Welcome to the 9th ISM World Annual Meeting

On behalf of the International Society of Microbiota, we are pleased to inform you that the 9th Annual World Meeting on Targeting Microbiota will be held on October 19-21, 2022 in Paris, France and online.

During Targeting Microbiota 2022, we will discuss the following topics:

- Microbiota & Microbiota Dysbiosis in Diseases: Recent Advances
- Nutrition, Water and Microbiota: The Missing Links
- Targeting Microbiota: Towards Personalized Medicine
- Strategies, Innovations & Challenges to Target Microbiota Dysbiosis

Among the other hot topics that will be covered: Oral microbiota, vaginal microbiota, microbiota biofilms, retinal disorders, respiratory infections, arterial thrombosis, ischemic stroke, ageing, circadian system, depression, FMT, multi-omics, gene editing, precision medicine, cancer immunotherapy, mineral water, Mediterranean diet, weight loss…

I do believe that this would be the best future strategy for the 9th World Congress of Targeting Microbiota in 2022: a strong communication between basic, pre-clinical scientists and clinicians.

So, I hope to meet you this October to capture moments of conviviality and scientific inspiration 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
Gut Microbiota Workshop Program

How to Evaluate & Modulate Gut Microbiota?

October 19, 2022

Gut Workshop - Online Agenda

13h50 - Welcoming of Attendees

14h00 - Session 1: Microbiota: General introduction

14h45 - Session 2: Involvement of the microbiota in gut pathologies

15h45 – Break

16h15 - Session 3: How to study microbiota?

17h00 - Session 4: How to manipulate microbial communities?

17h45 - Session 5: How to study the beneficial effects of bacterial strains for food & food supplements

18h00 – Questions & Answers

End of the Workshop

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

For full agenda, registration, and information, please follow this link
Congress Day 1 - Thursday, October 20, 2022

8h00 Materials Distribution & Welcome Coffee

8h50 **General Introduction of 9th ISM World Congress: Vision & Gaps**
*Peter C. Konturek*, President of ISM, Teaching Hospital of the University of Jena, Germany

9h00 **Microbiota & Microbiotal Medicine: Where We Are Now & What’s Next?**
*Marvin Edeas*, Founder & Chairman of ISM's Committee, Institut Cochin, INSERM, Université de Paris, France

**Session 1: Microbiota & Microbiota Dysbiosis in Diseases: Recent Advances**

*Presentation length: 15 minutes + 5 minutes of discussion*

*Chairs: Marvin Edeas & Peter Konturek*

9h20 **Host-Microbiota Interaction at the Mucosal Surface – Importance of a No Man’s Land!**
*Benoit Chassaing*, Institut Cochin, France

9h40 **Short-chain Fatty Acids as Modulators of Redox Signaling in Health and Disease**
*Carmen González-Bosch*, Universitat de València, Spain

10h00 **Interactions Between Epithelial Proteases and Gut Microbiota Biofilms During Intestinal Disease**
*Jean-Paul Motta*, Institute of Digestive Health Research, France

10h20 **Understanding the Heterogeneity of Host-associated Microbial Communities**
*Lei Dai*, Shenzhen Institutes of Advanced Technology, China (Online Talk)

10h40 – 11h10 **Coffee Break, Networking, & Poster Session**
11h10 - Fuelling Microbiome Research Through Metagenomics
Jennifer Mackay, Global Business Development - Academia Lead at CosmosID

11h20 - BIOMES Real-World Microbiota Datasets and It’s Impact of Healthcare
Paul Hammer, CEO and Founder of BIOMES, Germany

11h30 - Influence of the Gut Microbiome in Ischemic Stroke Risk and Ischemic Stroke Outcome
Miquel Lledós, Biomedical Research Institute Sant Pau, Spain (Online Talk)

11h50 - Microbial Biomarkers to Predict Respiratory Infection
Claire A. Woodall, University of Bristol, United Kingdom

12h10 - A Gut Commensal, Parabacteroides distasonis, and Type 1 Diabetes Onset
Emrah Altindis, Biology Department Boston College, USA (Online Talk)

12h30 - 13h45 Lunch Break, Networking, & Poster Session

Chair: Gerd Birkenmeier

13h45 - May the Microbiota of the long-lived Naked Mole-rat Affect Human Health?
Gerd Birkenmeier, University of Leipzig, Germany

13h55 - Role of the Gut Microbiota in Arterial Thrombosis
Christoph Reinhardt, University Mainz, Germany

14h15 - Proof-of-Principle Demonstration of Endogenous Circadian System and Circadian Misalignment Effects on Human Oral Microbiota
Frank Scheer, Harvard Medical School, USA
Session 2: Nutrition, Water and Microbiota: The Missing Links

Presentation length: 15 minutes + 5 minutes of discussion

Chair: Annalisa Terranegra

14h35 - Precision Nutrition to Modulate Gut Microbiota in Reproductive Health and Pregnancy
Annalisa Terranegra, Sidra Medical and Research Center, Qatar

14h55 - Interpreting Microbiomes Via Multi-omics for Precision Health
Nathan Price, Thorne HealthTech, USA (Online Talk)

15h15 – 15h45 Coffee Break, Networking, & Poster Session

15h45 - Beneficial Effects of Natural Mineral Waters on Intestinal Inflammation and the Mucosa-Associated Microbiota
Nicolas Barnich, Université Clermont Auvergne, France

16h05 - Exploring a Healthy Human Gut Microbiota in a Mediterranean Cohort
Andrés Moya, University of València, Spain

16h25 - Microbial and Nutritional Influence on Endocrine Control of Growth
François Leulier, CNRS/Ecole Normale Supérieure de Lyon, France

16h45 Short Oral Presentations (5 minutes + 2 minutes for discussion)

Chairs: Claire Woodall & Andrés Moya

Diet Interaction with Gut Microbiome and Serum Lipidome Profiling in a Pilot Study on the Obese Qatari Female Population
Salma Hayder Ahmed, Sidra Medicine, Qatar

Impact of Different Modes of Presentation of Phenolic Compounds on an in Vitro Model of Human Gut Microbiota
Maria Ruiz-rico, Universitat Politècnica De València, Spain

Microbial Metabolites-Mediators of Gut-host Cross Talk
Yulan Wang, Nanyang Technological University, Singapore

High Throughput Screening of Drug Effects on Human Gut Microbiomes
Daniel Figeys, University of Ottawa, Canada
An Early Biomarker of Acute Graft-versus-host Disease in Obese Population  
*Arun Prasath Lakshmanan, Sidra Medicine, Qatar*

Fibers and Gut/Brain Communication in the Control of Glucose and Bodyweight Homeostasis  
*Virginie Mansuy Aubert, University of Lausanne and Loyola University Chicago, USA*

Associations Among Gut Microbiome, Nutritional Habits, and Gut Parasites: A Case Study of Mothers and Children in Zanzibar (Tanzania)  
*Aristide Toussaint Nguele, University of Camerino, Italy*

Effect of a Polyphenol-rich Diet on Older Subjects with Higher Level of Inflammatory Markers  
*Giorgio Gargari, University of Milan, Italy*

Integrated Mucosa-Associated Microbiota and Metabolome Analysis in Patients with Low- or High-grade Dysplastic Colorectal Polyps  
*Michele Giulia Clavenna, University of Eastern Piedmont, Italy*

Altered Bile Acid Profile Associates with Cognitive Impairment in Alzheimer's Disease  
*Farideh Hosseinkhani, Leiden University, The Netherlands*

Gut Bacteria Wrestle with Sumo in the Intestinal Arena  
*David Ribet, University of Rouen, France*

Investigating the Relationship Between the Nasal Microbiome and the Olfactory Functions  
*Stefano Renzetti, Università Degli Studi di Brescia, Italy*

Using *C. Elegans* to Study Host-Microbe Interactions  
*Katrine Vogt Møller, Aalborg University, Denmark*

In Vitro Static Batch Fermentation of *Pleurotus eryngii* Mushrooms by Human Fecal Microbiota: Metataxonomics Analysis and Metabolomic Profiling of the Products  
*Vasiliki Pletsa, National Hellenic Research Foundation, Greece*

18h25  **End of Congress Day 1**

20h30  **Meet the Speakers Dinner (ticket holders only)**
Congress Day 2 - Friday, October 21, 2022

8h00 Materials Distribution & Welcome Coffee

8h25 Introduction of Day 2

Session 3: Targeting Microbiota: Towards Personalized Medicine

Presentation length: 15 minutes + 5 minutes of discussion

Chair: Cristina Giaroni

8h30 - Microbiota and Drug Metabolism: Towards a Personalized Medicine
Cristina Giaroni, University of Insubria, Italy

8h50 - Fecal Microbiota Transplantation as an Immunomodulatory and Anti-Infective Agent
Jarosław Biliński, Medical University of Warsaw, Poland

9h10 - Cancer Therapy and Microbiota
Maria Cecilia Giron, University of Padova, Italy

9h30 - Gut Microbiome and Retinal Disorders: Recent Advances and Perspectives
Dimitra Skondra, University of Chicago, USA

9h50 - Vaginal Microbiota & Dysbiosis: Recent Advances & Perspective
Gary Ventolini, Texas Tech University Health Sciences Center, USA

10h10 - Oral Microbial Dysbiosis and Oral Diseases
Xin Xu, Sichuan University, China (Online Talk)

10h30 – 11h05 Coffee Break, Networking, & Poster Session
Session 4: Strategies, Innovations & Challenges to Target Microbiota Dysbiosis

Presentation length: 15 minutes + 5 minutes of discussion

Chair: Jarosław Biliński

11h05 - FMT 2022: Reorganization and Perspective
Peter C. Konturek, President of ISM from Teaching Hospital of the University of Jena, Germany

11h25 - Probiotics and FMT as Add-On Therapies for Depression
André Schmidt, University of Basel, Switzerland (Online Talk)

11h45 - Gene Editing and Microbiome Therapy
Nahla Mansour, National Research Center, Egypt

12h05 - The Probiotic Strain H. alvei HA4597 for Weight Loss
Pierre Déchelotte, Rouen Normandy University, France (Online Talk)

12h25 - Unique Metabolism of Blautia Wexlerae Has Beneficial Effects on the Control of Obesity and Type 2 Diabetes
Koji Hosomi, National Institutes of Biomedical Innovation, Japan

12h35 – 14h00 Lunch Break, Networking, & Poster Session

Chairs: Nahla Mansour and Fermin I. Milagro

14h00 - Gut Microbiota-Derived Extracellular Vesicles on Obesity Diabetes and Metabolism
Fermin I. Milagro, University of Navarra, Spain

14h20 - Manipulating Fiber Polysaccharide Structure to Alter Targeting to Gut Microbiota
Stephen Lindemann, Purdue University, USA

14h40 - Host-Microbes Mechanisms during E. coli Infections and Diet-induced Dysmetabolism
Matteo Serino, CRCN INSERM, France (Online Talk)
15h00 – Interactions of Skin Microbiota with Chosen Plant Extracts and Natural Products  
**Sebastian Granica**, Medical University of Warsaw, Poland

15h20 - Are Bacterial Metabolites the Missing Link in the Pathogenesis of Psoriasis?  
**Mariusz Sikora**, National Institute of Geriatrics, Rheumatology and Rehabilitation, Poland

15h27 - Advances in Microbiome-derived Solutions and Methodologies Are Founding a New Era in Dermocosmetics  
**Ahmad Khodr**, L’Oréal R&I, France

16h05 **Short Oral Presentations (5 minutes + 2 minutes for discussion)**  
Chair: **Maria Cecilia Giron and Stephen Lindemann**

**Protective Effect of Faecalibacterium Prausnitzii Against Influenza Infection**  
**Corinne Grangette**, Institut Pasteur of Lille, France

**Metagenomic Analysis of Gut Microbiota in Colorectal Cancer Reveals Microbial Dysbiosis and Enrichment of Pathways Promoting Carcinogenesis**  
**Mohammad T Al Bataineh**, Khalifa University, United Arab Emirates

**Insights on the Potential Urolithin Producing Bacteria from Human Gut**  
**Karthika Suryaletha**, Rajiv Gandhi Centre for Biotechnology, India

**Bias in 16S-Based Microbiota Compositions: Improving Inference**  
**Eric Nayman**, Florida International University, United States of America

**Gut Microbiota, Gluten and Leaky Gut: The Missing Link!**  
**Steven Gundry**, The Centers for Restorative Medicine, USA

**Integrated Microbiome Research via Standardisation with the NFDI4microbiota**  
**Sarah Schulz**, EMBL, Germany

**Interaction of E-cigarette Aerosol and Cannabis Smoke with Oral Cells and Microbiota**  
**Mahmoud Rouabhia**, Université Laval, Canada

**Spray-dried Porcine Plasma Reduces Dysbiosis Associated to Aging Which Correlates with a Mitigation of Neuroinflammaging**  
**Cristina Rosell-Cardonha**, Universitat de Barcelona, Spain

**Low-dose Interleukin-2 Shapes a Tolerogenic Gut Microbiota That Improves Autoimmunity and Gut Inflammation**  
**Nicolas Tchitchek**, Sorbonne University, France

**Change of Gut Microbiota Composition During and After Chemotheraphy of Children with Leukemia**  
**Diana Soghomonyan**, Hematology Center After Prof. R. Yeolyan, Armenia
Gut Microbiota Composition in Polish Patients with Ulcerative Colitis and the Impact of Fecal Microbiota Transplantation as a Therapeutic Method
Oliwia Zakerska-Banaszak, Institute of Human Genetics Polish Academy of Sciences, Poland

Recombinant Lactic Acid Bacteria for Therapy of Inflammatory Bowel Disease
Abida Zahirotičić, Jozef Stefan Institute, Slovenia

Fibre-Degrading Bacillus Probiotic Candidate and Dietary Fibers Improve Metabolic Activity of Colonic Butyrate-Producers in Ex Vivo Obese Model
Serigne Issa Ngom, Institut National de la Recherche Pour l'Agriculture, l'Alimentation et l'Environnement, France

Gut Dysbiosis and Fecal Microbiota Transplantation in Polish Patients with Irritable Bowel Syndrome
Marzena Skrzypczak-Zielińska Institute of Human Genetics Polish Academy of Sciences, Poland

Preventing Dysbiosis of an Immature Intestinal Microbiota with an Innovative Nutritional Solution
Charline Richard, Institut Polytechnique Unilasalle, France

New Droplet-microfluidics-based Approaches for Functional Metagenomics and Microbiomics
Sophie Lajus, Toulouse Biotechnology Institute, INSA de Toulouse, France

Probiotics Ameliorates Airway Inflammation in Children with Allergic Rhinitis
I-Jen Wang, Taipei Hospital. Ministry of Health and Welfare, Taiwan

18h05 Round Table Discussion: Microbiota Medicine: What's Next

18h20 Targeting Microbiota 2022 Awards

18h30 End of Targeting Microbiota 2022