Japanese Society of Plant Microbe Interactions (JSPMI)
The 33rd annual meeting

Faculty of Agriculture and Marine Science, Kochi University

August 28-30, 2024

Schedule

Wednesday, August 28	
12:00～	Registration
12:50～13:00	Opening Ceremony
13:00～14:15	Oral Presentation（O1～O5）
14:15～14:30	Break
14:30～15:30	Oral Presentation（O6～O9）
15:30～15:45	Break
15:45～16:45	General Discussion 1 (O1～O9)
16:45～17:00	Break
17:00～17:45	Guest Lecture (Dr. Gary Stacey)
Thursday, August 29	
9:00～10:20	Short Presentation
10:30～11:30	Poster Presentation (odd numbers)
11:30～12:30	Poster Presentation (even numbers)
12:35～13:40	Special Session for Students and Early Carrier Researchers / Committee Meeting
13:50～14:50	General Discussion 2 (P1 – P24)
14:50～15:05	Break
15:05～15:55	General Discussion 3（P25～P42）
15:55～16:10	Break
16:10～16:40	NBRP Lecture (Dr. Takuya Suzaki)
16:40～17:25	Special Lecture（Dr. Yuki Morono）
18:30～20:30	Social Gathering
Friday, August 30	
9:00～10:30	Oral Presentation（O10～O15）
10:30～10:45	Break
10:45～11:25	General Discussion 4（O10～O15）
11:25～11:50	JSPMI 33rd General Meeting & Closing Ceremony

Daily Schedule and Sessions of 33rd JSPMI Annual Meeting

Wednesday, August 28

0:00 p.m. – Registration

0:50 – 1:00 p.m. Opening Ceremony

1:00 – 2:15 p.m. Oral Presentation (5 titles)

O1 Control of infection thread distribution through periodic cytokinin response in *Lotus japonicus* nodule symbiosis
*Takashi Soyano[1,2], Masayoshi Kawaguchi[1,2]
[1]NIBB, [2]SOKENDAI

O2 The role of callose synthase functioning in nodule formation
*Akira Akamatsu[1,2], Nagisa Miyamoto[1], Makoto Hayashi[2], Naoya Takeda[1]
[1]Grad. Sch. of Bio. and Env. Sci. Kwansei gakuin Univ., [2]RIKEN CSRS

O3 Symbiotic control by peptidyl-prolyl *cis/trans* isomerase Cyclophilin A phylogenetically associated with intracellular infection system
*Takashi Goto[1,2], Yasuyuki Kawaharada[3], Masayuki Sugawara[4], Kiwamu Minamisawa[5], Masayoshi Kawaguchi[2,6]
[1]Aarhus Univ., [2]NIBB, [3]Iwate Univ., [4]Obihiro Univ. of Agric. and Vet. Med., [5]Tohoku Univ., [6]SOKENDAI

O4 Exploring of *Lotus japonicus* genes involved in suppression of root nodule symbiosis triggered by rhizobial effectors
*Shun Hashimoto[1], Masaru Bamba[1], Shohei Kusakabe[2], Yusdar Mustamin[1], Mizuki Takasawa[1], Cui Ying[1], Pongdet Piromyou[3], Pongpan Songwattana[3], Panlada Tittabutr[3], Nantakorn Boonkerd[3], Neung Teaumroong[3], Takakazu Kaneko[4], Shin Okazaki[5], Toshiki Uchiumi[6], Hisayuki Mitsui[1], Shusei Sato[1]
[1]Grad. Sch. of Life Sci.Tohoku Univ., [2]Fukushima Agric. Tech. Centre, [3]Suranaree Univ. of Tech., [4]Fac. of Agric. Kyoto Sangyo Univ., [5]Fac. of Agric. Tokyo Univ. of Agric. and Tech., [6]Grad. Sch. of Sci.and Eng.Kagoshima Univ.

O5 Establishment of the root-associated bacterial culture collection of *Lotus japonicus* and its application in analyzing host genotype-dependent interaction
*Yusdar Mustamin[1], Masaru Bamba[1], Johan B. Quilbe[2], Turgut Yigit Akyol[2], Stig U. Andersen[2], Shusei Sato[1]
[1]Graduate School of Life Sciences, Tohoku University, [2]Dept. of Molecular Biology and Genetics, Aarhus University

2:15 – 2:30 p.m. Break

2:30 – 3:30 p.m. Oral Presentation (4 titles)

***** Boxed numbers indicate presentations by student.

O6 The expression of iron acquisition-related genes is regulated by Fur1 in the presence of Fe2+ and Fur2 in the presence of Fe^{3+} in *Ralstonia pseudosolanacearum* strain OE1-1
*Sora Tateda, Tatsuya Ueyama, Karin Sato, Akinori Kiba, Kouhei Ohnishi, Yasufumi Hikichi, Masayuki Tsuzuki
Fac. of Agric. and Mar. Sci., Kochi Univ.

O7 Intracellular accumulation of EPS biosynthetic intermediate(s) is essential to drive the biosynthesis

of QS signal in *Ralstonia*
*Hiroto Nakajima, Kenji Kai
Graduate School of Agriculture Osaka Metropolitan University

O8 Comparative analyses of systemically induced responses in Arabidopsis by beneficial fungus and chitin
*Ayae Sakai[1], Hisako Yamagata[1], Keigo Naito[1], Takaya Tominaga[2], Shinsuke Ifuku[3, 4], Hironori Kaminaka[5]
[1]Dept. Agr. Sci., Grad. Sch. Sust. Sci., Tottori Univ., [2]United Grad. Sch. Agr., Tottori Univ., [3]Fac. Eng., Tottori Univ., [4]RISH, Kyoto Univ., [5]Fac. Agr., Tottori Univ.

O9 Analysis of molecular mechanisms underlying plant-bleaching induced by *Methylobacterium indicum*
Masataka Izumi[1], Dang Phuong[1], Khoa Lai[1], Tung Le[1], Sho Miyazaki[2], Hiroshi Kawaide[1], Mihoko Mori[1], Nozomu Sakurai[3, 4], *Shin Okazaki[1]
[1]Untd. Grad. Sch. of Agric. Sci. Tokyo Univ. of Agric. and Tech., [2]Fac. of Sci. and Tech. Keio Univ., [3]Natl. Inst. of Genet., [4]Kazusa DNA Res. Inst.

3:30 – 3:45 p.m. Break

3:45 – 4:45 p.m. General Discussion 1 (O1 – O9)

4:45 – 5:00 p.m. Break

5:00 – 5:45 p.m. Special Lecture 1
"Biochemistry of early legume nodulation"
Dr. Gary Stacey（University of Missouri）

Thursday, August 29

9:00 – 10:20 a.m. Short Presentation (42 poster titles)

10:30 – 11:30 a.m. Poster Viewing with Authors (*odd numbers*)

11:30 – 0:30 p.m. Poster Viewing with Authors (*even numbers*)

Lunch/Special Session for Students and Early Carrier Researchers/Committee Meeting

1:50 – 2:50 p.m. General Discussion 2 (P1 – P24)

2:50 – 3:05 p.m. Break

3:05 – 3:55 p.m. General Discussion 3 (P25 – P42)

3:55 – 4:10 p.m. Break

4:10 – 4:40 p.m. NBRP Lecture
"A mechanism of iron supply to nodules according to internal nitrogen status in plants"
Dr. Takuya Suzaki（University of Tsukuba）

4:40 – 5:25 p.m. Special Lecture 2
"Exploration into deep subseafloor biosphere: is it a microbial paradise or an eternal prison?"

Dr. Yuki Morono（JAMSTEC）

5:45 p.m. Depart of bus

6:30 p.m. – Social Gathering

Friday, August 30

9:00 – 10:30 a.m. Oral Presentation (6 titles)

O10 Promotion of root growth by Lipopolysaccharide (LPS) from purple non-sulfur bacteria (PNSB)
*Hitoshi Miyasaka[1], Ranko Iwai[1], Shunta Uchida[1], Sayaka Yamaguchi[1], Shuhei Hayashi[1], Shinjiro Yamamoto[1], Aoi Koga[2], Midori Goto[2], Naoki Yamada[3], Maki Taka-aki[3]
[1]Sojo University, [2]Ciamo Co., Ltd., [3]Matsumoto Institute of Microorganisms Co., Ltd.

O11 Anti-SARS-CoV-2 activity of the Catharanthus roseus endo-phytic fungal products and derivatives; Potential for type II diabetes drugs revealed by studies of inhibitory activity of α-glucosidase as a target enzyme
*Shoji Maehara[1], Moeka Kumamoto[1], Shogo Nakajima[2], Yuzou Hieda[3], Sachi Shibata[4], Koichi Watashi[2], Toshiyuki Hata[1]
[1]Grad. Sch. of Pharm. Sci. Fukuyama Univ., [2]Dep. Virology II, NIID., [3]Com. Res. Cent. Fukuyama Univ., [4]Grad. Sch. of Health and Wel. Sci. Okayama pref. Univ.

O12 Establishment of a soybean-rhizobium symbiosis system in which N_2O-reduced rhizobia dominantly infect.
*Hanna Nishida[1], Manabu Itakura[2], Khin Thuzar Win[1], Feng Li[3], Kaori Kakizaki[2], Atsuo Suzuki[2], Satoshi Ohkubo[2], Masayuki Sugawara[4], Koji Takahashi[3], Sachiko Masuda[5], Arisa Shibata[5], Ken Shirasu[5], Yukiko Fujisawa[1], Yoshikazu Shimoda[1], Kiwamu Minamisawa[2], Haruko Imaizumi-Anraku[1]
[1]NARO NIAS, [2]Grad. Sch. of Life Sci.Tohoku Univ., [3]NARO NICS, [4]Life and Food Sci. Obihiro Univ., [5]RIKEN CSRS

O13 The role of plant trehalase in arbuscular mycorrhizal symbiosis
*Takaya Tominaga[1], Hironori Kaminaka[2], Satoko Yoshida[1]
[1]Grad. Sch. Sci. and Tech., NAIST, [2]Fac. Agr., Tottori Univ.

O14 Plant-microbe metabolic networks underlie the assembly of root microbiota
*Tomohisa Shimasaki[1,2], Sachiko Masuda[3], Yui Nose[2], Arisa Shibata[3], Tsubasa Shoji[3,4], Maiko Furubayashi[5], Yoshitomo Kikuchi[5,6], Ken Shirasu[3], Kazufumi Yazaki[7], Yasunori Ichihashi[2], Akifumi Sugiyama[7], Ryohei Thomas Nakano[1]
[1]Fac. of Sci. Hokkaido Univ., [2]RIKEN BRC, [3]RIKEN CSRS, [4]INM, Univ. Toyama, [5]Bioproduction Research Institute, AIST, [6]Grad. Sch. of Agric. Hokkaido Univ., 7RISH, Kyoto Univ.

O15 Farmyard manure application affects the composition of diazotrophic bacterial communities in rice rhizosphere soil in Madagascar
*Takanori Okamoto[1,2], Hidetoshi Asai[1], Yasuhiro Tsujimoto[1], Toshiyuki Takai[1], Arisa Nishihara[3], Moriya Ohkuma[3], Tantely Vahatra Rakotonindrina[4], Hobimiarantsoa Rakotonindrina[4], Andry Andriamananjara[4], Motohiko Kondo[2], Papa Saliou Sarr[1]
[1]JIRCAS, [2]Nagoya Univ., [3]RIKEN BRC, [4]LRI, Université d'Antananarivo

10:30 – 10:45 a.m. Break

10:45 – 11:25 a.m. General Discussion 4 (O10 – O15)

11:25 – 11:50 a.m. JSPMI 33rd General Meeting & Closing Ceremony

Scientific Posters of JSPMI 33rd Annual Meeting

Wednesday, August 28
0:00 p.m. – Poster Set-Up

Thursday, August 29
9:00 – 10:20 a.m. Short Presentation (all posters)

10:30 – 11:30 a.m. Poster Viewing with Authors (*odd numbers*)

11:30 – 0:30 p.m. Poster Viewing with Authors (*even numbers*)

1:50 – 2:45 p.m. General Discussion 2 (P1 – P21)

3:00 – 3:55 p.m. General Discussion 3 (P22 – P42)

Friday, August 30
9:30 – 0:00 p.m. Poster Take-Down

【Posters, 42 titles】
***** Boxed poster numbers indicate presentations by student.

P1 Barley powdery mildew effector APEC1 interacts with host glycolate oxidase homologs.
*Riki Takahashi[1], Hina Koide[2], Takahiro Katayama[2], Chie Inoue[2], Tomohiro Kouguchi[2], Kappei Kobayashi[2], Naoto Yamaoka[3], Takumi Nishiuchi[4], Hirofumi Nakagami[4], Takashi Yaeno[2]
[1]Fac. of Agric. Ehime Univ., [2]Grad. Sch. of Agric. Ehime Univ., [3]ReCEMHD Kanazawa Univ., [4]Max Planck Institute

P2 Manipulation of *Arabidopsis thaliana* root growth and immunity by root commensals and its underlying molecular mechanisms
Zoe Prockl[1,2], Jana Hucklenbroich[3], *Ryohei Thomas Nakano[1,3]
[1]Fac. of Sci., Hokkaido Univ, [2]Univ. Cologne, [3]MPI for Plant Breeding Research

P3 Comparative analysis of systemically induced disease resistance in Arabidopsis
*Naoko Enomoto[1], Mayumi Egusa[2], Hironori Kaminaka[2]
[1]Grad. Sch. Agr., Tottori Univ., [2]Fac. Agr., Tottori Univ.

P4 Analysis of interaction between tomato and *Cmm* by Dual RNA-Seq
*Naoki Yokotani[1], Yoshinori Hasegawa[1], Masaru Sato[1], Yusuke Kouzai[2], Hideki Hirakawa[1], Sachiko Isobe[1]
[1]Kazusa DNA Res., [2]RIKEN

P5 Effect of rhizobial inoculation and observation of infection type of rhizobia J8 on *Glycyrrhiza* in the early symbiotic stage.
*Shion Yamamoto[1], Aya Shimomura[2], Mareshige Kojoma[3], Akihiro Suzuki[1,2]
[1]United Grad. Sch. of Agric. Sci., Kagoshima Univ., [2]Fac. of Agric. Saga Univ., [3]Fac. of Pharmacy. Health. Sci. Univ. of Hokkaido

P6 Isolation of isoflavone-degrading bacteria from soybean rhizosphere and comprehensive analysis of their degradation specificity
*Tomoaki Sato[1], Kyoko Takamatsu[1], Hinako Matsuda[1], Noritaka Aoki[1], Akinori Ando[2], Shigenobu Kishino[2], Jun Ogawa[2], Sachiko Masuda[3], Arisa Shibata[3], Ken Shirasu[3], Tomohisa Shimasaki[4], Kazufumi

Yazaki[1], Akifumi Sugiyama[1]
[1]RISH, Kyoto Univ., [2]Grad. Sch. Agric., Kyoto Univ., [3]RIKEN CSRS, [4]Fac. Sci. Hokkaido Univ.

P7 Comparison of two aerobic methane-oxidizing bacteria in induction patterns of nitrogen fixation gene expression
*Yuka Oizumi[1], Argen Adem Abdela[1], Fumika Oe[2], Rina Shinjo[2], Takeshi Watanabe[2], Susumu Asakawa[2], Kiwamu Minamisawa[1], Hisayuki Mitsui[1], Shusei Sato[1]
[1] Grad. Sch. of Life Sci. Tohoku Univ., [2] Grad. Sch. of Bioagricultural Sciences. Nagoya Univ.

P8 The effect of soybean *F3'H* gene function on the rhizosphere bacterial community
*Koshiro Matsumura[1], Hinako Matsuda[1], Kyoko Takamatsu[1], Shinich Yamazaki[2,3], Hisabumi Takase[4], Yoshiharu Fujii[5], Yuichi Aoki[2], Nozomu Sakurai[6,7], Kazufumi Yazaki[1], Akifumi Sugiyama[1]
[1]RISH, Kyoto Univ., [2]ToMMo, Tohoku Univ. , [3]RIKEN BRC, [4]Fac. of Bioenviron. Sci., KUAS, [5]Fac. of Agric. Tokyo Univ. of Agric. and Tech., [6]NIG, [7]KAZUSA DNA Res. Inst.

P9 The cysteinyl-tRNA synthetase of the *Mesorhizobium loti* functions in root nodule symbiosis.
*Mitsutaka Fukudome[1], Asuka Ikuta[2], Mika Nomura[2], Toshiki Uchiumi[1]
[1]Grad. Sch. of Sci. and Eng. Kagoshima Univ., [2] Grad. Sch. of Agri. Kagawa Univ.

P10 Effects of secondary metabolites from the exotic plant, coral ardisia, on soil microbial communities
*Naoto Nakamura, Akifumi Sugiyama
RISH

P11 Effects of furanocoumarins on rhizosphere microbiome
*Haruka Morishita, Naoto Nakamura, Koshiro Matsumura, Tomoaki Sato, Ryosuke Munakata, Akifumi Sugiyama
RISH Kyoto Univ.

P12 Yield of soybean grown under abnormally dry conditions in Japan and effect of rice husk smoked charcoal fertilization and super-nodulation mutants on yield.
*Norikuni Ohtake[1], Mana Ishikawa[1], Tsubasa Sato[2], Takuji Miyamoto[1], Kuni Sueyoshi[1]
[1]Grad. Sch. of Sci. Teq. Niigata Univ., [2]Niigata Univ. FC.

P13 Growth of soybeans and symbiotic nodules phenotype changes in difference amount of nitrogen applied.
*Mana Ishikawa, Steven Orito, Takuji Miyamoto, Kuni Sueyoshi, Norikuni Ohtake
Grad. Sch. of Sci and Tec. Niigata Univ.

P14 Stomatal manipulation and plant growth promotion by the leaf symbiotic bacterium
*Rikako Hirata[1], Yuniar Devi Utami[2], Kei Hiruma[2], Akira Mine[1]
[1]Grad. Sch. Agr., Kyoto Univ., [2]Grad. Sch. Arts and Sci., Tokyo Univ.

P15 Effects of AM fungal symbiosis on soil stress tolerance of garland chrysanthemum
*Riki Shimada[1], Kazuma Kumaoka[2], Akiyoshi Tominaga[1]
[1]the United Grad. Sch. of Agric. Sci. Gifu Univ., [2]Iwataminami High School

P16 Function of purple acid phosphatase in phosphorus transfer of arbuscular mycorrhizal symbiosis
Mika Ohashi, Nguyen Thi Cuc, *Katsuharu Saito
Fac. of Agric. Shinshu Univ.

P17 Analysis of the mechanism of rhizobial symbiosis in *Wisteria* species
*Satoshi Fukao[1], Aya Shimomura[2], Akihiro Suzuki[2], Daisuke Sakai[3], Maho Okugawa[4], Akiyoshi Tominaga[1]
[1]Grad. Sch. of Agric. Shizuoka Univ., [2]Fac. of Agric. Saga Univ., [3]Div. Corporate location strategy. Fujieda City., [4]Div. Flower. and Green. Fujieda City

P18 Plant genotype effects on the community of arbuscular mycorrhizal fungi in *Lotus japonicus*
*Nakano Yuta [1], Bamba Masaru[1], Azuma Yusuke [1], Sato Shusei [1]
[1] Grad. Sch. of Life Sci.Tohoku Univ.

P19 Two LysM receptor-like kinases regulate arbuscular mycorrhiza through distinct signalling pathways in Lotus japonicus
*Rin Mamiya, Hayato Fukuda, Misaki Hayata, Keisuke Isoshima, Akira Akamatsu, Naoya Takeda
Grad. Sch. of Sci. and Tech. Kwansei Gakuin Univ.

P20 Localization of nitric oxide and expression of leghemoglobin gene in soybean-bradyrhizobia symbiosis
*Masato Araragi, Yasuyuki Kawaharada
Fac. of Agric. Iwate Univ.

P21 Response of non-leguminous plants against *Bradyrhizobium* and *Frankia*
*Toshiki Uchiumi[1], Yoshikazu Shimoda[2], Mitsutaka Fukudome[1], Seitaro Okuhira[1], Sachiko Isobe[3], Hideki Hirakawa[4], Kenta Shirasawa[5], Takashi Soyano[6], Masayoshi Kawaguchi[6], Takuya Suzaki[7], Akiyoshi Tominaga[8], Shigeru Hanano[9], Shusei Sato[9]
[1]Grad Sch. Sci. and Eng. Kagoshima Univ., [2]Inst. of Agrobiol. Sci., NARO, [3]Grad. Sch. of Agri. Life Sci. Univ. of Tokyo, [4]Grad. Sch. of Biores. and Bioenviron. Kyushu Univ., [5]Kazusa DNA Res. Inst., [6]NIBB, [7]Life Environ Sci. Tsukuba Univ., [8]Fac. of Agric. Shizuoka Univ., [9]Grad. Sch. of Life Sci. Tohoku Univ.

P22 Molecular features of the NIN show the evolutionary basis of nodulation
*Momona Noda[1], Shohei Nosaki[1,2], Hiroki Onoda[3], Momoyo Ito[1], Takuya Suzaki[1,2]
[1]Fac. Life. Sci., Univ. Tsukuba, [2]T-PIRC, Univ. Tsukuba, [3]NUSR, Nagoya Univ

P23 Symbiotic phenotypes of Nod Factor-independent nodulation in soybeans and *Bradyrhizobium elkanii* strain
*Shogo Fukunaga[1], Safirah Tasa Nerves Ratu[1], Shusei Sato[2], Shin Okazaki[1]
[1] Fac. of Agric. Univ. of Agric. and Tech., [2]Grad. Sch. of Life Sci.Tohoku Univ.

P24 Development of a system for acquiring nodule size and nodulated position using Soy2DMapper
Syota Teramoto[1], Kensuke Kawade[2], Khin Thuzar Win[3], *Haruko Imaizumi-Anraku[3]
[1]NARO. NICS, [2]Grad. Sch. of Sci. Engi., [3]NARO. NIAS

P25 Migration of soil-injected microbial species to plants
*Tsukasa Ito, Shu Okada, Kota Maeda, Wei Chen, Ghazaleh Eslamloo, Chanchao Chem
Grad. Sch. of Sci Eng. Gunma Univ.

P26 Mixtures of cell wall-degrading enzymes for the production of protoplasts in arbuscular mycorrhizal fungi
*Kyosuke Adachi, Katsuharu Saito
Grad. Sch. of Sci. and Tech. Shinshu Univ.

P27 Gibberellin distribution and changes during arbuscular mycorrhiza in *Lotus japonicus*
*Shuto Mukai, Shiomi Hosaka, Masahiro Mito, Yuri Asano, Akira Akamatsu, Naoya Takeda
Grad. Sch. of Sci. and Tech. Kwansei Gakuin Univ

P28 Functional elucidation of strigolactones in the regulation of arbuscular mycorrhizal symbiosis in tomato
*Yuka Higashi[1], Hikaru Saito[1], Hironori Kaminaka[2]
[1]Grad. Sch. Agr., Tottori Univ., [2]Fac. Agr., Tottori Univ.

P29 Comparative expression analysis of *Lotus japonicus* and *L. burttii* following inoculation with *Rhizobium* sp. Chiba-1
*Yuhei Chiba[1], Mao Sasaki[2], Yasuyuki Kawaharada[1,2,3]
[1]UGAS, Iwate Univ., [2]Grad Sch. of Arts and Sci., Iwate Univ., [3]Fac. of Agric. Iwate Univ.

P30 De novo assembly of *Lotus krylovii* genome and its nodulation phenotypes
*Masaru Bamba, Shusei Sato
Grad. Sch. of Life Sci.Tohoku Univ.

P31 Symbiotic genes involved in *Oxytropis*-rhizobia symbiosis in Japan
*Ibuki Nishikawa, Kojiro Takanashi
Grad. Sch. Sci. Eng. Shinshu Univ.

P32 Evaluation of the rate of mutation introduction in TILLING M1 populations of sorghum using next-generation sequencing
*Karin Yamamoto, Kazuki Nejikane, Kastuharu Saito
Fac. of Agric. Shinshu Univ.

P33 Spatiotemporal control of host plastid differentiation by barley powdery mildew fungus
*Takashi Yaeno[1], Shizuka Zaima[1], Riki Takashi[2], Yu Ayukawa[1], Tomoko Suzuki[3], Kappei Kobayashi[1], Sho Fujii[4], Akira Iwase[5], Hiroshi Hisano[6], Koichi Kobayashi[7], Noriko Nagata[8]
[1]Grad. Sch. of Agric. Ehime Univ., [2]Fac. of Agric. Ehime Univ., [3]Ctr. Gene Res. Nagoya Univ., [4]Fac. of Agric. Life Sci. Hirosaki Univ., [5]RIKEN CSRS, [6]IPSR Okayama Univ., [7]Grad. Sch. of Sci. Osaka Metropolitan Univ., [8]Fac. of Sci. Japan Women's Univ.

P34 The role of ferrisiderophore receptors on iron uptake in *Ralstonia pseudosolanacearum* strain OE1-1
*Karin Sato, Yuki Terazawa, Sora Tateda, Tatuya Ueyama, Akinori Kiba, Kohei Ohnishi, Yasufumi Hikichi, and Masayuki Tsuzuki
Fac. of Agric. and Mar. Sci., Kochi Univ.

P35 Analysis of root colonization of tomatine degrading *Sphingobium* sp. isolated from tomato rhizosphere.
*Kyoko Takamatsu[1], Masaru Nakayasu[1], Shinichi Yamazaki[2, 3], Yuichi Aoki[2,4], Masaru Kobayashi[5], Kentaro Ifuku[5], Kazufumi Yazaki[1], Akifumi Sugiyama[1]
[1]RISH Kyoto Univ., [2]ToMMo Tohoku Univ., [3]RIKEN BRC., [4]GSIS Tohoku Univ., [5]Grad. Agri. Kyoto Univ.

P36 Microbiota Community Dynamics in *Cardamine leucantha* during Shoot Formation from Rhizome
*Satoshi Kobayashi[1], Kiwako S. Araki[2], Hiroshi Kudoh[3], Ryohei T. Nakano[4]
[1]Sch. of Sci., Hokkaido Univ., [2]Sch of Env. Sci., Univ. of Shiga Pref, [3]CER, Kyoto Univ., [4]Fac. of Sci., Hokkaido Univ.

P37 Root microbiota interferes with host immune responses via extracellular molecules
*Yusuke Inagaki[1], Tomohisa Shimasaki[1], Ulla Neumann[2], Ryohei Nakano[1,2]
[1]Fac. of Sci. Hokkaido Univ., [2]MPI for Plant Breeding Research

P38 The impact of the olive bacterial wilt effector RipAV on endosome function
*Sho Suwa[1], Yukinao Wake[1], Naotaka Tanaka[2], Mitsuaki Tabuchi[2]
[1]Graduate School of Agriculture Kagawa University, [2]Faculty of Agriculture Kagawa University

P39 The AcrR-type transcriptional regulator RSp0599 regulates the major exopolysaccharide EPS I production, independently of quorum sensing, in *Ralstonia pseudosolanacearum* strain OE1-1
*Tatsuya Ueyama, Sora Tateda, Karin Sato, Akinori Kiba, Kouhei Ohnishi, Yasufumi Hikichi, Masayuki

Tsuzuki
Fac. of Agric. and Mar. Sci., Kochi Univ.

P40 Investigation of the existence of sexual reproduction in arbuscular mycorrhizal fungi
*Haruki Nakamura[1], Yuki Yamamoto[2], Kohki Akiyama[1]
[1]Grad. Sch. of Agric. OMU., [2]Grad. Sch. of Life Sci. OPU.

P41 Plant-Fungal-Bacterial Interaction in Rhizosphere SynCom
Momoka Yorinaga[1], Yuina Nomura[1], Mahiro Toda[1], Takuya Suzaki[1], Tomoki Nishioka[2], Hideyuki Tamaki[2], *Norio Takeshita[1]
[1] Univ. Tsukuba, MiCS< sup >2</sup >AIST

P42 Analysis of microbes that promote root nodule symbiosis in rhizosphere synthetic community
*Yuina Nomura[1], Momoka Yorinaga[1], Tomoki Nishioka[2], Hideyuki Tamaki[2], Takuya Suzaki[1], Norio Takeshita[1]
[1]Univ. Tsukuba, [2]AIST