

The 22nd Annual Meeting of the Japan Society for Microbial Resources and Systematics

Period: 9 (Wed) – 11 (Fri) September, 2015

Venue: Torigin Bunka Kaikan (Tottori Prefecture Citizens' Culture Hall), Tottori-shi

Organizer: Fungus/Mushroom Resource and Research Center (FMRC), Faculty of Agriculture, Tottori University

Time table

Wednesday 9, September

13:30-15:00	Editorial Committee Meeting	Meeting room 3
15:00-16:30	Culture Collection Business	Meeting room 3
16:30-18:30	Board Meeting	Meeting room 3

Thursday 10, September

9:20-9:30	Opening	Meeting room 1
9:30-11:00	Culture Collection Business Workshop	Meeting room 1
11:00-12:00	Poster Session (Odd numbers)	Free space (Foyer)
13:00-15:10	Symposium on Microbial Resources	Meeting room 1
15:30-16:30	Plenary Meeting	Meeting room 1
16:30-17:00	Award Lecture	Meeting room 1
17:00-18:00	Poster Session (Even numbers)	Free space (Foyer)
18:30-20:30	Banquet	Kaiyo-Tei

Friday, 11 September

9:15-10:45	Oral Presentation	Meeting room 1
11:00-12:00	Symposium on Systematics	Meeting room 1
12:00-12:20	Closing	Meeting room 1
12:30~	Excursion	

Program

[Culture Collection Business Workshop] (Thursday, 10 September 9:30-11:00 Meeting room 1)

Workshop title: Effort of the culture collection for the quality improvement of the deposited microorganisms

W-1. Current situation in the deposition of microorganisms in the JCM and improvements to the acceptance procedure

Yumi Oshida

Japan Collection of Microorganisms, RIKEN BioResource Center

W-2. Problems on deposition of biological resources in NBRC

Katsutoshi Fujita

NITE Biological Resource Center (NBRC), National Institute of Technology and Evaluation

W-3. Trouble-shooting during strain deposition to MCC-NIES

Fumi Mori

Microbial Culture Collection, National Institute for Environmental Studies, Global Environmental Forum

[Poster Session] (Thursday, 10 September 11:00-12:00 & 17:00-18:00 Free Space)

P-1. Isolation and identification of colorful bacteria.

○Kouta Hatayama¹, Teruaki Kuno², Ayako Ushida³

¹Sagami Chemical Research Institute, ²School of Science, Kitasato University, ³College of Agriculture, Tamagawa University

P-2. Analysis of *Ktedonobacteria* communities in various environmental samples.

○Shuhei Yabe^{1,2}, Yasuteru Sakai^{1,2}, Akira Yokota³

¹Grad. Sch. Agric. Sci., Tohoku Univ., ²Hazaka. Res. Cent., ³Univ. Indonesia

P-3. Isolation of yet-uncultured microorganisms from the human gut and maintenance of microbial resources.

○Mitsuo Sakamoto¹, Yoshiki Tanaka^{2,3}, Yoshimi Benno³, Moriya Ohkuma¹

¹Microbe Division/Japan Collection of Microorganisms, RIKEN BioResource Center, ^{2,3}Biofermin Kobe Research Institute, ³Benno Laboratory, RIKEN Innovation Center

P-4. Molecular re-identification of MAFF (NIAS Genebank) strains belonging to the *Colletotrichum orbiculare* and *C. destructivum* species complex

○Toyozo Sato¹, Jouji Moriwaki², Takayuki Aoki¹, Hiroshi Nemoto¹

¹National Institute of Agrobiological Sciences, ²NARO Kyushu Okinawa Agricultural Research Center

P-5. Nitrate non-utilizing mutants generated from MAFF238704, a strain of *Colletotrichum dematium* (Persoon) Grove pathogenic to spinach and radish

○Keisuke Tomioka, Koji Nomiyama, Hiroyuki Sekiguchi, Hideki Osaki, Yoko Ito, Toshiaki Takehara

Western Region Agricultural Research Center, National Agriculture and Food Research Organization, Japan

P-6. Characterization of plant viral strains preserved in the NIAS Genebank (MAFF) (2) Sequencing of capsid/coat proteins of cucumoviruses in the NIAS Genebank

○Tamaki Uehara-Ichiki, Takayuki Aoki, Hiroyuki Sawada, Toshiro Nagai, Kaoru Hanada, Kyoko Yabunaka, Ruriko Sugimoto, Miho Ohashi, Hiromi Nakajima, Midori Kumagai, Masaru Takeya, Fukuhiro Yamasaki, Hiroshi Nemoto

National Institute of Agrobiological Sciences

P-7. Cocktail PCR and DNA-chromatography for quick screening of multiple pathogenic factors of

pathogenic stock culture

¹Shigeru Yoshida, ¹Izumi Kanazawa, ²Sayoko Hayashi, ³Masahiro Hayashi, ¹Ibrahim Eldesoky, ¹Hajime Fukunaga, ¹Takayuki Ezaki

¹Genetic Resource Stock Center of Pathogenic Bacteria, Gifu University School of Medicine, ²Gifu University of Medical Science, ³Anaerobic Laboratory, Lie Science Research Center, Gifu University

P-8. Undescribed species of the genus *Oudemansiella* (s.l.) collected from Miyazaki Pref.

○Shuji Ushijima, Nitara Maekawa

Fungus/Mushroom Resource and Research Center (FMRC), Faculty of Agriculture, Tottori University

P-9. Screening of pleurotooid and cyphelloid mushroom for nematocidal activity.

○Takayuki Ishizaki^{1,2}, Kento Suzuki¹

¹College of Agriculture, Tamagawa University, ²Tamagawa University Research Institute

P-10. Screening of fungal library for nematocidal activity

○Takafumi Izawa¹, Kyoko Watanabe^{1,2}, Takayuki Ishizaki^{1,2}

¹College of Agriculture, Tamagawa University, ²Tamagawa University Research Institute

P-11. Nuclear phase assay for the ectomycorrhizal mycelium in soil—Mating test using homokaryotic isolates from *Rhizopogon roseolus*—

○Qi Gao¹, Shota Nakano¹, Tadanori Aimi², Norihiro Shimomura²

¹United Graduate School of Agricultural Science, Tottori University, ²Faculty of Agriculture, Tottori University

P-12. Estimation of viability of cultured mycelia of *Rhizopogon roseolus*, using the MTT assay method

○Mei Morimoto¹, Yoshihiro Sasamoto², Tadanori Aimi¹, Norihiro Shimomura¹

¹Faculty of Agriculture, Tottori University, ²Graduate School of Agriculture, Tottori University

P-13. Re-identification of *Aspergillus luchuensis* strains derived from same origin that preserved at three culture collections.

○Sayaka Ban¹, Shigeki Inaba¹, Osamu Yamada², Takashi Yaguchi³, Kyoko Yarita³, Katsuhiko Kamei³

¹NITE Biological Resource Center, NITE (NBRC), ²National Research Institute of Brewing, ³Medical Mycology Research Center, Chiba University

P-14. Maintenance and quality control of *Halobacteriaceae* strains (Halobacteria) in the RIKEN BRC-JCM

○Takashi Itoh, Toshiya Iida, Moriya Ohkuma

Microbe Division/Japan Collection of Microorganisms, RIKEN BioResource Center

P-15. Validation of perlite protocol for NBRC basidiomycetes strains (2).

○M. Sato¹, T. Sasaki¹, R. Inoue¹, J. Sukenobe², S. Inaba², A. Nakagiri³

¹NITE Patent Microorganisms Depository, ²NITE Biological Resource Center, ³Fungus/Mushroom Resource and Research Center (FMRC), Faculty of Agriculture, Tottori Univ.

P-16. Attempt to apply activated charcoal for freezing preservation of hard-to-preserve basidiomycete strains.

○Kana Kajiwara, Kozue Sotome, Shuji Ushijima, Nitara Maekawa, Akira Nakagiri
Fungus/Mushroom Resource and Research Center (FMRC), Faculty of Agriculture, Tottori University

P-17. A case study on the effects of cryoprotectants for filamentous fungi

○Gen Okada, Moriya Ohkuma
Japan Collection of Microorganisms (JCM), RIKEN BioResource Center

P-18. Activity of the Microorganism Section of the NIAS Genebank (MAFF) in FY 2014

○Toshiro Nagai, Tamaki Uehara-Ichiki, Hiroyuki Sawada, Takayuki Aoki, Masaru Takeya, Fukuhiro Yamasaki, Hiromi Nakajima, Midori Kumagai, Toyozo Sato, Hiroshi Nemoto.
National Institute of Agrobiological Sciences

P-19. Annual report of NBRC culture collection in FY2014

○Yayoi Sakiyama, Chisato Kurohara, Katsutoshi Fujita, Sachi Kamata, Yasuyoshi Nakagawa, Shuji Yamazaki, Ken-ichiro Suzuki, Yasushi Noto
Biological Resource Center (NBRC), National Institute of Technology and Evaluation (NITE)

P-20. NIES Collection activity report for 2014.

○Fumi Mori¹, Kosei Yumoto¹, Miwa Ishimoto¹, Mary-Helene Noel², Mayumi Sato², Haruyo Yamaguchi², Masanobu Kawachi²
¹Global Environmental Forum, ²National Institute for Environmental Studies

P-21. JCM activity report in FY2014.

Moriya Ohkuma, Gen Okada, Masako Takashima, Takuji Kudo, Takashi Itoh, Toshiya Iida, Tsutomu Oowada, Mitsuo Sakamoto, Takao Iino, Rikiya Endoh, Yumi Oshida, Kayo Kusaoke, ○Koji Suzu
Japan Collection of Microorganisms (JCM), RIKEN BioResource Center

P-22. Report on the activity of FMRC in FY2014

○Kozue Sotome, Nitara Maekawa, Shuji Ushijima, Kumiko Oka, Akira Nakagiri
Fungus/Mushroom Resource and Research Center (FMRC), Faculty of Agriculture, Tottori University

P-23. Ishinomaki Senshu University (ISU) collection: Current situation after the Great East Japan Earthquake (interim report 2)

○Atsushi Miyazaki, Tomoaki Abe
Department of Biological Sciences, Faculty of Science and Engineering, Ishinomaki Senshu University

P-24. Activity of National BioResource Project-Yeast 2014 in OUT

○Yoshinobu Kaneko, Ying Zhou, Hiromi Maekawa

Endowed Chair, Yeast Genetic Resources Lab., Graduate School of Engineering, Osaka University

P-25. Generation of value-added lactic acid bacterium strains as bio-resources

○Naoto Tanaka¹, Tomonori Suzuki², Satoru Tomita³, Akinobu Kajikawa⁴, Masataka Uchino⁴, Shizunobu Igimi⁵, Sanae Okada^{1,4}

¹NODAI Culture Collection Center (NRIC), Tokyo University of Agriculture, ²Department of Nutritional Science and Food Safety, Faculty of Applied Bioscience, Tokyo University of Agriculture, ³National Food Research Institute, National Agriculture and Food Research Organization, ⁴Department of Applied Biology and Chemistry, Faculty of Applied Bioscience, Tokyo University of Agriculture, ⁵Division of Biomedical Food Research, National Institute of Health Sciences

P-26. Interuniversity bio-backup project for life science

Daisuke Tanaka

IBBP Center, National Institutes for Basic Biology

[Symposium on Microbial Resources] (Thursday, 10 September 13:00-15:10 Meeting room 1)

Symposium title: Exploitation of various functions and properties of mushrooms

Convener: Nitaro Maekawa (Fungus/Mushroom Resource and Research Center (FMRC), Faculty of Agriculture, Tottori University)

Opening address (13:00-13:10) Nitaro Maekawa

S-1. (13:10-13:40)

Genetic resource and breeding in shiitake mushroom

Kazuhisa Terashima

The Tottori Mycological Institute

S-2. (13:40-14:10)

Researches for cultivation of ectomycorrhizal mushrooms

Takashi Yamanaka

Forestry and Forest Products Research Institute

S-3. (14:10-14:40)

Development of plant disease control methods by volatile compounds from the mushroom

Kumiko Oka

Faculty of Agriculture, Tottori University

S-4. (14:40-15:10)

Obstacles found in investigation of fungal & mushroom enzymes

Kei Kamino

Bio-technology center, National Institute of Technology and Evaluation

[Award Lecture] (Thursday, 10 September 16:30-17:00 Meeting room 1)

Problems in the classification of Volvocales (Chlorophyceae)

Takashi Nakada

Systems Biology Program, Graduate School of Media and Governance, Keio University

Institute for Advanced Biosciences, Keio University

[Oral Presentation] (Friday 11, September 9:15-10:45 Meeting room 1)

O-1. (9:15-9:30)

Nonhydrogenotrophic nitrate-reducing *Prolixibacter denitrificans* induced metallic iron corrosion

○Takao Iino¹, Kimio Ito², Mitsuo Sakamoto¹, Moriya Ohkuma¹

¹RIKEN-BRC JCM, ²Nippon Steel and Sumitomo Metal Corporation

O-2. (9:30-9:45)

Ecology and cultivability of a dominant bacterioplankton (Phylum *Chloroflexi*) in the hypolimnion of Lake Biwa

○Yusuke Okazaki, Yoshikuni Hodoki, Shin-ichi Nakano

Center for Ecological Research, Kyoto University

O-3. (9:45-10:00)

Optimized medium for isolation of *Flavobacterium* and *Chryseobacterium* from rhizosphere soil

○Tomoki Nishioka¹, Haruhisa Suga², Koji Kageyama³, Mitsuro Hyakumachi¹, Masafumi Shimizu¹

¹Graduate school of Applied Biological Sciences, Gifu University, ²Life Science Research Center, Gifu University, ³River Basin Research Center, Gifu University

O-4. (10:00-10:15)

Mechanism of gastric acid resistance in probiotic lactic acid bacteria *Lactobacillus plantarum* FSCM2-12

○Rikako Hiraoka¹, Isao Uda², Shota Nakano³, Norihiro Shimomura⁴, Tadanori Aimi⁴

¹Graduate School of Agriculture, Tottori University, ²Oshidori-Pharmacy Co., Ltd., ³The United Graduate School of Agricultural Sciences, Tottori University, ⁴Faculty of Agriculture, Tottori University

O-5. (10:15-10:30)

Production of a salt-tolerant hybrid strain of the ectomycorrhizal mushroom *Rhizopogon roseolus* (= *R. rubescens*)

○Shota Nakano¹, Qi Gao¹, Tadanori Aimi², Norihiro Shimomura²

¹United Graduate School of Agricultural Science, Tottori University, ²Faculty of Agriculture, Tottori University

University

O-6. (10:30-10:45)

Cryopreservation by using vermiculite as carrier for NBRC basidiomycete culture

○Masanori Sato¹, Mariko Noguchi¹, Ryutaro Inoue¹, Shigeki Inaba², and Akira Nakagiri³

¹NITE Patent Microorganisms Depository, ²NITE Biological Resource Center, ³Fungus/Mushroom Resource and Research Center (FMRC), Faculty of Agriculture, Tottori University

[Keynote Lecture on Microbial Systematics] (Friday 11, September 11:00-12:00 Meeting room 1)

Appreciating biodiversity of microorganisms: implications of what they are culturable

Akira Hiraishi

Department of Environmental and Life Sciences, Toyohashi University of Technology