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
Targeting Microbiota World Congress 2019
Towards Clinical Revolution
October 10-11, 2019 - Park Inn Hotel - Krakow, Poland

Congress Sessions:
- Microbiota 2019: Recent Advances & Challenges
- Microbiota Metabolites and Metabolome: Challenges & Perspectives
- Workshop: Skin microbiota 2018: 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
- Microbiota Medicine of tomorrow: How do microbiota and metabolites will affect our classical thinking and make us rethink and redesign our strategies
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Microbiota 2019 Speakers

- Introduction note by the President of ISM Targeting Microbiota 2019
  Peter C. Kordusta
  Teaching Hospital of the University of Jena, Germany

- International Space Station and Hospital Environments: Composition and function of microorganisms in confined built environments
  Christine Moissl-Eichinger
  Medical University Graz, Austria

- Microbiota and cancer: Between Detection and Prognosis
  Romain Villeger
  University of Clermont-Auvergne, France

- Microbiota and cancer: Between Detection and Prognosis
  Romain Villeger
  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
  Mariluz 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 Reygner
  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. Feulboley
  University of Rouen Normandy, France

- 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 Malin
  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 Gianoni
  University of Insubria, Italy

- Carcinogenic microorganisms of oral cavity
  Tomasz M. Karpinski
  Poznan University of Medical Sciences, Poland

- Intergenerational Transfer of the Atopic-Disease Potential from the Murine Maternal Gut Microbiota Grafted with Human Faecalibacterium Prausnitzii Pathobiontes
  Heenan Stanley Kim
  Korea University, Korea

- Microbiota Dysbiosis is Associated with HPV-Induced Cervical Carcinogenesis
  Wojciech Kwansiewski
  Medical University of Lublin, Poland

- Psychotropic Drugs and Microbiota - Important and Little Known Interaction
  Igor Louniewski
  Pomorska Medical University, Poland

www.microbiota-site.com
Targeting Microbiota World Congress 2019

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. Karpinski, Poznan 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 Orzyłowska, 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

16h20  Session 2: Microbiota Metabolites and Metabolome: Challenges & Perspectives

Chairpersons: Annalisa Terranegra, Marcin Ufnal

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. 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

9h30 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?
Jarosław 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 Giaronti, 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 Transplantion 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 Panaitov, 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 Ammellorates 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 Jyvaskyla, Finland

Importance of Intestinal Microbiota Indicators for Clinical Purposes of Using Targeted Microbiological Therapy
Anna Maria Basinska, 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