

Multidisciplinary English session :  
Microbial ecology, Fundamentals and  
Applications

Oct 30 (wed) 13:15 -16:00

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Rm.ヒマワリ

## **Multidisciplinary English session : Microbial ecology, Fundamentals and Applications**

### **Abstract**

JSME Committee for the Promotion of Diversity and Career Development is delighted to host the third Multidisciplinary English session at the 37th JSME Annual Meeting. This session aims to foster scientific discussions in English within JSME meetings and to provide a new forum for a diverse community associated with microbial ecology, including those who did not participate in the JSME activities (especially non-Japanese speakers). Outstanding presentations by students and postdoctoral researchers will be awarded by the JSME Committee for the Promotion of Diversity and Career Development. Additionally, Dr. Kasthuri Venkateswaran from NASA Jet Propulsion Laboratory is scheduled to give a special lecture in this session.

### **Convenor**

・ Yukihiro Kinjo : Okinawa International University

### **Program**

13:15- **(Special lecture) Exploring Microbial Dynamics in Space: A Microbial Ecologist Perspective**

Kasthuri Venkateswaran (NASA Jet Propulsion Laboratory, California Institute of Technology, USA (Retired), Dept. of Space Studies, University of North Dakota, USA)

13:40- **Elucidation of taxonomic and ecological characteristics of marine *Chloroflexi* based on large-scale metagenomics**

\*Chunqi Jiang (1), Yosuke Nishimura (2), Susumu Yoshizawa (1)(3)  
((1) AORI, UTokyo, (2) CeBN, JAMSTEC, (3) GSFS, UTokyo)

13:52- **The ultrahigh-affinity transport proteins of SAR11 marine bacteria**

\*Ben E. Clifton (1), Uria Alcolombri (2), Gen-Ichiro Uechi (1), Colin J. Jackson (3), Paola Laurino (1)(4)  
((1) Okinawa Institute of Science and Technology, (2) Hebrew University of Jerusalem, (3) Australian National University, (4) Osaka University)

- 14:04- **Isolation of a novel soil ultramicrobacterium from the rarely cultured *Verrucomicrobiota* phylum**  
\*Md. Samiul Islam (1)(2), Kyosuke Yamamoto (2), Naoki Morita (1)(2), Wataru Kitagawa (1)(2), Isao Yumoto (1)(2), Souichiro Kato (1)(2), Ryosuke Nakai (2), Kensuke Igarashi (2)  
((1) Hokkaido University, (2) AIST)
- 14:16- **Novel and diverse microbiomes in the Japanese subsurface**  
\*Yu Sato (1), Yu Nakajima (2, 3), Satoshi Ohkubo (4), Miho Hirai (3), Kenji Okano (5), Hiroyuki Kimura (6), Kohsuke Honda (7, 8), Masaru K. Nobu (3), Hideyuki Tamaki (9), Ken Takai (3)  
((1) RC-TMR, Yamaguchi Univ., (2) MRU, JAMSTEC, (3) X-STAR, JAMSTEC, (4) Grad. Sch. Life Sci., Tohoku Univ., (5) Facul. Chem. Mat. Bioeng., Kansai Univ., (6) RI-GST, Shizuoka Univ., (7) OTRI, Osaka Univ., (8) ICB, Osaka Univ., (9) BRI, AIST)
- 14:28- **Antagonistic and Plant Growth-Promoting Bacteria Isolated from Dam-Dredged Sediment as Biocontrol Agents Against *Ralstonia pseudosolanacearum***  
\*Chanchao Chem (1), Tsukasa Ito (1)  
((1) Gunma University)
- 14:40- **Functional Analysis of Microbial Isolates for Crop Improvement and Disease Mitigation**  
\*Ghazaleh Eslamloo (1), Tsukasa Ito (1)  
((1) Gunma University)
- 14:52- ***Pediococcus acidilactici* CH4M57 enhances  $\gamma$ -aminobutyric acid formation in a fermented soybean food**  
\*Young Hun Jin (1), Jae-Hyung Mah (1)  
((1) Korea University)
- 15:04- **Simultaneous control of tyramine and  $\gamma$ -aminobutyric acid content in a fermented soybean food using functional bacteria**  
\*Jong Hyoung Hong (1), Jae-Hyung Mah (1)  
((1) Korea University)
- 15:16- **Comparative study of new designed primer for the community analysis of 2-MIB producing *Pseudanabaena* spp. in Lake Ogawara**

\*Mega Asri Risqiana (1), Kazunori Shizuka (2), Nagamitsu Maie (3), Natsuko Nakayama (4), Masao Sakai (5), Makoto Ikenaga (5)  
((1) Graduate School of Agriculture, Forestry and Fisheries, Kagoshima University, (2) Inland Water Fishery Research Institute, Aomori Prefectural Industrial Technology Research Center, (3) School of Veterinary Medicine, Kitasato University, (4) National Research Institute of Fisheries and Environment of Inland Sea, Fisheries Research Agency, (5) Research Field in Agriculture, Fisheries and Veterinary Medicine Area, Kagoshima University)

15:28- **Exploring the Microbial Communities of Shikine-jima Hot Springs through Metagenomics**

\*Masaru Sanari (1)(2), Akito Shima (1)(3), Olha Sur (1), Shigeki Sawayama (2), Satoshi Nakgawa (2)(4), Filip Husnik (1)  
((1) ECBSU, OIST, (2) Grad. Sch. of Agri., Univ. Kyoto, (3) Kyushu University, (4) X-star, JAMSTEC)

15:40- **Analysis of *Alcanivorax borkumensis* Biofilm on Binary oil mixtures**

\*Rei Shimizu (1), Zhao Shufeng (1), Andrew S. Utada (2)  
((1) Grad. Sch. of Sci. and Tech., Univ. of Tsukuba, (2) Institute of Life and Environmental Sciences, Univ. of Tsukuba)

15:52- **New Mollicutes with reduced genomes discovered from coral metagenomes**

\*Akito Shima (1)(2), Yumiko Masukagami (1), Maria Eduarda Alves dos Santos (1), Jinyeong Choi (1), Filip Husnik (1)  
((1) OIST, (2) Kyushu University)