



International Society of Microbiota

9TH WORLD CONGRESS ON

Targeting Microbiota

→ towards clinical revolution

October 19-21, 2022

Paris ◦ France

Agenda



INTERNATIONAL SOCIETY OF
ICROBIOTA

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



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→ towards clinical revolution

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ISM 2022 Speakers



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



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



Vaginal Microbiota and Dysbiosis: Recent Advances and Perspective
Gary Ventolini, Texas Tech University, USA



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



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



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



Host-Microbes Mechanisms during E. coli infections and Diet-induced Dysmetabolism
Matteo Serino, CRCN INSERM, France



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



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



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



Proof-of-Principle Demonstration of Endogenous Circadian System and Circadian Misalignment Effects on Human Oral Microbiota
Frank Scheer, Harvard Medical School, USA



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



Interpreting Microbiomes Via Multi-omics for Precision Health
Nathan Price, Thorne HealthTech, USA



Interactions of Skin Microbiota with Chosen Plant Extracts and Natural Products
Sebastian Granica, Medical University of Warsaw, Poland



Understanding the Heterogeneity of Host-associated Microbial Communities
Lei Dai, Shenzhen Institutes of Advanced Technology, China



Microbiota & Microbiotal Medicine: Where we Are Now & What's Next?
Marvin Edeas, Founder & Chairman of ISM's Committee, Institut Cochin, INSERM U1016, Université de Paris, France



May the Microbiota of the Long-Lived Naked Mole-Rat Affect Human Health?
Gerd Birkenmeier, University of Leipzig, Germany



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



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



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



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



The Probiotic Strain H. alvei HA4597 for Weight Loss
Pierre Déchelotte, Rouen Normandy University, France



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



Probiotics and FMT as Add-On Therapies for Depression
André Schmidt, University of Basel, Switzerland



Host-Microbiota Interaction at the Mucosal Surface - Importance of a No Man's Land!
Benoit Chassaing, Institut Cochin, France



Oral Microbial Dysbiosis and Oral Diseases
Xin Xu, Sichuan University, China



A Gut Commensal, *Parabacteroides distasonis*, and Type 1 Diabetes Onset
Emrah Altindis, Biology Department Boston College, USA



Influence of the gut microbiome in ischemic stroke risk and ischemic stroke outcome
Miquel Lledós, Biomedical Research Institute Sant Pau, Spain



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



Microbial and Nutritional Influence on Endocrine Control of Growth
François Leulier, Université de Lyon, France

9th ISM World Annual Meeting on Targeting Microbiota

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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

Gut Workshop Online Agenda

9th ISM World Annual Meeting on Targeting Microbiota

October 19-21, 2022 - Paris, France & Online

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!**

Benoît 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

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Chairs: Jakub Piwowarski & Benoit Chassaing



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

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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
María 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 Figey, University of Ottawa, Canada

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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

Michela 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 Pletsas, National Hellenic Research Foundation, Greece

18h25 **End of Congress Day 1**

20h30 **Meet the Speakers Dinner (ticket holders only)**

9th ISM World Annual Meeting on Targeting Microbiota

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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

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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 Dymetabolism

Matteo Serino, CRCN INSERM, France (Online Talk)

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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*

15h35 – 16h05 Coffee Break, Networking, & Poster Session

16h05 **Short Oral Presentations (5 minutes + 2 minutes for discussion)**

Chairs: 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 Suryaetha, 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 Neuroinflammation

Cristina Rosell-Cardona, 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 Chemotherapy of Children with Leukemia

Diana Soghomonyan, Hematology Center After Prof. R. Yeolyan, Armenia

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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 Zahirović, 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 Inssa 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