On behalf of the International Society of Microbiota, we are pleased to inform you that the 8th World Congress on Targeting Microbiota will be organized on October 20-22, 2021 in Paris at the UNESCO. The meeting will be a hybrid conference: in person and virtually. The final decision about the format will be next July. We keep our optimism in these particular moments.

During three days, two workshops will be dedicated to Gut & Skin Microbiota and many oral and poster communications will be presented. We will discuss the following issues:

- Inaugural Speech: Microbiota 2021 - Vision & Gaps
- Microbiota Dysbiosis & Metabolites in Diseases: Mechanistic & Advances
- Epigenetic Activity of the Microbiota & Metabolites
- Brain, Behaviour, Ageing and Microbiota
- Targeting Microbiome Big Data, Algorithms, Machine Learning Challenges
- Targeting Microbiota Dysbiosis: Strategies to Manipulate the Microbiome & Microbiota
- Microbiota Innovation, Challenges & Sprints
- Targeting Animal Microbiota Symposium

This year, the International Society of Microbiota is also inviting you to present your innovative research in Microbiota & related fields.

I do believe that this would be the best future strategy for the 8th World Congress of Targeting Microbiota in 2021: a strong communication between basic, pre-clinical scientists and clinicians.

If you wish to present your studies and research, please send us a short summary. We are open to all your suggestions for the program of Targeting Microbiota 2021.

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

All our warmest regards.

Prof. Peter C. Konturek
Teaching Hospital of the University of Jena, Germany
President of the International Society of Microbiota
www.microbiota-site.com
Microbiota 2021 Key Dates

- **Early Bird Registration:** August 9, 2021
- **Short Oral Submission Deadline:** September 30, 2021
- **Poster Submission Deadline:** October 9, 2021

Microbiota 2021 Speakers

- **Microbiota Transfer Therapy for Autism: Multimodal Approaches and Lessons Learned**
  - Rosa Krajmalnik-Brown, Arizona State University, USA

- **Impact of gut microbiota on acute and post acute COVID-19 syndromic Clinical Applications**
  - Siew C Tng, The Chinese University of Hong Kong, Hong Kong

- **Gut Microbiota as Important Mediator Between Diet and DNA Methylation and Historic Modifications in the Host**
  - Dina Bellizzi, University of Calabria, Italy

- **The Microbiome of IBD and the Potential of Machine Learning**
  - Marcus Claesson, University College Cork, Ireland

- **Human Gut Microbes and COVID-19**
  - Linhuan Li, Zhejiang University, China

- **Evaluation of the Effect of Storage Methods on Fecal, Saliva, and Skin Microbiome Composition**
  - Se Jin Song, Center for Microbiome Innovation, Jacobs School of Engineering, USA

- **Fecal Microbiota Transplantation in Dogs**
  - Frederic Gaschen, Louisiana State University School of Veterinary Medicine, USA

- **Gut Microbiota Interactions with Cognitive Function**
  - J. M. Fernández-Real, Hospital de Girona “Dr. Josep Trueta”, Universitat de Girona, Spain

- **The Entoecolic Potential Of Tannins in Piglets’ Nutrition**
  - Jakub Piekarski, Medical University of Warsaw, Poland

- **The Horse Gut Microbiome Responds in a Highly Individualized Manner to Forage Lignification**
  - Andrea Gornes, University of Minnesota-Twin Cities, USA

- **Gut Microbiota & Antibiotics**
  - Maria Cecilia Girón, University of Padova, Italy

- **The Microbiome as a Bridge Linking Antibiotics and Intestinal Function**
  - Valentina Caputi, The University of Arkansas, USA

- **Microbial Endocrinology as a Framework for Understanding the Avian Microbiome in a Post-Antibiotic World**
  - Joshua Lyte, University of Arkansas, USA

- **Fecal Microbiome Preservation Methods**
  - Adina Przyb, Microba, USA

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**Microbiota Site:** www.microbiota-site.com
8th World Congress on
Targeting Microbiota
October 20-22, 2021 – UNESCO, Paris, France & Online

Pre-Program
October 20, 2021

Dedicated to Gut & Skin Workshops

How to Evaluate & Modulate Gut Microbiota?

9h00 - 13h30

- Present the role of the Gut Microbiota in human and discuss the consequences of its dysfunction on the body
- Discuss the methods of cultures and analysis of the Gut microbiota and present the controversies related to these methods
- We will discuss all methods related to Microbiota analysis, interpretation and animals' models
- Present the latest scientific innovations on the Gut Microbiota, the opportunities and challenges ahead
- The development of pre, pro and post-biotics with a view to understand how these formulations may be at the heart of rebalancing and strengthen the microbiome

Carole Nicco,
Institut Cochin - INSERM U1016, Université de Paris, France

For full agenda, registration, and information, please follow this link

GUT WORKSHOP

How to Evaluate Skin Microbiota 2021?

14h00 - 18h00

- General introduction to the skin microbiota
- Involvement of the microbiota in skin pathologies
- How to study microbiota and skin microbiota?
- The manipulation of microbial communities
- How to prepare and launch your range of cosmetic products?

Florence Abdallah,
University of Paris Sud – INSERM 1184, France

For full agenda, registration, and information, please follow this link

SKIN WORKSHOP
October 21, 2021

Day One

Targeting Microbiota 2021 - Mechanisms & Pathologies

8h45 Welcome Remarks by
Peter C. Konturek, President of ISM & Teaching Hospital of the University of Jena, Germany

9h00 Inaugural Speech by
Rosa Krajmalnik-Brown, School of Sustainable Engineering and The Built Environment, Arizona State University, USA

Microbiota Transfer Therapy for Autism: Multi-Omic Approaches and Lessons Learned

9h45 – 12h30

Session 1: Microbiota Dysbiosis & Metabolites in Diseases: Mechanistic & Advances

Role of Microbiota in Cardiometabolic Health
Noel T. Mueller, Johns Hopkins University Bloomberg School of Public Health, USA

Impact of Gut Microbiota on Acute and Post-Acute COVID-19 Syndrome: Clinical Applications
Siew C Ng, The Chinese University of Hong Kong, Hong Kong

Human Gut Microbes and COVID-19
Lanjuan Li, Zhejiang University, China

Many Aspects of the Gut Microbiome in Patients with COVID-19
Tao Zuo, Institute of Digestive Disease, Chinese University of Hong Kong, Hong Kong

Short Oral Presentations

Low Abundance of Lactococcus lactis in Human Colorectal Cancer Is Associated with Decreased Natural Killer Cell
Xiangsheng Fu, the Affiliated Hospital of North Sichuan Medical College, China

Phospholipase A2 of Microbiota as Pathogenetic Determinant to Induce Inflammatory States in Ulcerative Colitis
Wolfgang Stremmel, Medical Center Baden-Baden, Germany

Recent Evidence for Benefit-Risk Analysis of Raw and Pasteurized Milks
Margaret Ellen Coleman, SUNY ESF/ Coleman Scientific Consulting, USA

H. Pylori: A Pathogen or A Member of the Microbiome?
Aleksandr Igorevich Burmistrov, A.I. Yevdokimov Moscow State University of Medicine and Dentistry, Russia
Targeting Microbiota World Congress 2021

Helicobacter pylori Cell Binding Factor 2: Insights the Mechanism Isomerization, Chaperone Activity and Makes a Key Virulent Factor

Naveen Vankadari, Monash University, Australia

12h30 - Lunch Break

13h30 – 14h30

Session 2: Epigenetic Activity of the Microbiota & Metabolites

Epigenetic Activity of the Microbiota & Metabolites
Annalisa Terranegra, Sidra Medical and Research Center, Qatar

Gut Microbiota as Important Mediator Between Diet and DNA Methylation and Histone Modifications in Host
Dina Bellizzi, University of Calabria, Italy

Short Oral Presentations

14h30 – 16h30

Session 3: Brain, Behavior, Ageing and Microbiota

Gut-Brain Axis Regulation of Alzheimer’s Disease Pathology
Giulio M Pasinetti, Icahn School of Medicine at Mount Sinai, USA

Gut Microbiota Interactions with Cognitive Function
J. M. Fernández-Real, Hospital de Girona “Dr Josep Trueta”, Universitat de Girona, Spain

Human Gut Microbiome Signature Reflects Healthy Aging and Predicts Survival in the Latest Decades of Life
Sean M. Gibbons, Institute for Systems Biology, University of Washington, USA

Deciphering the Effect of Bacteria on Protein Conformational Diseases
Daniel M Czyz, University of Florida, USA

Microbiota Regulate Social Behavior Via Stress Response Neurons in the Brain
Wei-Li Wu, California Institute of Technology, USA

Short Oral Presentations

Altered Gut Microbiota and Endocannabinoid System Tone in Vitamin D Deficiency-Mediated Chronic Pain
Francesca Guida, University of Campania, Italy

16h30 – Coffee Break

17h – 18h

Session 4: Targeting Microbiome Big Data, Algorithms, Machine Learning Challenges

Nonlinear Machine Pattern Recognition and Bacteria-Metabolite Multilayer Network of Perturbed Gastric Microbiome
Carlo V. Cannistraci, Tsinghua University, China

The Microbiome of IBD and the Potential of Machine Learning
Marcus Claesson, University College Cork, Ireland
Short Oral Presentations

TaxiBGC: A Taxonomy-Guided Approach for the Identification of Microbial Biosynthetic Gene Clusters in Shotgun Metagenomic Data
_Utpal Bakshi, Mayo Clinic, USA_

MiCoMo: A Miniature Multi-Bioreactor System for Stable and Reproducible In Vitro Investigation of Gut Microbiome
_Zijie Jin, McGill University, Canada_

18h30
End of the First Day
October 22, 2021

Day Two
Clinical Studies & Innovations & Animal Microbiota

9h00: Keynote Speech

**Reconstruction of Ancient Microbial Genomes from the Human Gut**  
_Aleksandar Kostic_, Harvard Medical School, USA

9h30 – 12h30

Session 5: Targeting Microbiota Dysbiosis: Strategies to Manipulate the Microbiome & Microbiota

_Fecal Microbiota and Metabolite Profiles in IBD and IBS_  
_Lena Öhman_, University of Gothenburg, Sweden

_An Ecological Framework to Understand the Efficacy of Fecal Microbiota Transplantation_  
_Yang-Yu Liu_, Harvard Medical School & Brigham and Women's Hospital, USA

_Evaluation of the Effect of Storage Methods on Fecal, Saliva, and Skin Microbiome Composition_  
_Se Jin Song_, Center for Microbiome Innovation, Jacobs School of Engineering, USA

_Gut Microbiota & Antibiotics_  
_Maria Cecilia Giron_, University of Padova, Italy

_The Microbiome as a Bridge Linking Antibiotics and Intestinal Function_  
_Valentina Caputi_, University of Arkansas, USA

_Microbial Endocrinology as a Framework for Understanding the Avian Microbiome in a Post-Antibiotic World_  
_Joshua Lyte_, University of Arkansas, USA

Short Oral Presentations

_Gut Microbiome Predicts Clinically Important Improvement in Patients With Rheumatoid Arthritis_  
_Jaeyun Sung_, Mayo Clinic, USA

_Effect of Probiotics in Children with Infantile Eczema: A Double-Blind Randomized Control Trial_  
_Tamara Sabbi_, ASL RMG Palestrina, Italy

_Feeding with Sustainably Sourdough Bread Has the Potential to Promote the Healthy Microbiota Metabolism at the Colon Level_  
_Alessio Da Ros_, Free University of Bolzano, Italy

_Longitudinal Multi-Omics Reveals Subset-Specific Mechanisms Underlying Beneficial Effects of Sim01 on Covid-19_  
_Lín Zhang_, The Chinese University of Hong Kong, China

12h30 – Lunch Break
13h00 – 14h30

Session 6: Microbiota Innovation, Challenges & Sprints

Specific field of Lactic Acid Bacteria Form Food and Gut
Edoardo Pasolli, University of Naples Federico II, Department of Agricultural Sciences, Italy

Critical Evaluation of Faecal Microbiome Preservation using Metagenomic Analysis
Alena Pribyl, Microba Life Sciences, Australia

More Speakers to be Confirmed Later

Short Oral Presentations

14h30 – Coffee Break

15h00 – 18h30

Session 7: Targeting Animal Microbiota Symposium

Fecal Microbiota Transplantation in Dogs
Frederic Gaschen, Louisiana State University School of Veterinary Medicine, USA

Microbiota and Obesity in Dogs: Nutritional Intervention to Modulate Microbiota Quality
Carmen Camacho, National Institute of Medical Sciences and Nutrition Salvador Zubirán, Mexico

Recent Advances on the Fish Skin Microbiomes – Challenges in Deciphering their Shaping Factors
Amir Szitenberg, Arava and Dead Sea Science Center, Israel

The Eubiotic Potential of Tannins in Piglets’ Nutrition
Jakub Piwowarski, Medical University of Warsaw, Poland

Real-Time Monitoring of Ruminal Microbiota Reveals Their Roles in Dairy Goats During Subacute Ruminal Acidosis
Shengru Wu, Northwest A&F University, China

The Horse Gut Microbiome Responds in a Highly Individualized Manner to Forage Lignification
Andres Gomez, University of Minnesota-Twin Cities, USA

Honeybees Microbiome: Recent Advances and Perspective on Compartmentalization in the Adult Gut
Daniele Daffonchio, King Abdullah University, Saudi Arabia

Short Oral Presentations

Gut Microbiome Composition is Associated with Age and Memory Performance in Pet Dogs
Soufiane Bel Rhali, Eötvös Loránd University, Hungary

19h00 - Concluding Remarks & Scientific & Innovations Awards

19h30 - End of Targeting Microbiota 2021

If you wish to submit your abstract for Short oral presentation or Poster, please follow this link.