15th International Symposium on Integrated Field Science "Biological Interactions for Sustainable Agriculture"

Sponsor and organizer: Field Science Center, Graduate School of Agricultural Science, Tohoku University

Co-sponsors: International Education and Research Center for Food and Agricultural Immunology (CFAI), Applied Biodiversity Center, Graduate School of Agricultural Science, Tohoku University Research Center for Fungal and Microbial Dynamism, Shinshu University

Date: March 13-15, 2018 Venue: Graduate School of Agricultural Science, Tohoku University (Aobayama campus), Sendai city, Miyagi, Japan

Program

March 13 (10:00 – 17:00)

$11:00\sim$	3 (10.00 - 17.00)	Registration
13:00	Makoto Osada	Welcome address
15.00		
	(Director of Field Scienc	e Center, Tohoku University)
13:10	Masanori Saito	Perspectives of the symposium
	(Field Science Center, To	
Part 1:	Function and manager	ment of soil microorganisms in agro-ecosystems with special
	reference to arbuscular	
13:30	Jan Jansa	Utilization of organic nitrogen by arbuscular mycorrhizal hyphae in
		soil - zooming into the hyphosphere microbiome
	(Institute of Microbiolog	y, Academy of Sciences of the Czech Republic)
14:00	Zakaria Solaiman	Use of biochar for sustainable agriculture (tentative)
	(School of Agriculture and Environment, University of Western Australia)	
14:30	Yoshihiro Kobae	Toward the high-resolution functional analysis of arbuscular
		mycorrhizal symbiosis in field crops
	(NARO Hokkaido Agric.	. Res. Cent.)
15:00		Coffee break & Poster preview
15.00		
15:30		Lightning talk for poster presentation
16:00	Baodong Chen	The role of AM symbiosis in plant adaptation to drought stress
	(Research Center for Eco	p-Environmental Sciences, Chinese Academy of Sciences)
16:30	Katsuharu Saito	Molecular mechanisms underlying P translocation and metabolism
		in arbuscular mycorrhizal fungi.
	(Shinshu University)	
17:00	Akyol Turgut Yigit	Effect of AMF inoculation on the root fungal and bacterial
		communities of bunching onion
	(Graduate School of Life Science, Tohoku University)	

Welcome Reception

March 14 (9:30 - 13:00)

9:30		Poster presentation
Part 2: 1	Frontiers of sustainable	rice production system
10:30	Lixiao Nie	Research progress and the limiting factors of direct seeding rice in central China
	(Huazhong Agricultura)	l University)
11:00	Ryosuke TajimaPhenotyping of root system architecture using root model(Field Science Center, Tohoku University)	
11:30	Sugihiro Ando	Analysis of disease-suppression effect of microorganisms included in nursery soils for organic farming of rice
	(Graduate School of Ag	ricultural Science, Tohoku University)
12:00	Toyoaki Ito	Recovery of tsunami-affected paddy soil using calcium materials for sustainable agriculture
	(Field Science Center, Tohoku University)	
12:30	Masanori Saito	Closing remark

March 15

Field trip (Nature and agriculture around Sendai city, Kawatabi Field Science Center)

Call for poster presentation.

Any poster presentation relating to sustainable agriculture or field science is welcome. Especially, presentation by students is encouraged, even if it is preliminary. Deadline of abstract submission for poster and oral presentations is January 31, 2018.

Contact: Prof. Masanori Saito