

Program

The 70th Annual Meeting of the Japanese Association for Laboratory Animal Science
May 25 (Thu) 13:00 ~ 15:20 Room 1 (2F Main Hall)

Ordinary General Meeting
Congress Award Ceremony
Congress Award Lecture

■ Honorable Contribution Award

Masakazu Kita (Kyoto Prefectural University of Medicine)
Akira Takakura (Central Institute for Experimental Animals)

■ Ando-Tajima Award

L-1 Studies on the protective mechanism against mouse hepatitis virus and its transmission among mice

○ Shigeru Kyuwa

Graduate School of Agricultural and Life Sciences, The University of Tokyo

■ Encouragement Award

L-2 Development and analysis of disease model mouse of musculocontractural Ehlers-Danlos syndrome

○ Takahiro Yoshizawa

Division of Animal Research, Research Center for Advanced Science and Technology, Shinshu University

International Award May 24 (Wed) 16:00 ~ 17:00 Room 3 (2F 202/201)

Chairpersons: Toru Takeo (Kumamoto University)

Tra Thi Huong Dinh (RIKEN Bioresource Research Center)

IA-1 The construction of experimental animal models for cardiovascular diseases and pathology mechanism study

○ Xiaoliang Jiang¹⁾, Xue Liu¹⁾, Xing Liu¹⁾, Yunpeng Liu¹⁾, Duan Shun²⁾, Fu-Jian Xu²⁾, Zhiwei Yang¹⁾

¹⁾Institute of Laboratory Animal Science, Chinese Academy of Medical Sciences,

²⁾Key Lab of Biomedical Materials of Natural Macromolecules, Beijing University of Chemical Technology

IA-2 IL-21-triggered Blimp-1 counterbalances c-Maf-driven IL-21 overproduction in an autoregulatory circuit to maintain immune homeostasis

- Yu-Wen Liu¹⁾, Shin-Huei Fu^{2,3)}, Ming-Wei Chien^{2,3)}, Chao-Yuan Hsu^{3,4)}, Ming-Hong Lin⁵⁾, Jia-Ling Dong⁴⁾, Rita Jui-Hsien Lu^{6,7)}, Yi-Jing Lee⁶⁾, Pao-Yang Chen⁶⁾, Chih-Hung Wang⁸⁾, Huey-Kang Sytwu^{1,2,3,4)}

¹⁾Molecular and Cell Biology, Taiwan International Graduate Program, Academia Sinica and Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan, Republic of China,

²⁾National Institute of Infectious Disease and Vaccinology, National Health Research Institutes, Miaoli, Taiwan, Republic of China,

³⁾Department and Graduate Institute of Microbiology and Immunology, National Defense Medical Center, Taipei, Taiwan, Republic of China,

⁴⁾Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan, Republic of China,

⁵⁾Department of Microbiology and Immunology, School of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China,

⁶⁾Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan, Republic of China,

⁷⁾Department of Medicine, Washington University School of Medicine in St. Louis, St. Louis, Missouri, USA,

⁸⁾Department of Otolaryngology-Head and Neck Surgery, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan, Republic of China

IA-3 The role of type I interferons on host defense against *Mycobacterium abscessus* pulmonary infection in mice model

- Jae-Hun Ahn^{1,2)}, Do-Hyeon Jung¹⁾, Byeong-Cheol Kang^{2,3)}, Jong-Hwan Park¹⁾

¹⁾Laboratory Animal Medicine, College of Veterinary Medicine, Chonnam National University, Republic of Korea,

²⁾Department of Experimental Animal Research, Biomedical Research Institute, Seoul National University Hospital, Republic of Korea,

³⁾Laboratory Animal Medicine, College of Medicine, Seoul National University, Republic of Korea

IA-4 Preclinical evaluation of *Annona Muricata* L. leaves extract administration on the bioavailability of technetium-99m methylene diphosphonate (^{99m}Tc-MDP) as a bone scintigraphy agent

- Ahmad Kurniawan^{1,2)}, Sinar Kasih Mentari³⁾, Teguh Hafiz A.W¹⁾

¹⁾Center for Radioisotopes, Radiopharmaceuticals and Biodosimetry Technology, Research Organization of Nuclear Technology, National Research and Innovation Agency, Jakarta, Indonesia,

²⁾Indonesian Association for Laboratory Animal Sciences (IALAS), Indonesia,

³⁾School of Pharmacy, Bandung Institute of Technology, Indonesia

Plenary Lecture 1

May 24 (Wed) 13:00 ~ 14:00

Room 1 (2F Main Hall)

Chairperson: Ken-ichi Yagami (University of Tsukuba)

PL-1 New transplant medicine guided by advances in basic science

- Hiromitsu Nakauchi^{1,2)}

¹⁾Institute for Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine,

²⁾Stem Cell Therapy Laboratory, Advanced Research Institute, Tokyo Medical and Dental University

Plenary Lecture 2

May 25 (Thu) 15:30 ~ 16:30

Room 1 (2F Main Hall)

Chairperson: Fumihiro Sugiyama (University of Tsukuba)

PL-2 Functional elucidation of neurons producing novel neuropeptides using genetically engineered mice

○ Takeshi Sakurai

Institute of Medicine/IIIS, University of Tsukuba

Symposium 1

May 24 (Wed) 14:10 ~ 16:40

Room 1 (2F Main Hall)

Chairpersons: Masami Kanai-Azuma (Tokyo Medical and Dental University)
Satoshi Kunita (Jichi Medical University)**S1-1 Challenges in the search of therapeutic targets for age-related macular degeneration**

○ Shinichi Fukuda

Department of Ophthalmology, University of Tsukuba

S1-2 Chimeric organ transplantation using the embryonic niche complementation system

○ Takashi Yokoo

Department of Nephrology and Hypertension, Jikei University School of Medicine

S1-3 Challenge to improve production rate by microdevice engineering

○ Masashi Ikeuchi

Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University

S1-4 Attempts toward the practical application of surgical robots (Riverfield)Kotaro Tadano^{1,2)}, Teruyuki Nishihara²⁾, Takahiro Kanno²⁾, ○ Kenji Kawashima³⁾¹⁾Riverfield Inc., ²⁾Tokyo Institute of Technology, ³⁾The University of Tokyo**Symposium 2**

May 25 (Thu) 9:00 ~ 11:30

Room 1 (2F Main Hall)

Chairpersons: Satoru Takahashi (University of Tsukuba)

Atsushi Yoshiki (RIKEN Bioresource Research Center)

S2-1 The risk of dopamine reduction in microgravity found from spaceflight experiments of *C. elegans*

○ Atsushi Higashitani

Graduate School of Life Sciences, Tohoku University

S2-2 Bone biology studies in space and on earth using Medaka (*Oryzias latipes*)○ Masahiro Chatani^{1,2)}¹⁾Department of Pharmacology, Showa University School of Dentistry,²⁾Pharmacological Research Center, Showa University

S2-3 Elucidation of skeletal muscle control mechanism using mice

○ Satoru Takahashi

Laboratory Animal Resource Center, Institute of Medicine, University of Tsukuba

S2-4 JAXA's strategic goals of rodent research in low earth orbit and future commercialization

○ Dai Shiba

JEM Utilization Center, Human Spaceflight Technology Directorate, Japan Aerospace Exploration Agency (JAXA)

Symposium 3

May 25 (Thu) 9:00 ~ 11:30

Room 2 (2F Hall 200)

Chairpersons: Shigeri Maruyama (The Jackson Laboratory Japan, Inc.)
Azusa Yamada (RABICS, Ltd.)

S3-1 Optimal operation to maintain SPF environment in facilities – focusing on IVC system

○ Noboru Ogiso

National Center for Geriatrics and Gerontology

S3-2 Benefits and challenges of introducing IVC cages from a comprehensive perspective

○ Takehito Isobe

Chugai Pharmaceutical Co., Ltd.

S3-3 Comparison of exhaust air dust PCR tests and conventional tests for microbiological monitoring

○ Masami Ueno, Masafumi Yamamoto, Nobuhito Hayashimoto

ICLAS Monitoring Center, Central Institute for Experimental Animals

S3-4 *Corynebacterium mastitidis* and *Helicobacter mastomyrinus* infections in mice

○ Motomu Sakuragi

Taiho Pharmaceutical Co., Ltd.

S3-5 The response, the cause, and countermeasures for infection case study in IVC systems

○ Noriko Tosa

Institute for Animal Experimentation, Faculty of Medicine, Hokkaido University

Symposium 4

May 25 (Thu) 9:00 ~ 11:30

Room 4 (3F Hall 300)

Chairpersons: Yusuke Echigoya (Nihon University)
Kenta Onuma (Japan Tobacco Inc.)

S4-1 Studies to ensure the safety of oligonucleotide therapeutics – predicting and avoiding toxicity

○ Takao Inoue

National Institute of Health Sciences

S4-2 Development of therapeutic RNA manipulation for muscular dystrophy

○ Yoshitsugu Aoki

Department of Molecular Therapy, National Institute of Neuroscience,
National Center of Neurology and Psychiatry

S4-3 DNA/RNA heteroduplex oligonucleotide targeting central nervous system

○ Takanori Yokota

Department of Neurology and Neurological Science, Tokyo Medical and Dental University

Symposium 5

May 26 (Fri) 9:00 ~ 12:00

Room 1 (2F Main Hall)

Chairpersons: Yoshiaki Kikkawa (Tokyo Metropolitan Institute of Medical Science)
Tsuyoshi Koide (National Institute of Genetics)

S5-1 Itch sensitivity and its transmission mechanism modulated by brain and spinal cord

○ Keiko Takanami

Environmental Health, Human Life and Environmental Sciences, Nara Women's University

S5-2 Sensory representation and detection mechanisms of gut osmolality change

○ Takako Ichiki¹⁾, Yuki Oka²⁾

¹⁾Division of Oral Biochemistry, Graduate School of Medical and Dental Sciences, Niigata University,

²⁾Division of Biology and Biological Engineering, California Institute of Technology

S5-3 Chemosensory research of the gastrointestinal tract using organoid culture system

○ Ken Iwatsuki

Tokyo University of Agriculture

S5-4 Non-visual photoreceptor OPN5 regulates brain functions

○ Motoshi Hayano

Department of Neuropsychiatry, School of Medicine, Keio University

S5-5 Optical imaging of the cochlear sensory epithelium in the inner ear

○ Takeru Ota, Hiroshi Hibino

Graduate School of Medicine, Osaka University

Symposium 6

May 26 (Fri) 9:00 ~ 11:30

Room 2 (2F Hall 200)

Chairpersons: Kazuto Watanabe (Japan Pharmaceutical Manufacturers Association)
Mutsumi Suzuki (Japan Pharmaceutical Manufacturers Association, Kyowa Kirin Co., Ltd.)

S6-1 Data integrity standards for regulatory submission documentation ~its role and issues~

○ Kyohei Hayashi

Pharmaceuticals and Medical Devices Agency

S6-2 Data integrity in drug development

○ Ayako Mera

Research Quality Assurance, Quality Assurance, Astellas Pharma Inc.

S6-3 The ARRIVE and PREPARE guidelines for maximizing the reliability of animal experiments

○ Shinya Ayabe

RIKEN BioResource Research Center

S6-4 Application of reliability criteria in drug development: issues of retesting as an example

○ Naoki Toritsuka^{1,2)}

¹⁾Bristol-Myers Squibb K.K., ²⁾Pharmaceutical Research and Manufacturers of America

S6-5 Guidance for facilities to which studies are outsourced to academia

○ Sumiko Nagaki^{1,2)}

¹⁾Group 2, Subcommittee 5, GLP Division, Japan Society of Quality Assurance,

²⁾Mitsubishi Tanabe Pharma Corporation

Symposium 7

May 26 (Fri) 9:00 ~ 11:30

Room 4 (3F Hall 300)

Chairpersons: Iori Itagaki (The Corporation for Production and Research of Laboratory Primates)
Tadashi Sankai (National Institutes of Biomedical Innovation, Health and Nutrition)
Shinichiro Nakamura (Azabu University)

S7-1 Overview of “infectious diseases” in nonhuman primates, current situations and future acts

○ Shinichiro Nakamura

Veterinary School, Azabu University

S7-2 Current status and outlook for imports of NHPs

○ Makoto Takenoshita

Eve Bioscience Co., Ltd.

S7-3 Trends in infectious disease outbreaks in monkeys at exhibition facilities

○ Yumi Une

Okayama University of Science

S7-4 Tuberculosis in nonhuman primates: rebuilding of screening strategy based on tuberculin skin testing

○ Iori Itagaki^{1,2)}

¹⁾The Corporation for Production and Research of Laboratory Primates,

²⁾Research Center for Animal Life Science, Shiga University

S7-5 Investigation of tuberculin skin test in Mycobacterium tuberculosis-infected cynomolgus macaques

○ Tomotaka Okamura

Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition

Chairpersons: Hidenori Watanabe (JT Creative Services Inc.)
Satoshi Kunita (Jichi Medical University)

S8-1 History of the Animal Welfare Management Act, institutional management system and future prospects

○ Tamaki Nomura

Animal Welfare and Management Office, Ministry of the Environment

S8-2 Management on animal experiment at academic research institution

○ Mariko Sakamoto

Life Sciences Division, Ministry of Education, Culture, Sports, Science and Technology

S8-3 The past and future of the Animal Welfare and Ethics Committee

○ Eiji Sagara

Center for Comparative Medicine, Hyogo Medical University

S8-4 The activities of the Committee on Training Schemes for Laboratory Animal Managers

○ Masami Morimatsu

Facul. Vet. Med., Hokkaido Univ.

S8-5 Role and activities of the Assessment and Verification Program Committee

○ Ryuichi Miura

Office for Life Science Research Ethics and Safety

S8-6 External verification system for animal experimentations conducted by the JALAS

○ Chihiro Koshimoto

University of Miyazaki

S8-7 Study Committee on Applicable Laws and Regulations to further improve institutional management

○ Kyoko Shioya

National Cerebral and Cardiovascular Center

Chairpersons: Kimie Niimi (RIKEN Center for Brain Science)
Noboru Ogiso (National Center for Geriatrics and Gerontology)

LAS1-1 Anesthesia and euthanasia for experimental animals in consideration of the 3Rs

○ Hisayoshi Takagi

Laboratory Animal Facility & Service, Hamamatsu University School of Medicine

LAS1-2 The perioperative management of monkeys

○ Sou Wada

Astellas Pharma Inc.

LAS1-3 Artificial intelligence-supported animal behavior analysis

○ Koji Kobayashi

Food and Animal Systemics, The University of Tokyo

LAS1-4 Development of automated analysis home-cage system for multiple common marmosets

○ Terumi Yurimoto

Central Institute for Experimental Animals

LAS Seminar 2

May 25 (Thu) 9:00 ~ 11:30

Room 3 (2F 202/201)

Chairpersons: Ryuichi Miura (The University of Tokyo)

Ayako Isotani (Nara Institute of Science and Technology)

LAS2-1 Let's start to use lentiviral vectors for animal experiment

○ Yuka Morioka

Institute for Experimental Animals, Kobe University Graduate School of Medicine

LAS2-2 No problem for beginners! Let's start adenovirus vector now

○ Tomoko Nakanishi¹⁾, Megumi Yamaji¹⁾, Mariko Nakamura¹⁾, Shigeto Sato¹⁾, Izumu Saito²⁾

¹⁾CBRR, Juntendo University, ²⁾Department of Physiology, Juntendo University

LAS2-3 You don't know anything and can't make vectors, but you can make a knock-in animal easily

○ Arata Honda

Center for Development of Advanced Medical Technology, Jichi Medical University

LAS2-4 Development and application of Stealth RNA Vector (SRV)

○ Mahito Nakanishi

TOKIWA-Bio, Inc.

LAS Seminar 3

May 26 (Fri) 9:00 ~ 11:30

Room 3 (2F 202/201)

Chairpersons: Hiroshi Kiyonari (RIKEN Center for Biosystems Dynamics Research)

Takashi Inoue (Central Institute for Experimental Animals)

LAS3-1 "Annual killifish", a model animal for the aging research of cells and individuals

○ Daisuke Kurokawa

Misaki Marine Biological Station, School of Science, The University of Tokyo

LAS3-2 A gecko that is not good at climbing walls, Madagascar ground gecko

○ Hiroshi Kiyonari

RIKEN Center for Biosystems Dynamics Research

LAS3-3 Suncus is not a rodent

○ Kazuyuki Mekada

Faculty of Science, Okayama University of Science

LAS3-4 Cotton rat – a unique animal model for comorbidities

○ Teppei Nakamura

Laboratory of Laboratory Animal Science and Medicine, Faculty of Veterinary Medicine, Hokkaido University

Oral Presentation (Best Presentation Award)

May 24 (Wed) 9:00 ~ 11:30

Room 1 (2F Main Hall)

Chairpersons: Mitsuru Kuwamura (Osaka Metropolitan University)

Ayako Isotani (Nara Institute of Science and Technology)

BP-01 sPLA2 activated EV derivatives (SPREDS) regulate inflammation via lipid pathway

○ Shunya Nakayama¹⁾, Kosuke Kamiya¹⁾, Yasushi Nakamoto¹⁾, Ai Kotani^{1,2)}

¹⁾Tokai University School of Medicine, ²⁾Tokai University the Institute of Medical Sciences

BP-02 Analysis of common marmoset embryos culture beyond post-implantation

○ K Kishimoto¹⁾, CA Penfold²⁾, M Kamioka¹⁾, H Hu³⁾, TE Boroviak²⁾, E Sasaki¹⁾

¹⁾CIEA, ²⁾Univ. of Cambridge, ³⁾Upstate Med. Univ.

BP-03 Beta-1,4-galactosyltransferase 3-deficiency suppresses the growth of immunogenic tumors in mice

○ Heng Wei¹⁾, Chie Naruse¹⁾, Kazushi Sugihara¹⁾, Xuchi Pan¹⁾, Aki Ikeda¹⁾, Daisuke Takakura²⁾,
Nana Kawasaki²⁾, Masahide Asano¹⁾

¹⁾Institute of Laboratory Animals Graduate School of Medicine, Kyoto University,

²⁾Graduate School of Medical Life Science, Yokohama City University

BP-04 PKD1 knock-out cynomolgus monkey as a human autosomal dominant polycystic kidney disease model

○ Shoma Matsumoto¹⁾, Toshifumi Morimura¹⁾, Etsuko Morishige²⁾, Yosuke Numata²⁾, Masatsugu Ema¹⁾

¹⁾Research Center for Animal Life Science, Shiga University of Medical Science,

²⁾Shin Nippon Biomedical Laboratories, Ltd.

BP-05 Placental injection enables the functional integration of human pancreatic progenitor cells in mice

○ Arata Wakimoto^{1,2)}, Hyojung Jeon³⁾, Atsushi Noda²⁾, Ching-Wei Liao^{1,2)}, Yohei Hayashi⁴⁾,
Michito Hamada²⁾, Satoru Takahashi²⁾

¹⁾PhD Program in Human Biology, University of Tsukuba,

²⁾Laboratory of Anatomy and Embryology, University of Tsukuba,

³⁾Laboratory for Stem Cell Therapy, University of Tsukuba,

⁴⁾RIKEN Bioresource Center

BP-06 The automated pain assessment from mouse face

○ Koji Kobayashi¹⁾, Masahito Yamamoto²⁾, Takahisa Murata^{1,3)}

¹⁾Food and Animal Systemics, The University of Tokyo,

²⁾Autonomous Systems Engineering Laboratory, Hokkaido University,

³⁾Animal Radiology, The University of Tokyo

BP-07 Development of a new production method for marmoset oocytes and litters using xenotransplantation

○ Luna Hirayama¹⁾, Hiroaki Taketsuru²⁾, Rie Natsume¹⁾, Katsuya Hirasawa²⁾, Shuko Adachi²⁾, Sayaka Kuwabara²⁾, Nae Saito²⁾, Kenji Sakimura¹⁾, Manabu Abe¹⁾, Toshikuni Sasaoka²⁾

¹⁾Dept Animal Model Dev, Niigata Univ., ²⁾Dept Comp & Exp Med, Brain Res Inst, Niigata Univ.

BP-08 Rapid generation of endometrial cancer model by *in vivo* genome editing in mice

○ Ryosuke Kobayashi¹⁾, Reika Kawabata²⁾, Makoto Sugiyama³⁾, Tetsunari Oyama⁴⁾, Masato Ohtsuka⁵⁾, Takuro Horii¹⁾, Sumiyo Morita¹⁾, Masahiko Nishiyama²⁾, Izuhito Hatada¹⁾

¹⁾Laboratory of Genome Science, IMCR, Gunma University, ²⁾GIAR, Gunma University,

³⁾Faculty of Veterinary Medicine, Kitasato University, ⁴⁾Graduate School of Medicine, Gunma University,

⁵⁾School of Medicine, Tokai University

BP-09 Generation and analysis of mice harboring multiple HLA loci using chromosome engineering technology

○ Nanami Kishima¹⁾, Takashi Moriwaki¹⁾, Narumi Uno²⁾, Kanako Kazuki³⁾, Teruhiko Suzuki⁴⁾, Wakana Nakagawa¹⁾, Reika Yuno¹⁾, Kazuma Tomizuka²⁾, Yasuhiro Kazuki^{1,5)}

¹⁾Department of Chromosome Biomedical Engineering, Graduate School of Medical Sciences, Tottori University,

²⁾Laboratory of Bioengineering, Department of Applied Life Science, School of Life Science, Tokyo University of Pharmacy and Life Sciences,

³⁾Chromosome Engineering Research Center (CERC), Tottori University,

⁴⁾Stem Cell Project, Tokyo Metropolitan Institute of Medical Science,

⁵⁾Chromosome Engineering Research Group, The Exploratory Research Center on Life and Living Systems (ExCELLS), National Institutes of Natural Sciences

BP-10 Pathological analysis of mouse models of IARS disorder

○ Masaki Watanabe¹⁾, Kouya Shishido¹⁾, Nao Kanehira¹⁾, Koki Hiura¹⁾, Kenta Nakano²⁾, Tadashi Okamura²⁾, Hayato Sasaki¹⁾, Nobuya Sasaki¹⁾

¹⁾Lab. of Laboratory Animal Science and Medicine, Dep. of Veterinary Medicine, Kitasato Univ.,

²⁾Dep. of Laboratory Animal Medicine, National Center for Global Health and Medicine

BP-11 Large Maf transcription factors are the major regulators of type IIb myofibers

○ Shunya Sadaki¹⁾, Ryo Fujita¹⁾, Takuto Hayashi¹⁾, Ayano Nakamura¹⁾, Yui Okamura¹⁾, Sayaka Fuseya¹⁾, Michito Hamada¹⁾, Eiji Warabi¹⁾, Akihiro Kuno¹⁾, Masafumi Muratani¹⁾, Akiko Ishii¹⁾, Risa Okada²⁾, Dai Shiba²⁾, Takashi Kudo¹⁾, Satoru Takahashi¹⁾

¹⁾University of Tsukuba, ²⁾Japan Aerospace Exploration Agency (JAXA)

BP-12 The role of glycosylation in podocytes for glomerular filtration

○ Sayaka Fuseya¹⁾, Riku Suzuki²⁾, Risa Okada²⁾, Toshiaki Usui³⁾, Naoki Morito³⁾, Kozue Hagiwara¹⁾, Takashi Sato¹⁾, Satoru Takahashi²⁾, Takashi Kudo²⁾

¹⁾Cellular and Molecular Biotechnology Research Institute, AIST,

²⁾Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba,

³⁾Department of Nephrology, Faculty of Medicine, University of Tsukuba

Oral Presentation

May 24 (Wed)

Room 2 ~ 4, 9:00 ~ 11:00

Room 2 and 4, 14:00 ~ 16:30

Poster Presentation

May 24 (Wed) ~ 26 (Fri)

Room: Poster & Exhibition 1 and 2 (1F Multi-purpose Hall and 101/02)

Core Time: May 24 (Wed) 17:00 ~ 18:00 (Odd numbers of P-001 ~ 108)

May 25 (Thu) 16:30 ~ 17:30 (Even numbers of P-001 ~ 108)
(BP-01 ~ 12)

Luncheon Seminar 1 (Hoshino Laboratory Animals, Inc.)

May 24 (Wed), 11:45 ~ 12:45

Room 2 (2F Hall 200)

Chairperson: Yoshikazu Hoshino (Hoshino Laboratory Animals, Inc.)

LS-1 NSY.B6-Tyr⁺,A^y strain, a novel model mouse for type 2 diabetes mellitus with early onset and persistent hyperglycemia.

Tamio Ohno (Division of Experimental Animals, Graduate School of Medicine, Nagoya University)

Luncheon Seminar 2 (KAC Co.,Ltd.)

May 24 (Wed), 11:45 ~ 12:45

Room 3 (2F 202/201)

Chairperson: Yoshifumi Taniguchi (Technorogy Solution Dept. KAC Co., Ltd.)

LS-2 3Rs and SDGs in laboratory animal technology education

Yoshifumi Taniguchi¹⁾, Mariko Amano¹⁾, Makoto Murakami²⁾

¹⁾Technorogy Solution Dept. KAC Co., Ltd. ²⁾Hundred Co., Ltd.

Luncheon Seminar 3 (The Jackson Laboratory Japan, Inc.)

May 24 (Wed), 11:45 ~ 12:45

Room 4 (3F Hall 300)

Chairperson: Shigeri Maruyama (Production Department, The Jackson Laboratory Japan, Inc.)

LS-3 The past, present, and future of health monitoring

Yuki Suzuki (Health Monitoring Services, The Jackson Laboratory Japan, Inc.)

Luncheon Seminar 4 (HAMRI Co., Ltd.)

May 25 (Thu), 12:00 ~ 13:00

Room 2 (2F Hall 200)

Chairperson: Yoshihiro Ito (HAMRI Co., Ltd.)

**LS-4 Spatial sterilization with hydrogen peroxide gas and recent cases
— from the perspective of microbial control —**

Kosuke Kuwahara (Juzen Bio Systems)

Luncheon Seminar 5 (The Jackson Laboratory Japan, Inc.)

May 25 (Thu), 12:00 ~ 13:00

Room 3 (2F 202/201)

Chairperson: Masanao Sanagi (Quality Assurance Department, The Jackson Laboratory Japan, Inc.)

LS-5 Evaluating cancer immunotherapies *in vivo* using translationally relevant humanized NSG™ mice

Sebastian Rodriguez (Technical Information Service Department, The Jackson Laboratory Japan, Inc.)

Luncheon Seminar 6 (KYUDO CO., LTD.)

May 25 (Thu), 12:00 ~ 13:00

Room 4 (3F Hall 300)

Chairperson: Toru Takeo (Division of Reproductive Engineering, CARD, Kumamoto University)

LS-6 Breaking new ground in rat *in vitro* fertilization

Toru Takeo¹⁾, Satohiro Nakao¹⁾, Katsuma Yamaga¹⁾, Naomi Nakagata²⁾, Nobuyuki Mikoda²⁾

¹⁾Division of Reproductive Engineering, CARD, Kumamoto University,

²⁾Division of Reproductive Biology and Innovation, CARD, Kumamoto University

Luncheon Seminar 7 (MIURA Co., Ltd.)

May 26 (Fri), 12:00 ~ 13:00

Room 2 (2F Hall 200)

Chairperson: Tsutomu Kurosawa (Kagoshima University Visiting Professor, National Institute of Health Sciences
Visiting Researcher, ISO/TC194/WG3 Convener)

LS-7 1. Utilization of batch cleaning equipment in animal research laboratories

2. Application examples of mixed hydrogen peroxide and ozone gas sterilizer

Nobutoshi Oota (Kanto Medical Equipment Branch Office, MIURA Co., Ltd.)

Luncheon Seminar 8 ([Part 1] CLEA Japan, Inc., [Part 2] Central Institute for Experimental Animals)

May 26 (Fri), 12:00 ~ 13:00

Room 4 (3F Hall 300)

Chairperson: Erika Sasaki (Central Institute for Experimental Animals)

[Part 1]

LS-8-1 Development of quantitative and qualitative analytical methods for Chorionic Gonadotropin (CG) in the common marmoset: focusing on simple and practical immunochromatographic test for early diagnosis of pregnancy

Takuma Soga (CLEA Japan, Inc.)

[Part 2]

LS-8-2 Artificial insemination and monitoring of ovulation cycle in common marmoset using a Chorionic Gonadotropin pregnancy test kit

Keiko Kishimoto (Central Institute for Experimental Animals)

Equipment Exhibition

May 24 (Wed) ~ May 26 (Fri)

Room: Poster & Exhibition 1 and 2 (1F Multi-purpose Hall and 101/102)

Hospitality Room

May 24 (Wed) ~ May 26 (Fri)

[HR-1] Central Institute for Experimental Animals (CIEA) (3F 304)

[HR-2] Natsume Seisakusho Co., Ltd. (4F 401)

[HR-3] CLEA Japan, Inc. (4F 402)

[HR-4] HAMRI Co., Ltd. (4F 403)

[HR-5] KYUDO Co., Ltd. (4F 404)

[HR-6] TALAS (Tsukuba Association for Laboratory Animal Science) (4F 407)

Child Care Room

May 24 (Wed) ~ May 26 (Fri)

Director and councillor Meeting

May 23 (Tue) 15:00 ~ 17:00

Room 3 (2F 202)

Social Gathering (Banquet)

May 25 (Thu) 18:30 ~ 20:30

Hotel Nikko Tsukuba, Annex Bldg., 1F