

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



### Trimethylamine N-Oxide (TMAO) Increases with Age in Circulation and Promotes Sarcopenia

**Ippei Shimizu**, National Cerebral and Cardiovascular  
Center Research Institute, Japan



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

**Dingbo Lin**, Oklahoma State University, USA



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

**Wataru Suda**, RIKEN Center for Integrative Medical  
Sciences, Japan



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

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



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

**Masahito Hosokawa**, Waseda University, Japan



### 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



### Microbiota-Metabolite Control of Cardiac Injury and Repair

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



### Microbial Metabolites as Drivers of Gastric Mucosal Defense

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



### Precision Microbiome Therapeutics to Enhance Cancer Immunotherapy

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



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

**GwangPyo Ko**, Seoul National University, Korea



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

**Gene Tyson**, Queensland University of Technology,  
Australia



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

**Dongryeol Ryu**, Gwangju Institute of Science and  
Technology, Korea

