

September 16, 13:15–15:15

Topics	Organizers
Novel Bioengineering Through Research of Microbial Dark Matter and Microbiota (13:15–15:15) ◆ Room S2 (A41)	Taizo Hanai (Kyushu Univ.) Hideki Aoyagi (Univ. of Tsukuba) Masaharu Ishii (Univ. of Tokyo)
New Era of Amino Acid Research in Yeast (13:15–15:15) ◆ Room S4 (E11)	Hiroshi Takagi (NAIST) Masaki Mizunuma (Hiroshima Univ.)
Challenge for New Research Area of Animal Cell Culture —Aiming for Innovation That Occurs in the Boundary Area of Academics— (13:15–15:15) ◆ Room S5 (E21)	Kei Kanie (Nagoya Univ.) Masanobu Horie (Kyoto Univ.) Ryosuke Iwai (Okayama Univ. of Science) Masaharu Somiya (ISIR, Osaka Univ.)

September 16, 15:00/15:30–17:30

Topics	Organizers
Japanese Alcoholic Beverages Aiming the World (15:30–17:30) ◆ Room S1 (A21)	Hiroko Tsutsumi (Gekkeikan Sake) Osamu Yamada (NRIB) Yoshikazu Takase (Kirishima Shuzo)
Recent Trends in Biomolecular Engineering Aiming at Industrialization (15:00–17:30) ◆ RoomS3 (B41) ⇒ Program * KSBB Invited Lecture (15:00–15:30): Prof. Tae-Joon Jeon (Inha Univ.)	Tamotsu Zako (Ehime Univ.) Hiroshi Ueda (Tokyo Tech) Noriho Kamiya (Kyushu Univ.)
Effects of Functional Food Components on the Intestinal Conditions (15:30–17:30) ◆ Room S4 (E11)	Hiroshi Kitagaki (Saga Univ.) Jiro Nakayama (Kyushu Univ.)

September 17, 9:00/9:30~11:30

Topics	Organizers
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<p>Design, Engineering, and Regulation of Microbial Consortia to Develop Advanced Bioprocesses (9:30–11:30) ◆ Room S2 (A41)</p>	<p>Satoshi Tsuneda (Waseda Univ.) Jun-ichi Kato (Hiroshima Univ.) Shin Haruta (Tokyo Metropolitan Univ.)</p>
<p>Next Generation Plant Biotechnology Driving Sustainable Development of Food and Agricultural Engineering Industry (9:00–11:30) ◆ Room S3 (B41) ⇒ Program *KSBB Invited Lecture (11:00–11:30): Prof. Hei CHan Lee (Sun Moon Univ.)</p>	<p>Atsushi Okazawa (Osaka Pref. Univ.) Seiji Takahashi (Tohoku Univ.) Goro Taguchi (Shinshu Univ.)</p>
<p>New Developments of Dry-Wet Technology Combination on Protein Engineering (9:30–11:30) ◆ Room S5 (E21)</p>	<p>Hiroyuki Imanaka (Okayama Univ.)</p>

September 17, 13:15–15:15 / 15:45 / 17:15

Topics	Organizers
<p>How to Utilize Sustainable Development Goals (SDGs) for Biotechnology (13:15–17:15) ◆ Room S1 (A21)</p>	<p>Takaomi Yasuhara (Asahi Breweries) Hiroyuki Kojima (Ajinomoto) Seiichi Taguchi (Tokyo Univ. of Agric.) Shinobu Takagi (Novozymes Japan) Yasuhiko Imai (Kikkoman)</p>
<p>[International symposium] Development of Biosensing Technology Targeting Sustainability Development Goals (13:15–15:45) ◆ Room S3 (B41) ⇒ Program *KSBB Invited Lecture (15:10–15:35): Prof. Jong Wook Hong (Hanyang Univ.)</p>	<p>Enoch Y. Park (Shizuoka Univ.) Eiichi Tamiya (Osaka Univ.)</p>

Considering Complexed Tissue-Engineering Techniques in All Aspects for Industrial Tissue Manufacturing (13:15–15:15) ◆ Room S4 (E11)	Eiji Nagamori (OIT) Taichi Ito (Univ. of Tokyo)
Roles of Respiration in Bioproduction and Metabolism (13:15–15:15) ◆ Room S5 (E21)	Makoto Kawamukai (Shimane Univ.) Toshiharu Yakushi (Yamaguchi Univ.)

September 17, 15:00 / 15:30–17:30

Topics	Organizers
New Frontier of Bioproduction in Microbial Processes (15:00–17:30) ◆ Room S2 (A41) ⇒ Program *KSBB Invited Lecture (15:30–15:55): Prof. Sung Ok Han (Korea Univ.)	Hiroshi Shimizu (Osaka Univ.)
Understanding Complex Biological Phenomena by Novel Data-Driven Approaches (15:30–17:30) ◆ Room S4 (E11)	Wataru Aoki (Kyoto Univ.) Mitsuyoshi Ueda (Kyoto Univ.)
Polyamines, Attractive Biomolecule for Future Aging Community (15:30–17:30) ◆ Room S5 (E21)	Shinsuke Fujiwara (Kwansei Gakuin Univ.) Shin Kurihara (Ishikawa Pref. Univ.)

September 18, 9:00/9:30~11:30

Topics	Organizers
[International symposium] Recent Topics on Cultivation and Measurement: New Challenges by Start-Up Companies (9:35~11:30) ◆ Room S1 (A21) ⇒ Program *Invited Lecture (9:35–10:00): Prof. Jochen Buechs (RWTH Aachen Univ.)	Satoshi Tomita (ABLE) Hideo Sakuma (B.E. Marubishi.) Yasuhiko Imai (Kikkoman) Hiroyuki Kojima (Ajinomoto) Takaomi Yasuhara (Asahi Breweries)

Conjugational System: Necessary Tools for Large-Scale Gene and Genome Manipulations (9:30–11:30) ◆ Room S2 (A41)	Mitsuhiro Itaya (Keio Univ.)
<i>In silico</i> Protein Design: A New Frontier for Protein Engineering and Applied Structural Biology (9:30–11:30) ◆ Room S3 (B41)	Sohei Ito (Shizuoka Pref. Univ.) Daisuke Sugimori (Fukushima Univ.) Yasuhiro Mihara (Ajinomoto)
Interactive Nanosurface for Symbiosis of Biology and Devices ◆ Room S5 (E21)	Mitsuo Umetsu (Tohoku Univ.) Tomoko Yoshino (TUAT) Mina Okochi (Tokyo Tech)

September 18, 13:15–15:15

Topics	Organizers
New Methodologies for Creation of Valuable Biofunctional Molecules Through Biosynthetic Engineering (13:15–15:15) ◆ Room S2 (A41)	Kenji Arakawa (Hiroshima Univ.) Chitose Maruyama (Fukui Pref. Univ.)
Cutting-Edge Technologies to Produce Biojet Fuels in Japan (13:15–15:15) ◆ Room S3 (B41)	Masayuki Inui (RITE) Kengo Suzuki (euglena)
Paired Presentation by Wet and Dry Researchers: How to Integrate Wet and Dry Study? (13:15–15:15) ◆ Room S4 (E11)	Takaaki Horinouchi (RIKEN) Takaaki Kojima (Nagoya Univ.)