

Oral Presentations

September 2 (Thu)

Oral Session 1 (O-1 – O-6/ 15:30 – 16:42/ Main Hall)

Chairperson: Y. Katakura (Kyushu University, Japan) and A. Kumar (Indian Institute of Technology, India)

Transplantation, artificial organs, and organ substitutes (O-1 – O-2)

- 15:30 O - 1 R. Iwai, Y. Kumagai, M. Fujiwara, S. Wakitani and M. Takagi (Hokkaido University, Japan)
"Construction of highly-active promoters for gene-induced chondrogenesis of human bone marrow mesenchymal stem cells"
- 15:42 O - 2 J. Sakai, D. Roldan, Y. Hosokawa and M. Takagi (Hokkaido University, Japan)
"Influence of femtosecond laser irradiation on bone marrow mesenchymal stem cells viability"

Animal cells for in vitro assay (O-3)

- 15:54 O - 3 A. Ogawa, N. Okuda, H. Kanematsu and K. Hio (Suzuka National College of Technology, Japan)
"Influence of alloy plating corrosion on cellular functions"

Cell regulatory factors and signal transduction (O-4 – O-5)

- 16:06 O - 4 S. Yamashita, K. Ogawa and Y. Katakura (Kyushu University, Japan)
"Molecular mechanisms of telomerase regulation by FOXO3a"
- 16:18 O - 5 M. Udono, K. Mukae, T. Fujiki, S. Shirahata and Y. Katakura (Kyushu University, Japan)
"Functional analysis of senescence-associated genes in the induction of cellular senescence"

Immunologicals, monoclonal antibodies, and vaccines (O-6)

- 16:30 O - 6 T. Okada, T. Sato, M. Hattori and T. Yoshida (Tokyo University of Agriculture and Technology, Japan)
"Influence of the affinity of antigen to B cell receptor on IgE class switching"

September 2 (Thu)

Oral Session 2 (O-7 – O-13/ 15:30 – 16:54/ Sub Hall)

Chairperson: K. Nishijima (Nagoya University, Japan) and K. Poomputsa (King Mongkut's University of Technology Thonburi, Thailand)

Safety and regulation (O-7)

15:30 O - 7 H. Kojima, S. Arai and M. Hojyo (National Institute of Health Sciences, Japan)
"Importance of each human model and optimal protocol for regulatory use of skin irritation assay"

Transgenic animals (O-8)

15:42 O - 8 A. Mizutani, Y. Kojima, T. Sasamoto, J. Kojima, H. Tsunashima, M. Motono, K. Nishijima, K. Miyake and S. Iijima (Nagoya University, Japan)
"Lack of galactosyltransferase causes hypo-galactosylation of egg white proteins in chicken"

Glycoengineering (O-9 – O-10)

15:54 O - 9 M. Onitsuka, W-D. Kim, H. Ozaki, A. Kawaguchi, K. Honda, H. Ohtake and T. Omasa (Osaka University, Japan)
"Improvement of glycosylation pattern of humanized IgG-like bispecific antibody produced by recombinant CHO cells"
16:06 O - 10 M. Amano, K. Nouse, Y. Miyake, K. Yamamoto, Y. Suzuki, N. Sugiyama, H. Yamamoto, A. Okamoto, T. Yoneyama and S. Hatakeyama (Hokkaido University, Japan)
"Large scale clinical glycomics by glycoblotting"

Other topics concerning animal cell technology (O-11 – O-13)

16:18 O - 11 N. Watanabe, F. Nagoya and K. Yanagida (Asahi Kasei Medical. Co., Ltd., Japan)
"New virus removal filter for biopharmaceutical products"
16:30 O - 12 P. Mekvichitsaeng, S. Akepatumchai, W. Dechmahitkul and K. Poomputsa (King Mongkut's University of Technology Thonburi, Thailand)
"Production of recombinant hemagglutinin (HA) protein of influenza virus (H5N1) using baculovirus-insect cell expression system"
16:42 O - 13 H. Yan, T. Kinjo, H. Tian, T. Hamasaki, K. Teruya, S. Kobayama and S. Shirahata (Kyushu University, Japan)
"The mechanism of lifespan elongation of nematode by electrolyzed reduced water"

September 3 (Fri)

Oral Session 3 (O-14 – O-19/ 14:30 – 15:42/ Main Hall)

Chairperson: H. Ijima (Kyushu University, Japan) and K. Montagne (The University of Tokyo, Japan)

Cell culture engineering (O-14 – O-19)

- 14:30 O - 14 H. Ijima, J. Sakai, T. Takei and K. Kawakami (Kyushu University, Japan)
"Non-adhesive single cell culture method for primary rat hepatocyte"
- 14:42 O - 15 Y. Kawabe, Y. Kameyama, S. Huang, R. Watanabe, H. Makitsubo, A. Ito and M. Kamihira (Kyushu University, Japan)
"Cre-mediated accumulative gene integration into genome of CHO cells"
- 14:54 O - 16 S. Huang, Y. Kawabe, A. Ito and M. Kamihira (Kyushu University, Japan)
"Site-specific modification of CHO genome using integrase-defective retroviral vectors and Cre/loxP system"
- 15:06 O - 17 H. Yamamoto, Y. Kawabe, A. Ito and M. Kamihira (Kyushu University, Japan)
"Enhancement of liver functions in hepatoma cells by overexpression of liver-specific transcription factors"
- 15:18 O - 18 X. Yue, J. Gong, T. Akaike and Y. Ito (RIKEN Advanced Science Institute, Japan)
"Chemically fixed nurse cells for culture of stem cells"
- 15:30 O - 19 K. Montagne, H. Huang, K. Ohara, K. Matsumoto, A. Mizuno, K. Ohta and Y. Sakai (The University of Tokyo, Japan)
"Use of liposome encapsulated hemoglobin as an oxygen carrier to cultured fetal and adult cells"

September 3 (Fri)

Oral Session 4 (O-20 – O-26/ 14:30 – 15:54/ Sub Hall)

Chairperson: M. Kino-oka (Osaka University, Japan) and Y. Fujimura (Kyushu University, Japan)

Cell regulatory factors and signal transduction (O-20)

14:30 O - 20 M. Kim, M. Kino-oka and M. Taya (Osaka University, Japan)
"Alterations in Rho family GTPase expression derived from cytoskeletal reorganization lead to guidance of cardiomyogenesis of human"

Functional substances in food and natural sources (O-21 – O-26)

14:42 O - 21 N. Zghonda, S. Yoshida, A. Mliki, A. Ghorbel and H. Miyazaki (University of Tsukuba, Japan)
"Epsilon-viniferin, a natural dehydrodimer of resveratrol, is a potential negative regulator for the development of atherosclerosis"

14:54 O - 22 A. El Omri, J. Han, M. Ben Abdrabbah and H. Isoda (University of Tsukuba, Japan)
"Proteomics study of the induced-neuronal effect of rosmarinus polyphenols on PC12 cells"

15:06 O - 23 H. Motojima, M. O. Villareal, P. Yamada, J. Han and H. Isoda (University of Tsukuba, Japan)
"Inhibitory effect of fulvic acid extracted from solubilized excess sludge on immediate-type allergy by KU812 cells"

15:18 O - 24 S. Tsolmon, J. Han and H. Isoda (University of Tsukuba, Japan)
"Apigenin-glucoside induces erythroid differentiation of chronic leukemia K562 cell line"

15:30 O - 25 H. Shekhar, M. Goto, J. Watanabe, Y. Ishikawa, (National Food Research Institute, Japan)
"*In vitro* screening of food functionalities of commonly consumed indigenous bangladeshi vegetables"

15:42 O - 26 T. Kinjo, A. Hosokawa, M. Abe, T. Hamasaki, H. Yan, K. Teruya, S. Kabayama and S. Shirahata (Kyushu University, Japan)
"Effects of hydrogen and platinum nanoparticles on the redox regulation in animal cells"

September 4 (Sat)

Oral Session 5 (O-27 – O-31/ 13:40 – 14:40/ Main Hall)

Chairperson: A. Ogawa (Suzuka National College of Technology, Japan) and N. Shimizu (Hiroshima University, Japan)

Production of biologicals (O-27 – O-31)

- 13:40 O - 27 H. Shirataki, Y. Yokoyama and K. Okuyama (Asahi Kasei Medical Co., Ltd., Japan)
"Protein purification using anion-exchange hollow fiber membrane adsorber"
- 13:52 O - 28 C. Kato, Y. Sato and K. Okuyama (Asahi Kasei Medical Co., Ltd., Japan)
"New hollow fiber microfiltration modules for bioprocess"
- 14:04 O - 29 T. Araki, C. Noguchi, T. Hamafuji, H. Nose and N. Shimizu (Hiroshima University, Japan)
"Application of IR/MAR gene amplification technology to the production of recombinant antibody protein"
- 14:16 O - 30 T. Araki, C. Kato, Y. Sato and K. Okuyama (Asahi Kasei Medical Co., Ltd., Japan)
"Optimization evaluation of a new hollow fiber microfiltration filter"
- 14:28 O - 31 S. Hove, B. Cacace, M. Felo and K. Chefer (Millipore Corporation, USA)
"Optimization of a high density mammalian cell culture harvest operation using flocculation and depth filtration technologies"

September 4 (Sat)

Oral Session 6 (O-32 – O-34/ 13:40 – 14:16 Conference Room 1)

Chairperson: H. Isoda (University of Tsukuba, Japan)

Functional substances in food and natural sources (O-32– O-34)

- 13:40 O - 32 S. Tsukamoto, K. Yamada and H. Tachibana (Kyushu University, Japan)
"The oxygen partial pressure modulates green tea polyphenol EGCG action by regulating the polyphenol sensing molecule"
- 13:52 O - 33 S. Yamashita, S. Yano, K. Yamada and H. Tachibana (Kyushu University, Japan)
"Food factors for regulating the expression of common gamma chain"
- 14:04 O - 34 M. Kumazoe, K. Yamada and H. Tachibana (Kyushu University, Japan)
"Visualization of EGCG action on lipid raft clustering by FRET analysis"