

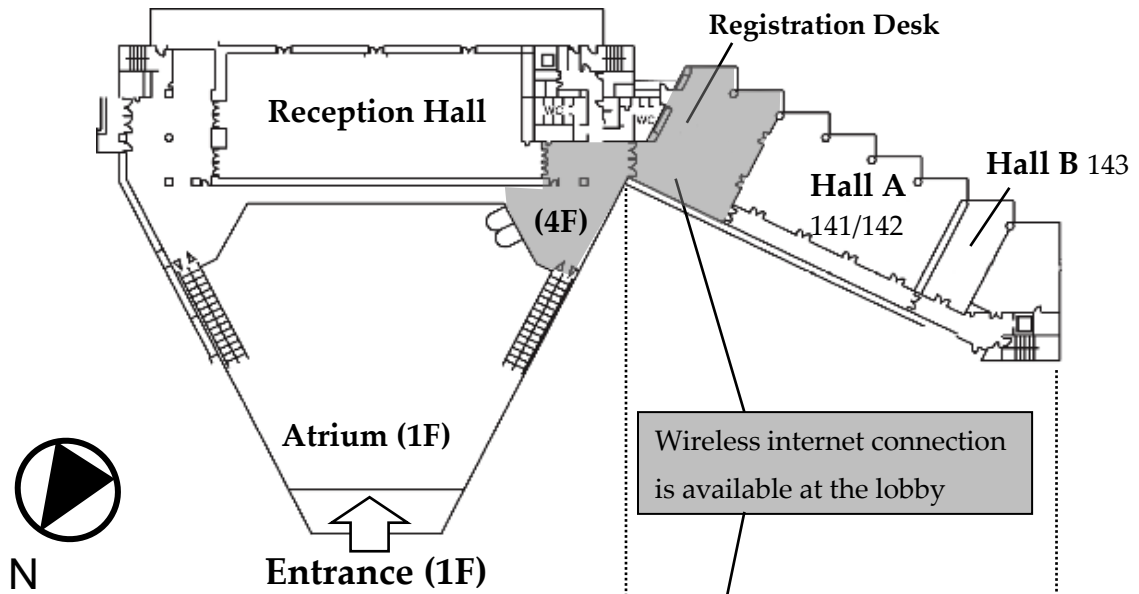
Schedule

	Nov. 27 (Tue)	Nov. 28 (Wed)	Nov. 29 (Thu)	Nov. 30 (Fri)
Morning		9:00-9:45 Plenary Lecture 1 "Structural physiology of channels " Prof. Yoshinori Fujiyoshi 10:00-12:00 Symposium 3 "Cell culture technologies for stem cells"	9:00-9:40 Plenary Lecture 3 "Multi-layered stochasticity control biological processes " Prof. Hansjörg Hauser 9:40-10:20 Plenary Lecture 4 "Engineering of cellular phenotype using microRNAs " Prof. Nicole Borth 10:30-11:45 Symposium 5 " Recent advances in CHO-omix technologies	9:00-9:45 Plenary Lecture 5 "Cell culture engineering in the post-genomic era " Prof. Wei-Shou Hu 10:00-12:00 Symposium 6 "Advanced engineering in biologics production"
Lunch Time		12:10-13:00 Luncheon Seminar 1	11:55-12:45 Luncheon Seminar 2	12:10-13:00 Luncheon Seminar 3
Afternoon	12:00- Registration 13:30-13:40 Opening Remarks 13:40-14:00 Murakami Memorial Lecture Dr. Gordon H. Sato 14:10-16:10 Symposium 1 "Biosciences on water and life" 16:20-18:20 Symposium 2 "Application of new cell technology for assessment of food function and safety"	13:10-13:50 Plenary Lecture 2 "Back to Basics: Mammalian cell based manufacturing of therapeutic proteins today and tomorrow" Prof. Florian Wurm, 13:50-14:40 Technical Seminar 1 14:40-17:00 Parallel Sessions Hall A: JAACT2012 Award Oral Session 1 Hall B: Oral session 2 17:00-19:00 Symposium 4 "The cutting-edge technologies in single cell-based analyses and measurements"	12:55-13:45 Technical Seminar 2 13:50-15:00 Parallel sessions Hall A: Oral Session 3 Hall B: Oral session 4 Excursion	13:10-14:40 Parallel Sessions Hall A: Oral Session 5 Hall B: Oral session 6 15:00-17:00 Poster Discussion (Reception Hall) 17:00-17:10 Poster Award Ceremony 17:10-17:20 Closing Ceremony
Evening	18:30-20:30 Get-together Party (Reception Hall)		18:00-20:30 Banquet (Tokugawaen)	

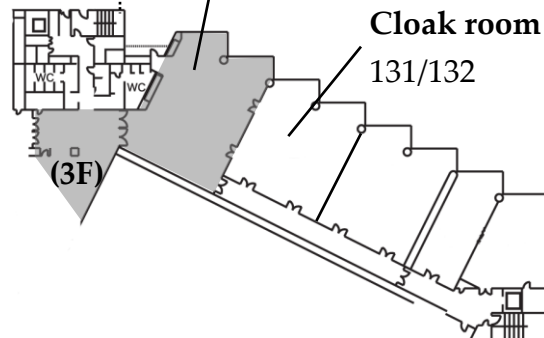
Room Guide

Nagoya Congress Center -Building 1-

Building 1 4th Floor



Building 1 3rd Floor



Program

[27 Nov (Tue)]

- 13:30-13:40** **Opening Remarks**
Takeshi Omasa
- 13:40-14:00** **Murakami Memorial Lecture**
Chairperson: Sanetaka Shirahata (Kyushu University, Japan)
MML Tetsuji Okamoto, J. Denry Sato, David W. Barnes, Gordon H. Sato (The Manzanar Project Foundation, USA)
"Biomedical Advances from Tissue Culture"
- 14:10-16:10** **Symposium 1**
Biosciences on water and life
Organizers: Sanetaka Shirahata (Kyushu University, Japan), Gerald Pollack (University of Washington, USA)
- 14:10 Sanetaka Shirahata (Kyushu University, Japan)
"Introduction: Recent progress on the functions of water in life"
- 14:15 Chairperson: Sanetaka Shirahata
S1-1 Gerald Pollack (University of Washington, USA)
"The Secret life of water: $E = H_2O$ "
- 15:30 Chairperson: Gerald Pollack (University of Washington, USA)
S1-2 Sanetaka Shirahata, Takeki Hamasaki, Kiichiro Teruya (Kyushu University, Japan)
"Newest research on the health benefit of electrochemically reduced water"
- 16:20-18:20** **Symposium 2**
Application of new cell technology for assessment of food function and safety
Organizers: Makoto Shimizu (The University of Tokyo, Japan) and Hiroaki Oda (Nagoya University, Japan)
- 16:20 Chairperson: Hiroaki Oda (Nagoya University)
S2-1 Shu-Chen Hsieh, Chung-Huang Wang, Ting-Jang Lu (National Taiwan University, Taiwan)

- “Establishment and evaluation of biotechnological platforms for screening functional food factors”
- 16:50 Chairperson: Hiroaki Oda (Nagoya University, Japan)
- S2-2 Tomokazu Fukuda (Tohoku University, Japan)
- “Application of induced pluripotent stem cells for the screening of low-molecular demethylating compounds”
- 17:20 Chairperson: Makoto Shimizu (The University of Tokyo, Japan)
- S2-3 Msayuki Murata, Fumi Kano (The Univeristy of Tokyo, Japan)
- “A resealed-cell system for analyzing pathogenic intracellular events: Insight into signal transduction cascade in hyperlipidemic or diabetic cells”
- 17:50 Chairperson: Makoto Shimizu (The University of Tokyo, Japan)
- S2-4 Tsuneo Hashizume, Hiroaki Oda (Takeda Pharmaceutical Company Ltd., Japan)
- “Development and application of a new genotoxicity test system with human hepatocyte cell lines”
- 18:30-20:30 Get together party: Reception Hall**

[28 Nov (Wed)]

- 9:00-9:45** **Plenary Lecture 1**
Chairperson: Hiroyuki Honda (Nagoya University, Japan)
PL1 Yoshinori Fujiyoshi (Nagoya University, Japan)
 "Structural physiology of channels"
- 10:00-12:00** **Symposium 3**
Cell culture technologies for stem cells
Organizers: Hiroyuki Honda (Nagoya University, Japan), Eiji Nagamori (Osaka University, Japan), Ryuji Kato (Nagoya University, Japan)
- 10:00 Chairperson: Ryuji Kato (Nagoya University, Japan)
S3-1 Mari Dezawa (Tohoku University, Japan)
 " Muse cells, a novel type of adult human pluripotent stem cells that reside in mesenchymal tissues: Their great possibility for regenerative medicine and tissue repair"
- 10:35 Chairperson: Ryuji Kato (Nagoya University, Japan)
S3-2 Miho K. Furue (National Institute of Biomedical Innovation, Japan)
 "A growth factor defined serum-free culture condition for human pluripotent stem cells toward the development of pharmaceutical application"
- 11:05 Chairperson : Eiji Nagamori (Osaka University, Japan)
S3-3 Katsuhisa Matsuura, Masanori Wada, Tatsuya Shimizu, Teruo Okano (Tokyo Women's Medical University, Japan)
 "The development of three-dimensional bioreactor system for pluripotent stem cell culture"
- 11:35 Chairperson: Eiji Nagamori (Osaka University, Japan)
S3-4 Masahiro Kino-oka, Mee-Hae Kim (Osaka University, Japan)
 "Surface design for stem cell cultures to regulate the undifferentiated and differentiated states"
- 12:10-13:00** **Luncheon Seminar 1**
CENTRAL SCIENTIFIC COMMERCE, INC.
LS-1 Christopher P Wilcox (Global R&D Director, Kerry Inc.)

“Optimized supplementation for enhancing cell line performance”

13:10-13:50 Plenary Lecture 2

Chairperson: Shuichi Hashizume (Idea-Creating Lab, Japan)

PL2 Florian Wurm (école Polytechnique Fédérale de Lausanne, Switzerland)

“Back to Basics: Mammalian cell based manufacturing of therapeutic proteins today and tomorrow”

13:50-14:40 Technical Seminar 1

TS1-1,2 **MOLECULAR DEVICES**

Christopher J Mann (Molecular Devices)

“Advanced biotherapeutic drug screening technologies”

TS1-3 **ASAHI KASEI MEDICAL CO., LTD.**

Takeyoshi Araki (Asahi Kasei Medical Co., Ltd.)

“Key points of establishing a virus filtration step”

14:40-17:00 Parallel sessions

Hall A: **Cerebration of JAACT2012 Award for Young Asian Researchers**

JAACT2012 Award Presentations (A1 – A4)

Oral Session 1 (O-1 – O-8)

Hall B: **Oral session 2 (O-9 – O-20)**

17:00-19:00 Symposium 4

The cutting-edge technologies in single cell-based analyses and measurements

Organizer: Shun'ichi Kuroda (Nagoya University, Japan)

17:00 Chairperson: Shun'ichi Kuroda (Nagoya University, Japan)

S4-1 Takeharu Nagai (Osaka University, Japan)

“Genetically-encoded functional probes applicable in conjunction with photo-manipulation technologies”

17:30 Chairperson: Shun'ichi Kuroda (Nagoya University, Japan)

- S4-2 Ikuo Fujii (Osaka Prefectural University, Japan)
“Directed evolution of antibodies and molecular-targeting peptides by one cell screening of yeast-displayed libraries”
18:00 Chairperson: Ikuo Fujii (Osaka Prefectural University, Japan)
- S4-3 Masataka Kinjo (Hokkaido University, Japan)
“Study of transport dynamics in living cell using fluorescence correlation spectroscopy”
18:30 Chairperson: Ikuo Fujii (Osaka Prefectural University, Japan)
- S4-4 Nobuo Yoshimoto, Shun’ichi Kuroda (Nagoya University, Japan)
“Automated high-throughput single cell-retrieving machine for breeding of biomedicine-producing cells”

[29 Nov (Thu)]

- 9:00-9:40 Plenary Lecture 3**
Chairperson: Takeshi Omasa (The University of Tokushima, Japan)
- PL3 Ulfert Rand, Julia Pulverer, Melanie Rinas, Johannes Schwerk, Mario Köster, Thomas Höfer, Hansjörg Hauser (Helmholtz Centre for Infection Research, Germany)
“Multi-layered stochasticity control biological processes”
- 9:40-10:20 Plenary Lecture 4**
Chairperson: Shun’ichi Kuroda (Nagoya University, Japan)
- PL4 Nicole Borth (Universität für Bodenkultur, Austria)
“Engineering of cellular phenotype using microRNAs”
- 10:30-11:45 Symposium 5**
Recent advances in CHO-omix technologies
Organizers: Hiroko Tsukamoto (AGC Chemicals Americas, Inc.), Haruhiko Tsumura (Fujifilm Kyowa Kirin Biologics, Japan), Masahiko Hosobuchi (Daiichi Sankyo RD Novare, Japan), Masami YOKOTA (Astellas Pharma Inc., Japan), Takeshi Omasa (The University of Tokushima, Japan)
- 10:30 Chairperson: Haruhiko Tsumura (Fujifilm Kyowa Kirin Biologics, Japan)
- S5-1 Takeshi Omasa (The University of Tokushima, Japan)
“Chromosomal instability of Chinese hamster ovary cell”
- 10:55 Chairperson: Hiroko Tsukamoto (AGC Chemicals Americas, Inc.)
- S5-2 Tomoyuki Igawa, Tetsuya Wakabayashi, Kunihiro Hattori (Chugai Pharmaceutical Co.Ltd., Japan)
“Application of protein engineering for industrial production of bispecific antibody”
- 11:20 Chairperson: Takeshi Omasa (The University of Tokushima, Japan)
- S5-3 Yidiresi Alimujiang, Kotani T, Sasaki M, Tohda H., Kumagai, H (Asahi Glass Co.,Ltd., Japan)

"The genome sequence facilitates the improvement of protein expression system -- Case in *Schizosaccharomyces pombe* --"

11:55-12:45 Luncheon Seminar 2

NICHIREI BIOSCIENCES INC.

LS-2 M. Gray, A. Christie (SAFC Biosciences)

"Raw material characterization: a path toward defining cell culture media"

12:55-13:45 Technical Seminar 2

TS2-1,2 **BECTON, DICKINSON AND COMPANY**

Masato Takeuchi (Becton, Dickinson and Company)

"Early process development integrating chemically defined supplements and feeds"

TS2-3 **JX NIPPON OIL & ENERGY CORPORATION**

Seiji Togawa, Michihisa Ikarashi, Yuichi Nagano, Marlin Frechette (IS Japan Co. Ltd.)

"New manufacturing facility for industrial cell culture media and raw material sourcing and management"

13:50-15:00 Parallel sessions

Hall A: **Oral Session 3** (O-21 – O-27)

Hall B: **Oral Session 4** (O-28 – O-34)

Excursion (Please see "Information")

Course A: Departure: 15:00 Tokugawa Art Museum

Course B: Departure: 15:30 Nagoya Castle

Course C: Departure: 17:15 direct move to the restaurant

18:00-20:30 Banquet: Garden Restaurant Tokugawaen

[30 Nov (Fri)]

9:00-9:45

Plenary Lecture 5

Chairperson: Chikashi Hirashima (Chugai Pharma Manufacturing Company, Japan)

PL5 Wei-Shou Hu, Nandita Vishwanathan, Huong Le, Andrew Yongky, Kathryn Johnson (University of Minnesota, USA)
"Cell culture engineering in the post-genomic era"

10:00-12:00

Symposium 6

Advanced engineering in biologics production

Organizers: Hiroko Tsukamoto (AGC Chemicals Americas, Inc.), Haruhiko Tsumura (Fujifilm Kyowa Kirin Biologics, Japan), Masahiko Hosobuchi (Daiichi Sankyo RD Novare, Japan), Masami YOKOTA (Astellas Pharma Inc., Japan), Takeshi Omasa (The University of Tokushima, Japan)

10:00 Chairperson: Takeshi Omasa (The University of Tokushima, Japan)

S6-1 Tim Johnson, Veena Warikoo, Frank Riske, Weichang Zhou, Konstantin Konstantinov (Genzyme, A Sanofi Company, USA)
"Integrated continuous biomanufacturing platform for the production of biologics"

10:30 Chairperson: Masami Yokota (Astellas Pharma Inc., Japan)

S6-2 Sei Murakami (Hitachi Plant Technologies, Ltd., Japan)
"Mammalian cell culture: Back to Basics, and Beyond
- Productivity enhancement in cell culture - "

11:00 Chairperson: Masahiko Hosobuchi (Fujifilm Kyowa Kirin Biologics, Japan)

S6-3 Hiroaki Nagashima, Akiko Watari (Chugai Pharmaceutical Co.Ltd., Japan)

"Process development for monoclonal antibody production using design of experiments and quality by design approach"

12:00 Chairperson: Hiroko Tsukamoto (AGC Chemicals Americas, Inc.)

S6-4 Marc Goemans (DSM Japan KK, Japan)

"DSM Biologics' innovative solutions to reduce costs in bioprocessing using XD® fermentation and Rhobust® Separation, being implemented in single use systems in the Brisbane facility"

(Australia) opening mid 2013”

- 12:10-13:00 Luncheon Seminar 3**
AJINOMOTO CO., INC
LS-3 Yoshimi Kikuchi (Ajinomoto Co., Inc.)
“CORYNEX®: a novel protein production system for
biologicals”
- 13:10-14:40 Parallel sessions**
Hall A: **Oral Session 5** (O-35 – O-42)
Hall B: **Oral Session 6** (O-43 – O-49)
- 15:00-17:00 Poster Discussion**
Core time : 15:00-15:50 Odd number
15:50-16:40 Even number
- 17:00-17:10 Poster Award Ceremony**
- 17:10-17:20 Closing Ceremony**

Oral Presentation

[28 Nov (Wed)]

Hall A:

14:40-15:40 JAACT2012 Award Session

Chairperson : Takeshi Omasa (The University of Tokushima, Japan), Kong Peng Lam (Bioprocessing Technology Institute, Singapore)

- 14:40 Cerebration of JAACT2012 Award for Young Asian Researchers
- 15:00 A-1 Say Kong Ng, Tessa Tan, Yang Wang, Daniel Ng, Lin-Tang Goh, Muriel Bardor, Victor Wong, Kong Peng Lam (Bioprocessing Technology Institute, Singapore)
“Production of functional soluble dectin-1 glycoprotein using an IRES-linked destabilized dihydrofolate reductase expression vector”
- 15:10 A-2 Yeon-Gu Kim, Byoungwoo Park, Jung Oh Ahn, Joon-Ki Jung, Hong Weon Lee, Eun Gyo Lee (KRIBB, Korea)
“New cell line development for antibody-producing Chinese hamster ovary cells using split green fluorescent protein”
- 15:20 A-3 Jeong Ah Kim, Jongho Choi, Hyun-Gyo Jung, Tai Hyun Park (Seoul National University, Korea)
“Simple generation of three-dimensional cell culture using magnetic nanoparticles”
- 15:30 A-4 Ya-Huang Chiu, Chang-Jer Wu (National Taiwan Ocean University, Taiwan)
“The protective effect of seaweed polysaccharide extracts on influenza A virus (H1N1) infection”

15:40-17:00 Oral Session 1

Chairperson : Masahiro Kawahara (The University of Tokyo, Japan) and Seiji Masuda (Kyoto University, Japan)

Safety and regulation

- 15:40 O-1 Alison Armstrong, Donna McMutrie, Colette Côté, Audrey Chang, John Kolman, Martin Wisher, David Onions (BioReliance)

Ltd, UK)

“Approaches and new technologies to identify viral contamination in biological”

- 15:50 O-2 Mohamed Bradai, Junkyu Han, Sami Sayadi, Naoyuki Funamizu, Hiroko Isoda (University of Tsukuba, Japan)
“Linear alkylbenzene sulfonate cytotoxicity: Proteomic approach using Caco-2 cells model for effect investigation and biomarkers identification”

Cell regulatory factors and signal transduction

- 16:00 O-3 Yuhui Huang, Shuntaro Tsukamoto, Shuhei Yamada, Akiko Abiru, Koji Yamada, Hirofumi Tachibana (Kyushu University, Japan)
“EGCG inhibits tumor growth by activating PP2A and tumor suppressor merlin through 67LR”
- 16:10 O-4 Satoshi Fukumitsu, Myra O. Villareal, Shoko Onaga, Kazuhiko Aida, Kiyoshi Ochiai, Junkyu Han, Hiroko Isoda (Nippon Flour Mills CO. LTD., Japan)
“ α -Linolenic acid suppresses cholesterol and triacylglycerol biosynthesis pathway by suppressing SREBPs expressions in 3T3-L1 adipocytes”
- 16:20 O-5 Masahiro Kawahara, Yuichiro Tone, Daichi Kawaguchi, Hiroshi Ueda, Teruyuki Nagamune (The University of Tokyo, Japan)
“A novel suicide switch utilizing an antigen-antibody system”
- 16:30 O-6 Hideto Nakabayashi, Masahiro Kawahara, Hiroshi Ueda, Teruyuki Nagamune (The University of Tokyo, Japan)
“Construction of antibody/insulin receptor chimera for mimicking insulin receptor signaling”
- 16:40 O-7 Yoshikazu Matsumura, Ayumi Kobayashi, Seiji Masuda (Kyoto University, Japan)
“Establishing a highly efficient protein production system in mammalian cells by manipulating the mRNA export step”

Cell culture engineering

- 16:50 O-8 Maria Joao De Jesus, Cedric Bürki, Maria Rodrigues, Olivier Bertini, Florian Wurm (ExcellGene SA, Switzerland)
“Orbital shaking in cylindrical vessels for cell culture: From high-throughput to large scale in disposable bioreactors”

Hall B:

15:00-17:00 Oral Session 2

Chairperson : Akiko Ogawa (Suzuka National College of Technology, Japan), Hiroshi Kurosawa (University of Yamanashi, Japan)

Production of biologicals

- 15:00 O-9 Neil Soice, Nripen Singh, James Hamzik, Merrilee Galloway, KS Cheng (EMD Millipore, USA)
"Primary clarification filters for the disposable clarification of monoclonal antibodies"

Cell culture engineering

- 15:10 O-10 Akifumi Yoshino, Kohji Nakazawa (The University of Kitakyushu, Japan)
"Formation of cell micropattern using TiO₂-based culture substratum"
- 15:20 O-11 Akiko Kida, Nobuo Yoshimoto, Jin Kobayashi, Shun'ichi Kuroda (Nagoya University, Japan)
"Rapid detection of efficient antibody-secreting cells at single-cell level by cell surface fluorescent immunosorbent assay"
- 15:30 O-12 Charlotte Pushparajan, Juan Daniel Claus, Gabriel Alberto Visnovsky (University of Canterbury, New Zealand)
"Development of a process for the large scale production of *Oryctes* virus in DSIR-HA-1179 insect cell cultures"
- 15:40 O-13 Yasufumi Imamoto, Akira Ogawa, Wataru Kurihashi, Yoshinobu Konno (Kyowa Hakko Kirin Co., Ltd., Japan)
"Comprehensive analysis on dipeptide to mammalian cell culture"

Chairperson : Duk Jae Oh (Sejong University, Korea), Satoshi Terada (University of Fukui, Japan)

- 15:50 O-14 Xiao Shen, David L. Hacker, Lucia Baldi, Florian M. Wurm (Ecole Polytechnique Fédérale de Lausanne, Switzerland)
"Transient gene expression (TGE) for rapid recombinant protein production using insect cells"
- 16:00 O-15 Masanori Sato, Akira Ito, Yoshinori Kawabe, Masamichi Kamihira (Kyushu University, Japan)

- “Construction of skeletal muscle tissues using genetically engineered myoblast cells”
- 16:10 O-16 Shinobu Kuwae, Ichiko Miyakawa, Tomohiro Doi, Hideyuki Kajihara, Tomotake Takai, Yasuharu Kamachi (Takeda Pharmaceutical Company Limited, Japan)
“Development of a chemically defined platform media for MAb production”
- 16:20 O-17 Andrew Clutterbuck, Lee Madrid, Aurore Lahille (Merck Millipore, France)
“Robust scalability of CellReady bioreactor platforms”
- 16:30 O-18 Benjamin Minow (Rentschler Biotechnologie GmbH, Germany)
“Fast track API manufacturing in a 1000-L single use facility facilitating a platform process and a simplified scale-up approach”
- 16:40 O-19 Hiroto Sasaki, Ichiro Takeuchi, Rumi Sawada, Yasujiro Kiyota, Kei Kanie, Hiroyuki Honda Ryuji Kato (Nagoya University, Japan)
“Multi-parametric morphological evaluation of differentiation status of mesenchymal stem cells”
- 16:50 O-20 Natalia Gomez, Shunsuke Ohira, Michael Hippach, Jimmy Huynh, Dan Nguyen, Marie Zhu (Agensys Inc., an Affiliate of Astellas Pharma Inc., USA)
“Simplifying a cell culture platform process using automated micro-scale bioreactors”

[29 Nov (Thu)]

Hall A:

13:50-15:00 Oral Session 3

Chairperson : Say Kong Ng (Bioprocessing Technology Institute, Singapore), Yoshinori Katakura (Kyushu University, Japan)

Production of biologicals

- 13:50 O-21 Masafumi Shibano, Chihiro Kato, Hiroyuki Yabe, Kazuo Okuyama (Asahi Kasei Medical Co., Ltd., Japan)
“Hollow fiber membrane with high protein-permeability in perfusion culture”

- 14:00 O-22 Ai Hasebe, Mitsuori Mayahara, Kenji Narita, Mitsuo Oda, Masanori Nakamura, Shun'ichi Kuroda, Tomoaki Niimi (Nagoya University, Japan)
"Characterization of bone-inducing protein NELL1 produced by HEK293-F cells"
- 14:10 O-23 Alexander Peters, Michael A Cunningham, Jane Ring, John Mumira, Samantha Luther, Susan Rigby, Redgine Armand, Joerg von Hagen (Merck Millipore, Germany)
"Development of a novel chemically-defined growth media for CHO cell application: Cellvento™ CHO-100"
- 14:20 O-24 Shuntaro Yamashita, Yoshinori Katakura, Ichiro Koguma, Sato Satoshi, Kazuo Okuyama (Kyushu University, Japan)
"Novel purification method of human antibody using a temperature-responsive protein A column"
- 14:30 O-25 Takao Ito, Venkatesh Natarajan, Elizabeth Goodrich, Fred Mann (Merck Millipore, Merck Ltd, Japan)
"A case study using a preconfigured single use platform to improve speed to clinic for monoclonal antibodies and reduce risk"
- 14:40 O-26 Tomohiro Doi, Hideyuki Kajihara, Minoru Iwamoto, Ichiko Miyakawa, Tatsuo Fujimoto, Yasuharu Kamachi, Tomotake Takai, Hiroyuki Takahashi, Shinobu Kuwae (Takeda Pharmaceutical Company, Japan)
"Development of a high producing cell line through intense MSX selection"

Cell culture engineering

- 14:50 O-27 Tibor Anderlei, Cedric Bürki, Florian Wurm (Adolf Kühner AG, Switzerland)
"Easy scale up from mL to the 200L (or even 2500L) scale with disposable orbital shaken bioreactors"

Hall B:

13:50-15:00 Oral Session 4

Chairperson : Takeaki Okamoto (Ehime University), Ya Huang Chiu (National Taiwan Ocean University)

Functional substances in food and natural sources

- 13:50 O-28 Michiko Yasuda, Xiaojuan Xu, Masashi Mizuno, Hitoshi Ashida (Kobe University, Japan.)
“ β -Glucan from *Saccharomyces cerevisiae* reduces lipopolysaccharide-induced inflammatory responses in RAW264.7 macrophages”
- 14:00 O-29 Motoki Murata, Reia Kosaka, Kana Kurihara, Mari Maeda-Yamamoto, Koji Yamada, Hirofumi Tachibana (Kyushu University, Japan)
“Suppressive effect of green tea on disuse muscle atrophy in mice”
- 14:10 O-30 Kaoru Fujii, Keishi Kadooka, Takashi Matsumoto, Fumiki Morimatsu, and Yoshinori Katakura (Kyushu University, Japan)
“Molecular basis for the carnosine-induced transcriptional activation of BDNF gene in Caco-2 cells”
- 14:20 O-31 Hideko Motojima, Myra O. Villareal, Junkyu Han, Hiroko Isoda (University of Tsukuba, Japan)
“Inhibitory effect of hydroxytyrosol on type I allergy reaction in RBL-2H3 cells”
- 14:30 O-32 Feten Zar Kalai, Tetsuya Inaguma, Ayumi Ikeya, Riadh Ksouri, Abderrazak Smaoui, Junkyu Han, Chedly Abdelly, Hiroko Isoda (University of Tsukuba, Japan)
“*In vitro* and *in vivo* studies of the anti-obesity and anti-diabetic activities of a Tunisian edible halophyte: *Nitraria retusa* Forssk”
- 14:40 O-33 Hidekazu Nakanishi, Takeki Hamasaki, Tomoya Kinjo, Shigeru Kabayama, Kiichiro Teruya, Sanetaka Shirahata, (Kyushu University, Japan)
“Action mechanism of platinum nanoparticles as redox regulation factors”
- 14:50 O-34 Mahmoud Ben Othman, Junkyu Han, Mohamed Neffati, Hiroko Isoda (University of Tsukuba, Japan)
“*In vitro* anti-oxidant activity and *in vivo* anti-stress effect of Tunisian *Cymbopogon schoenanthus* extract”

[30 Nov (Fri)]

Hall A:

13:10-14:30 Oral Session 5

Chairperson : Yoshinori Kawabe (Kyushu University, Japan), Junkyu Han (Tsukuba University, Japan)

Functional cell lines

- 13:10 O-35 Hideaki Yamamoto, Takanori Sambuichi, Yoshinori Kawabe, Akira Ito, Masamichi Kamihira (Kyushu University, Japan)
“Generation of genetically engineered hepatoma cells with inducible high liver functions”

Functional substances in food and natural sources

- 13:20 O-36 Imen Samet, Junkyu Han, Sami Sayadi, Hiroko Isoda (University of Tsukuba, Japan)
“Differentiation induction of chronic myeloid leukemia K562 cells by olive leaf extract of Tunisian variety”
- 13:30 O-37 Byung-Yoon Cha, Wen Lei Shi, Kotaro Watanabe, Takayuki Yonezawa, Toshiaki Teruya, Kiyotake Suenaga, Yuichi Ishikawa, Shigeru Nishiyama, Kazuo Nagai, Je-Tae Woo (Chubu University, Japan)
“Antiproliferative activity of acerogenin C on PDGF-induced human aortic smooth muscle cells proliferation”
- 13:40 O-38 Kazunori Sasaki, Junkyu Han, Hiroko Isoda (University of Tsukuba, Japan)
“Effects of caffeoylquinic acid on spatial learning and memory through the activation of neurotransmitters synthesis and mitochondrial functionality”
- 13:50 O-39 Junkyu Han, Tetsuya Inaguma, Hiroko Isoda (University of Tsukuba, Japan)
“Anti-obesity effects of black soybean extract and cyanidin-3-glucoside on 3T3-L1 cells and db/db mice”
- 14:00 O-40 Tomoya Kinjo, Takeki Hamasaki, Hanx Yan, Hidekazu Nakanishi, Tomohiro Yamakawa, Kiichiro Teruya, Shigeru Kabayama, Sanetaka Shirahata (Kyushu University, Japan)
“Antioxidative effects of hydrogen via redox regulation mechanism in animal cells”

Transgenic animals

- 14:10 O-41 Yoshinori Kawabe, Yuuki Hayashida, Kensaku Numata, Shota Harada, Yoshifumi Hayashida, Akira Ito, Masamichi Kamihira (Kyushu University, Japan)
“Generation of genetically manipulated chickens producing T-cell epitope-containing egg white for oral immunotherapy of Japanese cedar pollinosis”

Animal cells for in vitro assay

- 14:20- O-42 Hideyuki Mizumachi, Hiroyuki Ijima (Kyushu University, Japan)
“Novel culture system with functional molecules-immobilizable ECM for neural stem cells”

Hall B:

13:10-14:20 Oral Session 6

Chairperson : Gyun Min Lee (KAIST, Korea), Hiroyuki Ijima (Kyushu University, Japan)

Production of biologicals

- 13:10 O-43 Takanori Inao, Takuro Yamashiro, Yoshinori Kawabe, Akira Ito, Masamichi Kamihira (Kyushu University, Japan)
“Cre-mediated accumulative gene integration for establishing high producer cells of recombinant antibodies”
- 13:20 O-44 Henry Weichert (Sartorius Stedim Biotech GmbH, Germany)
“PAT - Benefits of online glucose-lactate monitoring and control”
- 13:30 O-45 Noriaki Shimizu, Yoshio Araki, Chiemi Noguchi, Tetsuro Hamafuji (Hiroshima University, Japan)
“Recombinant protein production in CHO cells using the IR/MAR-amplification based technology”
- 13:40 O-46 Hugo de Wit (Cellca GmbH, Germany)
“Economic process development”

Transplantation, artificial organs, and organ substitutes

- 13:50 O-47 Hiroyuki Ijima, Shintaro Nakamura (Kyushu University, Japan)
“Organ-specific extracellular matrix as a functional scaffold for tissue engineering”
- 14:00 O-48 Yasushi Sato, Shigeyuki Wakitani, Mutsumi Takagi (Hokkaido University, Japan)

- 14:10 O-49 Jingjia Ye, Nana Shirakigawa, Hiroyuki Ijima (Kyushu University, Japan)
“Xeno-free preparation of scaffold-free cartilage-like cell sheet using bone marrow mesenchymal stem cells”
“Hybrid organoid consists of liver cell and growth factor-immobilizable ECM for liver tissue engineering”

Poster Presentation

[30 Nov (Fri)]

15:00-17:00, Reception Hall

Core time: Odd numbers (15:00-15:50), Even number (15:50-16:40)

Cell culture engineering

- P-1 Satoko Moriyama, Ken Fukumoto, Masayuki Taniguchi, Shigeru Moriyama, Takuo Tsuno, and Satoshi Terada (University of Fukui, Japan)
“Novel culture supplement obtained from rice bran”
- P-2 Gen Niimi, Tomihiko Ide (Fujita Health University, Japan)
“Budding and division of human anuclear erythrocytes in serum-starved cultures”
- P-3 Satoshi Terada, Satoko Moriyama, Ken Fukumoto, Yoko Suzuki, Yui Okada, Rinaka Yamauchi, Eiji Nakata, Masayuki Taniguchi, Shigeru Moriyama, Takuo Tsuno (University of Fukui, Japan)
“Effect of rice bran extract on mammalian cell culture”
- P-4 Akiko Ogawa, Shinya Mizui, Yasuhito Chida, Masafumi Shimizu, Satoshi Terada, Takeshi Ohura, Kyo-ichi Kobayashi, Saori Yasukawa, Nobuyuki Moriyama (Suzuka National College of Technology, Japan)
“Rakkyo fructan relieves freezing stress of animal cells”
- P-5 Takuya Hara, Koji Nakazawa, (The University of Kitakyushu, Japan)
“Characteristics of mouse ES cell on the micropatterned embryoid body culture”
- P-6 Tomoya Sugiyama, Hisahiro Tabuchi (Chugai Pharmaceutical Co., Ltd., Japan)
“Temperature management of feed medium improved mAb yield and mAb related substances”
- P-7 Ayumi Horiguchi, Yoshitsugu Ohnuki, Mami Aoyagi, Hiroshi Kurosawa (University of Yamanashi, Japan)
“Effective use of ROCK inhibitor (Y-27632) for reproducible

- manipulations in the research of human iPS cells”
- P-8 Kairo Wakamatsu, Yasufumi Imamoto, Tetsuji Hayashi, Jun Ishibashi, Yoshinobu Konno, Toshiyuki Suzawa (Kyowa Hakko Kirin Co., Ltd., Japan)
“Efficient filtration of cell culture medium by adding chelator as a medium component”
- P-9 Naoko Miyaguchi, Kouhei Hamamoto, Takahumi Ogawa, Hiroyuki Sonoda, Tomohisa Katsuda, Hideki Yamaji (Kobe University, Japan)
“Production of recombinant antibody molecules using insect cells”
- P-10 Yuri Hotta, Azusa Minamitani, Kazuma Narita, Tomohisa Katsuda, Hideki Yamaji (Kobe University, Japan)
“Production and purification of Japanese encephalitis virus-like particles from recombinant insect cells”
- P-11 Satoshi Ozawa, Tsuyoshi Fujioka, Yukio Nakamura (Hitachi, Ltd., Japan)
“Novel device for vitrification of human pluripotent stem cells”
- P-12 Haque Amranul, Koichi Kutsuzawa, Motazedian Ali, Toshihiro Akaike (Tokyo Institute of Technology, Japan)
“A chimera protein of cell adhesion molecule accelerates neural differentiation of mouse induced pluripotent stem cells”
- P-13 Tsuyoshi Nakamura, Shinya Ishikami, Yasuaki Kawai, Saori Nishimura, Makoto Sugiyama, Kenichiro Furuki, kihiro Hayashi, Marie Zhu, Wolf Noe, Nobuo Kasahara, Akira Egashira, Masami Yokota (Astellas Pharma Inc., Japan)
“Usability evaluation of novel single use bioreactor for biopharmaceuticals production”
- P-14 Miki Tatsuzawa, Masayoshi Onitsuka, Akihiro Shirai, Hideaki Maseda, Takeshi Omasa (Tokushima University, Japan)
“Trehalose suppresses the antibody aggregation in CHO cell culture”
- P-15 Tomomi Tsutsui, Akitoshi Nishizawa, Akihiko Shirai, Masayoshi Onistuka, Hideaki Maseda, Taleshi Omasa (The University of Tokushima, Japan)
“Expression profiling in UPR-regulated Chinese hamster ovary cell line”

- P-16 Mai Takahashi, Syuichi Kimura, Seyed Mohammad Ali Haghparast, Yihua Cao, Takayuki Itoi, Akihiro Shirai, Masayoshi Onitsuka and Takeshi Omasa (The University of Tokushima, Japan)
“Relationship between chromosomal instability and cell characterization in Chinese hamster ovary cell lines”
- P-17 Takuya Kikuchi, Miho Shimoji, Shinya Ishikami, Shunsuke Ohira, Kenichiro Furuki, Tsuyoshi Nakamura*, Akira Egashira, Masami Yokota (Astellas Pharma Inc., Japan)
“Evaluation of mini bioreactor system for cell culture process development”
- P-18 Masayoshi Onitsuka, Akihiro Shirai, Takeshi Omasa (The University of Tokushima, Japan)
“Rapid evaluation of glycosylation in CHO antibody production”
- P-19 Masayoshi Onitsuka, Miki Tatsuzawa, Kazuo Okuyama, Ichiro Koguma, Akihiro Shirai, Takeshi Omasa (The University of Tokushima, Japan)
“Purification and aggregation analysis of humanized IgG-like bispecific diabody-Fc with thermo responsive Protein A (TRPA) column”
- P-20 Kamal Prashad, Sarika Mehra (Indian Institute of Technology Bombay, India)
“Effect of valproic acid on productivity of stable recombinant cell lines”
- P-21 Cancelled
- P-22 Hideaki Togashi, Naoki Tahara, Shuzo Kozima (JGC Corporation, Japan)
“Application of microbubble in bioreactor”
- P-23 Woon Yong Choi, Choon Geun Lee, Chi Ho Song, Yong Chang Seo, Bo Hyeon Kim, Hye Won Lim, Hyeon Yong Lee (Kangwon National University, Korea)
“Enhancement of anticancer activities of low quality fresh ginseng by fermentation associated with high pressure process”
- P-24 Chi Ho Song, Yong Chang Seo, Woon Yong Choi, Choon Geun Lee, Do Un Kim, Jae Youn Chung, Hee Chul Chung, Dong Sik Park, Choong Je Ma, Hyeon Yong Lee (Kangwon National University, Korea)

“Enhancement of skin whitening activities of *Codonopsis lanceolata* by stepwise steaming process”

P-25 Kyoungho Lee, Masayoshi Onitsuka, Kohsuke Honda, Hisao Ohtake, Takeshi Omasa (Osaka University, Japan)

“Accelerated gene amplification by cell cycle checkpoint engineering and its industrial applications”

Production of biologicals

P-26 Ichiro Koguma, Kazuo Okuyama, Kenichi Nagase, Teruo Okano (Asahi Kasei Medical Co., Ltd., Japan)

“Purification study of antibody using novel thermo-responsive cation exchange chromatographic resin”

P-27 Junya Narita, Yoshimasa Yamana (TOTO LTD., Japan)

“The stable protein expression system in mammalian cells by using the homologous recombination on the *hprt* locus”

P-28 Takuo Kawase, Larry J. Cummings, Daniel Yoshikawa, Shintaro Kobayashi, Yasufumi Ueda, Shinya Takuma, Tetsuya Isono, Kenichi Akamatsu (Chugai Pharmaceutical Co., Ltd., Japan)

“Column lifetime enhancement for hydroxyapatite chromatography using an alternative co-buffer system”

P-29 Emi Inoko, Masao Mori, Takahiro Nagano, Takeshi Yahagi, Akifumi Noro, Hiroshi Okamoto, Kenichi Akamatsu (Chugai Pharmaceutical Co., Ltd., Japan)

“Case study on cell separation process by TFF at small and large scale”

P-30 Masashi Enzu, Chie Sudo, Chihiro katou, Hironobu Shirataki, Kazuo Okuyama (Asahi Kasei Medical Co., Ltd., Japan)

“Novel application of protein purification by hollow fiber type anion-exchange membrane”

P-31 Takao Ito, Venkatesh Natarajan, Elizabeth Goodrich, Fred Mann (Merck Millipore, Merck Ltd, , Japan)

“Accelerated process development and scale-up for clinical production of monoclonal antibodies”

P-32 Shuichi Hashizume, Hiroharu Kawahara (Idea-Creating Lab, Japan)

“Improvement in a human IgE-inducing system by *in vitro* immunization”

- P-33 Teruhiko Ide, Toru Tanaka, Yoshiharu Asaoka, Hidetaka Kobayashi, Satoshi Hanzawa, Koji Nakamura, Kouta Hatayama, (Tosoh Corporation, Japan)
 “Development of a novel affinity ligand engineered from human FcγRI for antibody purification”
- P-34 Takeyoshi Araki, Tomoko Hongo-Hirasaki, Koichiro Yanagida, Fujiharu Nagoya, Masaharu Inouye (Asahi Kasei Medical Co., Ltd., Japan)
 “Applications of Planova™ BioEX virus removal filters for manufacturing process of biopharmaceuticals”
- P-35 Richard Dennis (BioScale Inc., USA)
 “Development of a BioScale AMMP™ assay to determine presence and accessibility of His-tag for candidate fusion proteins”

Functional cell lines

- P-36 Yasuhito Chida, Takuro Kawamura, Kyoichi Takagi, Satoshi Terada (University of Fukui, Japan)
 “Establishment of mammalian cell line suitable for producing recombinant protein using mutation induced by high energy beam radiation”

Glycoengineering

- P-37 Maho Amano, Hanna Eriksson, Joachim C. Manning, Katharina M. Detjen, Sabine André, Shin-Ichiro Nishimura, Janne Lehtiö, Hans-Joachim Gabius (Hokkaido University, Japan)
 “Tumor suppressor p16^{INK4a}: anoikis-favoring decrease in N/O-glycan/cell surface sialylation in a pancreatic carcinoma model”

Immunologicals, monoclonal antibodies, and vaccines

- P-38 Takeaki Okamoto, Mamoru Tanaka, Kenji Yamagishi, Sigenobu Tone, Takuya Sugawara (Ehime University, Japan)
 “Impact of peptide from casein and peptide-related amino acid on degranulation in rat basophilic leukemia cell line RBL-2H3”
- P-39 Makoto Suzuki, Akira Hosono, Daiki Kamoi, Satoshi Hachimura, Yoshimasa Takahashi, Yoshika Momose, Kazuhiro Hirayama, Kikuji Itoh, Kyoko Takahashi, Shuichi Kaminogawa (Nihon University, Japan)
 “Immunoresponses in the large intestine are different between cecal

- patch cells and colonic patch cells”
- P-40 Yuichi Inoue, Aiko Inoue, Hiroharu Kawahara (Kitakyushu National College of Technology, Japan)
“Enhanced production of human monoclonal antibodies by retinoic acid through gap junctions in human hybridomas”
- P-41 Yoshie Oishi, Shoko Shinoda, Yoko Fuke (Tokyo metropolitan University, Japan)
“Influence of immune cytokines on osteometabolism in human cultured cells”
- P-42 Ken Kakihara, Lee Anne Beausang, Kristen Leong, 3rd Anthony Maletta, (CTC Laboratory Systems, Japan)
“Evaluating AMMP Protein A assays: Comparing sample preparation methods, ligand performance & assay performance”
- P-43 Atsushi Enomoto, Takahiro Takeuchi, Kimihiko Takahashi, Masaya Chibana, Satoshi Hachimura Hiroshi Kawakami (Gunma University, Japan)
“Interleukin-10-producing regulatory cells induced by cow's milk lactoperoxidase”
- P-44 Toru Shoji, Ken-ichi Nishijima, Shinji Iijima (Nagoya University, Japan)
“Siglec-9 regulates macrophage function”
- P-45 Yong Chang Seo, Woon Yong Choi, Choon Geun Lee, Chi Ho Song, Hye Won Lim, Hyeon Yong Lee (Kangwon National University, Korea)
“Enhancement of skin immune activities of *Curcuma longa* Linne leaf by high pressure pretreatment process”

Transplantation, artificial organs, and organ substitutes

- P-46 Mutsumi Takagi, Hiromichi Yoshioka, Naochika Tokunaga (Hokkaido University, Japan)
“Noninvasive discrimination of undifferentiated iPS cells and malignant tumor cells among cultivated cells for transplantation by the measurement of laser phase shift”
- P-47 Masashi Fujiwara, Shigeharu Miyagi, Keiji Tensho, Shigeyuki Wakitani, Mutsumi Takagi (Hokkaido University, Japan)
“Construction of osteochondral-like tissue graft combining β -tricalcium phosphate block and scaffold-free mesenchymal stem

cell sheet”

Safety and regulation

- P-48 Takuya Sugahara, Yuichiro Nakata, Kosuke Nishi, Sogo Nishimoto (Ehime University, Japan)
“Studies on immunotoxicity of o-phenylphenol (OPP) and metabolite”

Cell regulatory factors and signal transduction

- P-49 Toshihiko Saheki, Miku Sayama, Tsukasa Ozaki, Sho Tomita, Toshihiro Sugiyama, Itaru Kojima (Gunma University, Japan)
“Analysis of histone H3 acetylation in rat hepatic stem-like cells during multiple nucleation”
- P-50 Maasa Tsuge, Hidenori Kaneoka, Shunsuke Kidani, Yusuke Masuda, Katsuhide Miyake, Shinji Iijima (Nagoya University, Japan)
“The new target of sumoylation on UV irradiation”

Functional substances in food and natural sources

- P-51 Ika Dyah Kumalasari, Kosuke Nishi, Eni Harmayani, Sri Raharjo, Takuya Sugahara (Ehime University, Japan)
“Immunostimulatory activity of bengkoang (*Pachyrhizus erosus* L. Urban) fiber extracts on lymphocytes and macrophages”
- P-52 Momoko Ishida, Kosuke Nishi, Hisashi Watanabe, Takuya Sugahara (Ehime University, Japan)
“Inhibitory effect of aqueous spinach extract on degranulation of RBL-2H3 cells”
- P-53 Agus Budiawan Naro Putra, Hitoshi Morishige, Sogo Nishimoto, Kosuke Nishi, Ryusuke Shiraishi, Mikiharu Doi, Takuya Sugahara (Ehime University, Japan)
“Studies on the immunostimulatory effects of jellyfish collagen on macrophage”
- P-54 Madoka Furuya, Remi Kamakura, Yutaka Miura, Kazumi Yagasaki (Tokyo University of Agriculture and Technology, Japan)
“Effect of green rooibos extract on oxidative stress and glucose uptake in cultured RIN5-F cells and L6 myocytes”
- P-55 Hiroshi Shinmoto, Kanako Ishida, Kaho Hiramatsu, Ryuta Haga, and Yasunori Naganawa (Tamagawa University, Japan)
“Effects of berberine and pioglitazone on differentiation of mouse

- pre-adipocytes 3T3-L1”
- P-56 Fan -Chi Ko , Li -Cyuan Wu, Zwe-Ling Kong (National Taiwan Ocean University, Taiwan)
“Assessment of curcumin on bioactivities using cultured cells model”
- P-57 Fengjuan Li, Yoko Takahashi, Kohji Yamaki (National Food Research Institute, Japan)
“Identification trial of angiotensin-converting enzyme activity reducing compounds of fermented soybean paste products in some areas of China”
- P-58 Phuong Le Vu, Ryo Takatori,1 Taku Iwamoto, Kenji Sato, Mamoru Totsuka, Hideo Satsu, Kazuhiro Chida, Makoto Shimizu (The University of Tokyo, Japan)
“Effects of prolyl-hydroxyproline, a collagen peptide, on gene expression of mouse skin cells in co-culture”
- P-59 Rihito Soejima, Kazunori Takeshima, Fumihiko Sakai, Yukio Kadooka, Kazumi Yagasaki, Yutaka Miura (Tokyo University of Agriculture and Technology, Japan)
“Anti-inflammatory effect of dietary sphingomyelin concentrate from bovine milk *in vitro* and *in vivo*”
- P-60 Misaki Katsuragawa, Satomi Akiyama, Motoko Ohnishi (Chubu University, Japan)
“Identification of small-molecules inhibitors of anti-CD98 antibody-induced cell fusion”
- P-61 Keisuke Sawada, Kazuya Hamada, Hideyuki Kishida, Mitsuaki Kitano, Kaku Nakagawa, Hitoshi Ashida (Kobe University, Japan)
“Glabridin, an isoflavane in licorice, stimulates glucose uptake via Ca²⁺/calmodulin-dependent protein kinase II in L6 myotubes”
- P-62 Miho Goshitani, Kotoe Taniguchi, Kimitaka Kawasaki, Hirofumi Tachibana, Akira Ichikawa (Kyoto Institute of Technology, Japan)
“Effect of epigallocatechin-3-gallate on chondrogenic differentiation of mouse chondroprogenitor cells, ATDC5”
- P-63 Takeki Hamasaki, Tomoya Kinjyo,2Hidekazu Nakanishi,2 iichiro Teruya, Shigeru Kabayama, Sanetaka Shirahata (Kyushu University, Japan)
“Analysis of apoptosis pathway induced by platinum nanoparticles

- and hydrogen molecules”
- P-64 Masakazu Takahashi, Yuta Sugiyama, Shiori Nakamura, Naoya Hashimoto, Yoshito Kubo, Kyoichi Kobayashi, Kyuichi Kawabata, Hajime Ohigashi (Fukui Prefectural University, Japan)
“Identification and molecular analyses of galactoglycerolipids from edible plants as radical generation inhibitory compounds in activated phagocytes”
- P-65 Keisuke Sawada, Kyuichi Kawabata, Takatoshi Yamashita, Kengo Kasaki, Norio Yamamoto, Hitoshi Ashida (Kobe University, Japan)
“Unsaturated fatty acids improve palmitate-induced insulin resistance in skeletal muscle cells”
- P-66 Akira Iwamoto, Aiko Inoue, Yuichi Inoue, Hirofumi Tachibana, Hiroharu Kawahara (Kyushu University, Japan)
“GAPDH suppresses IgE class switching *in vitro*”
- P-67 Mami Sumida, Yoshiuori Fujimura, Kaori Sugihara, Shuntaro Tsukamoto, Koji Yamada, Hirofumi Tachibana (Kyushu University, Japan)
“Identification of green tea polyphenol EGCG sensing motif on 67-kDa laminin receptor”
- P-68 Yasuhiro Tajima, Hayato Murase, Kazuhiro Satake, Luis Octavio Regasini, Vanderlan da Silva Bolzani, Thomas Efferth, Hiroshi Nakagawa (Chubu University, Japan)
“Nitensidine A, guanidine alkaloid from *Pterogyne nitens*, induces osteoclastic cell death”
- P-69 So Young Kim, Byung-Yoon Cha, Je-Tae Woo, Genji Imokawa (Chubu University, Japan)
“Nobiletin is a potent anti-melanogenic agent which acts as a melanogenic intracellular signaling interrupter”

Animal cells for in vitro assay

- P-70 Keishi Hata, Gen Toshima, Fumiko Kimura, Mizuho Itoh², Yuka Iwama, Junichiro Takahashi (Akita Research Institute of Food & Brewing, Japan)
“An *in vitro* assay system for antihyperlipidemic agents by evaluating lipoprotein profiles from human intestinal epithelium-like cells”

- P-71 Remi Kamakura, Yutaka Miura, Kazumi Yagasaki (Tokyo University of Agriculture and Technology, Japan)
 “Protective effect of mangiferin, a honey-bush polyphenol, against oxidative stress in cultured RIN-5F cells”
- P-72 Kenichiro Donai, Kengo Kuroda, Kyoung-Ha So, Akane Inagaki, Katsuhiko Nishimori, Tomokazu Fukuda (Tohoku University, Japan)
 “Establishment of induced pluripotent stem cell lines that allow monitoring of the re-programming status of genomes”
- P-73 Manami Nishi, Daiki Tanaka, Tetsunosuke Mochizuki, Hideo Satsu, Mamoru Totsuka, Makoto Shimizu (The University of Tokyo, Japan)
 “Analysis of tryptase-mediated interaction between intestinal epithelial cells and mast cells”
- P-74 Trung Xuan Ngo, Eiji Nagamori, Masahito Taya, Masahiro Kino-oka (Osaka University, Japan)
 “Network formation through active migration of human vascular endothelial cells in a multilayered skeletal myoblast sheet”
- P-75 Eiji Nagamori, Masashi Oda, Masahiro Kino-oka (Osaka University, Japan)
 “Spatial habitation of umbilical vein endothelial or fibroblast cells in multi-layered myoblast cell sheet”
- P-76 Takeshi Shirao, Hitoshi Ashida (Kobe University, Japan)
 “Pepper extract promotes glucose uptake in L6 skeletal muscle cells”

Other topics concerning animal cell technology

- P-77 Ryota Nakajima, Kohin Shu, Shizu Takeda (Hitachi, Ltd., Japan)
 “A novel closed culture device for transepithelial electrical resistance measurement during fabrication of epithelial cell sheets”
- P-78 Ken-ichi Kusumoto, Takehiro Itoh, Yumiko Kiyonagi, Takanori Sakai, Takahiro Ogata, Shinji Morishita, Yoshihiro Yoshikawa, Masakatsu Takeuchi, Masafumi Iwamoto, Shintaro Koga, Ai Kakishita, Tomoyuki Ishikawa, Chanida Piyassapan, Eiichi Kanazawa, Itaru Hamachi (Fukuoka Industrial Technology Center, Japan)
 “Development of chemically defined medium for suspension CHO

- and HEK293 cells”
- P-79 Shintaro Koga, Ai Kakishita, Yukari Kita, Takanori Sakai, Takahiro Ogata, Shinji Morishita, Masafumi Iwamoto, Takehiro Itoh, Yumiko Kiyonagi, Yoshihiro Yoshikawa, Masakatsu Takeuchi, Eiichi Kanazawa, Chanida Piyassapan, Tomoyuki Ishikawa, Itaru Hamachi, Ken-ichi Kusumoto (Fukuoka Industrial Technology Center, Japan)
“Transient gene expression and cytokine production by lipid-based gene delivery optimized for HEK293 and CHO cells”
- P-80 Eiichi Kanazawa, Shintaro Koga (Fukuoka Industrial Technology Center, Japan)
“Cell proliferation and osteoblastogenesis of MC3T3 cells and hMSCs on metal oxide ceramics *in vitro*”
- P-81 Iku Higuchi, Hideki Tatsukawa, Kiyotaka Hitomi (Nagoya University, Japan)
“Expression of transglutaminase 4 and screening of its preferred substrate sequences using phage-displayed peptide library”
- P-82 Nozomu Eto, Kenta Egashira, Mayuko Oki, Kiyoko Nagahama (University of Miyazaki, Japan)
“PAK1 activation associated with a synergistic anti-hepatitis C virus effect by the combination of interferon and ribavirin”
- P-83 Tomoyuki Ishikawa, Chanida Piyassapan, Shintaro Koga, Ai Kakishita, Eiichi Kanazawa Ken-ichi Kusumoto (Fukuoka Industrial Technology Center, Japan)
“Supplementary factors promoting antibody production and cell growth of hybridoma 9E10 cells under serum-free conditions”
- P-84 R. Mizuto, Y. Sakai, R. Takahashi, T. Okajima (Hokkaido University, Japan)
“Cell cycle dependence of cell mechanics investigated by traction force microscopy”
- P-85 Sudawan Chaeychomsri, Win Chaeychomsri, Motoko Ikeda, Michihiro Kobayashi (Kasetsart University, Thailand)
“Effects of insect cell line on the production of *Helicoverpa armigera* nucleopolyhedrovirus”
- P-86 Ko-ichiro Miyamoto, Junkyu Han, Tatsuo Yoshinobu, Hiroko Isoda (Tohoku University, Japan)

- P-87 Soo Min Noh, Madhavi Sathyamurthy, Jae Seong Lee, Yeon Jung Kim, Jin Hyoung Park, Ji Yeon Jeong, Ju Woong Jang, Gyun Min Lee1 (KAIST, Korea)
“Development of the system for multi-channel TER measurement”
“Overexpression of PACEsol improves BMP-7 processing in recombinant CHO cells”
- P-88 Eric Baek, Jin Seok Seo, Gyun Min Lee (KAIST, Korea)
“Characterization of human fusion cell line F2N78 in 3-L bioreactor for the production of recombinant antibody”
- P-89 Da Young Yu, Tae Kwang Ha, Min Kyoung Jeon, Gyun Min Lee (KAIST, Korea)
“Overexpression of Bcl-xL and effects on lactate metabolism in recombinant Chinese hamster ovary cells”
- P-90 Jin Hyoung Park, Jae Seong Lee, Tae Kwang Ha, Gyun Min Lee (KAIST, Korea)
“Anti-cell death engineering of CHO cells: Co-overexpression of Bcl-2 for apoptosis inhibition and Beclin-1 for autophagy induction”
- P-91 Jong Kwang Hong, Gyun Min Lee (KAIST, Korea)
“Understanding recombinant protein production, assembly and secretion by reducing intracellular ROS in CHO cells”
- P-92 Cancelled
- P-93 Yoshimi Kikuchi (Ajinomoto Co., Inc., Japan)
“CORYNEX®: a novel protein production system for biologicals”
- P-94 Yurika Azama, Junkyu Han, Atsushi Kwachi, Sami Sayadi, Hiroko Isoda (University of Tsukuba, Japan)
“Tunisian olive leaves component induces megakaryocytic differentiation of human leukemia cells K562”
- P-95 Yoshitaka Gemma, Junkyu Han, Masaki Kita, Mohammad Yaseen Dar, Hideo Kigoshi, Hiroko Isoda (University of Tsukuba, Japan)
“Adipogenesis inhibitory effects of *Retama raetam* on 3T3-L1 adipocytes”
- P-96 Myra O. Villareal, Sayuri Kume, Fatima Zahra Bakhtaoui, Junkyu Han, Chemseddoha Gadhi, Hiroko Isoda (University of Tsukuba, Japan)
“Inhibition of melanin biosynthesis in B16 murine melanoma cells by argan oil”

- P-97 Shuntaro Yamashita, Yoshinori Katakura, Ichiro Koguma, Sato Satoshi, Kazuo Okuyama (Kyushu University, Japan)
“Novel purification method of human antibody using a temperature-responsive protein A column”
- P-98 Masafumi Shibano, Chihiro Kato, Hiroyuki Yabe, Kazuo Okuyama (Asahi Kasei Medical Co., Ltd., Japan)
“Hollow fiber membrane with high protein-permeability in perfusion culture”