

**General Presentation**  
**(Poster Presentation, Flash Presentation)**

Poster

Posting period: 20th, Dec. (Fri) 11:00 - 21st, Dec. (Sat) 15:00  
East Wing 2F, Seminar Room - Middle Meeting Room

Flash Presentation (2 min Oral Presentation)

Period: 20th, Dec. (Fri) 9:00-10:00

P-1 - P-23      TERRSA Hall  
P-24 - P-47      Large Meeting Room (3F)  
P-48 - P-75      Audiovisual Training Room (2F)

**P-1 Skin sensitization study from only animal data by structure-toxicity relationships (QSTR) approach**

Kazuhiro Sato<sup>1</sup>, Kohtaro Yuta<sup>2</sup>, Yukinori Kusaka<sup>1</sup>

<sup>1</sup>Department of Environmental Health, School of Medicine, University of Fukui

<sup>2</sup>In Silico Data

**P-2 Hazard Evaluation Support System (HESS)II-Proposition of *in vitro* assays useful for predicting repeated-dose toxicity of chemical substances-**

Takashi Yamada<sup>1</sup>, Yushiro Tanaka<sup>1</sup>, Ryuichi Hasegawa<sup>1</sup>, Yuki Sakuratani<sup>1</sup>, Jun Yamada<sup>1</sup>, Kouichi Yoshinari<sup>2</sup>, Yasushi Yamazoe<sup>2</sup>, Atsushi Ono<sup>3</sup>, Akihiko Hirose<sup>3</sup>, Makoto Hayashi<sup>4</sup>

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<sup>4</sup>BioSafety Research Center, Iwata, Japan

**P-3 Trial for development of *in vitro* risk assessment model for skin sensitization using artificial neural network analysis (I) -the analysis using *in vitro* tests-**

Morihiko Hirota<sup>1</sup>, Tomomi Atobe<sup>1</sup>, Takao Ashikaga<sup>1</sup>, Hirokazu Kouzuki<sup>1</sup>, Setsuya Aiba<sup>2</sup>

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**P-4 Trial for development of *in silico* risk assessment model for skin sensitization using artificial neural network analysis (II) -the analysis using *in silico*-**

Tomomi Atobe, Morihiko Hirota, Takao Ashikaga, Hirokazu Kouzuki

Shiseido Research Center

**P-5 Predictive Genotoxicity *in Silico***

Maki Aiba, Morihiko Hirota, Kouzuki Hirokazu

Shiseido Research Center

**P-6 Research aimed at integration of *in silico* assessment of toxicity to the Alternatives to Animal Experiments ( 1 )**

Kohtaro Yuta

In Silico Data, Ltd., Chiba, Japan

**P-7 Comparison of two methods for constructing 95% confidence intervals of ratios of mean values obtained using alternative assays**

Azusa Mori, Maruya Aoi, Mayumi Kobayashi, Takashi Omori  
DOSHISHA UNIVERSITY, Kyoto, Japan

**P-8 Relationship between IC50 and ID50 in Hand1-Luc EST assay**

Mayumi Kobayashi<sup>1</sup>, Noriyuki Suzuki<sup>2</sup>, Le Coz Florian<sup>2</sup>, Hirohisa Nagahori<sup>2</sup>,  
Koichi Saito<sup>2</sup>, Azusa Mori<sup>1</sup>, Aoi Maruyama<sup>1</sup>, Takashi Omori<sup>1</sup>  
<sup>1</sup>DOSHISHA UNIVERSITY, Kyoto, Japan  
<sup>2</sup>Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan

**P-9 Evaluation of Local Lymph Node Assay as an Alternative Method for skin Sensitization Potential In CBA/N mice**

Yujeong Lee<sup>1</sup>, Mi-Sook Jung<sup>1</sup>, Eun-Young Jeon<sup>1</sup>, Heung-Mo Bae<sup>1</sup>, Sang-Koo Lee<sup>1</sup>,  
Jong-Koo Kang<sup>2</sup>  
<sup>1</sup>Pharmacology Department Efficacy Division, Biototech Co., Ltd.,  
Chungcheongbuk-do, Korea  
<sup>2</sup>Chung-buk National University, Cheong-ju 361-763, Korea

**P-10 Development of a method to predict skin sensitisation using a novel Lys derivative and Cys derivative**

Masaharu Fujita<sup>1</sup>, Toshihiko Kasahara<sup>1</sup>, Yoshiro Jinbo<sup>2</sup>, Takanori Hioki<sup>1</sup>  
<sup>1</sup>Safety Evaluation Center, Environment & Quality Management Div., CSR Div.,  
FUJIFILM Corporation, Kanagawa, Japan  
<sup>2</sup>Synthetic Organic Chemistry Laboratories, Research & Development Management Headquarters,  
FUJIFILM Corporation, Shizuoka, Japan

**P-11 Predictive performance of human cell line activation test (h-CLAT) for skin sensitizing potential of lipophilic chemicals**

Osamu Takenouchi<sup>1</sup>, Yasutaka Kuroda<sup>1</sup>, Kazutoshi Saito<sup>1</sup>, Masaaki Miyazawa<sup>1</sup>,  
Takao Ashikaga<sup>2</sup>, Hitoshi Sakaguchi<sup>1</sup>  
<sup>1</sup>Kao Corporation, Tochigi, Japan  
<sup>2</sup>Shiseido Corporation, Kanagawa, Japan

**P-12 The development of LLNA:DAE method and the results of intra-lavolatory validation**

Kunihiko Yamashita<sup>1</sup>, Shinsuke Shinoda<sup>2</sup>, Saori Hagiwara<sup>2</sup>, Hiroshi Itagaki<sup>3</sup>  
<sup>1</sup>Daicel Corporation, Hyogo, Japan  
<sup>2</sup>Drug Safety Testing Center Co., Ltd., Saitama, Japan  
<sup>3</sup>Yokohama National University, Kanagawa, Japan

**P-13 Development of alternative skin sensitization test model utilizing a collagen vitrigel membrane chamber (bottom side exposure method)**

Tadashi Uchino<sup>1</sup>, Kumiko Shimizu<sup>1</sup>, Toshiaki Takezawa<sup>2</sup>, Kunihiko Yamashita<sup>3</sup>, Hajime Kojima<sup>1</sup>,  
Takumi Akiyama<sup>1</sup>, Yoshiaki Ikarashi<sup>1</sup>  
<sup>1</sup>National Institute of Health Sciences  
<sup>2</sup>National Institute of Agrobiological Sciences  
<sup>3</sup>Daicel Corporation

**P-14 An inter-laboratory validation study and creation of a dataset of IL-8 Luc assay**

Yotaka Kimura<sup>1</sup>, Chizu Fujimura<sup>1</sup>, Mika Watanabe<sup>2</sup>, Rumiko Saito<sup>2,3</sup>, Noriyuki Suzuki<sup>4</sup>, Tomoko Iwaki<sup>5</sup>, Kohji Yamakage<sup>2</sup>, Koichi Saitou<sup>4</sup>, Yoshihiro Nakajima<sup>5</sup>, Yoshihiro Ohmiya<sup>6</sup>, Ayako Sakai<sup>2</sup>, Aoi Maruya<sup>7</sup>, Takashi Omori<sup>7</sup>, Shojiro Yamazaki<sup>8</sup>, Hajime Kojima<sup>9</sup>, Noriho Tanaka<sup>8</sup>, Setsuya Aiba<sup>1</sup>

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<sup>8</sup> Organization for Tottori Industrial Promotion, Tottori, Japan

<sup>9</sup> National Institute of Health Sciences, Tokyo, Japan

**P-15 A proposal of a criterion incorporating variation of measurement of the IL-8 Luc assay**

Aoi Maruya<sup>1</sup>, Setsuya Aiba<sup>2</sup>, Yutaka Kimura<sup>2</sup>, Mika Watanabe<sup>3</sup>, Noriyuki Suzuki<sup>4</sup>, Tokomo Iwaki<sup>5</sup>, Kohji Yamakage<sup>3</sup>, Koichi Saito<sup>4</sup>, Yoshihiro Nakajima<sup>5</sup>, Yoshihiro Ohmiya<sup>6</sup>, Shojiro Yamazaki<sup>3</sup>, Hajime Kojima<sup>7</sup>, Noriho Tanaka<sup>3</sup>, Mayumi Kobayashi<sup>1</sup>, Azusa Mori<sup>1</sup>, Takashi Omori<sup>1</sup>

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<sup>6</sup> Biomedical Research Institute, Advanced Industrial Science And Technology

<sup>7</sup> National Institute of Health Science

**P-16 Embryonic stem cell test using human iPS cells-thalidomide embryotoxicity**

Nobuo Aikawa<sup>1</sup>, Kunisato Atsushi<sup>2</sup>, Takaba Katsumi<sup>1</sup>, Kenji Nagao<sup>2</sup>, Kinya Ohgami<sup>1</sup>, Hideaki Kusaka<sup>1</sup>

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<sup>2</sup> Biologics Research Laboratories, Tokyo Research Park, Research Division, Kyowa Hakko Kirin Co., Ltd., Tokyo, Japan

**P-17 The effect on the differentiation of ES cells in the case of two feeder cells derived from the oviduct or uterus**

Koichi Imai<sup>1</sup>, Kazuhiko Suese<sup>2</sup>, Yoshitomo Honda<sup>3</sup>, Hiromasa Takashima<sup>4</sup>

<sup>1</sup> Department of Biomaterials, Osaka Dental University

<sup>2</sup> Osaka Dental University. School of Dental Technician and Hygienist

<sup>3</sup> Institute of Dental Research, Osaka Dental University

<sup>4</sup> Ina Research Inc.

**P-18 Angiogenesis of dental gold-silver-palladium alloy component ions used by in vitro angiogenesis kit**

Koichi Imai<sup>1</sup>, Tetsunari Nishikawa<sup>2</sup>, Tomoharu Okamura<sup>2</sup>, Akio Tanaka<sup>2</sup>, Yoshitomo Honda<sup>3</sup>, Kazuhiko Suese<sup>4</sup>

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<sup>4</sup> Osaka Dental University. School of Dental Technician and Hygienist

**P-19 In vitro evaluation of the embryotoxic potency of amorphous nanosilica**

Yasuo Yoshioka<sup>1</sup>, Toshinobu Ogura<sup>1</sup>, Tashiro Katsuhisa<sup>2</sup>, Kenji Kawabata<sup>1,2</sup>, Hiroyuki Mizuguchi<sup>1,2,3</sup>, Kazuma Higashisaka<sup>1</sup>, Yasuo Tsutsumi<sup>1,2,3</sup>

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<sup>2</sup>National Institute of Biomedical Innovation

<sup>3</sup>MEI center, Osaka University

**P-20 Development of high-dispersibility nanocrystals of calcined hydroxyapatite**

Masahiro Okada<sup>1</sup>, Yuko Omori<sup>2</sup>, Shoji Takeda<sup>1</sup>, Naoyuki Matsumoto<sup>2</sup>

<sup>1</sup>Department of Biomaterials, Osaka Dental University, Osaka, Japan

<sup>2</sup>Department of Orthodontics, Osaka Dental University, Osaka, Japan

**P-21 Evaluation of nanoparticle permeation using a cultured pulmonary alveolar tissue model and a numerical model**

Takuya Aoyama<sup>1</sup>, Kokoro Iwasawa<sup>1</sup>, Naohide Shinohara<sup>2</sup>, Guihua Zhang<sup>2</sup>, Masashi Gamo<sup>2</sup>, Yasuyuki Sakai<sup>1</sup>

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<sup>2</sup>The National Institute of Advanced Industrial Science and Technology, Ibaraki, Japan

**P-22 Preparation of transparent and low-crystallized hydroxyapatite via low temperature process**

Mayo Uehira<sup>1</sup>, Keiko Fujiwara<sup>1</sup>, Naoyuki Matsumoto<sup>1</sup>, Shoji Takeda<sup>2</sup>, Masahiro Okada<sup>2</sup>

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**P-23 Study of interaction between cancer spheroid formed by Hanging Drop Method and human mesenchymal stem cells - Application of highly efficient internalization of quantum dots to cells-**

Toshimasa Uemura<sup>1</sup>, Mika Pietilae<sup>2</sup>, Petri Lehankari<sup>2</sup>, Sunil Kaul<sup>3</sup>, Renu Wadhwa<sup>3</sup>

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<sup>2</sup>University of Oulu, Oulu, Finland

<sup>3</sup>Biomedical Research Institute, AIST, Tsukuba, Japan

**P-24 Development of an in vitro method for neurotoxicity using neuronal cell derived from mouse embryonic stem cells**

Kumiko Kobayashi, Noriyuki Suzuki, Atsushi Kuwabara, Satoshi Ando, Kayo Sumida, Kouichi Saito

Sumitomo Chemical Co., Ltd. Osaka, Japan

**P-25 Novel biological assay device of neurologic cells with thin-layer gel system composed of ECM-modeled matrix**

Hideyuki Mizumachi, Hiroyuki Ijima

Department of Chemical Engineering, Faculty of Engineering, Graduate School,

Kyushu University, Fukuoka, Japan

**P-26 Development of a bioassay using Neuro2a cell for marine toxins**

Akiko Hasegawa, Mizuna Nakamura, Mami Hata, Teruo Yamashita, Hiroko Minagawa

Laboratory of Medical Zoology, Department of Microbiology and Medical Zoology, Aichi Prefectural Institute of Public Health, Aichi, Japan

**P-27 A genotoxicity test based on p53R2 gene expression in human cells (NESMAGET, Part16).  
-Species differences in a metabolic activation-**

Taisei Mizota, Mina Itoh, Katsutoshi Ohno, Toshihiro Yamada  
Food Safety Research Institute, Nissin Foods Holdings Co., Ltd., Shiga, Japan

**P-28 Modification of the 3T3 NRU photo-toxicity test conditions for the evaluation of poorly water-soluble substances**

Akemi Toyoda<sup>1</sup>, Maki Sugiyama<sup>1</sup>, Seiichiro Furihata<sup>1</sup>, Keiji Nishizumi<sup>1</sup>, Hiroshi Itagaki<sup>2</sup>  
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**P-29 Refinement of phototoxicity test using 3D model**

Sakiko Aizawa, Mika Tsurumaki, Noriyasu Imai, Takuji Masunaga  
Fundamental Research Laboratories, KOSÉ Corporation

**P-30 *In vitro* photosafety assessment of cosmetic ingredients with use of the ROS assay**

Gen Suzeki<sup>1</sup>, Masashi Kato<sup>1</sup>, Morihiko Hirota<sup>2</sup>, Hayato Nishida<sup>2</sup>, Hirokazu Kouzuki<sup>2</sup>, Satomi Onoue<sup>1</sup>, Shizuo Yamada<sup>1</sup>  
<sup>1</sup>Department of Pharmacokinetics and Pharmacodynamics, Graduated School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan  
<sup>2</sup>Siseido Research Center, Kanagawa, Japan

**P-31 Peer review of the Japanese validation study of the ROS *in vitro* phototoxicity assay for ICH**

Hajime Kojima<sup>1</sup>, W Stokes<sup>2</sup>, I Horii<sup>3</sup>, BH Kim<sup>4</sup>, Horst Spielmann<sup>5</sup>  
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<sup>3</sup>Pfizer, Nagoya, Japan, <sup>4</sup>Keimyung University, Daegu, Korea,  
<sup>5</sup>Panel Chairman, Freie Universität Berlin, Berlin, Germany

**P-32 Development of fluorescent reactive oxygen species (fROS) assay for photosafety evaluation**

Hiroto Ohtake, Kato Masashi, Onoue Satomi, Shizuo Yamada  
School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan

**P-33 Enzymatic reactive oxygen species assay (eROS assay) for evaluating the phototoxic risk of drug metabolites in the early stage of drug discovery.**

Masashi Kato, Hiroto Ohtake, Satomi Onoue, Shizuo Yamada  
Department of Pharmacokinetics and Pharmacodynamics, Graduate School of Integrated Pharmaceutical and Nutrition Sciences, University of Shizuoka

**P-34 Study on the evaluation of a three-dimensional reconstructed human skin model using an Atomic Force Microscope**

Teiko Seki<sup>1</sup>, Chiaki Takeuchi<sup>2</sup>, Sanae Matsuda<sup>2</sup>, Miku Kawama<sup>2</sup>, Tsukimura Wataru<sup>1</sup>, Hiroya Seki<sup>3</sup>, Masayoshi Hisama<sup>2</sup>, Norihiko Itoh<sup>1,4,5</sup>

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<sup>5</sup>Department of Ophthalmology, Tokyo Medical University

**P-35 Evaluation of keratinization using the reconstructed human epidermal model**

Takao Hanada, Yuichi Itahara, Masakazu Kato, Masakazu Inoie, Ken-ichiro Hata  
Japan Tissue Engineering Co., Ltd

**P-36 Usefulness of Strat-M™ for prediction of human skin permeation of chemical compounds**

Sayumi Kanai, Wesam R Kadhum, Konstanty Wierzba, Hiroaki Todo, Kenji Sugibayashi  
Faculty of Pharmaceutical Sciences, Josai University

**P-37 Development of primary skin irritation testing strategy using monolayer culture system**

Shigeyuki Nomura, Yuichiro Goto, Koko Tanigawa, Noriyasu Imai, Takuji Masunaga  
Fundamental Research Laboratories, KOSÉ Corporation

**P-38 Study of *in vitro* skin irritation test targeted for the sensitive skin (Part 3)**

Hidefumi Ikeda, Hideki Nishiura  
R&D Basic Research, Nihon Kolmar Co., Ltd.

**P-39 Special Committee's Report -Alternative Primary Irritation Test-**

Mriko Sugiyama, Noriyasu Imai, Takashi Omori, Shigenobu Hagino, Hiroaki Todo, Akemi Toyoda, Kenji Sugibayashi  
Special committee on alternative primary irritation test, Japanese Society of Alternatives to Animal Experiments

**P-40 Predicting Ocular Irritation of Surfactants Using the Bovine Corneal Opacity and Permeability Assay**

Jackie E. Bader, Kimberly G. Norman, Hans Raabe  
Institute for In Vitro Sciences, Inc., Gaithersburg, MD, USA

**P-41 Evaluation of the Eye Stinging Potential of Baby Shampoos by Assessing TRPV1 Channel Activity**

Anna Forsby<sup>1</sup>, Kimberly Norman<sup>2</sup>, Lindsay Krawiec<sup>2</sup>, Johanna EL Andaloussi-Lilja<sup>1</sup>, Jessica Lundqvist<sup>1</sup>, Beata Wojcik<sup>3</sup>, Vincent Walczak<sup>3</sup>, Rodger Curren<sup>2</sup>, Katharine Martin<sup>3</sup>, Neena Tierney<sup>3</sup>

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<sup>3</sup>Johnson & Johnson Consumer and Personal Products Worldwide, Skillman, NJ, USA

**P-42 Validation and Application of the KeratinoSens Assay, a Novel *In Vitro* Skin Sensitization Assay**

Hans Raabe<sup>1</sup>, Nicole Barnes<sup>1</sup>, Allison Hilberer<sup>1</sup>, Andreas Natsch<sup>2</sup>, Kimberly Norman<sup>1</sup>, Nathan Wilt<sup>1</sup>,  
Rodger Curren<sup>1</sup>

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**P-43 Guidance on the Implementation of new laboratory animal welfare legislation in EU**

Anderso B David, Louhimies Susanna

European Commission, Brussels

**P-44 Construction of three-dimensional reconstructed corneal model by using immortalized human corneal epithelial cell line (iHCE-NY)**

Yoshinao Kato<sup>1</sup>, Naoki Yamamoto<sup>1</sup>, Atsushi Sato<sup>1</sup>, Satoru Nakata<sup>1</sup>, Hajime Kojima<sup>3</sup>

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<sup>2</sup>Fujita Health University Joint Research Laboratory, Aichi, Japan

<sup>3</sup>National Institute of Health Sciences, Tokyo, Japan

**P-45 Immunohistochemical study of a new corneal toxicity method using cultured porcine corneal tissues**

Hiroki Takahashi<sup>1</sup>, Kazuki Tajima<sup>1</sup>, Shunsuke Kato<sup>2</sup>, Takaaki Hattori<sup>1</sup>, Norihiko Ito<sup>1, 3</sup>, Hitoshi Goto<sup>1</sup>

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<sup>3</sup>Dainichiseika-Donated Chair of Research Division for Innovative Biomaterials,  
Tokyo Institute of Technology

**P-46 Effects of alternative concentrations and exposure times of the test article in the bovine corneal opacity and permeability (BCOP) test method**

Masatoshi Furukawa<sup>1</sup>, Takashi Sakakibara<sup>1</sup>, Masumi Rokukawa<sup>1</sup>, Kouta Itoh<sup>1</sup>, Satoshi Sasaki<sup>1</sup>,  
Takeo Hiraga<sup>2</sup>, Hajime Kojima<sup>3</sup>, Masao Matsuura<sup>1</sup>

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<sup>3</sup>National Institute of Health Science, Tokyo, Japan

**P-47 An international validation study: in vitro alternative method for eye irritation using SIRC-CVS cytotoxicity test (II)**

Takashi Omori<sup>1</sup>, Momoko Sunouchi<sup>2</sup>, Hidefumi Ikeda<sup>4</sup>, Kaori Nakamura<sup>3</sup>, Mi-Sook Jung<sup>5</sup>, Kohji Yamagkage<sup>6</sup>, Shigenobu Hagino<sup>7</sup>, Hajime Kojima<sup>2</sup>

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<sup>3</sup>BoZo Research Center Inc., Tokyo Laboratory, <sup>4</sup>Nihon Kolmar, Co.,Ltd., R&D

<sup>5</sup>Biototech Co. Ltd., <sup>6</sup>Hatano Research Institute, FDSC

<sup>7</sup>Shiseido Research Center

**P-48 Pre-validation study of Vitrige-EIT (Eye Irritancy Test) method**

Hajime Kojima<sup>1</sup>, Nicole Kleinstreuer<sup>3</sup>, Chae-Hyung Lim<sup>4</sup>, Takashi Sozu<sup>5</sup>, Mika Watanabe<sup>6</sup>, Takeru Niitsuma<sup>7</sup>, Kunihiko Yamashita<sup>7</sup>, Takayuki Fukuda<sup>8</sup>, Noriko Yamaguchi<sup>8</sup>, Sho Fujiwara<sup>8</sup>, Hiroyuki Yamaguchi<sup>2,9</sup>, Toshiaki Takezawa<sup>2</sup>

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**P-49 Development of metabolism-integrated in vitro reporter gene assay**

Kouchi Yoshinari, Hiroyuki Nakajima, Chese Noomote

Graduate School of Pharmaceutical Sciences, Tohoku University, Sendai, Japan

**P-50 Effects of sandwich-culture and co-culture systems on the culture method activating hepatic function of HepG2 cells utilizing a collagen vitrigel membrane chamber**

Ayumi Oshikata<sup>1</sup>, Seiichi Ishida<sup>2</sup>, Toshiaki Takezawa<sup>1</sup>

<sup>1</sup>Division of Animal Sciences, National Institute of Agrobiological Sciences, Ibaraki, Japan

<sup>2</sup>Division of Pharmacology, National Institute of Health Sciences

**P-51 Long term culture of human hepatocytes using hollow fiber type three dimensional culture module and its application to the evaluation of drug toxicity**

Taku Matsushita<sup>1</sup>, Takaaki Ishii<sup>1</sup>, Nozomu Shibuya<sup>2</sup>, Mamiko Yanagi<sup>2</sup>, Kenjiro Ikuta<sup>2</sup>, Kouji Kusaka<sup>2</sup>

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<sup>2</sup>MITSUBISHI RAYON CO.,LTD., YOKOHAMA RESEARCH LABORATORIES

**P-52 Hazard Evaluation Support System Integrated Platform (HESS) I**

**-Evaluation of sensitivity to address hepatotoxicity-**

Junko Ohuchi<sup>1</sup>, Toshio Kasamatsu<sup>1</sup>, Yuki Sakuratani<sup>2</sup>, Takashi Yamada<sup>2</sup>,

Naohiro Nishiyama<sup>1</sup>, Jun Yamada<sup>2</sup>

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<sup>2</sup>Chemical Management Center, National Institute of Technology and Evaluation (NITE), Tokyo, Japan

**P-53 Dual-color fluorescent imaging of human CYP3A4 and CYP3A7 expression in human hepatic carcinoma cell lines HepG2 and HepaRG**

Saori Tsuji<sup>1</sup>, Fumihiko Kawamura<sup>2</sup>, Musashi Kubiura<sup>2</sup>, Ayaka Hayashi<sup>2</sup>, Tetsuya Ohobayashi<sup>3</sup>, Yasuhiro Kazuki<sup>2,4</sup>, Mitsuo Oshimura<sup>2,4</sup>, Masako Tada<sup>4</sup>

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<sup>3</sup>Division of Laboratory Animal Science, Research Center for Bioscience and Technology, Tottori University

<sup>4</sup>Chromosome Engineering Research Center, Tottori University



**P-54 Spheroid co-culture of rat hepatocytes with 3T3 cells using microwell chip**

Yuki Goto, Yukiko Yoshiura, Kouji Nakazawa

Department of Life and Environment Eng., The University of Kitakyushu

**P-55 Evaluation of Hepatic Function of Mouse Hepatocyte Spheroids on Cell-able™ Plates with Various Feeder Cells**

Shigenobu Wakuri<sup>1</sup>, Rumiko Saito<sup>1,2</sup>, Kiyoshi Sasaki<sup>1</sup>, Maiko Gondo<sup>1</sup>, Nobuko Endo<sup>1</sup>, Hajime Sui<sup>1</sup>, Koji Yamakage<sup>1</sup>

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<sup>2</sup> Department of Integrative Genomics, Tohoku Medical Megabank Organization (ToMMo), Tohoku University, Miyagi, Japan

**P-56 Stabilization of hepatocyte heterospheroids by co-culture method and their metabolic function**

Masako Nagamura<sup>1</sup>, Saya Okimura<sup>1</sup>, Kohei Sasaki<sup>1</sup>, Satoshi Suzuki<sup>2</sup>, Hidenori Otsuka<sup>1</sup>

<sup>1</sup> Department of Chemical Sciences and Technology, Graduate School of Chemical Science and Technology, Tokyo University of Science, Tokyo, Japan

<sup>2</sup> Human and Animal Bridging (HAB) Research Organization

**P-57 Newly established Semi-IPN Gel System for Long-term Stabilization of Primary Hepatocytes**

Yuki Takahashi, Masako Nagamura, Saya Okimura, Hidenori Otsuka

Department of Chemical Sciences and Technology, Graduate School of Chemical Science and Technology, Tokyo University of Science, Tokyo, Japan

**P-58 Development of in vitro developmental toxicity test including hepatic metabolism activity**

Kazuaki Nakamura, Kazuko Aizawa, Naoko Hori, Akito Tanoue

Department of Pharmacology, National Research Institute for Child Health and development, Tokyo, Japan

**P-59 Functions and gene expressions of cultured-primary rat hepatocytes on oxygen-permeable membranes under physiological oxygen concentrations**

Wenjin Xiao<sup>1</sup>, Hitoshi Matsui<sup>2</sup>, Marie Shinohara<sup>1</sup>, Kikuo Komori<sup>1</sup>, Tomoharu Osada<sup>2</sup>, Yasuyuki Sakai<sup>1</sup>

<sup>1</sup>Institute of Industrial Science (IIS), University of Tokyo, Japan

<sup>2</sup>Mitsubishi Chemical Medience Corporation, Japan

**P-60 A hierarchical co-culture for mimicking liver-specific microvasculature to model liver-specific metastasis**

Mohammad Mahfuz Chowdhury<sup>1</sup>, Mathieu Danoy Danoy<sup>2</sup>, Shohei Kaneda<sup>1</sup>, Teruo Fujii<sup>1</sup>, Yasuyuki Sakai<sup>1</sup>

<sup>1</sup>Institute of Industrial Science, University of Tokyo, Tokyo, Japan

<sup>2</sup>University of Lille 1, France

**P-61 Effects of kanka(KNK) on cultured rat embryos**

Atsushi Yokoyama<sup>1</sup>, Masaharu Akita<sup>2</sup>

<sup>1</sup>Kanagawa Life-Science Res., Kanagawa, Japan

<sup>2</sup>Kamakura Woman's University

**P-62 Effects of isokuersitorine(IKS) on cultured rat embryos**

Atsushi Yokoyama<sup>1</sup>, Masaharu Akita<sup>2</sup>

<sup>1</sup>Kanagawa Life-Science Res., Kanagawa, Japan

<sup>2</sup>Kamakura Woman's University

**P-63 Rapid and quantitative efficacy prediction of bioactive compound for skin turnover with toxicity at physiological concentration - Evaluation within 1 h -**

Toshihiro Ona<sup>1</sup>, Junko Shibata<sup>2</sup>

<sup>1</sup>Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, Fukuoka, Japan

<sup>2</sup>OK Lab. Corporation, Cell BET Division, Mitaka, Japan

**P-64 Exposure experiment for water-insoluble chemicals to cultured cell line**

Kazuto Narita<sup>1</sup>, Yuujin Ishihara<sup>1</sup>, Hajime Kojima<sup>2</sup>, Hiroshi Itagaki<sup>1</sup>

<sup>1</sup>Department of Materials Science and Engineering, Yokohama National University, Kanagawa, Japan

<sup>2</sup>National Institute of Health Sciences

**P-65 Osteogenic effect of novel media for mouse and human mesenchymal stem cells**

Yoshitomo Honda<sup>1</sup>, Yoshiya Hashimoto<sup>2</sup>, Koichi Imai<sup>2</sup>, Shoji Takeda<sup>2</sup>

<sup>1</sup>Institute of Dental Research, Osaka Dental University, Osaka, Japan

<sup>2</sup>Department of Biomaterials, Osaka Dental University

**P-66 The evaluation of Multi-Immuno Tox Assay as a high throughput immunotoxicity assay**

Yutaka Kimura<sup>1</sup>, Chizu Fujimura<sup>1</sup>, Yoshihiro Ohmiya<sup>2</sup>, Setsuya Aiba<sup>1</sup>

<sup>1</sup>Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan

<sup>2</sup>Biomedical Research Institute, Advanced Industrial Science and Technology, Tsukuba, Japan

**P-67 Application of GFP-transgenic silkworm for an animal model of drug-induced tissue injury**

Yoshinori Inagaki<sup>1</sup>, Yasuhiko Matsumoto<sup>1</sup>, Yasue Matsutani<sup>2</sup>, Takuya Tsubota<sup>3</sup>, Hideki Sezutsu<sup>3</sup>, Kazuhisa Sekimizu<sup>1,2</sup>

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<sup>2</sup>Genome Pharmaceuticals Institute Co., Ltd., Tokyo, Japan

<sup>3</sup>Transgenic Silkworm Research Unit, National Institute of Agrobiological Sciences, Ibaraki, Japan

**P-68 Development of an alternative method of acute oral toxicity tests using silkworm Part2**

Takuya Sugita<sup>1</sup>, Yutaka Yamamoto<sup>1</sup>, Takuro Ueki<sup>1</sup>, Satoshi Nishida<sup>2</sup>, Hiroshi Hamamoto<sup>3</sup>, Yasuhiko Matsumoto<sup>3</sup>, Kazuhisa Sekimizu<sup>2,3</sup>, Hidenobu Okumura<sup>1</sup>

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<sup>3</sup>Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan

**P-69 Effects of acetylcholine on the H<sub>2</sub>O<sub>2</sub>-induced reduction of connexin43 protein in rat cardiomyocytes**

Hideto Ariumi, Yuma Ishizaki, Yuji Yoshiyama

Division of Community Pharmacy, Research and Education Center for Clinical Pharmacy, School of Pharmacy, Kitasato University

**P-70 Application of coral particles for three-dimensional tissue culture on capillary**

Tomoharu Okamura<sup>1</sup>, Tetsunari Nishikawa<sup>1</sup>, Masahiro Wato<sup>1</sup>, Kazuya Tominaga<sup>1</sup>, Hirohito Kato<sup>1</sup>, Koichi Imai<sup>2</sup>, Shoji Takeda<sup>2</sup>, Akio Tanaka<sup>1</sup>

<sup>1</sup>Department of Oral Pathology, Osaka Dental University

<sup>2</sup>Department of Biomaterials, Osaka Dental University

**P-71 Hard tissue formation and change of extracellular matrix by 3-D cultured HMS0014 cells using a collagen scaffold.**

Shunji Kumabe, Michiko Nakatsuka, Katsura Ueda, Chunying An, Chizuko Inui-yamamoto, Yasutomo Iwai

Department of Oral Anatomy, Osaka Dental University, Osaka, Japan

**P-72 Simulation of Dental Orthodontic Force on *In Vitro* Human Periodontal Ligament-like Tissue**

Wen Liao<sup>1</sup>, Masahiro Okada<sup>2</sup>, Kaoru Inami<sup>3</sup>, Yoshiya Hashimoto<sup>2</sup>, Aki Nishiura<sup>3</sup>, Naoyuki Matsumoto<sup>3</sup>

<sup>1</sup>Graduate School of Dentistry, Department of Orthodontics, Osaka Dental University

<sup>2</sup>Department of Biomaterials, Osaka Dental University

<sup>3</sup>Department of Orthodontics, Osaka Dental University

**P-73 Inhibitory effects of mucolytic agent on type A seasonal influenza virus infection**

Takenori Tamaki, Hideto Ariumi, Yuji Yoshiyama

Division of Community Pharmacy, Center for Clinical Pharmacy and Clinical Sciences, School of Pharmacy, Kitasato University

**P-74 KeraSkin<sup>TM</sup>-VM: A novel reconstructed human epidermis model for skin irritation tests**

Kyoung-Mi Jung<sup>1</sup>, Su-Hyon Lee<sup>2</sup>, Won-Hee Jang<sup>1</sup>, Haeng-Sun Jung<sup>2</sup>,

Young-Ho Park<sup>1</sup>, SeungHyeok Seok<sup>3</sup>, Kyung-Min Lim<sup>4</sup>

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<sup>4</sup>College of Pharmacology, Ewha Womans University, Seoul 120-808, Republic of Korea

**P-75 Bayesian Integrated Testing to assess the Skin Sensitization Potential of Chemicals**

Petra Kern<sup>1</sup>, Yuri Dancik<sup>2</sup>, Cindy Ryan<sup>3</sup>, Leslie Foertsch<sup>3</sup>, Andreas Natsch<sup>4</sup>, Frank Gerberick<sup>3</sup>, Joanna Jaworska<sup>2</sup>

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<sup>4</sup>Givaudan Schweiz AG, Ueberlandstrasse 138, CH-8600, Dübendorf, Switzerland

# General Presentation

(Poster presentation, Flash presentation)

## Poster

Posting period: 20th, Dec. (Fri) 11:00 - 21st, Dec. (Sat) 15:00

East Wing 2F, Seminar Room - Middle Meeting Room

## Flash presentation (2 min Oral Presentation)

Period: 20th, Dec. (Fri) 9:00-10:00

P-1 - P-23      TERRSA Hall

P-24 - P-47      Large Meeting Room (3F)

P-48 - P-75      Audiovisual Training Room (2F)

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1. All general presenters must be poster presentation as well as flash presentation.
2. Presentation software should be used of the Windows PowerPoint 2007, and only two or three slides.
3. Not allowed in flash presentation.
  - 1) Use of private personal computer
  - 2) Use of video file
4. Please include your send attachment file name in your poster number and your name. Please send the file to flash@jsaae26.jp on Tuesday, December 10.  
example : "P-1-sato.ppt"  
(Your Flash Presentation will be impossible to past this dead line)
5. Flash Presentation time is only 2 minutes. End bell will ring in two minutes.  
(After this time, your projector switch is shut off)
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7. The must excellent presentation will be awarded of "Best Poster Award" in closed remarks.  
--Poster--  
[size]
8. The size of a panel is width 90cm Hight about 210cm.
  - 1) Poster number plates, the size of 20cm x 20cm, on the top left corner.
  - 2) Please prepare a paper which states your presentation title, speakers and co-authors, and affiliation which should be pasted on the top right corner of the panel, the size of width 70cm x Hight 20cm. There will be no restrictions on layout for other items.  
\*Number plates and pins will be prepared on-site.  
[time]
9. Set up; Dec. 20(Fri.) 9:00-11:00
10. Poster presentation: 20(Fri) 17:30-19:00
11. Removal: 21(Sat) 15:00-16:00  
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