Daily Schedule and Sessions of 27th JSPMI Annual Meeting

Wednesday, September 20

12:00 p.m. – Registration

1:00 – 1:10 p.m. Opening Ceremony

1:10 – 2:25 p.m. Oral Presentation (5 titles)

1 Gibberellin is a key factor in the regulation of mycorrhizal symbiosis in *Bletilla striata* (Orchidaceae)

*Chihiro Miura[1], Tatsuki Yamamoto[2], Katsushi Yamaguchi[3], Yuri Kanno[4], Takahiro Yagame[5], Masahide Yamato[6], Mitsunori Seo[4], Shuji Shigenobu[3], Hironori Kaminaka[1]

[1]Fac. Agri., Tottori Univ., [2]Grad. Sch. Agri., Tottori Univ., [3]NIBB, [4]RIKEN CSRS, [5]Mizuho Kyo-do Mus., [6]Fac. Edu., Chiba Univ

2 Orchids germinate asymbiotically by using the regulatory system of mycorrhizal symbiosis

*Yuki Furui[1], Chihiro Miura[2], Tatsuki Yamamoto[1], Takahiro Yagame[3], Masahide Yamato[4], Hironori Kaminaka[2]

[1]Gard. Sch. Agri., Tottori Univ., [2]Fac. Agri., Tottori Univ., [3]Mizuho Mus., [4]Fac. Edu., Chiba Univ.

3 *NITRATE UNRESPONSIVE SYMBIOSIS 1* mediates control of root nodule symbiosis in response to nitrate

*Hanna Nishida[1,2,3], Sachiko Tanaka[2], Yoshihiro Handa[2], Momoyo Ito[3], Takashi Soyano[1,2], Masayoshi Kawaguchi[1,2], Takuya Suzaki[3]

[1]SOKENDAI, [2]NIBB, [3]Univ. Tsukuba

4 Regulation of Nitric oxide by LjGlb1-1 is involved in nodulation and nodule senescence in the *Lotus japonicus–Mesorhizobium loti* symbiosis

*Mitsutaka Fukudome[1], Laura Calvo-Begueria[2], Eri Watanabe[1], Maria Carmen Rubio[2], Niels Sandal[3], Jens Stougaard[3], Ryujiro Imaizumi[4], Toshio Aoki[4], Manuel Becana[2], Toshiki Uchiumi[1]

[1]Kagoshima Univ., [2]CSIC, [3]Aarhus Univ., [4]Nihon Univ.

5 How do host legume plants reject cheating rhizobia?

*Tomomi Nakagawa[1,2], Kazuhiko Saeki[3], Kiminori Toyooka[4], Mayuko Sato[4], Hideki Hirakawa[5], Mifu Oosawa[3], Mayumi Wakasaki[4], Mai Fukuhara[1,6], Takushi Kawahigashi[7], Ayae Yoshida[7], Norio Suganuma[7], Shusei Sato[8], Hisayuki Mitsui[8], Shin Okazaki[9], Masayoshi Kawaguchi[1,6]

[1]NIBB, [2]Nagoya Univ., [3]Nara Woman's Univ., [4]RIKEN・CSRS, [5]Kazusa DNA Res. Inst., [6]SOKENDAI, [7]Aichi Educ. Univ., [8]Tohoku Univ., [9]Tokyo Univ. Agri. Technol.

2:25 – 2:35 p.m. Break

2:35 – 3:35 p.m. Oral Presentation (4 titles)

6 Lateral root-related factors that function downstream of nodulation specific NIN transcription factor
*Takashi Soyano[1], Makoto Hayashi[2], Masayoshi Kawaguchi[1]
[1]NIBB, [2]RIKEN

7 Analysis of Type III secretion system effector and host element involved in infection inhibition in the interaction between *Bradyrhizobium elkanii* USDA61 and *Lotus japonicus*
*Shohei Kusakabe[1], Takakazu Kaneko[2], Michiko Yasuda[3], Hiroki Miwa[3], Shin Okazaki[3], Shusei Sato[1]
[1]Tohoku Univ., [2]Kyoto Sangyo Univ., [3]Tokyo Univ. Agri. Technol.

8 Variation of a rhizobial effector NopP is the determinant for symbiotic incompatibility with *Rj2*-soybean
*Masayuki Sugawara[1], Satoko Takahashi[1], Yosuke Umehara[2], Hitoshi Kondo[1], Yuki Konno[1], Shusei Sato[1], Hisayuki Mitsui[1], Kiwamu Minamisawa[1]
[1]Grad. Sch. Life Sci., Tohoku Univ., [2]NARO

9 Functional analysis of *phc* and *tqs* quorum sensing systems in *Cupriavidus taiwanensis*, a nitrogen-fixing symbiont of *Mimosa pudica*
*Takayuki Wakimoto, Shuji Tani, Kenji Kai
Osaka Pref. Univ.

3:35 – 3:45 p.m. Break

3:45 – 4:45 p.m. Oral Presentation (4 titles)

10 Nitrogen fixation mutants of the actinobacterium *Frankia*
*Ken-ichi Kucho[1], Daiki Tamari[1], Shintaro Matsuyama[1], Yuri Kawazoe[2], Takeshi Nabekura[2], Louis S. Tisa[3]
[1]Grad. Sch. Sci. Eng., Kagoshima Univ., [2]Facl. Sci., Kagoshima Univ., [3]Univ. New Hampshire

11 Mode of action of *Bacillus* biofertilizer "Kikuichi" to paddy rice.

*Tadashi Yokoyama[1], Masami Yoshikawa[2], Naoko Ohtsu[1], Katsuhito Kojima[3], Hiroko Itho[4], Ui Ono[5], Yoshinari Ohwaki[6], Takashi Kenjyo[7], Tomotaka Asano[7]

[1]Inst. Agri., Tokyo Univ, Agri. Technol., [2]Fac. Agri, Tokyo Univ, Agri. Technol., [3]GIR, Tokyo Univ, Agri. Technol., [4]Nihon Univ., [5]Kyoto-Otokuni Cent. Kyoto Pref. Improv. Populariz. Agri., [6]CARC/NARO, [7]Asahi Industries Co., LTD.

12 Omic identification of nitrogen-fixing bacteria associated with roots of field-grown Sorghum

*Kiwamu Minamisawa[1], Shintaro Hara[1], Takashi Morikawa[1], Yasuhiro Kasahara[2], Taichi Koshiba[3], Kiyoshi Yamazaki[4], Toru Fujiwara[4], Tsuyoshi Tokunaga[3]

[1]Tohoku Univ, [2]Hokkaido Univ, [3]Earthnote Co. Ltd., [4]Univ. Tokyo

13 CLE-CLV1 signaling module regulates nematode infection via long-distance communication

*Satoru Nakagami[1], Chika Ejima[1], Bui Thi Ngan[1], Ryo Tabata[2], Michitaka Notaguchi[2], Hiroshi Sato[1], Takashi Ishida[1] and Shinichiro Sawa[1]

[1]Grad. Sch. Sci. Technol., Kumamoto Univ., [2]Grad. Sch. Bioagri. Sci., Nagoya Univ.

4:45 – 4:55 p.m. Break

4:55 – 6:00 p.m. General Discussion 1 (oral: 1–13)

6:00 – 7:00 p.m. Poster Viewing (mixer)

Thursday, September 21

9:00 –10:10 a.m. Short Presentation (43 poster titles)

10:20 –11:20 a.m. Poster Viewing with Authors (*odd numbers*)

11:20 a.m. –0:20 p.m. Poster Viewing with Authors (*even numbers*)

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

1:30 – 2:10 p.m. General Discussion 2 (poster: P1 –P15)

2:10 – 2:20 p.m. Break

2:20 – 3:00 p.m. General Discussion 3 (poster: P16–30)

3:00 – 3:10 p.m. Break

3:10 – 3:50 p.m. General Discussion 4 (poster: P31–43)

3:50 – 4:10 p.m. Break

4:10 – 4:55 p.m. Special Lecture 1

Exploring core microbiomes for designing resource-efficient and homeostatic agroecosystems

Toju Hirokazu

Associate Professor, Kyoto University

4:55 – 5:40 p.m. Special Lecture 2

Saving of “Phosphorus” in plant life

Tetsuro Mimura

Professor, Kobe University

6:00 – 8:00 p.m. Social Gathering

Friday, September 22

9:10 – 10:10 a.m. Oral Presentation (4 titles)

14 Molecular mechanism on the PAMP-induced extracellular oxidative burst

*Maya Kawabata[1], Hodaka Sato[1], Mizuho Takasu[1], MIka Matsuo[2], Hidenori Matsui[1,2], Yoshiteru Noutoshi[1,2], Mikihiro Yamamoto[1,2], Yuki Ichinose[1,2], Tomonori Shiraishi[1,2,3], Kazuhiro Toyoda[1,2]

[1]Fac. Agri. Okayama Univ., [2]Grad. Environ. Life Sci. Okayama Univ., [3]RIBS Ookayama

15 Ultrastructural and cytological studies on *Mycosphaerella pinodes* infection of the model legume *Medicago truncatula*

Tomoko Suzuki[1,2], Aya Maeda[1], Masaya Hirose[1], Yuki Ichinose[1], Tomonori Shiraishi[1,3],

*Kazuhiro Toyoda[1]

[1]Okayama Univ., [2]Japan Women’s Univ., [3]RIBS Okayama

16 Regulation of mushroom-type biofilm formation by *Ralstonia solanacearum*

*Yasufumi Hikichi[1], Kazusa Hayashi[1], Akinori Kiba[1], Kouhei Ohnishi[1], Kenji Kai[2],

[1]Kochi Univ., [2]Osaka Prefecture University.

17 Sugar-dependent expression of genes involved in the type III secretion system in *Xanthomonas oryzae* pv. *oryzae*

Yumi Ikawa, *Seiji Tsuge

Kyoto Pref. Univ.

10:10 – 10:25 a.m. Break

10:25 - 11:10 a.m. Oral Presentation (3 titles)

18 Phosphate status-dependent beneficial interactions between root endophyte *Colletotrichum tofieldiae* and *Arabidopsis thaliana*

*Kei Hiruma[1,2], Yusuke Saijo[1,2]

[1] NAIST, [2]JST PRESTO

19 Phylogenetic analysis of nodulating bacteria associated with wild *Lotus japonicus* in Japan

*Masaru Bamba[1], Seishirou Aoki[2], Tadashi Kajita[3], Yasuyuki Watano[4], Hiroaki Setoguchi[5], Syusei Sato[6], Takashi Tsuchimatsu[4]

[1]Grad. Sch. Sci., Chiba Univ., [2]Grad. Sch. Arts. Sci., Univ. Tokyo, [3]Trop. Bios. Res. Cent., Univ. Ryukyus, [4]Dept. Biol., Chiba Univ., [5]Grad. Sch. Human Env., Kyoto Univ., [6]Grad. Sch. Life Sci., Tohoku Univ.

20 Visualization and evaluation of root secretion activity by using $^{11}CO_2$ with a positron-emitting tracer imaging system and its influence on rhizosphere bacterial community structure

*Yusuke Unno[1], Yong-Gen Yin[2], Nobuo Suzui[2], Satomi Ishii[2], Keisuke Kurita[2], Naoki Kawachi[2], Takuro Shinano[3]

[1]Inst. Environ. Sci., [2]QST Takasaki, [3]TARC/NARO

11:10 – 11:25 a.m. Break

11:25 – 12:00 p.m. General Discussion 5 (oral: 14–20)

12:00 – 12:30 p.m. JSPMI 27th General Meeting & Closing Ceremony

Scientific Posters of JSPMI 27th Annual Meeting

Wednesday, September 20

12:00 p.m. – Poster Set-Up

Thursday, September 21

9:00 – 10:10 a.m. Short Presentation (all posters)

10:20 – 11:20 a.m. Poster Viewing with Authors (*odd numbers*)

11:20 a.m. – 0:20 p.m. Poster Viewing with Authors (*even numbers*)

1:30 – 2:10 p.m. General Discussion (P1–P15)

2:20 – 3:00 p.m. General Discussion (P16–P30)

3:10 – 3:50 p.m. General Discussion (P31–P43)

Friday, September 22

9:00 – 12:30 p.m. Poster Take-Down

【Posters, 43 titles】

P1 Analysis of caffeine secretion into the rhizosphere of Coffea plants and search for caffeine transporters

*Hirofumi Kakegawa[1], Tomo Kawakami[1], Nobukazu Shitan[2], Shuuka Nagayama[3], Shinjiro Ogita[3], Kazufumi Yazaki[1], Akifumi Sugiyama[1]

[1]Kyoto Univ., [2]Kobe Pharma. Univ., [3]Pref. Univ. Hiroshima

P2 Screening of caffeine metabolizing microbes from rhizosphere of coffee

*Tomo Kawakami, Kazufumi Yazaki, Akifumi Sugiyama

RISH., Kyoto Univ.

P3 Dynamics analysis of daidzein secreted from soybean roots in soil for soybean rhizosphere modeling

*Fuki Okutani[1], Shoichiro Hamamoto[2], Naoto Nihei[2], Taku Nishimura[2], Kazufumi Yazaki[1], Akifumi Sugiyama[1]

[1]RISH., Kyoto Univ., [2]Agri. Grad.Sch. Agri. Life Sci., Univ. Tokyo.

P4 Fluorescence labeling of bradyrhizobia that form root/stem nodules on *Aeschynomene indica* and its application

*Shingo Hata[1], Hiroshi Kouchi[2]

[1]Fac. Agri., Ryukoku Univ., [2]International Christian Univ.

P5 TetR family of *Bradyrhizobium japonicum* affects the profile of symbiotic genes expression in early infection with soybean

*Yoshitake Orikasa, Koumei Taneda, Keisuke Takeshima, Takuji Ohwada

Obihiro Univ.

P6 Identification of crucial genes for symbiotic nitrogen fixation using gene co-expression network analysis

*Tsuneo Hakoyama[1], Yoshikazu Shimoda[2], Makoto Hayashi[1]

[1]RIKEN CSRS, [2]NARO NIAS

P7 Investigation of *Bradyrhizobium elkanii* USDA94 T3SS effector relating to symbiosis with *Lotus japonicus*

*Yuki Nishida[1], Sanae Yoshimura[1], Kento Ashida[1], Manabu Itakura[1], Shin Okazaki[2], Shusei Sato[3], Takakazu Kaneko[1]

[1]Kyoto Sangyo Univ., [2]Tokyo Univ. Agri. Technol., [3]Tohoku Univ.

P8 A novel type III effector of *Bradyrhizobium elkanii* abolishing infection and nodule development in *Vigna radiata*

*Hien P. Nguyen, Shin Okazaki

Tokyo Univ. Agri. Technol.

P9 Interactions between T3SS effector and R protein relevant to symbiotic incompatibility

*Hitoshi Kondo, Masayuki Sugawara, Yuya Iwano, Shusei Sato, Hisayuki Mitsui, Kiwamu Minamisawa

Grad. Sch. Life Sci., Tohoku Univ.

P10 Experimental evolution of bradyrhizobial symbiosis island by using a symbiotic incompatibility

*Haruka Odake, Masayuki Sugawara, Satoko Takahashi, Kiwamu Minamisawa

Grad. Sch. Life Sci., Tohoku Univ.

P11 Various structures of symbiosis islands classified into a distinct clade of *Bradyrhizobium elkal*i

*Yudai Gamo[1], Manabu Itakura[1], Kiwamu Minamisawa[2], Takakazu Kaneko[1]

[1]Kyoto Sangyo Univ., [2]Tohoku Univ.

P12 Comparison between symbiosis island and genome core of bradyrhizobia nodulating *Lespedeza* and *Glycine*

*Yuki Konno[1], Seiya Kajiwara[2],Tomoyuki Nemoto[2],Masayuki Sugawara[1],Kiwamu Minamisawa[1]

[1]Tohoku Univ., [2]Ishinomaki Senshu Univ.

P13 Symbiotic phenotype of various host plants inoculated with *bacA* and *nifV* mutants of broad-host-range rhizobia

*Shun Hashimoto[1], Teerana Greetatorn[2], Pongpan Songwat[2], Kohki Goto[3], Panlada Tittabutr[2], Neung Teaumroong[2], Ken-ichi Kucho[1], Toshiki Uchiumi[1]

[1]Grad. Sch. Sci. Eng., Kagoshima Univ., [2]Suranaree Univ. Technol., [3]Fac. Sci., Kagoshima Univ.

P14 Determination of ferritin gene overexpression effects to nitrogen fixation activity in *Lotus japonicus*.

*Yamikani Chikoti, Masahiro Miyaji, Mallika Duangkhet, Emmanuel Ngatech, Mika Nomura

Kagawa Univ.

P15 Screening of santopine degrading rhizobia and identification of its catabolism genes

*Tomohisa Shimasaki, Kun Yuan, Shin Okazaki, Yoshiharu Fujii

Tokyo Univ. Agri. Technol.

P16 Expression of nitorogen-fixation genes in Fix$^-$ nodules formed by *Sinorhizobium meliloti* Δ*mcpS* mutant

*Iori Imamura, Mayuka Iizuka, Akira Tabuchi

Fac. Agri., Shinshu Univ.

P17 Transcriptional regulation of the *nif* operon in actinomycete *Frankia*

*Ryotaro Matsuki, Hitomi Okuno, Ken-ichi Kucho

Grad. Sch. Sci. Eng., Kagoshima Univ.

P18 *Rhizobia* response and symbiosis process *in vitro* under Aluminium stress conditions

*Artigas Ramírez María Daniela[1], Silva Jessica Danila[2], Ohkama-Ohtsu Naoko[3], Yokoyama Tadashi[3]

[1]United Grad. Sch., Tokyo Univ. Agri. Technol., [2]Universidade Estadual Paulista, [3]Tokyo Univ. Agri. Technol.

P19 Genome wide association study of stress tolerance based on root elongation in *Lotus japonicus*

*Masatsugu Hashiguchi[1], Yuki Hanzaki[1], Stig Andersen[2], Shusei Sato[3], Hidenori Tanaka[1] and Ryo Akashi[1]

[1]Univ. of Miyazaki, [2]Aarhus Univ., [3]Tohoku Univ.

P20 Expression of phytoglobin genes of *Glycine max* as abiotic stress response

*Masato Araragi, Mitsutaka Fukudome, Airi Ikeura, Toshiki Uchiumi

Grad. Sch. Sci. Eng., Kagoshima Univ.

P21 Analysis of *nitrate unresponsive symbiosis 3* (*nrsym3*) mutant involved in nitrogen response during nodulation

*Fumika Misawa[1], Hanna Nishida[1,2,3], Takamasa Suzuki[4], Momoyo Ito[1], Masayoshi Kawaguchi[2,3], Takuya Suzaki[1]

[1]Univ. Tsukuba, [2]SOKENDAI, [3]NIBB, [4]Chubu Univ.

P22 Variation of symbiotic nitrogen fixation capacity in soybean mini core collection

*Yosuke Umehara[1], Masaki Hayashi[2], Akito Kaga[3], Fukuyo Tanaka[2], Yoshinari Ohwaki[2], Masao Ishimoto[3], Makoto Hayashi[4]

[1]NIAS/NARO, [2]CARC/NARO, [3]NICS/NARO, [4]CSRS/RIKEN

P23 Effects of symbiotic Nitrogen Fixation using variety of rhizobia species in Kenya's three Soybean varieties

*Emmanuel Ngetich, Masahiro Miyaji, Malika Duanghet, Yamikan Frank Chikoti, Mika Nomura

Kagawa Univ.

P24 Identification of *Lotus LRR receptor* gene regulated the symbiotic interaction with *Mesorhizobium loti exoU* mutant

*Yasuyuki Kawaharada[1,2], Niels Sandal[2], Vikas Gupta[2], Haojie Jin[2], Stig U. Andersen[2], Jens Stougaard[2]

[1]Iwate Univ. [2]Aarhus Univ., CARB

P25 *LAN*, a new gene of *Lotus japonicus*, regulates rhizobial invasion system and works differently from known pathway in nodule symbiosis

*Motomi Hoshino[1], Hanna Nishida[1,2,3], Takuya Suzaki[1]

[1]Univ. Tsukuba, [2]SOKENDAI, [3]NIBB

P26 Functional analysis of dof1 transcription factor which affects nitrogen fixation in *Lotus japonicus*

*Masahiro Miyaji, Takahiro Okayama, Shigeyuki Tajima, Mika Nomura
Kagawa Univ.

P27 A calmodulin-binding transcriptional activator controls nodule organogenesis

*Akihiro Yamazaki[1], Akira Miyahara[2], Miwa Nagae[2], Yosuke Umehara[2], Makoto Hayashi[1]
[1]RIKEN, [2]NIAS

P28 Rac/ROP GTPases regulate rhizobia infection and Nodule organogenesis mediating different calcium responses in *Medicago truncatula*

*Akira Akamatsu[1,2], Giles E.D. Oldroyd[2]
[1]Kwansei Gakuin Univ., [2]John Innes Centre

P29 Phylogeography analysis of *Oxytropis japonica*, a Japanese alpine legume

*Shimpei Hasegawa[1], Tomohiro Kawai[1], Naoto Seo[2], Shusei Sato[3], Kazufumi Yazaki[2], Kojiro Takanashi[1, 4]
[1]Fac. Sci., Shinshu Univ., [2]RISH, Kyoto Univ., [3]Grad. Sch. Life Sci., Tohoku Univ., [4]IMS, Shinshu Univ.

P30 National Bioresource Project (NBRP) in Phase 4. −New organization and plan for *Lotus* and *Glycine* program−

*Masatsugu Hashiguchi[1], Shusei Sato[2], Ryo Akashi[1]
[1]Univ. Miyazaki, [2]Tohoku Univ.

P31 Induction of rice AM symbiosis-related genes by a heterochitooligosaccharide with defined sequence

*Koyo Nojima, Yusuke Tatsumi, Kohki Akiyama
Osaka Pref. Univ.

P32 Mycorrhizal fungi infections using super-root derived from *Lotus corniculatus*

*Minami Koie[1], Masatsugu Hashiguchi[1], Naoya Takeda[2], Masayoshi Kawaguchi[3], Akihiro Suzuki[4], Ryo Akashi[1]
[1]Univ. Miyazaki, [2]Kwansei Gakuin Univ., [3]NIBB, [4]Saga Univ.

P33 Analysis of arbuscular mycorrhizal community structures on rice in low-phosphate field with

different fertilization treatments

*Makoto Kanasugi[1], Sachiko Masuda[2], Kazuhiro Sasaki[3], Shin Okazaki[1]
[1]Tokyo Univ. Agri. Technol., [2]Riken, [3]Univ. Tokyo

P34 The effect of different concentration of nitrogen source on endophytic colonization of *Azospirillum* sp. B510 in rice plant

*Kamrun Naher, Hiroki Miwa, Shin Okazaki, Michiko Yasuda
Tokyo Univ. Agri. Technol.

P35 Isolation of nitrogen-fixing bacteria from sorghum roots based on metagenome analysis

*Takashi Morikawa[1], Shintaro Hara[1], Sawa Arai[1], Yasuhiro Kasahara[2], Taichi Koshiba[3], Kiyoshi Yamazaki[4], Toru Fujiwara[4], Tsuyoshi Tokunaga[3], Kiwamu Minamisawa[1]
[1]Grad. Sch. Life Sci., Tohoku Univ., [2]Inst. Low Temp. Sci., Hokkaido Univ., [3]Earthnote Co. Ltd., [4]Grad. Sch. Agri. Life Sci., Univ. Tokyo

P36 Genome-based analysis of ureide degradation and carbon metabolism in soybean-associated *Methylobacterium*

*Sawa Arai, Shintaro Hara, Masayuki Sugawara, Kiwamu Minamisawa
Grad. Sch. Life Sci., Tohoku Univ.

P37 Induction of heterophylly by plant-microbe interactions in semi-aquatic plant *Rorippa aquatica* (Brassicaceae)

*Manabu Itakura, Seisuke Kimura, Kaori Kaminoyama, Takakazu Kaneko
Kyoto Sangyo Univ.

P38 The mechanisms underlying response to chitin not mediated by known receptors in plants

*Sumire Matsukawa[1], Mayumi Egusa[2], Chihiro Miura[2], Shiori Nakatani[2], Jyunpei Yamada[2], Haruko Imaizumi-Anraku[3], Tsuneyoshi Endo[2], Yoko Nishizawa[3], Shinsuke Ifuku[4], Hironori Kaminaka[2]
[1]Dept. Agri. Sci., Grad. Sch. Sust. Sci., Tottori Univ., [2]Fac. Agri., Tottori Univ., [3]Inst. Agri. Sci., NARO, [4]Dept. Eng., Grad. Sch. Sust. Sci., Tottori Univ.

P39 Novel sensor kinases involved in signaling in the quorum sensing of *Ralstonia solanacearum* strain OE1-1 using methyl 3-hydroxymyristate as the quorum sensing signal

*Kazusa Hayashi[1], Kouhei Ohnishi[2], Akinori Kiba[1], Kenji Kai[3], Yasufumi Hikichi[1]
[1]Fac. Agri., Kochi Univ., [2]RIMG, Kochi Univ., [3]Sch. Life and Environmental Sci., Osaka Pref. Univ.

P40 Why does *Rehmannia mosaic virus* Japanese strain induce systemic necrosis on tomato plants

under high temperature ?

*Takuya Hamada, Akinori Kiba, Yasufumi Hikichi

Fac. Agri., Kochi Univ.

P41 Analyses of symbiotic compatibility between orchids and *Rhizoctonia* fungi

*Masaya Honjyo[1], Chihiro Miura[2], Masako Fuji[2], Shintaro Komiyama[2], Tatsuki Yamamoto[2], Takahiro Yagame[3], Masahide Yamato[4], Hironori Kaminaka[2]

[1]Dept. Agri. Sci., Grad. Sch. Sust. Sci., Tottori Univ., [2]Fac. Agr., Tottori Univ., [3]Mizuho Kyo-do Mus., [4]Fac. Edu., Chiba Univ.

P42 Genotyping of *Meloidogyne incognita* isolates

*Erika Asamizu[1], Kenta Shirasawa[2], Hideki Hirakawa[2], Hideaki Iwahori[1]

[1]Ryukoku Univ., [2]Kazusa DNA Res. Inst.

P43 Physiological activity of symbiotic organ-specific cysteine rich peptides on the *sbmA* mutant bacteria

Nahoko Uchi[1], *Narumi Nozaki[2], Mitsutaka Fukudome[2], Ken-ichi Osuki[2], Miyuzu Suzuki[3], Shuji Shigenobu[3], Toshiki Uchiumi[2]

[1]Grad. Schl. Med. Dent. Sci., Kagoshima Univ., [2]Grad. Schl. Sci. Eng., Kagoshima Univ., [3]NIBB