

Program of the International Symposium for the Conservation and Sustainable Use of Asian Microbial Resources

13th, October Wednesday

13:30 - 13:50	Opening Ceremony
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Session 1 Microbial Diversity in Asia

	no.	title	name	organization
13:50 – 15:10 Chairperson: Akira Nakagiri NITE, Japan	1-1	Analysis of kimchi microflora by culture-dependent and independent approach	<u>Jung-Sook Lee</u>	Korean Collection for Type Cultures (KCTC), KRIBB, Korea
	1-2	Isolation, identification, and characterization of microorganisms trapped in ancient permafrost ice wedge	<u>Michiko Tanaka</u> ¹ , Taiki Katayama ¹ , Tomoko Kato ¹ , Anatoli Brouchikov ² , Thomas A. Douglas ³ , Masami Fukuda ⁴ , and Kozo Asano ¹	¹ Research faculty of Agriculture, Hokkaido University, Hokkaido, Japan, ² Geocryology Department, Moscow State University, Moscow, Russia, ³ Cold Regions Research and Engineering Laboratory, Alaska, USA, ⁴ International Arctic Research Center, University Alaska, USA
	1-3	Joint-sampling on Brunei forest microbes: update	<u>Mahmud Yussof</u> and Zaeidi Hj Berudin	Forestry Department, Ministry of Industry and Primary Resources, Brunei

15:10 – 15:45	Poster presentation & Coffee break
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15:45 – 16:40 Chairperson: Atsushi Yamazoe NITE, Japan	1-4	Diversity of beneficial microbial resource from Pakistani ecology	<u>Iftikhar Ahmed</u> ¹ , Rifat Hayat ² , Muhammad Ehsan ² , Aneela Roohi ³ , and Muhammad Iqbal ¹	¹ Plant Biotechnology Program, NIGAB, National Agricultural Research Centre, Pakistan, ² Department of Soil Science & SWC, PMAS Arid Agriculture University, Pakistan, ³ Department of Microbiology, Kohat University of Science and Technology, Pakistan
	1-5	Complete genome sequence of bacterial endosymbionts of termite-gut protists and exploiting yet-uncultured microbial resources	<u>Moriya Ohkuma</u>	RIKEN BioResource Center, Japan

Session 2 Bioproduction from Asian Microbial Resources (1)

	no.	title	name	organization
16:40 – 17:40 Chairperson: Kazuhito Fujiyama Osaka Univ., Japan	2-1	Novel bacteriocins of thermotolerant lactic acid bacteria from Asian microbial resources	<u>Kenji Sonomoto</u> , Takeshi Zendo, and Jiro Nakayama	Laboratory of Microbial Technology, Department of Bioscience and Biotechnology, Faculty of Agriculture, Graduate School, Kyushu University, Japan
	2-2	Exploration of thermotolerant useful microbes in tropical environments and their application	<u>Mamoru Yamada</u>	Applied Molecular Bioscience, Graduate School of Medicine and Department of Biological Chemistry, Faculty of Agriculture, Yamaguchi University, Japan

18:00 – 20:00

Reception

14th October, Thursday

Special Talk

		title	name	organization
9:30 – 9:50		Twin Conventions: Climate Change (UNFCCC) and Biological Diversity (CBD)	<u>Itaru Yasui</u>	National Institute of Technology and Evaluation (NITE), Japan

Session 2 Bioproduction from Asian Microbial Resources (2)

	no.	title	name	organization
9:50 – 11:20 Chairperson: Mamoru Yamada Yamaguchi Univ., Japan	2-3	Construction of bagasse decomposing microbial communities In Thailand and Japan – An attempt for comparative biotechnology? –	<u>Yasuo Igarashi</u> ¹ , Shunsuke Kudo ¹ , and Verawat Champreda ²	¹ Department of Biotechnology, University of Tokyo, Japan, ² Enzyme Technology Laboratory, BIOTEC, Thailand
	2-4	Microbial utilization from Thai-isolated fungi: current status and future prospect	<u>Lily Eurwilaichitr</u> ¹ , Warasirin Sormlake ¹ , Panida Matetaviparee ¹ , Supattra Kittikhun ¹ , Sutipa Tanapongpipat ² , and Verawat Champreda ¹	¹ Enzyme Technology Laboratory, Bioresources Technology Unit, National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand, ² Microbial Cell Factory Laboratory, Bioresources Technology Unit, National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand
	2-5	Diversity of yeasts from high temperature regions of India, and pullulan production by an osmotolerant <i>Aureobasidium pullulans</i>	Puja Saluja ^{1,2} , Anirban Roy Choudhury ³ , and <u>G. S. Prasad</u> ¹	³ Biochemical Engineering Research & Process Development Centre (BERPDC), India, ¹ Microbial Type Culture Collection and Gene Bank (MTCC), Institute of Microbial Technology (IMTECH), Council of Scientific and Industrial Research (CSIR), India, ² Division of Biology, California Institute of Technology, USA

11:20 – 13:00

Lunch time

Section 3 Potential of Asian Microbial Resources for Bioindustry

	no.	title	name	organization
13:00 – 14:50 Chairperson: Kenji Sonomoto Kyushu Univ., Japan	3-1	Joint research projects with Asian countries and NITE	<u>Katsuhiko Ando</u>	NITE Biotechnology Development Center (NBDC), Japan
	3-2	Tropical microorganisms in natural product based drug discovery	<u>Hideyuki Muramatsu</u>	Fermentation Research Div., Astellas Research Technologies Co., Ltd., Japan
	3-3	Access and use of Asian microbial resources in Chugai	<u>Yuichi Yamaguchi</u> ¹ , <u>Takamichi Ohdake</u> ¹ , <u>Yoshie Nagahashi</u> ¹ , <u>Hideyuki Kato</u> ¹ , <u>Katsuhiko Ando</u> ² , <u>Shigeki Inaba</u> ² , <u>Duong Van Hop</u> ³ , <u>Tsetseg Baljinova</u> ⁴ , and <u>Masahiro Aoki</u> ¹	¹ Chugai Pharmaceutical Co., Ltd, Japan, ² NITE Biotechnology Development Center (NBDC), Japan ³ Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi (IMBT-VNUH), Vietnam ⁴ Institute of Biology, Mongolian Academy of Sciences (MAS), Mongolia
	3-4	Identification and evaluation of microbes derived from Mongolian traditional fermented milk	<u>Gentaro Yasuda</u> ¹ , <u>Tadashi Shinoda</u> ¹ , <u>Tsetseg Baljinova</u> ² , <u>Katsuhiko Ando</u> ³ , and <u>Naoyuki Yamamoto</u> ¹	¹ Microbiology & Fermentation Lab., Calpis Co., Ltd., Japan, ² Institute of Biology, Mongolian Academy of Sciences (MAS), Mongolia, ³ NITE Biotechnology Development Center (NBDC), Japan

14:50 – 15:10

Coffee break

Session 4 Microbial Research Network

	no.	title	name	organization
15:10 – 16:50 Chairperson: Yeonhee Lee KNRRC, Korea	4-1	International exchange and collaborative research in southeast asia; issues on bioresources, research and its outcome	<u>Kazuhito Fujiyama</u>	International Center for Biotechnology, Osaka University, Japan
	4-2	RNAM: A new platform for research in applied and environmental microbiology in China	<u>Huang Li</u>	Institute of Microbiology, Chinese Academy of Sciences, China
	4-3	Paradigm shift in access to genetic resources: an example of Mongolia-Japan collaboration on diversity of Mongolian	<u>Tsetseg Baljinova</u>	Institute of Biology, Mongolian Academy of Sciences (MAS), Mongolia
	4-4	The Asian consortium for conservation and sustainable utilization of microbial resources (ACM) for the harmonized international cooperation in the CBD era	<u>Ken-ichiro Suzuki</u>	NITE Biological Resource Center (NBRC), Japan

Panel Discussion:
**Sustainable use of microbial resources in the CBD era and cooperative model
for research on microorganism in Asia**

16:50 – 17:10	panelist	organization
	Chairperson: Ken-ichiro Suzuki NITE, Japan	Kazuhito Fujiyama
Yasuo Igarashi		Department of Biotechnology, University of Tokyo, Japan
Kenji Sonomoto		Laboratory of Microbial Technology, Department of Bioscience and Biotechnology, Faculty of Agriculture, Graduate School, Kyushu University, Japan
Mamoru Yamada		Applied Molecular Bioscience, Graduate School of Medicine and Department of Biological Chemistry, Faculty of Agriculture, Yamaguchi University, Japan
Katsuhiko Ando		Department of Biotechnology, National Institute of Technology and Evaluation (NITE), Japan

17:10 17:15	Closing remarks
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Poster will be displayed throughout the symposium period

Poster session

no.	title	name	organization
P1	IMCAS-BRC, an infrastructure to promote the sustainable application of microbial resources	<u>Yu-Guang Zhou</u>	Institute of Microbiology, Chinese Academy of Sciences, China
P2	Indonesian microbial culture collection and its management, a foundation toward sustainable use of microbial genetic resources	<u>Heddy Julistiono</u> ¹ , Atit Kanti ¹ Puspita Lisdyanti ² , Yantyati Widyastuti ² , and Endang Sukara ²	¹ Research Center for Biology, Indonesian Institute of Sciences (LIPI), Indonesia, ² Research Center for Biotechnology, Indonesian Institute of Sciences (LIPI), Indonesia
P3	Actinomycetes in Cibinong Science Center, Indonesia	<u>Yantyati Widyastuti</u> ¹ , Puspita Lisdiyanti ¹ , Shanti Ratnakomala ¹ , Gina Kartina ¹ , Roni Ridwan Rohmatussolihat ¹ , Evi Triana ² , Nunuk Widhyastuti ² , Ratih D. Hastuti ³ , Yulin Lestari ⁴ , Misa Otoguro ⁵ , Hideki Yamamura ⁵ , and Katsuhiko Ando ⁵	¹ Research Center for Biotechnology, Indonesian Institute of Sciences (LIPI), Indonesia, ² Research Center for Biology, Indonesian Institute of Sciences (LIPI), Indonesia, ³ Indonesia Soil Research Institute, Ministry of Agriculture, Indonesia, ⁴ Fac. of Mathematics and Sciences-IPB, Indonesia, ⁵ NITE Biotechnology Development Center (NBDC), Japan

P4	Diversity of Actinomycetes isolated in Indonesia	<u>Puspita Lisdiyanti</u> ¹ , Shanti Ratnakomala ¹ , Roni Ridwan ¹ , Gina Kartina ¹ , Rohmatussolihat ¹ , Misa Otoguro ² , Hideki Yamamura ² , Tomohiko Tamura ² , Shinji Miyadoh ² , Evi Triana ³ , Arif Nurkanto ³ , Yulin Lestari ⁴ , Ratih D. Astuti ⁵ , Rasti Saraswati ⁵ , Yantyati Widyastuti ¹ , and Katsuhiko Ando ²	¹ Research Center for Biotechnology, Indonesian Institute of Sciences, Jl. Raya Bogor Km. 46, Cibinong 16911, Indonesia, ² National Institute of Technology and Evaluation (NITE), Chiba, Japan, ³ Research Center for Biology, Indonesian Institute of Sciences, Indonesia, ⁴ Faculty of Biology, Bogor Agriculture University, Indonesia, ⁵ Research Center for Soil, Ministry of Agriculture of Indonesia, Indonesia
P5	Current status and future plan of KCTC/BRC	<u>Jung-Sook Lee</u> ¹ , Byung-Chan Kim ¹ , Song-Gun Kim ¹ , and Sangmee Lee ²	¹ Korean Collection for Type Cultures (KCTC), Biological Resource Center (BRC), Korea Research Institute of Bioscience and Biotechnology (KRIBB), Korea, ² Ministry of Education, Science and Technology (MEST), Korea
P6	Korean Agricultural Culture Collection(KACC)	Seung-Beom Hong, Soo-Jin Kim, Yi-Seul Kim, <u>Soon-Wo Kwon</u> , In-Cheol Park, Soon-Ja Seok, and Hang-Yeon Weon	Korean Agricultural Culture Collection (KACC), Korea
P7	Bacterial diversity and community structure of fermented soybean products in Korea	Yi-Seul Kim, <u>Hang- Yeon Weon</u> , Soo-Jin Kim, Soon-Wo Kwon, Seung-Beom Hong, In- Cheol Park, and Soon- Ja Seok	Korean Agricultural Culture Collection (KACC), Korea
P8	The Korea National Research Resource Center	<u>Yeonhee Lee</u>	Korea National Research Resource Center (KNRRC), Korea
P9	Bioactive compound of endophytic actinomycetes from Laos medicinal plants and their anti-microbial activities	<u>Phetsamone Phommaxay</u> ¹ , Surioudong Sundara ¹ , Watanalai Panbangred ² , and Takuya Nihira ³	¹ Science and Technology Research Institute, National Authority for Science and Technology, Lao PDR, ² Department of Biotechnology, Faculty of Science, Mahidol University, Thailand, ³ International Center for Biotechnology, Osaka University, Japan
P10	Comparison on the carbon source utilization of <i>Erwinia chrysanthemi</i> stored in long-term storage medium	<u>Nor Ayshah Alia Ali Hassan</u> , Rosnah Hassan, and Nuradni Hashim	Strategic Resource Research Centre, Malaysian Agricultural Research and Development Institute (MARDI), Malaysia
P11	Halophilic bacteria of the genus <i>Halobacillus</i> with <i>meso</i> -diaminopimelic acid in the cell-wall peptidoglycan found in Mongolia	<u>Nurymkhan Marjangu</u> ¹ , Yukiyo Fukunaga ² , Katsuhiko Ando ² , and Tsetseg Baljinova ¹	¹ Institute of Biology, Mongolian Academy of Sciences (MAS), Mongolia, ² NITE Biotechnology Development Center (NBDC), Japan

P12	National Culture Collection of Pakistan: Past, present and the future - a country report	Iftikhar Ahmed ¹ , Shazia Erum ² , Muhammad Iqbal ¹ , and M. Shahid Masood ²	¹ Plant Biotechnology Program, NIGAB, National Agricultural Research Centre, Islamabad, Pakistan, ² Plant Genetic Resources Program, IABGR, National Agricultural Research Centre, Islamabad, Pakistan
P13	Anti-MRSA, -Vibrios and - <i>C. albicans</i> identified from mangrove microorganisms in the Philippines	Monsalud RG ¹ , Clavillas JDL ¹ , Papa Ia ¹ , Zulaybar TO ¹ , Leyesa EM ¹ , Papa IA ¹ , Creencia AR ¹ , Alonte JD ² , Daquinag JM ² , and Bautista VW ³	¹ Philippine National Collection of Microorganisms (PNCM), BIOTECH, University of the Philippines-Los Baños, College, Laguna, Philippines; ² CAS, UP-Manila, Philippines; ³ IMCB, The University of Tokyo, Japan
P14	BCRC Culture Collection	Yu-Fen Chen	Bioresource Collection and Research Center (BCRC), Taiwan
P15	Screening and characterization for lignocellulosic degrading enzymes from leaf litter fungi	<u>Bubpha Techapattaraporn</u> , Tanit Changthavorn, Wanchern Potacharoen, and Lily Eurwilachitr	¹ Enzyme Technology Laboratory, Bioresources Technology Unit, National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand, ² Department of Nutrition and Feed Science, Fac. of Animal Sci. Diponegoro University, Indonesia, ³ Microbial Cell Factory Laboratory, Bioresources Technology Unit, National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand
P16	Animal, plant and microbial genetic resources conservation and management in Vietnam	Cung Thi Thu Thuy ¹ , Le Minh Sat ²	¹ National Hospital of Gynaecology - Obstetric Hospital, Ministry of Health of Vietnam, ² Ministry of Science and Technology, Vietnam
P17	Recent activities of the Japan Society for Culture Collections (JSCC)	Toyozo Sato, Takayuki Ezaki, Ryosuke Fudo, Fumie Kasai, Takuji Kudo, Akihiko Maruyama, Yuzuru Mikami, Yasuyoshi Nakagawa, Hideaki Sugawara, Masako Takashima, Naoto Tanaka, Makoto Watanabe and Ken-ichiro Suzuki	Japan Society for Culture Collections, Japan
P18	NIES-collection: Microbial Culture Collection at National Institute for Environmental Studies, Japan	Fumie Kasai, Masanobu Kawachi, Mayumi Erata, Fumi Mori, Kosei Yumoto, Mayumi Sato, Miwa Ishimoto, and Takuro Nakayama	National Institute for Environmental Studies, Japan
P19	AOAC: Network of Asia Oceania Algal Culture Collections	Fumie Kasai ¹ , Susan Blackburn ² , Ian Jameson ² , Masanobu Kawachi ¹ , and Makoto M. Watanabe ³	¹ National Institute for Environmental Studies, Japan, ² Australian National Algae Culture Collection, CSIRO, Australia, ³ Graduate School of Life and Environmental Sciences University of Tsukuba, Japan

P20	Activity of RIKEN BioResource Center	<u>Masako Takashima</u> , Kwang-Deuk An, Toshiya Iida, Takao Iino, Takashi Itoh, Tsutomu Oowada, Gen Okada, Yumi Oshida, Maki Kitahara, Kayo Kusaoke, Takuji Kudo, Yoshimasa Kosako, Mitsuo Sakamoto, Motofumi Suzuki, Koji Suzu, Satoko Tsuzuki, and Moriya Ohkuma	RIKEN BioResource Center, Japan
P21	Distribution of Asian <i>Trichoderma</i> species	<u>Yasuhisa Tsurumi</u> ¹ , Shigeki Inaba ¹ , Rieko Suzuki ¹ , Tomoaki Kamijo ¹ , Yantiyati Widyastuti ² , Duong Van Hop ³ , Nyunt Phay ⁴ , Tsetseg Balijanova ⁵ , Nampiah Sukarno ⁶ , Akira Nakagiri ¹ , Ken-ichiro Suzuki ¹ , and Katsuhiko Ando ¹	¹ National Institute of Technology and Evaluation (NITE), Japan, ² Research Center for Biotechnology, Indonesian Institute of Sciences (LIPI), Indonesia, ³ Institute of Microbiology and Biotechnology, Vietnam National University, Hanoi (VNUH), Vietnam, ⁴ Biotechnology Development Center, Patheingyi University (PU), Myanmar, ⁵ Institute of Biology, Mongolian Academy of Science (MAS), Mongolia, ⁶ Biology Department, Bogor Agricultural University (IPB), Indonesia
P22	NITE's experience of access and benefit-sharing	<u>Shun Shioya</u> and Katsuhiko Ando	NITE Biotechnology Development Center (NBDC), Japan
P23	NBRC Microbial Culture Collection 2009	<u>Hitoe Fukawa</u> , Yasuyoshi Nakagawa, Maki Kikugawa, Kazumi Sagisaka and Ken-ichiro Suzuki	NITE Biological Resource Center (NBRC), Japan
P24	Preservation and distribution of DNA resources at NBRC	<u>Katsutoshi Fujita</u> , Junya Seita, Hiromi Kajiya, Takeshi Harada, Hitoe Fukawa, Kazumi Sagisaka, and Ken-ichiro Suzuki	NITE Biological Resource Center (NBRC), Japan
P25	Quality control and reidentification of NBRC filamentous fungal collection based on molecular data	<u>Sayaka Ban</u> , Izumi Okane, Kaoru Yamaguchi, Akira Nakagiri, Shinzo Mayuzumi, Noriko Utsumi, Fumie Yokoyama, Toshihiro Tanaka, Kyoko Toyama, Yukiko Tabuchi, Miwako Genra, Kuniko Shimamura, Katsuhiko Ando, Ken-ichiro Suzuki	NITE Biological Resource Center (NBRC), Japan