

**INTERNATIONAL SOCIETY OF MICROBIOTA**

**8th World Congress on**

**TARGETING MICROBIOTA 2021**

**October 20-22, 2021**

**Paris, France & Online**

**AGENDA**



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

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

## Microbiota 2021 Key Dates

**Mon.** Early Bird  
Registration  
August 9, 2021

**Thur.** Short Oral Submission  
Deadline  
September 30, 2021

**Sat.** 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



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



Nonlinear machine learning pattern recognition &  
bacteria-metabolite multilayer network analysis of  
perturbed gastric microbiome  
**Carlo Vittorio Cannistraci**, Tsinghua University,  
China



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



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



Human Gut Microbes and COVID-19  
**Lanjuan 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 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  
**Andres Gomez**, 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**, University of Arkansas, USA



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



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



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



Symposium on Epigenetics and Microbiota  
**Annalisa Terranegra**, Sidra Medical and Research  
Center, Qatar



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 microbiome in cardiometabolic health  
**Noel 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



Fecal Microbiota and Metabolite profiles in IBD  
and IBS  
**Lena Öhman**, University of Gothenburg,  
Sweden



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



Linking lactic acid bacteria from food with the  
gut microbiome  
**Edoardo Pasolli**, University of Naples Federico II,  
Department of Agricultural Sciences, Italy



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 Czyn**, University of Florida, USA



Microbiota and obesity in dogs: Nutritional  
intervention to modulate microbiota quality  
**Carmen Camacho Rea**, National Institute of  
Medical Sciences and Nutrition Salvador Zubirán,  
Mexico



Many aspects of the Gut microbiome in  
Patients With COVID-19  
**Tao Zuo**, Institute of Digestive Disease, Chinese  
University of Hong Kong, Hong Kong



Microbiota regulate social behavior via stress  
response neurons in the brain  
**Wei-Li Wu**, California Institute of Technology, USA



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



# 8<sup>th</sup> 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

9h:00

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

*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  
**Lin 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 Pasoli**, 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 Ruminant Microbiota Reveals Their Roles in Dairy Goats During Subacute Ruminant 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](#).