

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



www.microbiota-site.com

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

7th World Congress on Targeting Microbiota

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

Scientific Agenda

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 **Carcinogenic Microbiota of Oral Cavity**
Tomasz M. Karpiński, Poznań University of Medical Sciences, Poland

14h40 Short oral presentations

Gut Microbiome Shifts during Pregnancy can Predict Gestational Diabetes Onset

Annalisa Terranegra, Sidra Medicine, Qatar

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

Strict Anaerobic Bacteria Involvement in Gut-Brain Axis: A Novel Regulator of Pain and Well-Being

Sandie Gervason, Clermont-Auvergne University, France

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

Impact of Chronic Social Stress in Gut-Brain-Axis in Female C57BL/6 Mice

Malena Dos Santos Guilherme, University Medical Center Mainz, Germany

The Aged Microbiota in Alzheimer's Disease – An Investigation in Model Mice

Kristina Endres, University Medical Center JGU Mainz, Germany

15h50 Coffee Break, Network & Poster Session

Session 2: Microbiota Metabolites and Metabolome: Challenges & Perspectives

Chairpersons: Annalisa Terranegra, Marcin Ufnal

16h20 **Introduction: Gut Bacterial Metabolites as Markers and Mediators of Cardiovascular Aging**

Marcin Ufnal, Medical University of Warsaw, Poland

16h40 **Application of targeted metabolomics to tackle host-microbiome interactions**

Nicolas Schauer, Biocrates, Austria

17h00 **Microbiota and Metabolomics: Effects of Bariatrics Surgery**

Paulina Samczuk, Medical University of Białystok, Poland

17h20 **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

Targeting Microbiota with Long Read Nanopore Sequencing

Michał Kaszuba, genXone SA, Poland

Pre- and Postmenopausal Women Have Different Core Urinary Microbiota

Annemarie Brusen Villadsen, North Denmark Regional Hospital, Hjørring Aalborg University, Denmark

Identification of Potential Microbiome Markers for an Early Diagnosis of AGVHD

Dhinoth Kumar Bangarusamy, SIDRA Medicine, Qatar

Modulation of MAPK And NFkB Pathways by Human Gut Microbiota Metabolites- Urolithins and Their Phase II Metabolites.

Jakub P. Piwowarski, Medical University of Warsaw, Poland

The Microbial Composition of Appendix in Complicated versus Uncomplicated Acute Appendicitis Patients

Eveliina Munukka, Microbiome Biobank, Faculty of medicine, University of Turku, Finland

Altered Abundance of Indicator Species of Intestinal Microbiota of Patients with Recurrent Rhinosinusitis

Michał Michalik, MML Medical Center, Poland

Mucosally-Induced Effects of Lactococcus Lactis Bacteria Expressing Myelin Epitopes in Animal Multiple Sclerosis Model

Agnieszka Szczepankowska, Institute Of Biochemistry And Biophysics, Pas, Poland

Heat Stress-Induced Increase in Inflammatory Cytokines and Gut Microbiota Changes in Pigs

Yadnyavalkya Dattatraya Patil, Lincoln University, New Zealand

18h50 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. Feuilloy, 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

11h20 General Introduction of the session

Special Session on Built Environment Microbiome

Markus Egert, Furtwangen University, Germany

11h40 **International Space Station and Hospital Environments: Composition and Function of Microbiomes in Confined Built Environments**

Christine Moissl-Eichinger, Medical University Graz, Austria

12h00 **Modulating the Microbiota of the Hospital Environment by Probiotic Cleaning: Impact on Infections and Antimicrobial Resistance**

Elisabetta Caselli, University of Ferrara, Italy

12h20 *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

13h30 **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

13h50 **Fecal Preservation by Freeze-Drying: Applications and Perspectives**

Julie Reygner, Université Paris Descartes, France

14h10 **Hyaluronan, A New Neuroimmune Modulator of the Microbiota-Immune-Gut-Axis**

Cristina Giaroni, University of Insubria, Italy

14h30 **Psychotropic Drugs and Microbiota - Important and little-Known Interaction**

Igor Loniewski, Pomeranian Medical University, Poland

15:20 Short oral presentations

Can Faecal Transplantation From Patients Diagnosed With Depression Into Rats Induce A Depressive-Like Phenotype?

Julie Kristine Knudsen, Aalborg University, Denmark

Morphology of Blood Microbiota Accessed by Light and Electron Microscopy

Stefan Panaiotov, National Center of Infectious and Parasitic Diseases, Bulgaria

STW 5 (IBEROGAST®) and Microbiome: In Vitro and in Vivo Studies

Ramy Ammar, Bayer Consumer Health, Germany

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

Importance of Therapy with Intestinal Alkaline Phosphatase against Experimental Colitis in Obese Mice with Voluntary Physical Activity Role of Myokines, Proinflammatory Factors and Microbiota

Thomas Brzozowski, Jagiellonian University Medical College, Poland

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

The Presence of Bacteria Varies between Colorectal Adenocarcinomas, Precursor Lesions and Non-Malignant Tissue

Caspar Bundgaard-Nielsen, North Denmark Regional Hospital, Hjørring Aalborg University, Denmark

Early Introduction of Solid Foods: Ingestion Level Matters more than Prebiotics Supplementation for Shaping the Gut Microbiota

Charlotte Paës, INRA, France

17h00 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?

17:20 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?

Targeting Microbiota 2019 Scientific & Innovation Awards

17h40 End of Targeting Microbiota 2019s