

## Poster Session

## ■ Presentation Core-time [ October 6 (Tue), Room 101]

Workshop 1: 14:50 – 15:40

Workshop 2: 15:00 – 15:45

Workshop 3: 14:50 – 15:40

Workshop 4: 14:30 – 15:30

Workshop 5: 14:30 – 15:30

## ■ Poster Presentations

Poster No.	Title
<b>Workshop 1: Development of Phyto-technology for Decreasing Heavy Metal in Food</b>	
P1-01	Potential for Phytoextraction by High-Cd-Accumulating Rice in Low-Cadmium-polluted Upland Fields Converted from Paddy Fields Toshimitsu Honma, et. al., Niigata Agricultural Research Institute, Japan
P1-02	Evaluation of chemical and phyto-extractions of Cd from soil, a case study using the paddy-field soil with a high pH Hidenori Yaginuma, et.al., Tohoku University, Japan
P1-03	Cadmium Accumulation and Root Morphology in Seedlings of Japanese Wheat Cultivars Differing in Grain Cadmium Concentration Katashi Kubo, et.al., National Agricultural Research Center for Kyushu Okinawa Region, Japan
P1-04	Possible role of root cell wall properties in heavy metal uptake in hyperaccumulator plant species Mani Rajkumar, et.al., Kobe University, Japan
P1-05	Effect of nitrogen supplement application on soybean seed cadmium concentration Megumi Sugiyama, National Institute for Agro-Environmental Sciences, Japan
P1-06	The Effect of Changes in pH and EC caused by Fertilizer on the Cadmium Solubility in Soil Ikuko Akahane, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-07	Cadmium uptake of <i>Arabidopsis halleri</i> ssp. <i>Gemmifera</i> is affected by not only cadmium content in soil but also two factors, i.e. pH and zinc concentration in soil Yuichi Ishikawa, et.al., Akita Prefectural University, Japan
P1-08	Possibility of increasing plant availability of heavy metals by soil sterilization Aomi Suda, et.al., University of Tsukuba, Japan
P1-09	Can earthworm activity change Cu bioavailability on freshly or long-term polluted soils? Yoshikazu Fujii, et.al., National Institute for Agro-Environmental Science, Japan
P1-10	Comparison of Cd distribution in root tissues of <i>Solanum</i> and <i>Glycin max</i> : species that have different abilities to transport Cd from the root to the shoot Noriko Yamaguchi, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-11	Speciation and varietal difference of Cadmium in the Phloem Sap from Rice Plants ( <i>Oryza sativa</i> L. ) Mariyo Kato, et.al., The University of Tokyo, Japan
P1-12	Xylem and Phloem Transport of Cd, Zn, and Fe into the Grains of Rice Plants ( <i>Oryza sativa</i> L. ) Grown in a Continuously Flooded Cd-Contaminated Soil Tadakatsu Yoneyama, et.al., The University of Tokyo, Japan
P1-13	A Noninvasive Monitoring System of Cadmium Uptake by Intact Plants using the Radioisotope <sup>107</sup> Cd Nobuo Suzui, et.al., Japan Atomic Energy Agency, Japan
P1-14	Characterization of cadmium absorption and transport in soybean plant using radioisotopes <sup>107</sup> Cd and <sup>109</sup> Cd Sayuri Ito, et.al., Japan Atomic Energy Agency, Japan
P1-15	Glutathione, Administered to the Roots, Reduce Cd accumulation in the Shoots of Oilseed Rape Plants Shin-ichi Nakamura, et.al., Akita Prefectural University, Japan
P1-16	Cloning and Characterization of OsFCT1, a metal transporter from rice Ryuichi Takahashi, et.al., The University of Tokyo, Japan
P1-17	Heavy Metal resistance of plants transformed with MRP-type ABC transporters of budding yeast Sangwoo Kim, et.al., POSTEC, Korea
P1-18	Genes that Confer Heavy Metal Tolerance to Plants Jiyoung Park, et.al., POSTEC, Korea
P1-19	Simple Measurement of Cadmium Concentrations in Spinach and Soil by Immunochromatography Kaoru Abe, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-20	Countermeasures against cadmium contamination of agricultural soil in Japan Tomohito Arao, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-21	History and Studies of Arsenic Contamination in Soils and Crops in Japan Yuji Maejima, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-22	Analysis of arsenic absorption and metabolism in rice cultivars Masato Kuramata, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-23	Inhibitory effect of iron-bearing materials on soil As dissolution analyzed by iron stable isotope Tomoyuki Makino, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-24	Determination of aromatic arsenicals related to chemical warfare agents in rice and soil Koji Baba, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-25	Adsorption of Aromatic Arsenicals onto Japanese Agricultural Soils Yuji Maejima, et.al., National Institute for Agro-Environmental Sciences, Japan

P1-26	Biogeochemical changes and rice uptake of aromatic arsenicals in soil contaminated by diphenylarsinic acid (DPAA) Tomohito Arao, et.al., National Institute for Agro-Environmental Sciences, Japan
P1-27	Pattern of heavy metal content at different growth stages of three leafy vegetables Habib M. Naser, et.al., Bangladesh Agricultural Research Institute, Bangladesh
<b>Workshop 2: Crop Production under Heat Stress: Monitoring, Impact Assessment and Adaptation</b>	
P2-01	Recent Monsoon Rainfall Dynamics and Productivity of Basmati Rice in Haryana State of India Surender Singh, et.al., CCS Haryana Agricultural University, India
P2-02	Identifying Heat-tolerant Rice Genebank Accessions Edilberto D. Redona, Marselino A. Laza, et.al., International Rice Research Institute, Philippines
P2-03	Effects of High Night Temperature and Plant Growth Regulators on U.S. Rice ( <i>Oryza sativa</i> subsp. japonica) Productivity Abdul Razack Mohammed, et.al., Texas AgriLife Research and Extension Center, USA
P2-04	Modeling Dynamic Rice Cropping Calendar Affected by Flooding, Salinity Intrusion and Monsoon Rains in the Mekong River Delta, Vietnam Kotera Akihiko, et.al., National Institute for Agro-Environmental Sciences, Japan
P2-05	Crop-meteorological Database (MeteoCrop DB) for a Climate Change Study and Its Application to the Extreme Weather Effects on Rice Tsuneo Kuwagata, et.al., National Institute for Agro-Environmental Sciences, Japan
P2-06	Response of Rice to Changing Climatic Condition: (I) Genotypic Variation in Growth Responses to Elevated Temperature Estela M. Pasuquin, et.al., International Rice Research Institute, Philippines
P2-07	Response of Rice to Changing Climatic Condition: (II) Genotypic Variation in Growth Responses to Vapor Pressure Deficit Estela M. Pasuquin, et.al., International Rice Research Institute, Philippines
P2-08	High Nocturnal Temperature Effects on Growth and Gas Exchange Rates during the Vegetative Stage of Rice Ma. Rebecca C. Laza, et.al., International Rice Research Institute, Philippines
P2-09	Microbial Biomass and Activities in a Japanese Paddy Soil with Differences in Atmospheric CO <sub>2</sub> Enrichment, Soil/Water Warming and Rice Cultivars Kazuyuki Inubushi, et.al., Chiba University, Japan
P2-10	A Biogeochemistry Model Linking Rice Growth and GHG Emissions from Rice Fields under Varying Atmospheric CO <sub>2</sub> Tamon Fumoto, et.al., National Institute for Agro-Environmental Sciences, Japan
P2-11	Estimation of Saturated Area in Northeast Thailand Using Large-scale Water Balance Model Yasushi Ishigooka, et.al., National Institute for Agro-Environmental Sciences, Japan
P2-12	Vulnerability to Climate Change in Sri Lanka: Adaptation Strategies and Layers of Resilience Frank Niranjana, Sri Lanka Council for Agricultural Research Policy, Sri Lanka

<b>Workshop 3: Survey of Plant Natural Resources and Isolation of Allelochemicals in Monsoon Asia</b>	
P3-01	Induction of Systemic Acquired Resistance in the Cucumber Plant by Extracts from Rakkyo ( <i>Allium chinense</i> ) Hidehiro Inagaki, et.al., Shizuoka Prefectural Research Institute of Agriculture and Forestry, Japan
P3-02	Herbicidal and Antifungal Effects of Volatile Allelochemicals in Spices and Herbs Mami Sugano, et.al., National Institute for Agro-Environmental Sciences, Japan
P3-03	A plant growth inhibitor from <i>Bletilla striata</i> Emi Sakuno, et.al., National Institute for Agro-Environmental Sciences, Japan
P3-04	Total Activity of a Variety of Plants: A Search for Potential Sources of New Allelochemical Tomoko Takemura, et.al., National Institute for Agro-Environmental Sciences, Japan
P3-05	Evaluation of Allelopathic Activity by bioassay and proposal of "Allelopathy Hypothesis" Yoshiharu Fujii, et.al., National Institute for Agro-Environmental Sciences, Japan
<b>Workshop 4: Biodiversity and Agro-ecosystem in Rice Paddy Landscape in Monsoon Asia</b>	
P4-01	Outline of the Research Project "Selection of Functional Biodiversity Indicators and Development of Assessment Methods" in Japan. 1. Analysis of Agrobiodiversity at the crop field level Ishizue Adachi, et.al., National Agricultural Research Center for Western Region, Japan
P4-02	Outline of the Research Project "Selection of Functional Biodiversity Indicators and Development of Assessment Methods" in Japan. 2. Analysis of Agrobiodiversity at a landscape level Koichi Tanaka, National Institute for Agro-Environmental Sciences, Japan
P4-03	Selection of indicator organisms agrobiodiversity of in paddy field in the Hokuriku region, Japan Testuo Yabu, et.al., Ishikawa Agriculture Research Center, Japan
P4-04	Analysis of Environmental Factors Influencing Functional Biodiversity in Rice Paddies Takatoshi Ueno, Kyushu University, Japan
P4-05	Effects of organic cultivation practices on arthropod assemblages in paddy fields in Tochigi prefecture, Japan Kenji Hamasaki, et.al., National Institute for Agro-Environmental Sciences, Japan
P4-06	Effects of Chinese milk vetch ( <i>Astragalus sinicus</i> L.) cultivation on functional agrobiodiversity in rice paddy fields Kazuo Matsuno, et.al., Shizuoka Prefectural Research Institute of Agriculture and Forestry, Japan
P4-07	Effects of cultivation methods and field water conditions on seed bank and infestation of weeds in Cambodian paddy fields Akihiko Kamoshita, et.al., The University of Tokyo, Japan

P4-08	Defference of Weed Diversity Adapted to Water Condition in Komping Puoy Irrigation Rehabilitation Area, Cambodia
	Yuji Araki, et.al., The University of Tokyo, Japan
P4-09	The function of the earthworms and enchytraeids (Oligochaeta) feeding activity in the nutrient cycling in agro-ecosystem
	Mana Nozaki, et.al., National Institute for Agro-Environmental Sciences, Japan
P4-10	Landform condition and land improvement affect floristic compositon in rice paddy fields, central Japan
	Susumu Yamada, et.al., National Institute for Agro-Environmental Sciences, Japan
P4-11	Scale-dependent Aggregative Responses of Intermediate Egrets to their Prey Species
	Naoki Katayama, et.al., The University of Tokyo, Japan
P4-12	The Relationship between Soil Chemical Properties and Biota Including Plants and Small Arthropods at Levee around Agricultural Fields in Northern Kanto, Japan
	Sayaka Morita, et.al., National Institute for Agro-Environmental Sciences, Japan
Workshop 5: Perspectives of Metagenomics in Agricultural Research	
P5-01	Efficient Elimination of Humic Acids from RNA Extracted from Soil for Analysis of Gene Expression
	Yong Wang, et.al., National Institute for Agro-Environmental Sciences, Japan
P5-02	An Improved Method to Obtain Microbial DNA from the Rhizosphere Soil for Metagenome Analysis
	Ysuke Unno, et.al., National Agricultural and Food Research Organization, Japan
P5-03	Temporal Shifts in Diversity and Quantity of Nitrite Reductase Genes, <i>nirS</i> and <i>nirK</i> , in a Rice Paddy Field Soil
	Megumi Yoshida, et.al., The University of Tokyo, Japan
P5-04	Molecular Ecological Analysis of Microbial Assemblage Involving Nitrogen Fixation in Recent Miyake-Jima Volcanic Deposits
	Yoshinori Sato, et.al., Ibaraki University College of Agriculture, Japan
P5-05	Retrieving a Full-length of Functional Genes from Soil by PCR-DGGE and Metagenome Walking
	Sho Morimoto, et.al., National Institute for Agro-Environmental Sciences, Japan
P5-06	Method of an Advanced T-RFLP Profiling for Monitoring the Community Structure of Soil Microbes
	Tomoyasu Nishizawa, et.al., Ibaraki University College of Agriculture, Japan
P5-07	Microbial Populations Responding to Denitrifications-Inductive Conditions in Rice Paddy Soil, As Revealed by Comparative 16S rRNA Gene Analysis
	Satoshi Ishii, et.al., The University of Tokyo, Japan
P5-08	Phylogenetic and Functional Diversity of Denitrifying Bacteria Isolated from Rice Paddy Soil
	Kanako Tago, et.al., The University of Tokyo, Japan
P5-09	MALDI-TOF/MS-based Phylogenic Analysis of <i>Methylobacterium</i> Species Collected from Plant Samples
	Akio Tani, et.al., Okayama University, Japan
P5-10	Development of a Bacterial Cell Enrichment Method and its Application to the Microbial Community Analysis in Phytosphere toward to the Metagenomics of Microbial Symbionts in Plants
	Seishi Ikeda, et.al., Tohoku University, Japan
P5-11	Microbial Diversity in Rice Phytosphere Assessed by Clone Library Analysis of 16S rRNA and <i>nifH</i> Genes in Conjunction with a Bacterial Cell Enrichment Method
	Seishi Ikeda, et.al., Tohoku University, Japan
P5-12	Suppressed -Priming PCR, a Novel Concept of DNA Quantification Based on PCR Kinetics
	Shuhei Takemoto, et.al., National Institute for Agro-Environmental Sciences, Japan
P5-13	"eDNA Project": Development of Soil Biodeversity Analysis System with Environmental DNA
	Seiya Tsushima, et.al., National Institute for Agro-Environmental Sciences, Japan
P5-14	Genomic Comparison of <i>Bradyrhizobium Japonicum</i> Strains with Different Symbiotic N <sub>2</sub> -fixing Capabilities: A QTL Approach for N <sub>2</sub> -fixing Efficiency in Rhizobia
	Manabu Itakura, et.al., Tohoku University, Japan
P5-15	Uneven Distribution of <i>nosZ</i> Genotype in <i>Bradyrhizobium Japonicum</i> Populations Indigenous to Field soils in Japan
	Manabu Itakura, et.al., Tohoku University, Japan
P5-16	A novel Detection Method for Plant Parasitic Nematodes with Different Life Stages Using Soil Compaction and Real-time PCR
	Keita Goto, et.al., Tokyo University of Agriculture and Technology, Japan