

PROGRAM

Mon 20 September 2010	
10:00 - 18:00	Registration (Poster room open)
13:00 - 15:00	Opening lecture: <i>Chair - Toshiki Uchiumi</i>
	Kiwamu Minamisawa: Welcome to 1st APMNF where interdisciplinary sciences of plant-microbe interactions start towards sustainable agriculture and environmental conservation
	Masayoshi Kawaguchi: HAR1 and KLAVIER mediated CLE peptide signaling in long-distance control of nodulation
15:00 - 18:00	Session 1 Plant-Microbe Signaling: <i>Chair - Makoto Hayashi, Masayoshi Kawaguchi, Yuki Ichinose and Hirofumi Yoshioka</i>
15:10 - 15:40	Ken Shirasu: Structural and Functional Analysis of the effector-triggered immunity in plants
15:40 - 16:10	Hanae Kaku: Two types of LysM receptors, CEBiP and CERK1/OsCERK1, play critical roles for plant innate immunity
16:10 - 16:40	Makoto Hayashi: Signaling in legume symbiosis
16:40 - 17:00	Break
17:00 - 17:20	Chang-Fu Tian: A nodule signal triggers a cAMP-regulatory cascade in <i>Sinorhizobium meliloti</i> that restricts bacterial infection
17:20 - 17:40	Katsuharu Saito: Identification of purple acid phosphatase gene up-regulated in arbuscular mycorrhizal roots of <i>Lotus japonicus</i>
17:40 - 18:00	Akinori Kiba: A sec14P phospholipids transfer protein regulates plant immunity in <i>Nicotiana</i> plants in response to phytopathogenic bacteria
19:00 - 21:00	Welcome reception

Tue 21 September 2010	
9:00 - 19:00	Registration (Poster room open)
9:00 - 12:00	Session 2 Bioresource and Genomics: Chair – Ryo Akashi, Shusei Sato and Takakazu Kaneko
9:10 - 9:40	SukHa Lee: Domestication history of soybean crop
9:40 - 10:10	Shusei Sato: Information and material resources derived from the genome projects of <i>Lotus japonicus</i> and <i>Mesorhizobium loti</i>
10:10 - 10:40	Niels Sandal: Towards identification of the <i>spontaneous nodule formation 4 (snf4)</i> gene of <i>Lotus japonicus</i> through map based cloning and whole genome sequencing
10:40 - 11:00	Break
11:00 - 11:30	Masatsugu Hashiguchi: Introduction and utilization of Legume Base in <i>Lotus</i> and <i>Glycine</i> bioresources
11:30 - 12:00	Wen-Feng Chen: Phylogeny and biogeography of rhizobia associated with <i>Caragana</i> in different regions of China
12:00 - 13:30	Lunch
13:30 - 17:00	Session 3 Non-leguminous associations: Chair – Kiwamu Minamisawa and Shingo Hata
13:40 - 14:05	Shingo Hata: Arbuscular mycorrhiza-inducible phosphate and ammonium transporters
14:05 - 14:25	Tatsu Ezawa: Mycorrhizal formation enhances <i>in planta nifH</i> expression of diazotrophic endophytes and N acquisition in a pioneer grass species <i>Miscanthus sinensis</i> grown in acid sulfate soil
14:25 - 14:45	Pattarawadee Sumthong Nakmee: Arbuscular Mycorrhizal fungi combination with Phosphate fertilizer levels enhanced growth and nutrients uptake of Sesame (<i>Sesamum indicum</i> L.)
14:45 - 15:05	Ken-ichi Kucho: Symbiotic transcriptome of the nitrogen-fixing actinobacterium <i>Frankia</i>
15:05 - 15:30	Break
15:30 - 15:55	Seishi Ikeda: Community shifts of soybean-associated microbes by host nodulation phenotypes and nitrogen applications
15:55 - 16:15	Madhaiyan Munusamy: Methylobacterium in Plant Ecosystem – Diversity and their Potential Applications
16:15 - 16:35	Amir H. Ghazali: Endophytic migration and <i>in-planta</i> nitrogen fixation by green fluorescent protein (GFP)-tagged <i>Enterobacter asburiae</i> strain USML2 in rice seedlings
16:35 - 16:55	Neung Teaumroong: Selection, characterization and application of root-associative PGPR for crops: Case study in Thailand
17:00 - 19:00	Poster Session 1 ODD-number: Chair – Neung Teaumroong
19:00 - 20:30	Banquet (BBQ)

Wed 22 September 2010

9:00 - 12:00 **Registration**
(Poster room open)

9:00 - 11:15 **Session 4**
Nitrogen Fixation and Nitrogen Cycles: *Chair – Kazuhiko Saeki and Senoo Keishi*

9:05 - 9:30 **Yuichi Fujita:** A common architecture between protochlorophyllide reductase and nitrogenase

9:30 - 9:55 **Min Lin:** Comprehensive genome and transcriptome analysis of *Pseudomonas stutzeri* A1501

9:55 - 10:10 **Satoshi Kamiyama:** Behavior of Lime nitrogen in soil in relation to the promotive effect of nodulation and nitrogen fixation of soybean by deep placement

10:10 - 10:25 Break

10:25 - 10:50 **Tatsunori Nakagawa:** Nitrification by archaea and bacteria in rice paddy soils

10:50 - 11:15 **Keishi Senoo:** Denitrifying Microbial Community in Rice Paddy Soil: Key Players Involved in Low N₂O Emission

12:00 - 21:00 **Afternoon Free**
(12:00-13:00 General Meeting of Japanese Society of Plant-Microbe Interactions)

21:00 - **Midnight young scientist session:** *Chair – Nazalan Najimudin and Panlada Tittabutr*

Maryam Nasr Esfahani: Regulation of nitrogen fixation in chickpea nodules by feedback mechanism of nitrogenous compounds and antioxidant system under water stress

Yun-Soo Kim: Caffeine engineered in transgenic plants stimulates the host defense system

Chantra Indananda: Anti-plant pathogenic and plant growth promoting activities of endophytic actinomycetes from selected medicinal plants in the Eastern Botanic Gardens, Thailand

Pongdaj Piromyou: Effect of Plant Growth Promoting Rhizobacteria (PGPR) inoculation on microbial community structure of forage corn cultivation in Thailand

Chieu Van Tran: Indole acetic acid (IAA) synthesis of *Azospirillum lipoferum* strains and their effects on the development of rice roots

Dwi Purno Widekdo: Isolation and Inoculum Production of VAM from Serpentinous Soil in Mandiangin, South Kalimantan

Maw M. Than: Identification and diversity of Myanmar chickpea root nodule bacteria, *Mesorhizobium ciceri*

Salem Djedidi: Phenotypic and phylogenetic characterization of root nodule bacteria associated with *Medicago* species in Japanese soils.

Chandra P Risal: Genetic Diversity and Symbiotic Effectiveness of Native Soybean Bradyrhizobia from different Topographical Regions along the Southern Slopes of Himalaya in Nepal

Dinesh Adhikari: Inter- and intra-specific diversity of indigenous soybean nodule bradyrhizobia as affected by climate and soil pH in Nepalese Himalaya

Thu 23 September 2010	
9:00 - 19:00	Registration (Poster room open)
9:00 - 12:00	Session 5 Legume and Rhizobial Symbiosis: <i>Chair – Norio Suganuma and Toshiki Uchiumi</i>
9:10 - 9:25	William J. Broughton: Rhizobial Control of Legume Nodulation
9:25 - 9:40	Hukam Singh Gehlot: Characterization of rhizobia associated with native legumes of the Thar desert of India
9:40 – 10:05	Kazuhiko Saeki: Rhizobial measures to evade host defense responses
10:05 - 10:20	Christian Staehelin: Symbiotic determinants in the Rhizobium-legume symbiosis
10:20 - 10:40	Break
10:40 - 11:05	Attila Kereszt: Plant peptides govern terminal differentiation of bacteria in symbiosis
11:05 - 11:20	Chi-Te Liu: Dynamic control of the bacteroid differentiation by chromosome partition proteins
11:20 – 11:45	Erik Limpens: Recruitment of an exocytotic pathway for the intracellular accommodation of microbes
12:00 - 13:30	Lunch (APMNF International Committee)
13:30 - 17:00	Session 6 Applications for Sustainable Agriculture and Environments: <i>Chair – Tadashi Yokoyama, Nantakorn Boonkerd and Shotaro Ando</i>
13:40 - 14:00	Nantakorn Boonkerd: History and current situation of rhizobial inoculants in Thailand
14:00 - 14:20	Juliet A. Anarna: Research and development of Bio N biofertilizer for sustainable crop production in the Philippines
14:20 - 14:40	Sukiman Harmastini: Sustainable Biomass Production by Microbial Symbiosis : Case Study of Regreening Program in Indonesia
14:40 - 15:00	Takuji Ohyama: Promotion of Efficient Uses of Biofertilizers for Agriculture
15:00 - 15:20	Shoji Matsumura: Improvement of nitrogen balance in corn production using hairy vetch as a green manure
15:20 - 15:50	Break
15:50 - 16:00	Shotaro Ando: The new significance of N ₂ fixation and PGPR inoculation in low-carbon agriculture
16:00 - 16:15	Hiep Huu Nguyen: Evaluation of nitrogen fixing capacity of Azospirillum and phosphate-solubilizing bacteria on the growth and yield of rice cultivated in in acid sulphate soil
16:15 - 16:25	Tadashi Yokoyama: Plant nutritional and yielding effects of Azospirillum biofertilizers on rice cultivation under Japanese paddy fields and climatic conditions
16:25 - 16:40	Yoshikatsu Murooka: Symbiotic engineering: Bioremediation of heavy metals through leguminous plant and rhizobium with engineered genes
17:00 - 19:00	Poster Session 2 EVEN-number: <i>Chair – Min Lin</i>
19:00 - 20:30	Farewell party <i>Chair – Ryo Akashi</i>

Fri 24 September 2010

9:00 - 10:00 **Closing session:** *Chair – Kiwamu Minamisawa*

10:00 - **Transfer to Miyazaki airport**

Departure