
Day 1 Program Dec. 8 (Mon)

Opening Remarks

13:00~13:15

Lecture Room 1 [12F Conference Hall]

Symposium 1: Recent advances in alternatives to animal testing

13:15~15:15

Lecture Room 1 [12F Conference Hall]

Organizers: Yoshinori Katakura(*Kyushu University*), Hiroko Isoda(*University of Tsukuba*)

This symposium has been organized with the aim of providing information on topics related to food and health. We will introduce new initiatives, including alternative methods to animal testing for safety and functional evaluations of foods and pharmaceuticals. In particular, we request presentations on examples of functional testing systems for foods and pharmaceuticals using iPS cells and organoid-derived intestinal and liver cells, as well as new approaches to safety evaluations.

S1-01 Human iPS Cell-Derived Intestinal Cells Useful for Drugs and Functional Foods Development

13:15

Tamihide Matsunaga

Nagoya City University

S1-02 Trends in the Development of New Approach Methodologies (NAMs) and their Application to the Safety Assessment of Pharmaceuticals, foods, and Chemicals

13:55

Seiichi Ishida

Sojo University

S1-03 Development Of Organoid-derived Enterocytes And Hepatocytes From Human iPS Cells For Pharmaceutical Research

14:35

Hiroyuki Mizuguchi^{1, 2, 3, 4, 5}

¹Graduate School of Pharmaceutical Sciences, The University of Osaka, Osaka, Japan,

²The Center for Advanced Medical Engineering and Informatics, The University of Osaka, Osaka, Japan,

³Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), The University of Osaka, Osaka, Japan,

⁴Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Osaka, Japan,

⁵National Institute of Biomedical Innovation, Osaka, Japan

Symposium 2: Future of cell manufacturing

15:30~17:30

Lecture Room 1 [12F Conference Hall]

Organizers: Masahiro Kino-oka(*The University of Osaka*), Ryuji Kato(*Nagoya University*)

This symposium will introduce technologies that contribute to the manufacture of cell processing products for regenerative medicine and cell therapy. In particular, The symposium will promote understanding by presenting the latest technologies related to process control, quality control, QbD, manufacturing stability, prediction, and efforts toward actual manufacturing, and will hold discussions that lead to future prospects.

S2-01 Biophysical Immune Cell Phenotyping for Ensuring CAR-T Cell Therapy Efficacy and Safety

15:30

Kerwin Kwek Zeming¹, Wei-Xiang Sin¹, Kwan Zen Nicholas Tan¹, Yen Hoon Luah¹,
Francesca Lorraine Wei Inng Lim², Michaela Su-Fern Seng³, Yunxin Chen², Michael Birnbaum^{1, 4},
Jongyoon Han^{1, 4}

¹SMART Centre, Singapore, ²Singapore General Hospital, Singapore, Singapore,

³KK Women's and Children's Hospital, Singapore, ⁴Massachusetts Institute of Technology

S2-02 Enhancing iPSC Differentiation Synchrony through Mechanical Memory Modulation by Botulinum Hemagglutinin

16:00

Mee-Hae Kim¹, Masahiro Kino-oka^{1,2}

¹*Department of Biotechnology, Graduate School of Engineering, The University of Osaka,*

²*Research Base for Cell Manufacturability, The University of Osaka*

S2-03 AI-based Cell Image Analysis as Process Analytical Technology to Accelerate QbD-based Process Development

16:25

Ryuji Kato

Nagoya Univ.

S2-04 Closed system automation for autologous iPSC manufacture and quality management using commercial culture platforms

16:50

Masayoshi Tsukahara

CiRA Foundation, Kyoto Univ.

S2-05 Future Prospects for Cell Manufacturing

17:15

Masahiro Kino-oka

The University of Osaka

Day 2 Program Dec. 9 (Tue)

Plenary Lecture 1

8:45~9:25

Lecture Room 1 [12F Conference Hall]

Chair: Takeshi Omasa(*The University of Osaka*)

PL1 Spatiotemporal heterogeneity of *in vivo* immune systems elucidated by intravital optical imaging technologies

Masaru Ishii

Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka

Symposium 3: Digital & Data Share for Cell / Cell Culture Engineering

9:35~11:35

Lecture Room 1 [12F Conference Hall]

Organizer: Takeshi Omasa(*The University of Osaka*)

Digitalization and data sharing are becoming increasingly important in cell/cell culture engineering. This symposium will focus on genome-scale modeling, omics analysis, and international collaborative research, and will discuss recent results and the current state of international collaboration.

Intoroduction

9:35

S3-01 [Key Note] Towards Self-Driving Biomanufacturing with Bioprocess Digital Twins

9:40

Dong-Yup Lee

Sungkyunkwan University

S3-02 Omics Approach: Distinct Biological Processes and Pathways of Fast-Growing CHL-YN Cells from CHO Cells

10:15

Yu Tsunoda¹, Rintaro Arishima¹, Tatiana Boronina², Robert Cole², Noriko Yamano-Adachi^{1,3,4}, Michael Betenbaugh⁵, Takeshi Omasa^{1,3,4}

¹*Graduate School of Engineering, The University of Osaka, Japan,*

²*Mass Spectrometry and Proteomics Facility, Johns Hopkins University School of Medicine, USA,*

³*Manufacturing Technology Association of Biologics, Japan,*

⁴*Industrial Biotechnology Initiative Division, Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, Japan,*

⁵*Department of Chemical and Biomolecular Engineering, Johns Hopkins University, USA*

S3-03 Advances in media optimization using data-driven approach and media blending

10:40

Hiroataka Kuroda^{1,2,3}, Kazuya Sorada^{1,2,3}, Masahiro Yamazaki^{1,2,3}, Noriko Yamano Adachi¹, Takeshi Omasa¹

¹*Grad. Sch. Eng., UOsaka.,* ²*Shimadzu Corp.,* ³*Shimadzu Analytical Innovation Research Lab.*

S3-04 Accelerating Bioprocess Development for Antibody Production Using AI-Driven Optimization Technologies

11:05

Keisuke Shibuya¹, Muneyoshi Okamoto², Masayoshi Onitsuka³, Miyu Omatsu⁴, Hiroe Amou³, Natsumi Takeda², Hiroaki Kato², Masashi Oda², Kenichiro Oka¹

¹*Bio and Pharmaceuticals Business Development Department, Value Chain Business Development Division, Hitachi, Ltd.,*

²*Pharmaceutical & Biopharmaceuticals Engineering Division, Engineering Division, Hitachi Plant Services Co., Ltd.,*

³*Graduate School of Technology, Industrial and Social Sciences, Tokushima University,*

⁴*Graduate School of Science and Technology for Innovation, Tokushima University*

Conclusion

11:30

Luncheon Seminar 1

11:50~12:40

Lecture Room 1 [12F Conference Hall]

LS-1 Characterizations of Lentivirus Vector for Gene Therapy**Susumu Uchiyama***Department of Biotechnology, Graduate School of Engineering, The University of Osaka***Sponsor: TOSOH CORPORATION****Poster odd-number**

12:50-13:30

Poster Room [12F Conference Hall & 1202]

Poster even-number

13:30-14:10

Poster Room [12F Conference Hall & 1202]

ESACT Plenary Lecture 1

14:20~14:50

Lecture Room 1 [12F Conference Hall]

Chair: Yoshinori Katakura(*Kyushu University*)**EPL-1 Addressing the data & modeling challenges: Pseudo-perfusion experimentation illuminates CHO-cell behavior under perfusion conditions to facilitate continuous biomanufacturing**

14:20

Eleftherios Terry Papoutsakis, Nikola G Malinov, Shivam Barodiya, Marianthi G Ierapetritou
*University of Delaware***ESACT Plenary Lecture 2**

14:50~15:20

Lecture Room 1 [12F Conference Hall]

Chair: Yoshinori Katakura(*Kyushu University*)**EPL-2 Debottlenecking vaccine design and manufacturing****Antonio Roldao***Cell-based Vaccines Development Lab, Animal Cell Technology Unit, iBET, Oeiras, Portugal***Technical Seminar 1**

15:30~16:30

Lecture Room 1 [12F Conference Hall]

TS-1 Enhancing CHO Cell Line Development with CELL HANDLER2 for Monoclonal Antibody Manufacturing

15:30

Juan Betancur*Process Development, Renzoku Biologics Inc., Japan***Sponsor: Yamaha Motor Co., Ltd****TS-2 Impact of New GlycoForm® Feeds on metabolic flexibility of CHO-GS cells expressing Adalimumab**

15:50

Hemasunder Reddy*Pfanstiehl, Inc.***Sponsor: Pfanstiehl, Inc**

Symposium 4: Bioproduction - Cutting-edge technologies for acceleration of development

16:40~18:40 Lecture Room 1 [12F Conference Hall]

Organizers: Yasuhiro Takagi(*Astellas Pharma*), Tomohiro Doi(*U-Medico Inc.*)

Recent advances in cell line development have significantly accelerated biologics manufacturing. This symposium will highlight innovative technologies and strategies in cell line development aimed at enhancing stability, productivity, product quality, and process robustness, as well as shortening timelines for drug development. Experts will present state-of-the-art technologies, case studies, and future perspectives, providing attendees with valuable insights into overcoming current challenges and exploring new opportunities in cell line development and its applications.

S4-01 Developing a Robust Biologics Cell Line and Process Platform for Enhanced Speed and Productivity

16:40

Christina Alves

Takeda Pharmaceuticals

S4-02 Accelerating the DNA to IND Process: Streamlining Cell Line Development and Upstream Process Development at Kyowa Kirin

17:10

Tsuyoshi Yamaguchi, Keina Yamaguchi, Ryuma Nagano

Kyowa Kirin

S4-03 A Next-Generation Upstream Platform for Biotherapeutics: Achieving Industry-Leading Productivity and Shortened Timelines through Targeted Integration and Cell Engineering

17:40

Kenta Komura, Yuka Oishi, Hirona Moronaga, Tomoka Kunii, Shodai Komatsu, Kiyoshi Hirakawa

CHUGAI PHARMACEUTICAL CO.,LTD.

S4-04 CMC Strategy Of Bispecific Antibodies At IND Stage

18:10

Sherry Gu

WuXi Biologics

Day 3 Program Dec. 10 (Wed)

Plenary Lecture 2

9:00~9:40

Lecture Room 1 [12F Conference Hall]

Chair: Makoto Sadamitsu(*Takeda Pharmaceutical Company Limited*)

PL2 Evolution of downstream process of biologics is spurred by cell culture/cell engineering advancements

9:00

Shuichi Yamamoto^{1,2}

¹Yamaguchi University, Ube, Japan, ²Manufacturing Technology Association of Biologics, Tokyo, Japan

Symposium 5: Bioproduction - New technology for cell culture and purification

9:50~11:50

Lecture Room 1 [12F Conference Hall]

Organizers: Masayoshi Onitsuka(*Tokushima Univ.*), Yoshinori Kawabe(*Kyushu Univ.*)

Recent advances in upstream and downstream processes have greatly improved the efficiency and reliability of biologics manufacturing. This symposium will highlight innovative technologies and strategies in cell culture optimization, process intensification, and novel purification methods to enhance yield, consistency, and cost-effectiveness. Experts will present state-of-the-art technologies, case studies, and future perspectives, providing attendees with valuable insights into addressing current challenges and driving further progress in culture and purification process development.

S5-01 Novel bispecific antibody technology and challenges for enhanced production in CHO cell culture process

9:50

Ryuma Nagano, Narumi Tsukada, Tsuyoshi Yamaguchi, Kosuke Kuroda
Kyowa Kirin

S5-02 Model-Based Scale-up of Cell Culture Processes for Accelerated Technology Transfer

10:20

Emmanuel Anane¹, Francesco Vigato², Pau C. Bori², Budi Juliman²
¹Fujifilm Biotechnologies USA, ²Fujifilm Biotechnologies Denmark

S5-03 Scale-up Approach and Validation of ABEC Custom Single Run (CSR®) Bioreactors for High-Density CHO Cell Culture

10:50

Hironori Nishino¹, Hirofumi Kakihara¹, Masato Hoshino¹, Kana Yamamoto¹, Rosane Rech², Daniel Miller², Dimitra Aggeli², Ram Vutpala²
¹Daiichi Sankyo Co., Ltd., ²ABEC, Inc.

S5-04 Development and Implementation into GMP manufacturing of Continuous Capture Chromatography

11:20

Sumiko Hasegawa, Hirohisa Takeuchi, Mitsuru Nonogawa, Yasuo Chuman, Jeonghyun Son, Takashi Kaminagayoshi
Takeda Pharmaceutical Company

Luncheon Seminar 2

12:05~12:55

Lecture Room 1 [12F Conference Hall]

LS-2 Accelerating Cell Line Development: Automated Clone Screening with Cydem VT

Abigail Lee

Field Applications Specialist, Beckman Coulter Life Sciences

Sponsor: Beckman Coulter Life Sciences

TS-3 Advanced Chromatographic Solutions for Next-Generation Antibody Therapeutics

13:20

Hiroshi Tomizawa*Bioscience Division, Tosoh Corporation, Japan***Sponsor: TOSOH CORPORATION****TS-4-1 Poloxamer 188 Variant for Enhanced Formulation Stability of Biologics**

13:40

Juan Betancur¹, Nadine Löw¹, Tsubasa Sano², Felicitas Guth¹*¹BASF SE, Ludwigshafen am Rhein, Germany; ²BASF Japan Ltd., Tokyo, 106-6121, Japan***Sponsor: BASF Japan Ltd.****TS-4-2 Advancing Poloxamer 188 Chemistry: A Platform for Rational Design of Shear Protectants in Mammalian Cell Culture**

14:00

Fatemeh Dabbagh¹, Dominik-Hermann Schreiber¹, Sophia Ebert², Tsubasa Sano¹, Felicitas Guth¹*¹BASF SE, Ludwigshafen am Rhein, Germany; ²BASF Japan Ltd., Tokyo, 106-6121, Japan***Sponsor: BASF Japan Ltd.****Poster odd-number****14:30-15:10****Poster Room [12F Conference Hall & 1202]****Poster even-number****15:10-15:50****Poster Room [12F Conference Hall & 1202]**

Day 4 Program Dec. 11 (Thu)

Symposium 6: Current situation and perspective of rAAV manufacturing and quality control for gene therapy

9:00~11:00 Lecture Room 1 [12F Conference Hall]

Organizers: Susumu Uchiyama(*The University of Osaka*), Yugo Hirai(*Chitose Laboratory Corp.*)

Recombinant adeno-associated virus (rAAV) has emerged as a leading platform for in vivo gene therapy, with several products already approved and more than 200 candidates currently in development. Nevertheless, significant challenges remain, particularly in the manufacturing and quality control of this complex and novel modality. This symposium will highlight recent advances in rAAV CMC, including innovations in cell platforms, analytics, and clinical translation, and provide a forum to discuss future perspectives in the field.

Opening remarks

9:00

S6-01 Current Situation and Perspective of rAAV Manufacturing and Quality Control for Gene Therapy

9:10

Biao Dong^{1,2}

¹*Sichuan University State Key Laboratory of Biotherapy,*

²*West China Hospital National Clinical Research Center for Geriatrics*

S6-02 Encapsulation of nucleic acid impurities based on the mechanism of nucleic acid packaging into rAAV

9:45

Kazuhiisa Uchida

Kobe University

S6-03 HAT cells: A Viable Alternative for rAAV Manufacturing

10:10

Yugo Hirai

Chitose Laboratory Corp.

S6-04 Production of adeno-associated viral vectors by a novel human derived cell line HAT and comprehensive characterization of purified vectors

10:35

Susumu Uchiyama¹, Yasuo Tsunaka¹, Saki Shimojo¹, Karin Bando¹, Aoba Matsushita², Kimitoshi Takeda², Yuki Yamaguchi¹, Kazuaki Nakamura³, Ryo Asahina⁴, Yugo Hirai⁴, Hirokazu Hirai⁵, Tsukasa Ohmori⁶, Mitsuko Fukuhara², Takeshi Omasa¹

¹*The University of Osaka*, ²*U-Medico Inc*, ³*Riken*, ⁴*Chitose Laboratory Corporation*, ⁵*Gunma University*,

⁶*Jichi Medical University*

Poster odd-number

11:10-11:50 Poster Room [12F Conference Hall & 1202]

Poster even-number

11:50-12:30 Poster Room [12F Conference Hall & 1202]

Luncheon Seminar 3

12:40~13:30 Lecture Room 1 [12F Conference Hall]

LS-3 Next Generation CHO Host for High Producing Clones

Sadao Ozawa

Merck Limited, Tokyo, 106-0041, Japan

Sponsor: Merck Ltd.

Chairs: Kyoko Masumi(*Kobe University*), Ryo Misaki(*The University of Osaka*)

O-01 Enhancing rAAV genome titer - transfection optimization using DoE approach

13:40

Yusuke Tomioka¹, Janice Tan²

¹Merck Ltd., ²Merck Pte Ltd.,

O-02 A versatile HEK293 cell culture medium enables various intensified AAV production processes

13:53

Jose Romero Sanchez¹, **Shan Gao**¹, Hamid Soleymani¹, Francisco Franco¹, Chandana Sharma¹, Katsuko Sato¹, Masafumi Nishino¹, Nozomu Tonoike², Omid Taghavian²

¹FUJIFILM Biosciences, ²FUJIFILM Corporation

O-03 Heat-Inducible Hepatic Cells in Hydrogel Microfibers for Liver Models and Drug Testing

14:06

Silas Habimana¹, Ian Paulo Calicdan Gigante², Nana Shirakigawa¹, Hiroyuki Kitano¹, Yoshinori Kawabe¹, Masamichi Kamihira^{1,2,3}

¹Dept. Chem. Eng., Fac. Eng., Kyushu Univ., Fukuoka, Japan,

²Grad. Sch. Syst. Life Sci., Kyushu Univ., Fukuoka, Japan,

³Corresponding Author: Tel.: +81-92-802-2743; Fax: +81-92-802-2793. E-mail: kamihira@chem-eng.kyushu-u.ac.jp

O-04 Photo-responsive Cell Anchoring Surfaces for Single-cell Cancer Cytotoxicity Assay of Immunocytes

14:19

Satoshi Yamaguchi, Shinya Yamahira

The University of Osaka

O-05 The Effect of All-Trans-Retinoic Acid on the Targeting of Senescent Cells to NK Cells

14:32

Rui Ono, Yuka Takeshita, Nozomu Eto

Graduate School of Agriculture, University of Miyazaki, Miyazaki, Japan

O-06 STREAMLINING BIOPROCESSES BY CONVERTING A DUAL-FEED INTO A SINGLE-FEED SYSTEM WITH PEPTIDES

14:45

Christina Jost¹, Tomislav Trescec¹, **Spandan Mishra**², Anne Benedikt¹, Stephan Brinkmann¹

¹Evonik Operations GmbH, ²Evonik India Pvt. Ltd.

O-07 MACHINE LEARNING-DRIVEN CELL LINE SELECTION FOR HIGH-DENSITY PERFUSION CULTURE

14:58

Shuhei Katayama¹, Maiko Wakita¹, Keiichi Onodera¹, Ken Matsui¹, Tatsuya Matsuura¹, Yuta Murakami¹, Yuanzhong Li¹, John Raven², Leon Pybus², Shinichi Nakai¹

¹FUJIFILM Corporation, ²FUJIFILM Biotechnologies

O-08 Mitigating Cell Retention Filter Fouling for 2000L High-Density Perfusion Culture

15:01

Naomichi Hikichi¹, Kosuke Taniguchi¹, Shunichi Yoshida¹, John Raven², Leon Pybus², Shinichi Nakai¹

¹FUJIFILM Corporation, ²FUJIFILM Diosynth Biotechnologies Ltd., UK

O-09 Validation of Scale-Up Application for Real-Time Monitoring of CHO Cell Culture Process Using Raman Spectroscopy

15:14

Wataru Kobayashi, Ryuma Nagano, Yusaku Shimura, Tsuyoshi Yamaguchi

Kyowa Kirin Co., Ltd.

Chairs: Kosuke Nishi(*Ehime University*), Masayoshi Tsukahara(*Kyoto University*)

O-10 **Targeting Cancer Stem Cells In Colorectal Cancer Cell Spheroids Using Hydroxytyrosol, a Natural Phenolic Compound From Virgin Olive Oil**

13:40

Ana Catarina Macedo^{1,2}, Lucilia Pereira³, Maricruz Mamani⁴, Carolina Simó⁴, Virginia Garcia-Canas⁴, Cristina Albuquerque³, Maria Rosário Bronze^{1,2,5}, **Teresa Serra**¹

¹*iBET- Instituto de Biologia Experimental e Tecnológica, Oeiras, Portugal,*

²*Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa (ITQB NOVA), Oeiras, Portugal,*

³*Instituto Português de Oncologia de Lisboa Francisco Gentil, E.P.E (IPOLFG, EPE), Lisboa, Portugal,*

⁴*Institute of Food Science Research (CIAL), Spanish National Research Council (CSIC), Madrid, Spain,*

⁵*Faculdade de Farmácia da Universidade de Lisboa, Lisboa, Portugal*

O-11 **Transcriptomic Evidence of Black soybean Ethanolic Extract and 2-Aminobutyric Acid in Suppressing Neuroinflammation and Enhancing Synaptic Transmission**

13:53

Sharmin Aktar¹, Kyoko Toda³, Farhana Ferdousi^{2,4,5}, Shinya Takahashi^{2,4,5}, Hiroko Isoda^{1,2,4,5}, Mari Maeda Yamamoto³

¹*National Institute of Advanced Industrial Science and Technology(AIST),*

²*Tsukuba University, Graduate School of Life and Environmental Sciences,*

³*National Agriculture and Food Research Organization (NARO),*

⁴*Alliance for Research on the Mediterranean and North Africa (ARENA),*

⁵*Tsukuba Life Science Innovation (T-LSI) Program, University of Tsukuba, Japan*

O-12 **Antidepressant-like effects of olive mill by-products, rich in oleacein through enhanced neurogenesis in a mouse model of tail suspension-induced depression**

14:06

Kazunori Sasaki^{1,2}, Morgane Carrara³, Delphine Margout-Jantac³, Hiroko Isoda^{1,2,4}

¹*Alliance for Research on the Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba, Japan,*

²*AIST-University of Tsukuba Open Innovation Laboratory for Food and Medicinal Resource Engineering (FoodMed-OIL), AIST, Tsukuba, Japan,*

³*Qualisud, Université de Montpellier, Avignon Université, CIRAD, Institut Agro, IRD, Université de La Réunion, 34093 Montpellier, France,*

⁴*Faculty of Life and Environmental Sciences, University of Tsukuba, Tsukuba, Japan*

O-13 **Isorhamnetin halts proliferation of pancreatic cancer-associated fibroblasts via cell cycle arrest**

14:19

Munkhzul Ganbold¹, Pakavarin Louphrasitthiphol^{2,3}, Takafumi Miyamoto^{4,5}, Tatsuya Oda², Hiroko Isoda^{1,6}

¹*Alliance for Research on the Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba, Japan,*

²*Department of Gastrointestinal and Hepato-Biliary-Pancreatic Surgery, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan,*

³*Ludwig Institute for Cancer Research, Nuffield Department of Clinical Medicine, University of Oxford, Headington, Oxford, UK,*

⁴*Department of Internal Medicine (Endocrinology and Metabolism), Institute of Medicine, University of Tsukuba, Tsukuba, Japan,*

⁵*Transborder Medical Research Center, University of Tsukuba, Tsukuba, Japan,*

⁶*Institute of Life and Environmental Sciences, University of Tsukuba, Tsukuba, Japan*

O-14 Plant-derived miRNA osa-miR172d-5p attenuated bleomycin-induced pulmonary fibrosis by targeting Tab1

14:32

Motofumi Kumazoe, Fumiyo Ogawa, Ai Hikida, Yu Shimada, Ren Yoshitomi,
Yoshinori Fujimura, Hirofumi Tachibana
Kyushu Univ

O-15 Billion-Scale Production of Functional hiPSC-Derived Cardiomyocytes and Extracellular Vesicles in Bioreactors: Bridging Stem Cell Biology and Engineering

14:45

Margarida Serra^{1,2}, Pedro Vicente^{1,2}, Lara Inocencio^{1,2}, Ana Meliciano^{1,2}, Joao Jacinto^{1,2},
Catarina Freitas^{1,2}, Miguel Fuzeta^{1,2}, Marta H Costa^{1,2}, Paula M Alves^{1,2}

¹iBET, Instituto de Biologia Experimental e Tecnologica,

²ITQB-NOVA, Instituto de Tecnologia Quimica e Biologica António Xavier, Universidade Nova de Lisboa

O-16 Development Of An In Vitro Potency Assay For Mesenchymal Stem Cell-Mediated Extracellular Matrix Remodeling Using High-Density Collagen-Coated Surface

14:58

Shao Ying Tan¹, Mee-Hae Kim¹, Masahiro Kino-oka^{1,2}

¹Department of Biotechnology, Graduate School of Engineering, The University of Osaka,

²Research Base for Cell Manufacturability, The University of Osaka

O-17 Development Of An Evaluation Method For The Production Potential Of MSC-Derived Exosomes

15:01

Ariunkhuslen Ganzorig¹, Mee-Hae Kim¹, Masahiro Kino-oka^{1,2}

¹Department of Biotechnology, Graduate School of Engineering, The University of Osaka,

²Research Base for Cell Manufacturability, The University of Osaka

O-18 Effect of Filling and Freezing Processes on Cell viability and Extracellular Matrix Remodeling Potential of Mesenchymal Stem Cells

15:14

Ryoki Adachi¹, Mee-Hae Kim¹, Masahiro Kino-oka^{1,2}

¹Department of Biotechnology, Graduate School of Engineering, The University of Osaka,

²Research Base for Cell Manufacturability, The University of Osaka

Award Ceremony / Closing remarks 15:50-16:00 Lecture Room 1 [12F Conference Hall]