



The 2nd symposium on Experimental science of non-model microorganisms

July 14 (Tue), 2026
Institute of Low Temperature Science, Lecture Room (215)

- 09:30 Tomohiro Watanabe** – ILTS, Hokkaido University
Opening remarks
- 09:45 Jan Schuller** – SYNMIKRO, Philipps-University Marburg
Structural and mechanistic insights into the bioenergetic machinery of methanogenic archaea
- 10:30 Kazumori Mise** – ILTS, Hokkaido University
Meta-analysis of metatranscriptomic datasets with a focus on methanogenesis-related genes
- 11:00 Shingo Kato** – BRC-JCM, RIKEN
Challenges in cultivating microbial dark matter
- 11:30 *Lunch meeting*** (T. Watanabe, S. Murai, N. Yamauchi, P. Just)
Discussion about microbial sulfur cycle
- 12:45 Ryouichi Tanaka** – ILTS, Hokkaido University
Staying green in winter: molecular mechanisms underlying photosynthetic regulation in evergreen plants
- 13:30 Sandra Schuller** – SYNMIKRO, Philipps-University Marburg
The value of anaerobic structural biology for photosynthetic research
- 14:00 Yang Zitong, Atsushi Takabayashi** – ILTS, Hokkaido University
From gel band to grid: Cryo-EM of native protein complexes recovered from CN-PAGE
- 14:30 *Break***
- 15:00 Seigo Shima** – Max Planck Institute for Terrestrial Microbiology
The paradigm shifts in Hdr research: From early discoveries to megacomplexes
- 15:45 Fidel Ramírez-Amador** – SYNMIKRO, Philipps-University Marburg
The sulfur-oxidizing Hdr and structural diversification of Hdr systems
- 16:15 Yueran Zhao** – ILTS, Hokkaido University
Proposing a putative protein megacomplex coupling CO₂ reduction with flavin-based electron bifurcation from a sulfur-disproportionating bacterium
- 16:45 Tomás Páscoa** – SYNMIKRO, Philipps-University Marburg
Cryo-electron tomography reveals the physiological electron acceptor of class II benzoyl-CoA reductase
- 18:00 *Networking discussion***