

Program

Day 1: September 4th (Thursday)

Small Theater, Gifu City Culture Center (Main Venue)

8:55 ~ 9:00 Opening Remarks

The 32nd Annual Meeting of The Japanese Society of Immunotoxicology

President : Tsuyoshi Nakanishi

9:00 ~ 9:45 Students and Young Scientists Session 1 < Y-01 ~ Y-05 >

Chairpersons: Hiroshi Hasegawa (Kobe Pharmaceutical University),
Akiko Honda (Kyoto University)

Y-01 Induction of anti-PEG IgM by daily application of PEG derivative-containing lotion

○Yuri Kim¹, Haruka Takata^{1,2}, Hidenori Ando^{1,2}, Tatsuhiro Ishida^{1,2}

¹Dept. of PK and Biopharmaceut., ²Res. Center for DDS, Inst. of Biomed. Sci., Tokushima Univ.

Y-02 The impact of anti-PEG antibodies on anaphylaxis by PEGylated nanoparticles

○Shuto Yamaguchi¹, Haruka Takata^{1,2}, Shingo Kobayashi^{1,2}, Hidenori Ando^{1,2},
Tatsuhiro Ishida^{1,2}

¹Department of Pharmacokinetics and Biopharmaceutics, ²Innovative Research Center for Drug Delivery System, Institute of Biomedical Sciences, Tokushima University

Y-03 Pathological role of CCL28 in atopic dermatitis through the recruiting of IgE antibody-producing cells

○Takayuki Sakai, Kazuhiko Matsuo, Ayaka Yamasita, Ayana Hashimoto, Kanon Tanaka, Yuta Hara, Takashi Nakayama

Kindai University Faculty of Pharmacy

Y-04 Role of Chemokine CCL28 for the airway epithelial cells in asthma

○Anju Kyushiki, Yuta Hara, Kazuhiko Matsuo, Takashi Nakayama

Div. Chemother., Fac. Pharm., Kindai Univ.

Y-05 The regulation of basophil activation by Staphylococcal secretory proteins

○Haruka Sakakibara¹, Shion Kamada¹, Rikuto Iwata¹, Hina Kiriyama¹, Isamu Ogawa¹, Shigeaki Hida¹, Saotomo Itoh^{1,2}

¹Pharm Sci, Nagoya City Univ, ²Pharm, Aichi Gakuin Univ

<Break>

9:50 ~ 10:35 Students and Young Scientists Session 2 < Y-06 ~ Y-10 >

Chairpersons: Hiroko Shibata (National Institute of Health Sciences), Kazuhiko Matsuo (Kindai University)

Y-06 Impact of Allergen Exposure Patterns on Mast Cell Activation and Allergic Inflammation

○Sachika Miyashita, Yuka Nagata, Atsushi Furukawa, Ryo Suzuki
Fac. Pharm. Sci., Kanazawa Univ.

Y-07 Analysis of adjuvant factors involved in the development of cochineal allergy

○Aoi Ezawa¹, Michihiro Takahama¹, Naoki Takemura¹, Tatsuya Saitoh^{1,2}

¹Grad Sch Pharm Sci, Univ Osaka, ²Global Ctr, Med Eng Inform, Univ Osaka

Y-08 Palmitic acid interferes with the immunotoxicity of myeloid-derived suppressor cells

○Koyo Sano, Sena Mitsukawa, Momone Shiomi, Masashi Tachibana
Life Sci., Ritsumeikan Univ.

Y-09 Myeloid-derived suppressor cell-specific CCR2 down-regulation by HDAC inhibitor

○Risa Mitsuoka, Koki Maekawa, Toshihiro Ito, Koki Yamada, Masashi Tachibana
Life Sci., Ritsumeikan Univ.

Y-10 HMG-CoA reductase inhibitors regulate helper T cell differentiation

○Satoshi Ishikawa¹, Haruka Mizuno¹, Kazuki Sasano¹, Kanon Murase¹, Isamu Ogawa¹, Saotomo Itoh², Shigeaki Hida¹

¹Pharm Sci, Nagoya City Univ., ²Pharm Sci, Aichi Gakuin Univ.

<Break>

10:40 ~ 11:28 Students and Young Scientists Session 3 < Y-11 ~ Y-16 >

Chairpersons: Atsuhito Kubota (Health Sciences University of Hokkaido), Takeshi Susukida (National Institute of Health Science)

Y-11 Analysis of T cell activation by antiepileptic drugs without specific HLA restriction using a mouse model

○Satoru Nakada, Kousei Ito, Shigeki Aoki

Laboratory of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University

Y-12 Characterization of CX3CR1 knock-in reporter mice and their application in colitis model

○Saya Tanaka, Keishi Ishida, Kenjiro Tajimi, Daisuke Matsumaru, Tsuyoshi Nakanishi Gifu Pharm. Univ.

Y-13 Generation and analysis of Siglec-14-transduced mice

○Ryunosuke Gohara¹, Shin-Ichiro Yamaguchi¹, Yamato Aoshima¹, Masahito Ikawa², and Masafumi Nakayama¹

¹Pharm Sci, Ritsumeikan Univ, ²Res Inst Microb Dis, Osaka Univ

Y-14 Inflammatory response by sun-aged polypropylenes and environmental model for their risk assessment

○Yurika Wada¹, Yoko Iwamoto¹, Mizuo Kajino², Yasuhiro Ishihara¹

¹Grad. Sch. Integr. Sci. Life, Hiroshima Univ, ²Japan Meteorol. Agency

Short Presentation < Y-15, Y-16 >

Y-15 Development of *in vitro* test method for allergenicity assessment of proteins

○Yuki Satoda¹, Saho Mochizuki¹, Hideyuki Mizumachi¹, Yutaka Takahashi¹, Tomoaki Inoue², Yuichi Itou¹

¹Safety Science Research Laboratories, Kao Corporation, ²Frontier Co., Ltd.

Y-16 Differential Immunomodulatory Effects of Carbon Black Nanoparticles in Allergic Disease Models

○Kota Watanabe, Atsushi Furukawa, Yuka Nagata, Ryo Suzuki

Fac. Pharm. Sci., Kanazawa Univ.

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11:45 ~ 11:55 Flash Presentation

11:55 ~ 12:25 General Assembly

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Exhibition Room, Gifu City Culture Center (Poster Venue)

13:15 ~ 14:15 Poster Discussion Session < P-01 ~ P-22 >

P-01 Immunotoxicological Evaluation of 23 PFAS Using Primary Cultured Mouse Splenocytes

○Atsuhito Kubota^{1,2}, Wataru Murase¹, Ryuta Muromoto^{1,2}, Hiroyuki Kojima^{1,2}

¹Grad. Sch. Pharm. Sci., Health Sci. Univ. Hokkaido., ²Sch. Pharm. Sci., Health Sci. Univ. Hokkaido.

P-02 Fundamental Study on the Immunotoxic Effects of Indium-Tin Oxide (ITO) Exposure: Mitochondrial Dysfunction in Human T Cell Line MT-2

○Yasumitsu Nishimura¹, Nao Maruo², Masamitsu Eitoku², Kazuya Kobiro³, Tatsuo Ito¹, Narufumi Saganuma²

¹Dept. of Hygiene, Kawasaki Medical School, ²Dept. of Environmental Medicine, Kochi Medical School, ³Lab. for Structural Nanochemistry, Kochi University of Technology

P-03 Establishing a functional alveolar macrophage cell line: A valuable platform for elucidating the mechanisms of cell death and for high-throughput screening of environmental toxicants

○Takumi Adachi¹, Hinata Inoue¹, Hiroto Izumi² and Etsushi Kuroda¹

¹Department of Immunology, Hyogo Medical University School of Medicine, Japan,

²Department of Occupational Pneumology, Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan

P-04 *Mycobacterium leprae* evades macrophage immunity to sustain intracellular survival

○Kazunari Tanigawa¹, Koichi Suzuki², Ryosuke Nakamura¹

¹Pharm Sci, Teikyo Univ, ²Med Technol, Teikyo Univ.

P-05 Activation of caspase-11 by Gram-negative bacterial infection and its impact on the pathogenesis

○Hideki Hara

Infect Dis, Asahikawa Med Univ

P-06 Inflammatory mediators of mRNA vaccine-induced adverse reactions in mice

Koyo Honda^{1,2}, Naoki Takemura¹, So-ichiro Fukada¹, Tatsuya Saitoh¹, Toshiro Hirai^{1,2,3,4},

○Yasuo Yoshioka^{1,2,3,4,5}

¹Grad. Sch. Pharm. Sci./²RIMD/³OTRI/⁴CAMaD, The University of Osaka, ⁵BIKEN

P-07 Zinc deficiency reduces the effectiveness of vaccine

○Takamasa Kido, Hiroyuki Yanagisawa, Saburo Saito, Machi Suka

The Jikei University School of Medicine

P-08 International trends in regulations regarding immunogenicity and immunotoxicity assessment of biopharmaceuticals

○Akiko Ishii-Watabe, Hiroko Shibata, Kazuko Nishimura, Michihiko Aoyama, Minoru Tada, Takuo Suzuki, Yoichi Tanaka, Yoshiro Saito

Natl Inst Health Sci

P-09 Study of factors influencing performance of *in vitro* immunogenicity assay

○Michihiko Aoyama, Takuo Suzuki, Minoru Tada, Akiko Ishii-Watabe

Natl Inst Health Sci

P-10 Study on the effects of repeated dermal and inhalation exposure to toluene diisocyanate and their evaluation methods

○Eiko Koike, Rie Yanagisawa, Yuji Fujitani, Yoshikatsu Takazawa, Go Suzuki
National Institute for Environmental Studies

P-11 Effects of intratracheal administration to polyurethane microcapsules before and after membrane rupture on pulmonary inflammation and its association with the gut microbiota

○Rie Yanagisawa, Eiko Koike, Takehiro Suzuki, Yuji Fujitani, Yoshikazu Takazawa, Go Suzuki

National Institute for Environmental Studies

P-12 The role of inflammation and angiogenesis-related molecules in fibrosis induced by particulate matter

Natsuko Miyasaka^{1,2}, ○Akiko Honda¹, Kenichiro Inoue³, Kaori Sadakane⁴, Takamichi Ichinose⁴, Raga Ishikawa⁵, Ryoko Ohata^{1,2}, Takayuki Kameda⁶, Tomoaki Okuda⁵, Hirohisa Takano^{7,8}

¹Grad. Sch. of Eng., Kyoto Univ., ²Res. Collab. Ctr. Kyoto Univ. of Adv. Sci., ³Sch. of Nursing, Shizuoka Pref. Univ., ⁴Nursing and Health Sci., Oita Univ., ⁵Facul. of Sci. and Tech., Keio Univ., ⁶Grad. Sch. of Energy Sci., Kyoto Univ., ⁷Inst. for Int. Acad. Res., Kyoto Univ. of Adv. Sci., ⁸Res. Inst. for Coexistence and Health Sci., Kyoto Univ. of Adv. Sci.

P-13 Environmental particulate matter - blood vessel spatial relationship: 3D analysis using lung tissue clearing technology

○Megumi Nagao^{1,2}, Akiko Honda¹, Takamichi Ichinose³, Natsuko Miyasaka^{1,2}, Ryoko Ohata^{1,2}, Hirohisa Takano^{4,5}

¹Grad. Sch. of Eng., Kyoto Univ., ²Res. Collab. Ctr. Kyoto Univ. of Adv. Sci., ³Nursing and Health Sci., Oita Univ., ⁴Inst. for Int. Acad. Res., Kyoto Univ. of Adv. Sci., ⁵Res. Inst. for Coexistence and Health Sci., Kyoto Univ. of Adv. Sci.

P-14 A method for visualizing environmental microparticles in the same field of view in stained specimens

○Sakiko Akaji¹, Tomoya Sagawa², Akiko Honda³, Natsuko Miyasaka^{3,4}, Kaori Sadakane⁵, Takamichi Ichinose⁵, Hirohisa Takano^{6,7}

¹Sch. of Nursing, Shizuoka Pref. Univ., ²Kyoto Pref. Med. Univ., ³Grad. Sch. of Eng., Kyoto Univ., ⁴Res. Collab. Ctr., Kyoto Univ. of Adv. Sci., ⁵Nursing and Health Sci., Oita Univ.,

⁶Inst. for Int. Acad. Res., Kyoto Univ. of Adv. Sci., ⁷Res. Inst. for Coexistence and Health Sci., Kyoto Univ. of Adv. Sci.

P-15 Study of metallothionein 1G transcription suppression mechanism by all-*trans* retinoic acid in human promyeloblastic cell line HL60

○Tomoki Kimura¹, Rei Shiota¹, Hina Hirouchi¹, Shoko Ogush², Takehiro Nakamura¹

¹Pharm Sci, Setsunan Univ, ²Tokyo Univ. Pharm. Life Sci

P-16 Arsenite activates signaling pathways through enhanced sialylation of EGFR

○Daigo Sumi¹, Saho Nakahira¹, Hiroki Taguchi², Ayako Nakayama¹, Hitomi Fujishiro¹

¹Fac. Pharm. Sci, Tokushima Bunri Univ, ²Fac. Pharm. Sci, Tohoku Univ

P-17 The impact of gut microbiota composition on olanzapine-induced weight gain in mice

○Akira Aoki, Yoshinori Okamoto, Hideto Jinno

Fac Pharm, Meijo Univ

P-18 Possible molecular mechanisms underlying the therapeutic effects of Gosha-jinki-gan in busulfan-induced aspermatogenesis

○Ning Qu, Satomi Miyakawa, Shota Toda, Yasuhiro Katahira, Izuru Mizoguchi, Takayuki Yoshimoto

Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University

P-19 Individual T-cell chromatin accessibility correlates with cytokine release following ex vivo stimulation with a T-cell engager in cynomolgus monkeys

○Yoshika Iwata¹, Yuta Narushima², Asako Harada¹, Akihisa Sakamoto², Hisashi Ikegami¹, Masayuki Mishima¹, Hiromi Suzuki¹

¹Translational Research Division, Chugai Pharmaceutical Co., Ltd., ²Research Division, Chugai Pharmaceutical Co., Ltd.

P-20 Characterization of β 2-microglobulin-independent HLA class I heavy chain expression on the cell surface

○Shigeki Aoki¹, Mai Nonaka¹, Keitaro Umezawa², Yuri Miura², Kousei Ito¹

¹Grad Sch of Pharm Sci, Chiba Univ, ²TMIG

P-21 Development and maintenance of strains, storage and supply of small animal models of rare and severe diseases and disorders, and related technologies

○Haruhiko Kamada, Mayu Kamimura, Mitsuho Sasaki, Kozue Uchio, Osamu Suzuki
NIBN

P-22 Effect of the repetitive injection of microbubbles on blood flow imaging

○Ryo Suzuki, Tadamitsu Shima, Saori Kageyama, Lisa Munakata, Daiki Omata, Kazuo Maruyama

Fac Pharm Sci, Teikyo Univ

13:15 ~ 14:15 Poster Discussion (Young Researchers) < Y-01 ~ Y-16 >

Y-15 Development of *in vitro* test method for allergenicity assessment of proteins

○Yuki Satoda¹, Saho Mochizuki¹, Hideyuki Mizumachi¹, Yutaka Takahashi¹, Tomoaki Inoue², Yuichi Itou¹

¹Safety Science Research Laboratories, Kao Corporation, ²Frontier Co., Ltd.

Y-16 Differential Immunomodulatory Effects of Carbon Black Nanoparticles in Allergic Disease Models

○Kota Watanabe, Atsushi Furukawa, Yuka Nagata, Ryo Suzuki

Fac. Pharm. Sci., Kanazawa Univ.

The presentations given in the Student & Young Researcher Session < Y-01 ~ Y-16 > will also be displayed in poster format. The Student & Young Researcher Presentation Award will be selected based on the evaluation of both the oral and poster presentations.

<Break>

Small Theater, Gifu City Culture Center (Main Venue)

14:20 ~ 15:20 Tutorial Lecture < TL-01 >

Chairperson: Tsuyoshi Nakanishi (Gifu Pharmaceutical University)

TL-01 Mass Spectrometry Imaging -Basics and its applications-

○Shuichi Shimma^{1,2,3}

¹Graduate School of Engineering, The University of Osaka, ²OTRI, The University of Osaka, ³The University of Osaka and Shimadzu Analytical Innovation Research Laboratory

<Break>

15:25 ~ 16:25 Special Lecture 1 < SL-01 >

Chairperson: Tsuyoshi Nakanishi (Gifu Pharmaceutical University)

SL-01 Immunotoxicity Regulation Through Gut Microbiota-Based Strategies

○Jun Kunisawa

National Institutes of Biomedical Innovation, Health and Nutrition

<Break>

16:30 ~ 17:30 Special Lecture 2 < SL-02 >

Chairperson: Yasumitsu Nishimura (Kawasaki Medical School)

SL-02 Immunotoxicology testing for biotherapeutics: strategies and applications

○Marie-Soleil Piche

Immunology department, Charles River Laboratories, Senneville, Canada

HOTEL Grand Vert GIZAN

18:30 ~ 20:30 Banquet

Award Ceremony for Students and Young Scientists

Day 2: September 5th (Friday)

Small Theater, Gifu City Culture Center (Main Venue)

8:50 ~ 9:50 Oral Presentation 1 < O-01 ~ O-05 >

Chairpersons: Masafumi Nakayama (Ritsumeikan University),
Hideki Hara (Asahikawa Medical University)

O-01 Impact of chronic social stress on LNP-mRNA vaccine efficacy

○Masakiyo Nakahira, Etsushi Kuroda

Department of Immunology, School of Medicine, Hyogo Medical University

O-02 The differential pyrin inflammasome responses between resident peritoneal and bone marrow-derived macrophages

○Izumi Sasaki¹, Shiori Kaji², Ayano Kurara¹, Naoko Wakaki-Nishiyama¹, Mai Yamagishi³, Yoshitaka Shirasaki⁴, Daisuke Okuzaki⁵, Tsuneyasu Kaisho^{1,6}

¹Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, ²Second Department of Internal Medicine, Wakayama Medical University,

³Live Cell Diagnosis, ⁴Research Center for Advanced Science and Technology, The University of Tokyo, ⁵WPI-Immunology Frontier Research Center, The University of Osaka, ⁶Industry-Government-Academia Collaboration Promotion Headquarters, Wakayama Medical University

O-03 HMGB1 enhances immunosuppressive activity of MDSCs via TLR4 signaling

○Toshihiro Ito¹, Zhiqi Xie², Masashi Tachibana¹

¹Life Sci., Ritsumeikan Univ., ²Pham., Hangzhou City Univ.

O-04 Development of a coculture system of Fc γ receptor⁺ cell and antibody-targeted cell lines to predict cytokine release syndrome caused by antibody drugs

○Shota Toda¹, Izuru Mizoguchi¹, Natsuki Yamaguchi¹, Eri Horio¹, Satomi Miyakawa¹, Yasuhiro Katahira¹, Miki Igarashi¹, Ning Qu¹, Takao Ashikaga², Takayuki Yoshimoto¹

¹Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, ²Division of Genome Safety Science, National Institute of Health Sciences Center for Biological Safety and Research

O-05 Retrospective evaluation of complement activation by antisense oligonucleotides

○Satoko Yoshioka, Yuichiro Amano, Jodi Goodwin

Nonclinical Safety and Pharmacology, Takeda Pharmaceutical Company Limited

<Break>

**9:55 ~ 11:55 Symposium < S-01 ~ S-04 >
「Immune toxicity involvement in brain dysfunction」**

Chairpersons: Yuhei Nishimura (Mie University),
Masashi Tachibana (Ritsumeikan University)

S-01 Methylmercury-induced neurological damage mediated by microglial activation and future prospects

○Gi-Wook Hwang

Faculty of Pharmaceutical Sciences, Tohoku Medical and Pharmaceutical University

S-02 Oligodendrocyte Toxicology -Beyond Microglia-

○Yasuhiro Ishihara

Grad. Sch. Integr. Sci. Life, Hiroshima Univ.

S-03 Assessment of microglial morphology and function using in vivo whole-brain imaging of larval zebrafish

○Yuhei Nishimura

Department of Integrative Pharmacology, Mie University Graduate School of Medicine

S-04 Mechanistic insights into brain functional alterations associated with peripheral immune dysregulation

○Michio Miyajima^{1,2}

¹UTokyo Med, ²RIKEN

<Break>

13:00 ~ 14:12 Oral Presentation 2 < O-06 ~ O-11 >

Chairpersons: Eri Hamamura (Daiichi Sankyo Co., Ltd.),
Shogo Matsumura (Astellas Pharma Inc.)

O-06 Neutrophilic Inflammation Induced by PM2.5 Is Partially Dependent on TLR4 Signaling and Correlates with ROS and PAHs

○Duo Wang¹, Zirui Zeng², Ryuji Okazaki¹, Yasuhiro Yoshida³

¹Department of Radiobiology and Hygiene Management, Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan, ²The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan, ³Department of Immunology and Parasitology, School of Medicine, University of Occupational and Environmental Health, Japan

O-07 Delayed Effects of Short-Term Repeated Ethanol Administration on the Thymus

○Hiroshi Hasegawa, Manta Nakajima, Mari Kondo

Laboratory of Hygienic Sciences, Kobe Pharmaceutical University

O-08 Modeling the maturation process of cultured neurons by Raman spectroscopy and machine learning

○Kosuke Hashimoto¹, Otoya Aoyama², Keiichi Koizumi^{1,2}

¹Reseaech Center for Pre-disease Science, Univ. Toyama, ²Inst. Nat. Med., Univ. Toyama

O-09 Study on the Regulatory Mechanisms of Hepatic Drug-Metabolizing Enzymes by Oncolytic Reovirus

○Atsushi Kawase¹, Yanqin Dou¹, Shoya Oue¹, Hiroaki Shimada¹, Ken J. Ishii³, Fuminori Sakurai^{1,2}

¹Graduate School of Pharmacy, Kindai University, ²Graduate School of Pharmaceutical Sciences, The University of Osaka, ³The Institute of Medical Science, The University of Tokyo

O-10 Study of immunotoxic effects of orally administered titanium dioxide on Peyer's patches in the small intestine of rats

○Jun-ichi Akagi¹, Yasuko Mizuta¹, Mizuho Uneyama¹, Hirotoshi Akane¹, Kohei Matsushita¹, Takeshi Toyoda¹, Kumiko Ogawa^{1,2}

¹Div. Pathology, Natl. Inst. Health Sci., ²Dept. Toxicol., Hoshi Univ.

O-11 De novo generation of lineage-stable regulatory T cells promotes immune tolerance to food antigens

○Ryoji Kawakami^{1,2}, Masaya Arai², Shimon Sakaguchi^{1,2}

¹Institute for Life and Medical Sciences (LiME), Kyoto University, ²Immunology Frontier Research Center (IFReC), Osaka University

14:12 ~ 14:20 Awards Ceremony

14:20 ~ 14:45 JSIT Award Lecture < AL-01 >

Chairperson: Yasumitsu Nishimura (Kawasaki Medical School)

AL-01 Immunotoxicological mechanisms and integrated health risk assessment of allergy and inflammatory immune dysregulation induced by heavy metals, chemicals, and nutrients

○Hiroyuki Yanagisawa

The Jikei University School of Medicine

14:45 ~ 15:10 JSIT Young Investigator Award Lecture < AL-02 >

Chairperson: Ryosuke Nakamura (Teikyo University)

AL-02 Investigation of unclarified risk factors regulating the onset of HLA-mediated drug-induced immunotoxicity

○Takeshi Susukida

Section of Host Defences, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama

<Break>

15:20 ~ 17:20 Workshop < WS-01 ~ WS-04 >

「Trends in the development of respiratory sensitization tests and domestic initiatives」

Chairpersons: Yasuhiro Yoshida (The University of Occupational and Environmental Health), Tomoki Fukuyama (Azabu University)

WS-01 The feature and detection methods of respiratory sensitization induced by chemicals including pesticides

○Tomoki Fukuyama

Vet Pharm, Azabu Univ

WS-02 Global trends of in vitro respiratory sensitization tests to the regulatory use and JaCVAM's efforts

○Eiko Koike¹, Takao Ashikaga²

¹Health and Environmental Risk Division, National Institute for Environmental Studies,

²Division of Genome Safety Science, National Institute of Health Sciences

WS-03 Utilization of Reconstructed Human Bronchial Epithelium in In Vitro Evaluation of Respiratory Sensitization Potential of Chemicals

Honoka Aoshima¹, Kazushi Matsumura¹, Ikuya Tanabe¹, ○Shinkichi Ishikawa¹, Izuru Mizoguchi², Takayuki Yoshimoto², Takao Ashikaga³

¹Scientific Product Assessment Center, R&D Group, Japan Tobacco Inc., ²Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, ³Division of Genome Safety Science, National Institute of Health Sciences

WS-04 Development of the 3D coculture systems (DCsens and DC/Tsens) capable of accurately predicting chemical respiratory sensitizing potential

○Izuru Mizoguchi¹, Shota Toda¹, Natsuki Yamaguchi¹, Eri Horio¹, Yasuhiro Katahira¹, Miki Igarashi¹, Satomi Miyakawa¹, Ning Qu¹, Takao Ashikaga², Takayuki Yoshimoto¹

¹Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, ²Division of Genome Safety Science, National Institute of Health Sciences

17:20 ~ 17:30 Award Ceremony for the Best Presenter of 32nd Annual Meeting

Closing Remarks