Targeting Microbiota

Towards Clinical Revolution

November 5-6, 2025 Valencia, Spain

Agenda

International Society
of \(\begin{array}{c} \cdot \text{icrobiota} \\ \text{icrobiota} \end{array}



12th World Congress Targeting Microbiota

November 5-6 | The Westin Valencia, Spain

Day 1 - Wednesday, November 5, 2025

7h45 Materials Distribution

8h50 Introductory Remarks of Targeting Microbiota 2025

Maria Cecilia Giron



Keynote Speech

9h00 Gut Microbiota, Health, and Diet: Going towards Causality and Mechanistic Understanding

Erwin Zoetendal, Wageningen University, The Netherlands

Session 1: Microbiota Modulation: Mechanisms and Advances

Chairs: Cecilia Giron, Marvin Edeas



9h30 Modulating the Gut Microbiome with Foods

Pilar Francino, FISABIO, Spain



09h55 Can We Modulate Gut Microbiota Dysbiosis by Dietary Powder from Fruit

Waste as Novel Prebiotics

Maria José Gosalbes, FISABIO, Spain

10h20 - 11h05 Coffee Break & Poster Session



11h05 Exploring Arginine and Gut Microbiota Modulation: Clinical Application

Jochen Mattner, University of Erlangen-Nuremberg, Germany



11h30 Bacteriophages & Food Addiction Modulation: Role of Tryptophane & Tyrosine Pathways

Vicente Pérez-Brocal, FISABIO, Spain

11h55 Short Oral Presentations

Aging Together: The Role of Gut Microbiota and its Influence on Aging Biology

Maria Pilar Blasco Conesa, University of Texas, USA

Targeting Post-Stroke Infections: Role of Microbiota-Derived Short-Chain Fatty Acids

in Gut Barrier Integrity and Bacterial Translocation

Julia Castillo González, University of Lausanne, Switzerland

PKS Status Modifies the Association Between Escherichia Coli and Neoplastic Lesions in a Population Based Colorectal

Cancer Screening Cohort

Trine Rounge, University of Oslo, Norway

12h30 – 14h00 Lunch Break, Networking, & Poster Session

Session 2: Microbiota in Aging, Cognitive Health & Systemic Effects

Chairs: Alex Mira, Erwin Zoetendal



14h00 Gut Microbiota and Cardiovascular Aging: Mechanisms and Strategy

Soheil Saeedi, University of Zurich, Switzerland



14h25 Gut Microbiome and Cognitive Impairment in Ageing and Lessons from Systemic Inflammatory Diseases Gaspar Perez Martinez, IATA-CSIC, Spain

CRISPR-Mediated Interactions Between Bacteriome, Virome and Plasmidome in The Gut Microbiome *Ekaterina Avershina*, *University of Oslo*, *Norway*

Uterine-Vaginal Microbiome Commonalities in a Cohort of Healthy Women *Katarzyna Morańska*, *Adam Mickiewicz University Poznan, Poland*

Parasite-Mediated Alteration of Behaviour and Biomolecular Dynamics in a Mouse Model **Kevin Tan**, National University of Singapore, Singapore

Gut Microbiomic Analysis of Patients with Primary Osteoarthritis Guangju Zhai, Memorial University of Newfoundland, Canada

15h30 – 16h15 Coffee Break, Networking, & Poster Session

Chairs: Fermín Milagro, Alain Stintzi



16h15 Can Salivary and Skin Microbiome Become a Biodetector for Aging-Associated Diseases? Current Insights and Future Perspectives

Rony Abdi Syahputra, Universitas Sumatera Utara, Indonesia

16h40 Short Oral Presentations

In Vitro Evaluation of Am3 Complex on Simulated Colonic Microbiota from Pediatric and Adult Fecal Donors *Ana López Sánchez*, *Cantabria Labs*, *Spain*

Lavender Extract and Gut Microbiota: Bioactivity and Biotransformation **Sebastian Granica**, Medical University of Warsaw, Poland

Beyond the Tumor: The Hidden Role of Microbiota in Gastric Cancer Therapy and Outcomes *Carmina Mariana Stroia*, *University of Oradea*, *Romania*

Long-Term Sex-Dependent Effects of Antibiotic-Induced Dysbiosis and Lacticaseibacillus Rhamnosus Gg in Juvenile Mice: Implications for Gastrointestinal Motility and Behavior *Annalisa Bosi*, *University of Insubria, Italy*

Gastric Microbiome Signatures as Predictive Markers of Gastritis to Cancer Progression **Yongliang Zhang**, National University of Singapore

Potential Gut Microbiota-Associated Biomarkers in Wilson Disease *Carmen Espinos*, *Universitat de València – INCLIVA*, *Spain*

The Impact of Radio and Immunotherapy on The Gut Microbiome and Treatment Outcomes in a Mouse Model of Colorectal Cancer

Lena Van Dingenen, SCK CEN Belgian Nuclear Research Center & University of Antwerp, Belgium

Akkermansia Muciniphila Mediates Antibiotic-Induced Impairment of Female Preference in Mice *Elena Kozhevnikova*, *Institute of Molecular and Cellular Biology SB RAS, Russia*

18h00 End of Day 1

20h00 Join the Dinner with the Speakers (for tickets holders only)

Day 2 - Thursday, November 6, 2025

8h50 Opening of Day 2

Session 3: Microbiota in Clinical Medicine: Strategies & Emerging Therapies

Chairs: Pilar Francino, Soheil Saeedi



9h00 Butyrate in Human Health: Advancing Towards Clinical Applications for Gastrointestinal Diseases

Alain Stintai University of Ottown Connede

Alain Stintzi, University of Ottawa, Canada



9h25 Exploring Butyrate: A Novel Approach to Liver Steatosis and Metabolic Syndrome Management
Federica Fogacci, University of Bologna, Italy



9h50 Anti-Obesity Effects of Probiotics: Efficacy, Mechanisms, and Challenges in Implementation Fermín Milagro, Universidad de Navarra, Spain



10h15 Intravaginal Inoculation of Probiotics: Innovative Approach and Perspectives in Humans Marion Toquet, Universidad CEU Cardenal Herrera, Spain

10h40 – 11h25 Coffee Break & Poster Session



11h25 Oral Microbiota Modulation: Therapeutic Strategies Alex Mira, FISABIO, Spain

11h50 Short Oral Presentations

Metagenomics in Human clinical Trials. Guideline for a metagenomic study *Alfredo García, Microomics Systems S.L., Spain*

Beyond Sequencing: Mass Spectrometry as a Lens into Microbiota Functionality *Lorenzo Torreni*, *oloBion SLU*, *Spain*

Transforming IBD Management: Non-Invasive Tools for Precision Diagnosis and Monitoring *Manoj Kumar*, Research Branch, Sidra Medicine, Qatar

The Impact of Microbiome Products on Neonatal Health Outcome: A Systematic Review and Meta-Analysis of Recent Studies

Ibrahim Alhifzi, Saudi German Hospital-Aseer, Saudi Arabia

12h30 - 14h00 Lunch Break, & Poster Session

Session 4: Drug-Microbiota Interactions & Systemic Implications

Chairs: Gaspar Perez Martinez, Jochen Mattner



14h00 The Influence of Oral and Gut Microbiome on Clinical Outcomes in Allogeneic Hematopoietic Stem Cell Transplantation

Gislane Lelis Vilela de Oliveira, Sao Paulo State University, Brazil



14h25 Drug Effects of Gut Microbiota in Humans: Clinical Consequences Carmelo Scarpignato, United Campus of Malta & CUHK, China



14h50 Impact of Mental Health Medications on Gut Microbiota: Insights from Elderly Population Susana Ruiz-Ruiz, FISABIO, Spain

15h15 Short Oral Presentations

Achieving High-Throughput and Quantitative Accuracy in Metaproteomic: A Benchmark of Short LC Gradients Over 1,000 Human Gut Samples **Beatriz Rocha,** Bruker Dalotnik Co, Spain

Targeted Antimicrobial Therapy to Restore Skin Microbiota in Atopic Dermatitis **Elżbieta Jagielska**, Mossakowski Medical Research Institute, Poland

A Metagenomic Study of the Skin Microbiota of Brazilian Women *Raquel Siqueira*, Federal University of São Paulo, Brazil

Understanding the Role of Gut Microbiome on The Brain's Reward System and Its Response to Nicotine **Yago Pazos Boubeta**, Institute Pasteur, France

15h55 – 16h25 Coffee Break, Networking

Chairs: Gislane Lelis Vilela de Oliveira, Rony Abdi Syahputra

Exploring Gut-On-A-Chip Preclinical Models to Evaluate Probiotic Functionality *Jennifer Redondo García*, *ADM-Biopolis*, *Spain*

Evaluating Potential Impact of Sequential Vaginal Swab Collection on Microbiome Profiling *Cristiano Sabelli*, Copan Italia S.p.A., Italy

Gut Microbiome Modulation by Short-Term Polyherbal Formulation Add-On to Metformin Therapy in Type 2 Diabetes Patients

Monta Briviba, Latvian Biomedical Research and Study Centre, Latvia

Semen Microbiota and Host Interactions: Implications for the Development or Prevention of Male Infertility **Monika Fraczek**, Polish Academy of Sciences, Poland

Identification of Urinary Bacterial Genes as Biomarkers for Non-Invasive Diagnosis of Renal Lupus *Virginia Perez-Carrasco*, *GENYO*, *Pfizer - Universidad de Granada - Junta de Andalucía*, *Spain*

The Application of High-Resolution Nuclear Magnetic Resonance (HR NMR) in Metabolomic Analyses of Meconium and Stool in Newborns - The Mabel Project: A Preliminary Study *Gianfranco Picone*, *University of Bologna, Italy*

17h25 Targeting Microbiota 2025 Concluding Remarks

17h35 Targeting Microbiota 2025 Awards

17h40 End of Targeting Microbiota 2025

