota@microbiota-site.com](mailto:microbiota@microbiota-site.com)