PROGRAM FOR US / JAPAN SEMINAR

-Aug. 15 – Aug. 19 (2006)-

August 15, Tuesday19:30Welcome Dinner in the group
(HANA no MAI; Ryogoku)

August 16, Wednesday

9:30 Welcome Talk

Coordinator

Shigeyuki Tajima Kagawa University

Bacterial genetic and genomic-proteomic approaches to understand the symbiosis. Evolution and horizontal phylogenetic distribution of plant-microbe associations.

10:00 L1-1	The complete genome sequences of two photosynthetic <i>Bradyrhizobium</i> strains.	
	Michael Sadowsky	
	University of Minnesota	
10:30 L1-2	Whole-genome transcriptional analysis of desiccation induced stress in the symbiotic, nitrogen-fixing bacterium <i>Bradyrhizobium japoincum</i> .	
	Eddie J. Cytryn	
	University of Minnesota	
11:00	Coffee break	
11:20 L1-3	Genome variations of soybean bradyrhizobia and symbiotic nitrogen fixation.	
	Kiwamu Minamisawa	
	Tohoku University	
11:50 L1-4	A novel symbiotic gene is required for the synthesis of anionic cyclic beta-glucans in <i>Mesorhizboum loti</i> .	
	Yasunori Kawaharada	
	Tohoku University	
12:10 L1-5	1-5 Expression of 1-aminocyclopropane-1-carboxylic acid deaminase gene requires symbiotic nitrogen-fixing regulator gene <i>nifA2</i> in <i>Mesorhizobium loti</i> .	
	Noriyuki Nukui	
	Nihon University	
12:30	Lunch	
14:00 L1-6	Regulation of heme and iron metabolism in Bradyrhizobium japonicum.	
	Mark R. O'Brian	
	State University of New York at Buffalo	

14:30 L1-7	The symbiotic roles of type III secretion system in Mesorhizobium loti.	
		Kazuhiko Saeki
		Nara Women's University
15:00 L1-8	Varying <i>Rhizobium</i> lipopolysaccharide struthrough interstrain hybrids.	cture and symbiotic capability
		Kenneth Dale Noel
		Marquette University
15:30 L1-9	Phylogentic relatedness and symbiotic prop	perties of Bradyrhizobium
	nodulating on the Asian Vigna species in T	hailand
		Tadashi Yokoyama
		Tokyo Univ. A & T
16:00	Coffee break	
16:20 L1-10	The role of cell-to-cell signaling in the <i>Sinorhizobium meliloti</i> -alfalfa symbiosis.	
	-	Juan E. Gonzalez
		University of Texas at Dallas
16:50 L1-11	Global gene regulation by quorum sensing	in Sinorhizobium meliloti.
		Nataliya Gurich
		University of Texas at Dallas
17:20 L1-12	Characterization and regulation of quorum <i>meliloti</i> .	sensing in Sinorhizobium
		Jennifer L. Morris
		University of Texas at Dallas
18:30	Dinner	
	(Chinese Restaurant, "TO]	TENKO")
	August 17, (Thursday)
9:30 L2-1	Effect of Cytokinin on the Melilotus alba N	on-nodulating. Nod-mycorrhizal
	Mutant. <i>Masym3</i> .	<i>6, 1</i>
		Ann M. Hirsch
		University of California
10:00 L2-2	The class 1 hemoglobin contributes to sym	biotic nitrogen fixation by
	modulation of nitric oxide.	
		Toshiki Uchiumi
		Kagoshima University
10:30 L2-3	Possible role of nitric oxide and nitric oxide <i>Rhizobium</i> –legume symbiosis.	e synthase in the
		Mikiko Abe
		Kagoshima University
10:50	Coffee break	

11:10 L2-4	Role of symbiotic genes in biofilm formation by <i>Sinorhizobium meliloti</i> .	
	Nancy A. Fujishige	
	University of California	
11:40 L2-5	Root nodule formation as a photomorphogenesis event.	
	Akihiro Suzuki	
	Saga University	
12:10 L2-6	Lotus japonicus symbiotic genes required for nitrogen fixation.	
	Norio Suganuma	
	Aichi University of Education	
12:40	Lunch	
	(Lunch box for Bus tour participant)	
13:30	Excursion (Tokyo Bus tour in the group)	
	(Start from the meeting site)	
17:00	Free time (Own choice for dinner and etc.)	
	(Possibly get off the bus on the way to the hotel)	

August 18, Friday

P1-P22

- 9:30 Poster presentation, 2 minutes report for all posters.
- 10:20 Poster session
 - 12:30 Lunch

3) Biochemistry and molecular interactions during symbiotic development.4) Molecular genetics and genomics of two model legumes.

14:00 L3-1 Using genomics to understand legume evolution and advance the study of crop legumes.

Douglas R. Cook

University of California

14:30 L3-2 "Activator" and "Inhibitor" leading to generation and stabilization of symbiotic organ development.

Masayoshi Kawaguchi The University of Tokyo

15:00 L3-3 Symbiotic signaling pathway leading to the intracellular invasion of root nodule bacteria and arbuscular mycorrhizal fungi.

Coffee break

Makoto Hayashi University of Munich

15:50 L3-4	Analysis of host genes governing rhizobial and mycorrhizal symbioses.	
	Mari Banba	
	Natl. Inst. Agrobiol. Sciense	
16:20 L3-5	Nuclear signaling components in root symbiosis.	
	Satoko Yoshida	
	RIKEN/University of Munich	
16:50 L3-6	Medicago truncatula DMI1 required for bacterial and fungal symbiosis in	
	legumes.	
	Brendan K. Riely	
	University of California-Davis	
17:20 L3-7	A sed5-like SNARE is influenced to nodule development in Lotus japonicus	
	Mika Nomura	
	Kagawa University	

18:30Beer Party with light meal
(Beer place near the campus)

August 19, Sataday

5) From model legumes to Soybean and other crop legumes.

9:30 L4-1	Functional genomics of root hair infection by <i>Bradyrhizobium japonicum</i> .	
		Gary Stacey
		University of Missouri
10:00 L4-2	Genetic mapping and characterization of Fix	mutants of Lotus japonicus.
		Yosuke Umehara
		Natl. Inst. Agrobiol. Sci.
10:30 L4-3	Structural and comparative genome analysis of	of <i>Lotus japonicus</i> .
		Shusei Sato
		Kazusa DNA Res. Inst.
11:00	Coffee break	
11:20 L4-4	Identification of new symbiotic players in <i>Me</i> interactions.	<i>dicago truncatula</i> via protein
		Jean-Michel Ané
		University of Wisconsin
11:50 L4-5	Host regulation of plant-microbe mutualism.	
		Shingo Hata
		Kyoto University
12:20	Lunch	
14:00 L4-6	Multiple interacting genes regulate nodule n	umber in <i>M. truncatula</i> .
		Julia Frugoli
		Clemson University

14:30 L4-7	Functional genomics of the soybean endosymbiont, <i>Bradyrhizobium japonicum</i> .	
		William L. Franck
		University of Missouri
15:00 L4-8	Looking for symbiotic origins through the ar non-nodulating legumes.	alysis of nodulating and
		Michelle R. Lum
		University of California LA
15:30 L4-9	A new technology of deep placement of N fe fixation, growth and seed yield of soybean.	ertilizers to promote nitrogen
		Tewari Kaushal
		Niigata University
16:00	Closing Remark	
	Coordinator	Dale K. Noel
		Marquette University
18:00	Farewell Dinner	
	(Restaurant near the meeting s	site)

List of Poster presentation

P-1	Investigation of novel nodulation gene inducer for <i>Mesorhizobium loti</i> secreting from <i>Lotus corniculatus</i> .	
	Katsunori Kojima	
	Tokyo Univ. A. & T.	
P-2	Systematic functional analysis of transcription factors whose expression is induced	
	in the nodulation process of <i>Lotus japonicus</i> .	
	Erika Asamizu	
	Kazusa DNA Res. Inst.	
P-3	Proteome analysis during nodule development of soybean	
	Dao Van Tan	
	Kagawa University	
P-4	Shoot-applied MeJA suppresses root nodulation in Lotus japonicus.	
	Tomomi Nakagawa	
	Nat. Inst. Agrobiol. Sci.	
P-5	klavier (klv), a novel hypernodulation mutant of Lotus japonicus affected in	
	vascular tissue organization, floral induction and floral organ number.	
	Erika Kira-Oka	
	The University of Tokyo	
P-6	<i>LjNSP2</i> , a member of GRAS family genes, acts as a key regulator of nodule initiation in <i>Lotus japonicus</i> .	
	Yasuhiro Murakami	
	The University of Tokyo	
P-7	Characterization of <i>LjSym101</i> that is required for rhizobial infection and nodule organogenesis.	
	Satoshi Shibata	
	Nat. Inst. Agrobiol. Sci.	
P-8	A novel Fix ⁻ symbiotic mutant of <i>Lotus japonicus</i> , <i>Ljsym105</i> , shows impaired	
	development and premature deterioration of nodule infected cells and symbiosomes.	
	Md. Shakhawat Hossain	
	Nat. Inst. Agrobiol. Sci.	
P-9 A novel ankyrin-repeat protein IGN1 is required for functional nitrogen-f		
	Hirotaka Kumagai	
	Nat. Inst. Agrobiol. Sci.	
P-10	Putative role for <i>Lotus japonicus</i> nicotianamine synthase, LjNAS2, gene for symbiotic nitrogen fixation.	
	Tsuneo Hakovama	
	Nat. Inst. Agrobiol. Sci.	
P-11	Expression of hemoglobin gene and generation of nitric oxide as symbiotic and	
	pathogenic responses of Lotus japonicus.	
	Maki Nagata	
	Kagoshima University	

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P-12	Cloning and expression analysis of nitric oxide synthase (NOS) gene in <i>Lotus japonicus</i> .	
	Ke	n-ichi Kucho
	Ka	goshima University
P-13	Function of a class 1 hemoglobin gene from Alnus firm nonsymbiotic tissues	a in symbiotic and
	Fu	yuko Sasakura
	Kas	goshima University
P-14	A nucleoporin is essential for rhizobial and mycorrhiza	al symbiosis.
	No	rihito Kanamori
	Na	tl. Food Res. Inst.
P-15	<i>Lotus japonicus</i> nucleoporin required for both mycorrh	nization and nodulation.
	Ma	sayoshi Kawaguti
	The	e University of Tokyo
P-16	Allocation of photosynthetic products in soybean durin nodule formation.	g the early stages of
	Say	vuri Ito
	Nii	gata University
P-17	 Construction of improved reporter genes for recombinate technology (RIVET). 	ant <i>in vivo</i> expression
	Eri	na Mishima
	Na	ra Women's University
P-18	3 Genetic characterization of <i>bacA</i> homologue, <i>mlr7400</i> , MAFF303099.	, in Mesorhizobium loti
	Jun	pei Maruya
	Na	ra Women's University
P-19	<i>in vitro</i> and <i>in planta</i> regulation of the two catalase ger	nes in Mesorhizobium loti.
	Ma	saki Hanyu
	Na	ra Women's University
P-20	RhizoBase - Rhizobial Genome Information Database.	
	Tak	kakazu Kaneko
	Ka	zusa DNA Res. Inst.
P-21	A large scale analysis of protein-protein interactions in	Mesorhizobium loti.
	Yos	shikazu Shimoda
	Ka	zusa DNA Res. Inst.
P-22	2 Symbiotic plasmid of <i>Rhizobium</i> plays at hide-and-see	k in Agrobacterium.
	Hir	oki Nakatsukasa
	Ka	goshima University