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 as an Interactive Online meeting, including several sessions dedicated to Live Interactive Discussion & Networking between all participants and speakers.

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 & COVID-19 – Recent Advances & Perspectives
- Epigenetic Activity of the Microbiota & Metabolites
- Brain, Behavior, 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
Congress Sessions:
- Inaugural Speech: Microbiota 2021 - Vision & Gaps
- Microbiota Dysbiosis & Metabolites in Diseases: Mechanistic & Advances
- Epigenetic Activity of the Microbiota & Metabolites
- Brain, Behavior, 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

Microbiota 2021 Key Dates
- Short Oral Submission Deadline: September 30, 2021
- Poster Submission Deadline: October 9, 2021

Microbiota 2021 Speakers

- **FMT 2021: Reorganization and Perspective**
  - **Peter C. Konturek**, President of ISM & Teaching Hospital of the University of Jena, Germany

- **The Promise of Microbiota Modulation during COVID-19 Pandemic**
  - **Siew C. Ng**, The Chinese University of Hong Kong, Hong Kong

- **Gut Microbiota as Important Mediator Between Diet and DNA Methylation and Histone 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

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

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

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

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

- **Gut Microbiota & Antibiotics**
  - **Maria Cecilia Giron**, 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**, USDA Agricultural Research Service, USA

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

- **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

- **Role of Microbiota in Cardiometabolic Health: Strategies**
  - **Neil T. Mueller**, Johns Hopkins University Bloomberg School of Public Health, USA

- **An Ecological Framework to Understand the Efficacy of Fecal Microbiota Transplantation**
  - **Yang-Yu Liu**, Harvard Medical School & Brigham and Women's Hospital, USA

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

- **Deciphering the Effect of Bacteria on Protein Conformational Diseases**
  - **Daniel M Cryz**, University of Florida, USA

- **Tryptophan Metabolism in Gut Microbes and Brain Axis**
  - **Wei-Yun Zhu**, College of Animal Science and Technology, Nanjing Agricultural University, China

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

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

- **Role Of Microbiota-Gut-Brain Axis Dysfunctions Induced by Infections in the Onset of Anorexia Nervosa**
  - **Marie Galiniche**, Normandise University, France

- **Reconstruction of Ancient Microbial Genomes from the Human Gut: Keynote Speech**
  - **Aleksandar Kostic**, Harvard Medical School, USA

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

- **The Promise of Microbiota Modulation during COVID-19 Pandemic**
  - **Siew C. Ng**, Center for Microbiome Innovation, Jacobs School of Engineering, USA

- **Nonlinear Machine Learning Pattern Recognition: Bacteria-Metabolite Multilayer Network Analysis of PDBducted Gastric Microbiome**
  - **Carlo Vittorio Cannistraci**, Tsinghua University, China

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

- **Faecal Microbiome Preservation Methods**
  - **Alena Pribyl**, Microba, USA

- **Recent Advances on the Fish Skin Microbiomes – Challenges in deciphering their shaping factors**
  - **Amir Sittenberg**, Arava and Dead Sea Science Center, Israel

- **Diet as Microbiome and Epigenetic Modifier in Diabetes and Obesity**
  - **Annalisia Terranea**, Siddra Medical and Research Center, Qatar

- **Linking Lactic Acid Bacteria from Food with the Gut Microbiome**
  - **Edoardo Pasisi**, University of Naples Federico II, Department of Agricultural Sciences, Italy

- **What Can the Microbiota of the Naked Mole-Rat Tell Us - The Clue to Longevity**
  - **Gerdt Birkenmeier**, University of Leipzig, Germany

www.microbiota-site.com
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

8:45 am: Welcome Remarks by
Peter C. Konturek, President of ISM & Teaching Hospital of the University of Jena, Germany

9:00 am: 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

Session 1: Microbiota Dysbiosis & COVID-19 – Recent Advances & Perspectives

9:45 am
Recorded
The Promise of Microbiota Modulation during COVID-19 Pandemic
Siew C Ng, The Chinese University of Hong Kong, Hong Kong

10:10 am
Recorded
Human Gut Microbes and COVID-19
Lanjuan Li, Zhejiang University, China

10:35 am
Coffee Break

Session 2: Epigenetic Activity of the Microbiota & Metabolites

10:45 am
Diet as Microbiome and Epigenetic Modulator in Diabetes and Obesity
Annalisa Terranegra, Sidra Medical and Research Center, Qatar

11:10 am
Recorded
Microbiota as Important Mediator Between Diet and DNA Methylation and Histone Modifications in Host
Dina Bellizzi, University of Calabria, Italy

Session 3: Brain, Behavior, Ageing and Microbiota

11:35 am
Live
Gut-Brain Axis Regulation of Alzheimer’s Disease Pathology
Giulio M Pasinetti, Icahn School of Medicine at Mount Sinai, USA

12:00 pm
Lunch Break

Interactive Live Discussion & Networking #A
Dedicated to Questions & Networking with Speakers
12:30 pm  Recorded
Tryptophan Metabolism in Gut Microbes and Brain Axis
Wei-Yun Zhu, College of Animal Science and Technology, Nanjing Agricultural University, China

12:55 pm  Recorded
Gut Microbiota Interactions with Cognitive Function
J. M. Fernández-Real, Hospital de Girona “Dr Josep Trueta”, Universitat de Girona, Spain

01:20 pm  Recorded
Role of Microbiota-Gut-Brain Axis Dysfunctions Induced by Infections in the Onset of Anorexia Nervosa
Marie Galmiche, Normandie University, France

01:45 pm
What Can the Microbiota of the Naked Mole-Rat Tell Us – The Clue to Longevity
Gerd Birkenmeier, University of Leipzig, Germany

02:10 pm  Recorded
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

02:35 pm  Recorded
Deciphering the Effect of Bacteria on Protein Conformational Diseases
Daniel M Czyz, University of Florida, USA

03:00 pm  Live
Microbiota Regulate Social Behaviour Via Stress Response Neurons in the Brain
Wei-Li Wu, California Institute of Technology, USA

03:25 pm  Coffee Break

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

03:35 pm
Nonlinear Machine Pattern Recognition and Bacteria-Metabolite Multilayer Network of Perturbed Gastric Microbiome
Carlo V. Cannistraci, Tsinghua University, China

04:00 pm
The Microbiome of IBD and the Potential of Machine Learning
Marcus Claesson, University College Cork, Ireland

04:25 pm
Short Oral Presentations of Day 1 (12 slots)
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

*Helicobacter bilis* May Play a Role in The Carcinogenesis of Colitis Associated Colon Cancer Correlating to Increased Number of Cd4+Cd45rb+ T Cells
*Wei Peng*, the Affiliated Hospital of North Sichuan Medical College, China

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

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**End of the First Day**

October 22, 2021
Day Two
Clinical Studies & Innovations & Animal Microbiota

09:00 am: Keynote Speech

Reconstruction of Ancient Microbial Genomes from the Human Gut
Aleksandar Kostic, Harvard Medical School, USA

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

09:30 am
Fecal Microbiota and Metabolite Profiles in IBD and IBS
Lena Öhman, University of Gothenburg, Sweden

09:55 am
An Ecological Framework to Understand the Efficacy of Fecal Microbiota Transplantation
Yang-Yu Liu, Harvard Medical School & Brigham and Women's Hospital, USA

10:20 am
Coffee Break

10:30 am
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

10:55 am
Gut Microbiota & Antibiotics
Maria Cecilia Giron, University of Padova, Italy

11:20 am
The Microbiome as a Bridge Linking Antibiotics and Intestinal Function
Valentina Caputi, University of Arkansas, USA

11:45 am
Microbial Endocrinology as a Framework for Understanding the Avian Microbiome in a Post-Antibiotic World
Joshua Lyte, USDA Agricultural Research Service, USA

12h10 pm
Lunch Break

12:00 pm – 2:00 pm Paris time | 6:00 am – 8:00 am
Washington DC, USA | 6:00 pm – 8:00 pm Beijing, China
Interactive Live Discussion & Networking #C
Dedicated to Questions & Networking with Speakers
Session 6: Microbiota Innovation, Challenges & Sprints

12:40 pm
Recorded
Linking Lactic Acid Bacteria from Food with the Gut Microbiome
*Edoardo Pasolli*, University of Naples Federico II, Department of Agricultural Sciences, Italy

1:05 pm
Recorded
Critical Evaluation of Faecal Microbiome Preservation using Metagenomic Analysis
*Alena Pribyl*, Microba Life Sciences, Australia

01:30 pm
Role of Microbiota in Cardiometabolic Health: Strategies
*Noel T. Mueller*, Johns Hopkins University Bloomberg School of Public Health, USA

Session 7: Targeting Animal Microbiota Symposium

01:55 pm
Recorded
Fecal Microbiota Transplantation in Dogs and Cats
*Frederic Gaschen*, Louisiana State University School of Veterinary Medicine, USA

02:20 pm
Recent Advances on the Fish Skin Microbiomes – Challenges in Deciphering their Shaping Factors
*Amir Szitenberg*, Arava and Dead Sea Science Center, Israel

02:45 pm
Eubiotic Potential of Tannins in Piglets’ Nutrition
*Jakub Piwowarski*, Medical University of Warsaw, Poland

03:10 pm
Real-Time Monitoring of Ruminal Microbiota Reveals Their Roles in Dairy Goats During Subacute Ruminal Acidosis
*Shengru Wu*, Northwest A&F University, China

03:35 pm
Coffee Break

03:45 pm
The Horse Gut Microbiome Responds in a Highly Individualized Manner to Forage Lignification
*Andres Gomez*, University of Minnesota-Twin Cities, USA

04:10 pm
Honeybees Microbiome: Recent Advances and Perspective on Compartamentalization in the Adult Gut
*Daniele Daffonchio*, King Abdullah University, Saudi Arabia

04:35 pm
Short Oral Presentations of Day 2 (5 slots)
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**
*Lin Zhang*, The Chinese University of Hong Kong, China

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

If you wish to submit your abstract for Short oral presentation or Poster, [please follow this link](#).

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5:00 pm – 7:00 pm Paris time | 11:00 am – 1:00 pm Washington DC, USA | 11:00 pm – 1:00 pm Beijing, China

**Interactive Live Discussion & Networking #D**
Dedicated to Questions & Networking with Speakers

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07:00 pm - Concluding Remarks & Scientific & Innovations Awards

07:15 pm - End of Targeting Microbiota 2021