



Annual Meeting

The 23rd Annual Meeting of JSIT

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| Special Lecture | | |
| Inhaled Nanoparticles: Consequences of Exposure and Approaches for Hazard Identification | Victor J. Johnson | Burleson Research Technologies, Inc., Morrisville, North Carolina, USA |
| Master's Lecture 1 | | |
| Autoimmunity induced by adjuvants | Minoru Satoh | Department of Clinical Nursing, School of Health Sciences, University of Occupational and Environmental Health, Japan |
| Master's Lecture 2 | | |
| Toxicity and side effects of immunosuppressive drugs for treatment in rheumatic diseases | Kazuyoshi Saito, Yoshiya Tanaka | The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan |
| Master's Lecture 3 | | |
| Clinical characteristics and mechanisms of drug-induced pulmonary toxicity. | Kazuhiro Yatera(1), Takashi Kido(1), Hiroshi Ishimoto(2), Yasuo Morimoto(3), Hiroshi Mukae(2) | (1)Department of Respiratory Medicine, University of Occupational and Environmental Health, Japan, (2)Second department of Internal Medicine, Nagasaki University School of Medicine, (3)Department of Occupational Pneumology, University of Occupational and Environmental Health, Japan |
| Symposium 「Estimation of pulmonary toxicity by fine and ultrafine particles and its social practice」 | | |
| Organizers: Seishiro Hirano (National Institute for Environmental Studies), Hiroto Izumi (University of Occupational and Environmental Health, Japan) | | |
| Development of hazard screening methods for industrial nanomaterials: intratracheal instillation study. | Hiroto Izumi(1), Yukiko Yoshiura(1), Takako Oyabu(2), Toshihiko Myojo(2), Yasuo Morimoto(1) | (1)Department of Occupational Pneumology, Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan, (2)Department of |

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| | | Environmental Health Engineering, Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan |
| Lung inflammation and allergy induced by fine particles | Etsushi Kuroda(1),(2),(3), Ken J Ishii(1),(2),(3) | (1)Laboratory of Vaccine Science, Immunology Frontier Research Center, Osaka University, (2)Laboratory of Vaccine Design, Center for Drug Design Research, (3)Laboratory of Adjuvant Innovation, National Institute of Biomedical Innovation, Health and Nutrition |
| Development of devices to screen asbestos exposure and mesothelioma based on immunological analysis | Yasumitsu Nishimura, Suni Lee, Naoko Kumagai-Takei, Kei Yoshitome, Takemi Otsuki | Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan |
| From databases and bioinformatics to pulmonary diseases | Kenji Mizuguchi | National Institutes of Biomedical Innovation, Health and Nutrition, Japan |
| Workshop: 「Adverse outcome pathway (AOP) and immunotoxicity research」 | | |
| Organizers: Shigeru Hisada (Innovative Drug Discovery Division, ASKA Pharmaceutical Co., Ltd.), Tadashi Kosaka (Study Management Division, The Institute of Environmental Toxicology) | | |
| The Concept of development for AOP in OECD | Hajime Kojima | National Institute of Health Sciences (NIHS) |
| The Adverse Outcome Pathway on immunotoxicity of chemicals that dysregulates the induction of Th subsets through affecting IL-2 transcriptional activity. | Yutaka Kimura, Setsuya Aiba | Department of Dermatology, Tohoku University Graduate School of Medicine, Japan |
| The Adverse Outcome Pathway on immunosuppression caused by formation of FKBP12-FK506 complex | Shiho Ito, Kiyoshi Kushima, Yasuharu Otubo, Takumi Ohishi, Hiroyuki Komatsu, Ken Goto, Junichiro Sugimoto, Yoshihiro Talahashi | AOP Working Group, Testing Methodology Committee, The Japanese Society of Immunotoxicology |
| Point to note learned from the experience of AOP development | Kiyoshi Kushima, Shiho Ito, Yasuharu Otubo, Takumi Ohishi, Hiroyuki Komatsu, Ken Goto, Junichiro Sugimoto, Yoshihiro Talahashi | AOP Working Group, Testing Methodology Committee, The Japanese Society of Immunotoxicology |
| The 6th JSIT Award Lecture (for Distinguished Contribution) | | |

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| Immunotoxic effects of agro-chemicals | Tadashi Kosaka | Study Management Division, The Institute of Environmental Toxicology |
| The 6th JSIT Research Award Lecutre | | |
| Effects of environmental chemicals on immune response via nuclear receptors. | Hiroyuki Kojima | Department of Environmental and Health Sciences, Hokkaido Institute of Public Health, Sapporo |
| Students and Young Scientists Session (Oral and Poster) | | |
| Construction of an in vivo Model for Evaluating the Immune-Mediated Idiosyncratic Drug Toxicity Using Chimeric HLA Transgenic Mice | Takeshi Susukida, Shigeki Aoki, Sota Fujimori, Kotaro Kogo, Kousei Ito | Laboratory of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University, Japan |
| Analysis of Mechanism of Idiosyncratic Drug toxicities Using Keratinocyte Derived From HLA Tg Mice | Sota Fujimori, Shigeki Aoki, Takeshi Susukida, Kousei Ito | Laboratory of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University, Japan |
| Oral Presentations | | |
| Detection of autoantibodies to rods and rings structure (RR) in Japanese patients with chronic hepatitis C virus (HCV) infection using commercial HEp-2 slides | Shin Tanaka(1), Tamiji Nakashima(1), Takashi Himoto(2), Minoru Satoh(1) | (1)University of Occupational and Environmental Health, Japan., (2)Clinical Examination Department, Kagawa Prefectural University of Health Sciences |
| The responsible for the decrease in anti-inflammatory M2 macrophages in the spleen and role of IL-4 in Zn-deficient rats | Kido Takamasa, Yogosawa Shingo, Yoshioka Wataru, Suga Machi, Yanagisawa Hiroyuki | Department of Public Health and Environmental Medicine, Jikei University School of Medicine |
| LPS-rich urban particulate matter 10 suppresses immune responses in splenocytes | Yasuhiro Yoshida(1), Yuan Song(1), Cuiying He(1), Kentaro Morita(1), Takamiti Ichinose(2), Tamotsu Kanazawa(1) | (1)Department of Immunology and Parasitology, University of Occupational and Environmental Health, Japan, (2)Department of Clinical Laboratory, the Fourth Hospital of Hebei Medical University |
| Perturbation of lysosomal pH in silver nanoparticle-induced cellular damage in A549 cells | Takamitsu Miyayama, Masato Matsuoka | Department of Hygiene and Public Health I, School of Medicine, Tokyo Women's Medical University |
| The effects of cleaning solvent or tetrachloroethylene on the mRNA expressions of human immortal keratinocyte cell line HaCaT | Masashi Tsunoda(1), Chiemi Sugaya(1), Yumiko Sugiura(1) | (1)Department of Hygiene, Kitasato University School of Medicine, Japan |

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| Production of IL-1 β and changes in p62/SQSTM1 and LC3 in macrophages following simultaneous exposure to particles and LPS. | Seishiro Hirano(1) and Sanae Kanno(2) | (1)Center for Health and Environmental Risk Research, Natl. Inst. Environ. Studies, (2)St. Marianna Univ. School of Medicine |
| The comparison of expression levels of oxidative phosphorylation-related complexes in human T cell lines, MT-2 and its sublines continuously exposed to asbestos fibers | Takemi Otsuki, Shoko Yamamoto, Suni Lee, Tamayo Hatayama, Hidenori Matsuzaki, Naoko Kumagai-Takei, Kei Yoshitome, Yasumitsu Nishimura | Department of Hygiene, Kawasaki Medical School |
| Impact of aging and radiation on influenza vaccine response among Atomic-bomb Survivors | Tomonori Hayashi(1), Heather E. Lynch(2), Susan Geyer(3), Kengo Yoshida(1), Ikue Hayashi(4), Junko Kajimura(1), Seishi Kyoizumi(1), Yoichiro Kusunoki(1), Waka Ohishi(1), Saeko Fujiwara(5), Ivo Shterev(2), Janko Nikolich-Zugich(6) Donna Murasko(7), Gregory D. Sempowski(2), Kei Nakachi(1) | (1)Radiation Effects Research Foundation, (2)Duke University Medical Center, (3)University of South Florida, (4)Hiroshima University Faculty of Dentistry, (5)Hiroshima Atomic Bomb Casualty Council, (6)University of Arizona College of Medicine, (7)Drexel University |
| Evaluation of immunological test in a four-week repeated dose toxicity study of cyclophosphamide in Microminipig | Hiroyuki Komatsu, Masaki Kunieda, Hiroyuki Saito, Takayuki Kubota, Miyuki Takao, Kumiko Kitta, Yoshiyuki Suzuki, Hiro Eda and Yasuki Akie | Bioresearch Center, CMIC Pharma Science Co., Ltd. |
| Identification of MHC-associated peptides presented by human iPS cell-derived dendritic cells (hiPS-DCs) | Shunsuke Ito, Nobuo Sekiguchi, Tatsuya Ikuno, Toshiko Hara, Ayako Takahashi, Mitsuyasu Tabo, Shuichi Chiba, Tomoaki Inoue | Research Division, Chugai Pharmaceutical Co., Ltd., Gotemba, Japan |
| Poster Presentations | | |
| Toll-like receptor 4 plays a role in diesel exhaust origin secondary organic aerosol-induced impaired spatial learning ability in neonatal mice | Tin Tin Win Shwe, Eiko Koike, Rie Yanagisawa, Yuji Fujitani, Seishiro Hirano | Center for Health and Environmental Risk Research, National Institute for Environmental Studies |
| Effects of hexabromocyclododecane on | Eiko Koike, Rie Yanagisawa, Tin Tin Win Shwe | Center for Health and Environmental Risk Research, |

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| inflammatory response in adipocytes and macrophages | | National Institute for Environmental Studies |
| Analysis of the appearance of deamidated epitope after acid-hydrolyzation of wheat gluten using epitope-specific monoclonal antibody | Reiko Teshima(1), Shinobu Sakai(1), Masashi Nakamura(2), Yoshiaki Ikarashi(1), Olivier Tranquet(3), Sandra Denery-Papini(3), Kayoko Matsunaga(2) | (1)Natl. Inst. Health Sci., (2)Dep.Integrative Med. Sci.for Allerg.Dis., Fujita Health Univ. School of Med, (3)French Natl. Inst. Agricul. Res. |
| Effects of maternal exposure to benzo[a]pyrene during neonatal periods on airway allergic inflammation in offspring. | Rie Yanagisawa(1), Eiko Koike(1), Tin-Tin Win-Shwe(1), Hirohisa Takano(2) | (1)Molecular Pathology Section, Center for Health and Environmental Risk Research, National Institute for Environmental Studies, (2)Graduate School of Engineering, Kyoto University, Kyoto, Japan. |
| In vitro solid phase cytokine release assay with pre-incubation of human peripheral blood mononuclear cells | Shiho Ito(1), Kyoko Miwa(1), Chiharu Hattori(2), Hitomi Terada(1), Tetsuo Aida(1), Yoshimi Tsuchiya(1) | (1) Medicinal Safety Research Laboratories, DAIICHI SANKYO CO., LTD., (2) Biologics & Immuno-Oncology Laboratories, DAIICHI SANKYO CO., LTD |
| Effects of Infectious Diseases in the Pathogenesis of Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis. | Yoshimi Okamoto-Uchida(1), Ryosuke Nakamura(1), Kimie Sai(1), Takuya Imatoh(1), Kayoko Matsunaga(2), Michiko Aihara(3), Yoshiro Saito(1) | (1)Division of Medicinal Safety Science, National Institute of Health Sciences, Tokyo, Japan, (2)Department of Integrative Medical Science for Allergic Disease, School of Medicine, Fujita Health University, Aichi, Japan, (3)Department of Environmental Immuno-Dermatology, Graduate School of Medicine, Yokohama City University, Kanagawa, Japan |
| Analysis on immunogenicity of therapeutic proteins using risk management plans. | Yoshiro Saito(1), Yoshimi Okamoto-Uchida(1), Ryosuke Nakamura(1), Akiko Ishii-Watabe(2) | (1)Division of Medicinal Safety Science, National Institute of Health Sciences, Japan, (2)Division of Biological Chemistry and Biologicals, National Institute of Health Sciences |
| Impact of combined exposure to immunosuppressive chemicals on the respiratory allergic inflammation in the next generation | Risako Tajiki, Tomoki Fukuyama, Yuko Watanabe, Hideo Ueda, Tadashi Kosaka, Takanori Harada | The Institute of Environmental Toxicology |

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| Effect of IL-15 addition on the suppressed induction of human CTL upon exposure to asbestos | Naoko Kunagai-Takei, Yasumitsu Nishimura, Hidenori Matsuzaki, Suni Lee, Kei Yoshitome, Takemi Otsuki | Department of Hygiene, Kawasaki Medical School |
| Comparison of detectability of the anti-drug antibody between SPR and ECL bridging assay using WHO anti-EPO antibody reference panel. | Kazuko Nishimura(1), Chizuru Miyama(1), Minoru Tada(1), Takuo Suzuki(1), Yoshiro Saito(2), Akiko Ishii-Watabe(1) | Division of Biological Chemistry and Biologicals, (2)Division of Medicinal safety Science, National Institute of Health Sciences, Japan |
| Statistical analysis between plasma DcR3 and clinical parameters in silicosis patients. | Suni Lee(1), Yasumitsu Nishimura(1), Hidenori Matsuzaki(1), Naoko Kumagai-Takei(1), Kei Yoshitome(1), Hiroaki Hayashi(2), Masayasu Kusaka(3), Wataru Fujimoto(2), Takemi Otsuki(1) | (1)Kawasaki Medical School, Dept. Hygiene, (2)Kawasaki Medical School, Dept. Dermatology, (3)Kusaka Hospital |
| Effect of short-term and long-term exposure of asbestos on MT-2 cells. | Hidenori Mastuzaki(1), Suni Lee(1), Megumi Maeda(2), Naoko Kumagai-Takei(1), Yasumitsu Nishimura(1), Takemi Otsuki(1) | (1)Department of Hygiene, Kawasaki Medical School, (2)Laboratory of Functional Glycobiology, Department of Biofunctional Chemistry, Division of Agricultural and Life Science, Graduate School of Environmental and Life Science, Okayama University |
| Effects of vehicle-exhaust particle uptake by human nasal epithelial cells on cytokine/chemokine production | Akira Onodera(1), Arisa Morikawa(1), Masashi Kawasaki(1), Kosuke Taniguchi(1), Katsutoshi Yayama(1), Yuichi Kawai(1) | (1)Division of Biopharmaceutical Sciences, Faculty of Pharmacy Science, Kobegakuin University |
| In immunosuppressive agent, integrated assessment of the human and of toxicity test PK / PD measurement | Hiroyoshi Saito(1), Michiko Sakamoto(2), Akihiko Morishita(2), Yasuyuki Ito(3), Shinko Hata(2) | (1)Hyogo Pet Medical Center Higashinada, (2)Ig-M., Ltd., (3)National Center of Neurology and Psychiatry |
| Luncheon Seminar 1 (Envigo Co., Ltd.) | | |
| Key considerations in the safety evaluation of drugs targeting immune checkpoints | Lee Coney | Envigo CRS Limited |
| LS-01 | | |
| Luncheon Seminar 2 (Charles River Laboratories Japan, Inc.) | | |

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| Examples of novel approaches of assessing preclinical immunotoxicity including antibody-drug conjugates using flow cytometry | Vanessa L. Peachee | Director, Immunotoxicology, Charles River Laboratories Ashland, LLC |
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