

Poster Presentations

September 2 (Thu)

Poster Session 1 (P-1 – P-42/ 15:30 – 16:50/ Conference Room 1)

Cell culture engineering (P-1 – P-16)

- P-1 M. Kawase, Y. Tagawa, K. Moriya, H. Kawachi, Y. Fujiwara, Y. Mizobuchi and K. Yagi (Nagahama Institute of Bio-science and Technology, Japan)
“Novel effect of metals on cell functions”
- P-2 S. Mizui, Y. Chida, A. Sakuma, K. Yanagihara, K. Kobayashi, T. Ohura, A. Ogawa, N. Moriyama, S. Yasukawa and S. Terada (University of Fukui, Japan)
“Serum-free cryopreservation of mammalian cells using plant-derived polysaccharide fructan”
- P-3 T. Hayashi, M. Kokubo, N. Morigaki, K. Yamamoto, Y. Konno and H. Tsumura (Kyowa Hakko Kirin Co., Ltd., Japan)
“Efficient monoclonal antibody production by the perfusion and product concentrated culture with CHO cells”
- P-4 K. Kuroda, K. Sato, Y. Hayashi and M. Tsukahara (Kyowa Hakko Kirin Co., Ltd., Japan)
“CHO cDNA array to increase antibody productivity”
- P-5 Y. Imamoto, K. Wakamatsu, Y. Kobayashi, Y. Konno and H. Tsumura (Kyowa Hakko Kirin Co., Ltd., Japan)
“Optimizing culture medium preparation process by DOE for sterilizing filtration”
- P-6 M. M. Nadzir, M. Kino-oka, M.-H. Kim and M. Taya (Osaka University, Japan)
“Influence of extracellular matrix produced by chondrocytes on nutrient diffusion in cultured cartilage”
- P-7 M. Udagawa, K. Komori, K. Montagne, T. Fujii and Y. Sakai (The University of Tokyo, Japan)
“Rearing and non-invasive recovery of multi-layered cell sheet using functionalized oxygen-permeable membrane”
- P-8 T. Sugiyama and H. Tabuchi (Chugai Pharmaceutical Co., Ltd., Japan)
“Overexpression of alanine aminotransferase 1 mediates enhanced production titer in CHO cells”
- P-9 J. S. Y. Goh, P. Zhang, K. F. Chan, M. M. Lee and S. F. Lim (Bioprocessing Technology Institute, Singapore)
“Enhancing sialylation of recombinant erythropoietin by expression of normal GnT I in CHO mutant cells bearing dysfunctional GnT I”
- P-10 T. Ha, J. Baik and Y. Kim (KAIST, Korea)
“Proteomic approach: Role of HSC70 and HSP60 in adaptation of CHO cells to serum-free suspension culture”

- P-11 S. C.L. Ho, Mariati, M. G.S. Yap and Y. Yang (Bioprocessing Technology Institute, Singapore)
“IRES-mediated tricistronic vector for generation of monoclonal antibody expressing cell lines”
- P-12 J. C.J. Liew, W. S. Tan, N. B. M. Alitheen and B. T. Tey (Universiti Putra Malaysia, Malaysia)
“The growth and GFP expression of XIAP over-expressed CHO-K1 cells under sodium butyrate-induced condition”
- P-13 S. Lee (KAIST, Korea)
“Cell death in mammalian cells during transient gene expression”
- P-14 M. Matsuoka, T. Akasaka, Y. Totsuka and F. Watari (Hokkaido University, Japan)
“Cell adhesion and neurite outgrowth on carbon nanotube (CNT) coated dish”
- P-15 T. Itoi, Y. Cao, S. Kimura, Y. Ueda, S. Kondou, K. Honda, H. Ohtake and T. Omasa (Osaka University, Japan)
“The analysis of chromosomal rearrangement in Chinese hamster ovary cells”
- P-16 K. Nakazawa and H. Koga (The University of Kitakyushu, Japan)
“Cell culture on near infrared-responsive gel with carbon nanotube and collagen”

Functional substances in food and natural sources (P-17 – P-42)

- P-17 A. Iwamoto, S. Nakamura, A. Inoue, T. Kato, Y. Inoue and H. Kawahara (Kyusyu Institute of Technology, Japan)
“Anti-allergic action of strawberry extract *in vitro*”
- P-18 A. Muranaka, S. Nishimoto, A. Kadota and T. Sugahara (Ehime University, Japan)
“Immunostimulation effects of citrus peel components”
- P-19 K. Ishida and H. Shinmoto (Tamagawa University, Japan)
“Suppressive effect of berberine on differentiation of 3T3-L1 preadipocytes”
- P-20 K. Hata and J. Takahashi (Akita Research Institute for Food and Brewing, Japan)
“Lupeol reduces lipid synthesis in adipocyte and hepatocyte”
- P-21 T. Ishikawa, M. Sakai, R. Kinoshita, J. Tottori, H. Kunitake and K. Kusumoto (Fukuoka Industrial Technology Center, Japan)
“Anti-melanogenic activity of a novel compound from yacon leaves in mouse melanoma cells”
- P-22 M. Namikawa, M. Hishinuma and Y. Fuke (Tokyo Metropolitan University, Japan)
“Inhibitory effects of 6-(methylsulfinyl)hexyl isothiocyanate from wasabi on human breast cancer in mice: inducing apoptosis via suppression NF- κ B”
- P-23 T. Yonezawa, M. Asai, J. W. Lee, S. Hasegawa, T. Teruya, B. Y. Cha, K. Nagai, K. Yagasaki and J. T. Woo (The University of Tokyo, Japan)
“Effects of honokiol on bone resorption and bone formation”

- P-24 T. Suzuki, A. Shimada and Y. Fuke (Tokyo Metropolitan University, Japan)
“6-(Methylsulfinyl)hexyl isothiocyanate derived from wasabi increases histone acetylation by inhibition of histone deacetylase activity in B16BL6 mouse melanoma and mice”
- P-25 T. Suda, N. Aoyama, K. Yamada and H. Tachibana (Kyushu University, Japan)
“Identification of a sensing gene that mediates anticancer effect of γ -tocotrienol”
- P-26 K. Yamaki, M. Goto, Y. Takano-Ishikawa and S. J. Maleki (National Food Research Institute, Japan)
“Analysis of peanut protein-induced allergic dermatitis –Effects of roasting on reaction and antibody titer–”
- P-27 Y. Takano-Ishikawa, J. Watanabe, Y. Taguchi, R. Arai and M. Goto (National Food Research Institute, Japan)
“Suppressive effect of herbal teas on allergic reactions”
- P-28 M. Maeda-Yamamoto, A. Nesumi, M. Monobe, Y. Tokuda, K. Ema, A. Murakami, A. Murakami, I. Nadaoka, M. Sami and H. Tachibana (NARO, Japan)
“Inhibitory effect of ‘sun-rouge’ green tea on acetylcholinesterase activity of neuroblastoma SK-N-SH cells”
- P-29 H. Zrelli, S. Kitazaki, M. Matsuoka, M. Zarrouk and H. Miyazaki (University of Tsukuba, Japan)
“Hydroxytyrosol reduces intracellular ROS levels in vascular endothelial cells by upregulating expression of catalase through AMPK-FOXO3a pathway”
- P-30 Y. Yamashita, M. Ueda, M. Natsume and H. Ashida (Kobe University, Japan)
“Cacao polyphenol extract promotes glucose uptake in muscle cells”
- P-31 Y. Fujimura, M. Ida, K. Kurihara, R. Kousaka, D. Miura, H. Wariishi, M. Maeda-Yamamoto, A. Nesumi, K. Yamada and H. Tachibana (Kyushu University, Japan)
“Activity prediction of Japanese green tea capable of improving vascular endothelial dysfunction”
- P-32 M. Minakawa, Y. Miura and K. Yagasaki (Tokyo University of Agriculture and Technology, Japan)
“Effect of a stilbenoid on glucose metabolism *in vitro* and *in vivo*”
- P-33 D. Moriya, H. Nakamura, S. Hata, Y. Miura and K. Yagasaki (Tokyo University of Agriculture and Technology, Japan)
“Anti-nephritic effect of aspalathin, a rooibos tea polyphenol”
- P-34 H. Jeon, D. S. Cha, Y. J. Lee, J. S. Eun and D. K. Kim (Woosuk University, Korea)
“*Spirodela polyrrhiza* inhibits nitric oxide production in IFN- γ and LPS-stimulated mouse peritoneal macrophages”

- P-35 J. S. Eun, R. Li, H. Jeon, D. K. Kim and J. Y. Leem (Woosuk University, Korea)
“Rottlerin inhibits the secretion of β -amyloid from neuroblastoma cells”
- P-36 D. K. Kim, J. H. Yang, J. S. Eun, H. Jeon and B. M. Kwon (Woosuk University, Korea)
“Phosphatase of regenerating liver-3 inhibitory compounds of *Rumex japonicus*”
- P-37 S.-S. Choi, B.-Y. Cha, Y.-S. Lee, K. Iida, T. Yonezawa, T. Teruya, K. Nagai and J.-T. Woo (Chubu University, Japan)
“Artepillin C enhances adipocyte differentiation and glucose uptake in 3T3-L1 cells”
- P-38 Y.-S. Lee, B.-Y. Cha, S.-S. Choi, K. Iida, T. Yonezawa, T. Teruya, K. Nagai and J.-T. Woo (Chubu University, Japan)
“Effect of magnolol, an ingredient of *Magnolia officinalis*, on obesity and hyperglycemic activity in high-fat diet-induced obese mice”
- P-39 Y.-H. Chiang, Y.-P. Lin and Z.-L. Kong (National Taiwan Ocean University, Taiwan)
“Immune modulation and attenuation of muscle wasting by *Prophyra-Monascus* complex in colon tumour-bearing cachexia mice”
- P-40 P.-T. Wang, M.-C. Hsieh and Z.-L. Kong (National Taiwan Ocean University, Taiwan)
“Protective effects of brown algae extract on cisplatin-induced spermatogenic damage and oxidative stress in hamsters”
- P-41 J.-Y. Hu, Y.-T. Huang and Z.-L. Kong (National Taiwan Ocean University, Taiwan)
“Protective effects of astaxanthin on oxidative stress- and β -amyloid-induced neurotoxicity in rat glioma C6 cell”
- P-42 Y.-H. Chiang, Y.-T. Shiu, H.-W. Hung and Z.-L. Kong (National Taiwan Ocean University, Taiwan)
“Astaxanthin on IgE-mediated allergic response using cultured cell lines”

September 3 (Fri)

Poster Session 2 (P-43 – P-101/ 14:30 – 15:50/ Conference Room 1)

Production of biologicals (P-43 – P-47)

- P-43 H. Nagashima, S. Kishishita and S. Takuma (Chugai Pharmaceutical Co., Ltd., Japan)
“Quality by design approach in upstream process using risk based screening and multivariate study”
- P-44 Y. Yamana and S. Sonezaki (TOTO Ltd., Japan)
“Characterization of the antibody production in the recombinant CHO-K1 cells, in which the exogenous antibody gene was introduced into hypoxanthine phosphoribosyl transferase (HPRT) gene locus”
- P-45 H. Wada, M. Kobayashi, A. Sakuma, K. Yanagihara, Y. Kunitomi, M. Sasaki and S. Terada (University of Fukui, Japan)
“Improvement of serum-free medium SERICIN-GIT by the use of various supplements”
- P-46 S. Hove, J. Hamzick, Y. Zahang, N. Soice and K. S. Cheng (Millipore Corporation, USA)
“An integrated process approach for the elimination of intermediate hold tanks in an antibody purification process”
- P-47 J. Shevitz and J. Bonham-Carter (Refine Technology, USA)
“Safer faster cell banking for more productive manufacturing”

Glycoengineering (P-48)

- P-48 M. Onitsuka, W.-D. Kim, H. Ozaki, A. Kawaguchi, K. Honda, H. Ohtake and T. Omasa (The University of Tokushima, Japan)
“Improvement of glycosylation pattern of humanized IgG-like bispecific antibody produced by recombinant CHO cells”

Immunologicals, monoclonal antibodies, and vaccines (P-49 – P-52)

- P-49 K. Tomimatsu, S. Matsumoto, H. Tanaka, S. Kabayama, K. Teruya, Y. Katakura and S. Shirahata (Kyushu University, Japan)
“Animal cell display: construction of a new method to produce human monoclonal antibodies”
- P-50 C. Ando, A. Kumazawa and H. Shinmoto (Tamagawa University, Japan)
“Generation of human IgM monoclonal antibody against crude allergen from Japanese cedar pollen”
- P-51 H. Shinmoto, M. Takeda and S. Tomita (Tamagawa University, Japan)
“Epitope analysis of Japanese cedar pollen allergen Cry j1 with human monoclonal antibody”

- P-52 T. Nagasuga, Y. Takahashi, M. Nakamura, T. Katsuda and H. Yamaji (Kobe University, Japan)
“Production of Japanese encephalitis virus-like particles using insect cells”

Transplantation, artificial organs, and organ substitutes (P-53 – P-61)

- P-53 M.-H. Kim, M. Kino-oka and M. Taya (Osaka University, Japan)
“Designing culture surfaces to regulate cell morphologies and aggregate formation”
- P-54 S. Terada, K. Yanagihara, M. Kobayashi, A. Sakuma, Y. Kunitomi, M. Sasaki and H. Yamada (University of Fukui, Japan)
“Culture of mouse ES cells using mammalian component-free medium ‘SERICIN-GIT’”
- P-55 M. Takagi, H. Yoshioka and S. Wakitani (Hokkaido University, Japan)
“A mass separation of chondrocytes from cartilage tissue utilizing an automatic crushing device”
- P-56 Y. Tsuji, K. Niiyama, S. Wakitani and M. Takagi (Hokkaido University, Japan)
“Effect of monosaccharides composing glycosaminoglycans on type II collagen accumulation in a scaffold-free chondrocytes sheet”
- P-57 S. Maeda, T. Fujimoto, S. Wakitani and M. Takagi (Hokkaido University, Japan)
“Preparation of scaffold-free cartilage-like sheet using mesenchymal stem cells”
- P-58 N. Ide, S. Miyagi, S. Wakitani and M. Takagi (Hokkaido University, Japan)
“Osteochondral graft combining β -TCP and cartilage-like cell sheet of chondrocytes and mesenchymal stem cells”
- P-59 K. Onoue, H. Kusubashi, Y. Sato, S. Wakitani and M. Takagi (Hokkaido University, Japan)
“Noninvasive estimation of chondrogenic differentiation level of mesenchymal stem cells and chondrocytes by the analysis of MIA production”
- P-60 H. Mizumoto, K. Ikeda, N. Amimoto, K. Nakazawa, H. Ijima, K. Funatsu and T. Kajiwara (Kyushu University, Japan)
“Hepatic differentiation of mouse ES cells in a hollow fiber bioreactor and its evaluation as a hybrid artificial liver”
- P-61 N. Amimoto, H. Mizumoto, K. Nakazawa, H. Ijima, K. Funatsu and T. Kajiwara (Kyushu University, Japan)
“Hepatic differentiation of mouse ES cells and iPS cells during organoid formation in hollow fiber”

Safety and regulation (P-62)

- P-62 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”

Cell regulatory factors and signal transduction (P-63 – P-66)

- P-63 K. Kadooka, N. Kobatake, M. Udono and Y. Katakura (Kyushu University, Japan)
“Regulatory mechanisms of cellular senescence revealed by high- content analysis”
- P-64 T. Okamoto, C. Miyawaki, K. Kobashi, S. Kimura, C. Nakamura, K. Hidaka and Y. Suwa (Kawasaki Medical School, Japan)
“PAA suppresses the induction of indoleamine 2,3-dioxygenase in IFN- γ -stimulated human eosinophil cells”
- P-65 Y. Oikawa, M. Miyake, K. Yagasaki and Y. Miura (Tokyo University of Agriculture and Technology, Japan)
“Regulation of mouse melanoma invasion by membranous ganglioside GM3”
- P-66 Y. Okino, Y. Inayoshi, K. Miyake, A. Mizutani, K. Nishijima and S. Iijima (Nagoya University, Japan)
“Transcription factor YY1 interacts with retroviral integrases and facilitates virus cDNA integration into the host chromosomes”

Animal cells for *in vitro* assay (P-67 – P-88)

- P-67 H. Haniu, Y. Matsuda, Y. Usui, K. Aoki, M. Shimizu, N. Ogihara, K. Hara, N. Ishigaki, K. Nakamura and N. Saito (Shinshu University, Japan)
“The detection of intracellular carbon nanotubes by simple quantitative assay and its influences to the cell lines”
- P-68 K. Sawada, K. Kawabata, K. Kawasaki, N. Yamamoto and H. Ashida (Kobe University, Japan)
“A method to evaluate regulators of glucose-uptake in cultured insulin-resistant skeletal muscle cells”
- P-69 D. Tanaka, H. Satsu, M. Totsuka and M. Shimizu (The University of Tokyo, Japan)
“Construction of a coculture model to analyze the interaction between human mast cell, HMC-1, and intestinal epithelial Caco-2 cells”
- P-70 S. Hashizume and H. Kawahara (Morinaga & Co., Ltd., Japan)
“Development of a human IgE-inducing system by *in vitro* immunization”
- P-71 N. Yoshida and K. Mizuno (Ritsumeikan University, Japan)
“Effect of phytoestrogens on mouse oocyte maturation *in vitro*”
- P-72 M. Shinohara, H. Kimura, K. Komori, T. Fujii and Y. Sakai (The University of Tokyo, Japan)
“Fabrication of a three-dimensional cell array and its application to the evaluation of minimal functional pancreatic micro-tissues”
- P-73 S. S. Kim, S. H. Oh, M. H. Jeong, W. Y. Choi, Y. C. Seo and J. H. Lee (Kangwon National University, Korea)
“Effect of high pressure extracts on *in vitro* anticancer activity of *Lithospermum erythrorhizon*”

- P-74 J. H. Ha, Y. C. Seo, W. Y. Choi, J. H. Lee, C. G. Lee, M. H. Jeong, H. S. Jeong, J. H. Jung and K. W. Yu (Kangwon National University, Korea)
“Enhancement of immuno-modulatory activities of low quality ginseng by ultrasonification extraction process”
- P-75 J. H. Ha, M. H. Jeong, Y. C. Seo, W. Y. Choi, J. H. Lee and C. G. Lee (Kangwon National University, Korea)
“Anticancer activities of low quality ginseng from high pressure extraction”
- P-76 H. S. Jeong, S. S. Kim, S. H. Oh, M. H. Jeong, W. Y. Choi, Y. C. Seo, J. H. Lee and C. G. Lee (Kangwon National University, Korea)
“Nano-encapsulation of *Angelica gigas* Nakai water extracts of effect for enhanced anticancer activities”
- P-77 J. H. Ha, M. H. Jeong, W. Y. Choi, Y. C. Seo, J. H. Lee, C. G. Lee and W. B. Yoon (Kangwon National University, Korea)
“Effect of high pressure processing on extraction pattern of ginsenosides from low quality fresh ginseng”
- P-78 S. S. Kim, S. H. Oh, M. H. Jeong, W. Y. Choi, Y. C. Seo, J. H. Lee and C. G. Lee (Kangwon National University, Korea)
“Enhancement immune activation activities of fermented *Codonopsis lanceolata*”
- P-79 H. S. Jeong, S. S. Kim, S. H. Oh, M. H. Jeong, W. Y. Choi, Y. C. Seo and J. H. Lee (Kangwon National University, Korea)
“Comparison of skin whitening effects of *Rubus coreanus* Miquel extracts from sequential solvent fractionization”
- P-80 J. H. Ha, M. H. Jeong, Y. C. Seo, W. Y. Choi, J. H. Lee, C. G. Lee, H. S. Jeong, J. H. Jung and K. W. Yu (Kangwon National University, Korea)
“Comparison of biological activities of low quality ginseng according to extraction processes”
- P-81 C. G. Lee, S. H. Oh, W. Y. Choi, M. H. Jeong, S. S. Kim, J. H. Lee and Y. C. Seo, (Kangwon National University, Korea)
“Food analysis of marine microalgae, *Chlorella minutissima* after lipid extraction process”
- P-82 M. H. Jeong, S. S. Kim, S. H. Oh, J. H. Ha, M. C. Kwon, W. Y. Choi, Y. C. Seo and J. H. Lee (Kangwon National University, Korea)
“Effect of nano-encapsulation of *Acer mono* and *Acer okamotoanum* aqueous extracts on skin whitening and antioxidant activities”
- P-83 M. H. Jeong, J. H. Ha, S. S. Kim, S. H. Oh, H. S. Jeong, W. Y. Choi, Y. C. Seo, M. C. Kwon, H. J. Lee and H. Y. Kang (Kangwon National University, Korea)
“Comparison of immuno-modulatory activities of *Acer mono* and *Acer okamotoanum* extracts and its sap”

- P-84 M. H. Jeong, S. S. Kim, S. H. Oh, J. H. Ha, M. C. Kwon, W. Y. Choi, Y. C. Seo and J. H. Lee (Kangwon National University, Korea)
“Effect of umbelliferone from *Angelica gigas* Nakai on the prevention of ischemia of Mongolian gerbil”
- P-85 S. S. Kim, S. H. Oh, M. H. Jeong, W. Y. Choi, Y. C. Seo and J. H. Lee (Kangwon National University, Korea)
“Effect of high pressure extracts on *in vitro* anticancer activity of *Lithospermum erythrorhizon*”
- P-86 R. B. Bostancıoğlu, P. Akcan, K. Benkli and A. T. Koparal (Anadolu University, Turkey)
“Apoptosis induction and mitochondria alteration in normal and *H-ras* oncogene activated rat embryo fibroblast-like cell lines by including Ru(III)/Au(III) and Pt(II) dinuclear metal complexes”
- P-87 H. Genç, R. B. Bostancıoğlu, A. Doğan, A. S. Koparal and A. T. Koparal (Anadolu University, Turkey)
“Effect of Ag⁺ ion doped calcium phosphate based ceramic nano-powder that is useful biomaterial, on human skin fibroblast cells”
- P-88 S. Kasai, T. Numata, H. Kodama and M. Tada (Tohoku Institute of Technology, Japan)
“Real-time monitoring of respiratory burst by phagocytosis of human monocytic cell lines (THP-1)”

Other topics concerning animal cell technology (P-89 – P-100)

- P-89 T. Sugahara, S. Nishimoto, S. Atobe, K. Hosoba, M. Okabe and Y. Kakinuma (Ehime University, Japan)
“Effects of endosulfan on allergic response”
- P-90 K. Kusumoto and T. Ishikawa (Fukuoka Industrial Technology Center, Japan)
“Cytotoxic activity of didodecyldimethylammonium bromide used as a gene carrier in mammalian cells”
- P-91 A. Ichikawa, N. Kojima and K. Ikura (Kyoto Institute of Technology, Japan)
“Analyses of rat liver arginase-I as a transglutaminase substrate”
- P-92 A. Ichikawa, T. Matsuda and K. Ikura (Kyoto Institute of Technology, Japan)
“Analyses of rat liver fructose 1,6-bisphosphatase as a transglutaminase substrate”
- P-93 S. Nishimoto, M. Okabe, K. Akiyama, Y. Kakinuma and T. Sugahara (Ehime University, Japan)
“Influences of chemical compounds in heavy oil on mouse reproductive system”
- P-94 P. Mekvichitsaeng, S. Akepatumchai, W. Dechmahitkul and K. Poomputsa (King Mongkut's University of Technology Thonburi, Thailand)
“Production of virus like particle (VLP) by baculovirus expression vector system”

- P-95 E. Kanazawa, T. Sakai, Y. Yoshikawa, T. Ogata, N. Morikawa, S. Morishita, T. Emura and K. Kusumoto (Fukuoka Industrial Technology Center, Japan)
“Metal modified ceramics carrier for mammalian cell culture”
- P-96 S. Koga, Y. Kita, T. Ishikawa, E. Kanazawa, T. Sakai, Y. Yoshikawa, T. Itoh, T. Nagata, I. Hamachi and K. Kusumoto (Fukuoka Industrial Technology Center, Japan)
“Efficient gene delivery and protein expression by lipidic materials totally-designed for CHO Cells”
- P-97 K. Kusumoto, T. Sakai, Y. Yoshikawa, T. Itoh, T. Ishikawa, H. Fujiki, S. Koga, E. Kanazawa, M. Ikeda and I. Hamachi (Fukuoka Industrial Technology Center, Japan)
“A gas-permeable bag culture system for suspension mammalian cells”
- P-98 S. Fukazawa, A. Takeuchi, N. Ikeda, M. Taguchi and K. Chida (Kitasato University, Japan)
“Semi-automated quantitative image analysis of connexin 32 in cultured fetal rat hepatocytes”
- P-99 N. Watanabe, F. Nagoya and K. Yanagida (Asahi Kasei Medical Co., Ltd., Japan)
“New virus removal filter for biopharmaceutical products”
- P-100 T. Akasaka, K. Ishii, M. Matsuoka, T. Hashimoto T. Taira and F. Watari (Hokkaido University, Japan)
“Murine macrophage RAW264.7 cells response for the carbon nanotubes immobilized on substrate”

Advanced technologies in cell culture process development (P-101)

- P-101 B. Lee, D.-J. Oh, S.-H. Paik, D. Eibl and M. Croughan (PBS Biotech, Inc., USA)
“Development of novel single-use bioreactors using pneumatic mixing mechanism”