

[Workshop 5]

Perspectives of Metagenomics in Agricultural Research

Conveners: Seiya Tsushima and Takeshi Fujii

■ October 6 (Tue) 9:00 – 17:00, October 7 (Wed) 9:00–12:00

■ Epochal Tsukuba, Convention Hall 300

■ Language: English

■ Program

October 6 (Tue)

W5-01	09:00–09:30	Towards Global Understanding of Crop-Associated Microbial Communities: Community Shifts in Soybean-Associated Microbes by Host Nodulation Genotypes and Nitrogen Applications	Kiwamu Minamisawa, Tohoku University, Japan
W5-02	09:30–10:00	Multiple Approaches to Identify Key Players in Denitrification in Rice Paddy Soil	Keishi Senoo, The University of Tokyo, Japan
W5-03	10:00–10:30	Structure and Activity of Bacterial and Archaeal Community Inhabiting Rice Roots and Rhizosphere	Yahai Lu, China Agricultural University, China
	10:30–10:40	Break	
W5-04	10:40–11:10	Studies of Diversity and Functions of Soil Microbes and Nematodes in NIAES Using Nucleic Acids Extracted from Soil	Takeshi Fujii, National Institute for Agro-Environmental Sciences, Japan
W5-05	11:10–11:40	The Distribution of TonB-Dependent Receptors in Nitrogen-fixing Nodulating Bacteria	Boon Leong Lim, University of Hong Kong, China
W5-06	11:40–12:10	The Metagenomics of Disease-Suppressive Soils	Jan Dirk van Elsas, University of Groningen, The Netherlands
	12:10–13:30	Lunch	
W5-07	13:30–14:00	Metagenome analysis using a comprehensive microarray, GioChip	Jizhong Zhou, University of Oklahoma, USA
W5-08	14:00–14:30	Functional Profiling of the Human Gut Microbiome by Metagenomics	Masahira Hattori, The University of Tokyo, Japan
	14:30–15:30	Poster Session	
W5-09	15:30–16:00	Metagenomic Analysis on the Rhizosphere Soil Microbiome	Takuro Shinano, National Agricultural Research Center for Hokkaido Region, Japan
W5-10	16:00–16:30	<i>TerraGenome</i> : An International Public Consortium for the Complete Sequencing of a Reference Soil Metagenome	Pascal Simonet, Ecole Centrale de Lyon, France
W5-11	16:30–17:00	Pyrosequencing enumerates and contrasts soil microbial diversity	Eric W. Triplett, University of Florida, USA

October 7 (Wed)

W5-12	09:00-09:30	Stable in Community Structure, but Variable in Metabolic Activity of Methanogen in Paddy Field Soil	Takeshi Watanabe, Nagoya University, Japan
W5-13	09:30-10:00	Genetic Analysis of Early Soil Ecosystem: Thinking the Microbial Community and Metabolisms of the Miyake-Jma 2000-y Volcanic Deposit	Hiroyuki Ohta, Ibaraki University, Japan
	10:00-10:20	Break	
W5-14	10:20-10:50	Bacterial genes specifically induced in soil environment	Masataka Tsuda, Tohoku University, Japan
W5-15	10:50-11:20	Gene expression of a PCB degrading bacterium in soil	Masao Fukuda, Nagaoka University of Technology, Japan
	11:20-12:00	General Discussion	