

International Society of Microbiota

TARGETING MICROBIOTA



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The University of Tokyo, Japan



Tokyo Microbiota 2026 Speakers



Opening Remarks

Hiroshi Ohno, President of Tokyo RIKEN-ISM
RIKEN Center for Integrative Medical Sciences,
Japan



Oral-to-Gut Bacterial Translocation in Cardiovascular Diseases

Yoshikazu Nakaoka, National Cerebral and
Cardiovascular Center Research Institute, Japan



From Quorum-Sensing-Driven Pathogenesis to Microbiome: Targeted Therapies in Atopic Dermatitis

Yumi Matsuoka, The University of Osaka, Japan



Microbiota-Metabolite Control of Cardiac Injury and Repair

Patrick C.H. Hsieh, Institute of Biomedical Sciences,
Academia Sinica, Taiwan



Single-Cell Visualization and Australia's Human Microbiome Biobank: New Tools for Strain-Level Microbiome Science

Gene Tyson, Queensland University of Technology,
Australia



Rapid, Single-Cell-Precision Profiling for Probiotic Quality and Source-Tracking

Jian Xu, Qingdao Institute of BioEnergy and
Bioprocess Technology, China



The Mitochondria-Microbiota dialogue : Impact on Health

Yuma Yamada, Hokkaido University, Japan



Strain and Function-Resolved Metagenomics to Identify Microbial Drivers of Chronic Disease

Wataru Suda, RIKEN Center for Integrative Medical
Sciences, Japan



Development of Smart Biodelivery Systems for Personalized Disease Treatment Based on the Gut Microbiome

GwangPyo Ko, Seoul National University, Korea



Can IgA Reprogram the Human Gut Microbiota in Inflammatory Bowel Disease?

Reiko Shinkura, The University of Tokyo, Japan



When Synapses Shape the Microbiome: Decoding the Gut-Brain Axis in Autism

Elisa Hill-Yardin, RMIT University, Australia



Microbial Metabolites as Drivers of Gastric Mucosal Defense

Naoko Satoh-Takayama
RIKEN Center for Integrative Medical Sciences, Japan



The Microbiota-Muscle Axis in Aging: How Trimethylamine N-Oxide (TMAO) Remodels Mitochondria and Promotes Sarcopenia

Ippei Shimizu, National Cerebral and Cardiovascular



From Strain Diversity to Mobile Element Dynamics in Human Microbiomes with Single-Cell Genomics

Masahito Hosokawa, Waseda University, Japan



Living Probiotics, Microbial Metabolites, and Mitochondrial Resilience: A Pathway to Healthy Aging

Dongryeol Ryu, Gwangju Institute of Science and
Technology, Korea



Carotenoid Metabolism Regulates the Microbiota-Mitochondria Axis: From Diet to Single-Cell Heterogeneity

Dingbo Lin, Oklahoma State University, USA



Precision Microbiome Therapeutics to Enhance Cancer Immunotherapy

Sin-Hyeog Im, Pohang University of Science and
Technology, Korea

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