

Annual Meeting

The 22nd Annual Meeting of JSIT

Special Lecture		
The Influence of Early Immune Signaling and the Microbiome on Immunomodulatory Responses following Exposure to the Antimicrobial Triclosan	Stacey E. Anderson, Jennifer Franko, Ewa Lukomska, B. Jean Meade, Carrie Long, Nikki B. Marshall	NIOSH, Morgantown, WV, U.S.A.
Master's Lecture 1		
Stress Signaling and Disease	Hidenori Ichijo	Laboratory of Cell Signaling, Graduate School of Pharmaceutical Sciences, U. Tokyo
Master's Lecture 2		
Airborne fine particles and allergic rhinitis: Elucidation of allergic rhinitis exacerbation mechanism and the development of therapeutic techniques using mouse model of allergic rhinitis	Tomohiro Yoshimoto(1,2)	(1) Department of Immunology, (2) Laboratory of Allergic Diseases, Institute for Advanced Medical Sciences, Hyogo College of Medicine
Symposium "Toxic'effect to'disrupting'effect"		
Organizer Hirohisa Takano (Kyoto University) Takamichi Ichinose (Oita University of Nursing and Health Sciences) Kyoko Itoh (Kyoto Prefectural University of Medicine)		
Aggravating effects of Asian sand dust and PM2.5 on lung inflammation and allergic inflammation	Takamichi Ichinose(1), Miao He(2), Kanae Bekki(3), Yasuhiro Yoshida(4), Cuiying He(4), Seiichi Yoshida(1), Kaori Sadakane(1), Hirohisa Takano(5)	(1)Department of Health Sciences, Oita University of Nursing and Health Sciences., (2)Department of Environmental and Occupational Health, College of Public Health, China Medical University., (3)Department of Environmental Health, National Institute of Public Health. , (4)Department of Immunology and Parasitology, School of Medicine, University of Occupational and Environmental Health., (5)Department of Environmental Engineering, Environmental Health Division, Graduate School of

		Engineering, Kyoto University
Environmental chemical-induced inflammatory response and disruption of immune cell function	Eiko Koike	Center for Environmental Health Sciences, National Institute for Environmental Studies
Impact of exposure to environmental chemicals on obesity and obesity-related metabolic disorders	Rie Yanagisawa	Center for Environmental Health Sciences, Biological Impact Research Section
Effects of prenatal and lactational exposure to low-doses of bisphenol A on murine brain development	Kyoko Itoh, Shinji Fushiki	Department of Pathology and Applied Neurobiology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine
Reproductive and endocrine disruption induced by environmental chemicals	Taisen Iguchi	Okazaki Institute for Integrative Bioscience, National Institute for Basic Biology, National Institutes of Natural Sciences
Workshop: 「Immunotoxicity testing Q and A」		
Organizer Shigeru Hisada (Research and Development Division, ASKA Pharmaceutical Co., Ltd.) Tadashi Kosaka (Study Management Division, The Institute of Environmental Toxicology)		
Current status of flow cytometry measurement at clinical laboratories -To think about non-clinical measurement items-	Atsushi Momobayashi	Molecular Genetic Analysis Department, LSI Medience Corporation
Immunologic tests and evaluation of the risk for chemical-induced autoimmunity induced by chemicals in human	Minoru Satoh	Department of Clinical Nursing, School of Health Sciences, University of Occupational and Environmental Health
A case of evaluation of the immunotoxicity data having wide variations such as the production of antibody	Takumi Ohishi(1), Junichiro Sugimoto(2), Akira Okamoto(2), Ryo Ando(1), Kenichi Fujisawa(1), Hidekazu Houri(1), Yuya Yasuda(1), Masahiro Mochizuki(1), Ken Goto(1)	(1) Gotemba Laboratory, (2) Kannami Laboratory, BoZo Research Center Inc.
Appropriate trial Plan and analysis method for TDAR	Satoru Fukinbara(1,2), Osamu Komiyama(1,3), Hideki Suganami(1,4), Satoru Tsuchiya(1,5)	(1) Data Science Expert Committee, Drug Evaluation Committee, JPMA, (2) Data Science Development Headquarters, Ono Pharmaceutical Co., LTD., (3) Statistics and Clinical Programming, Development

		Japan, Pfizer Japan Inc., (4) Data Science Dept., Kowa Co., Ltd., (5) S Biostatistics group, Data science, Sumitomo Dainippon Pharma, Co., Ltd.
Award Lecture: The 6th JSIT Award (for Distinguished Contribution)		
Effects of genetic polymorphisms on anti-cancer drug-induced myelotoxicity	Jun-ichi Sawada	Pharmaceuticals and Medical Devices Agency
Award Lecutre: The 6th Research Award		
The underlying mechanisms of particulate-induced immune responses and inflammations - Particulate adjuvant and immunotoxicity-	Etsushi Kuroda(1), Ken J Ishii(1,2)	(1) Laboratory of Vaccine Science, WPI Immunology Frontier Research Center, Osaka University, (2) Laboratory of Adjuvant Innovation, National Institute of Biomedical Innovation, Health and Nutrition
Impact of environmental pollutants on lifestyle related diseases -from the point of view of immunotoxicology-	Rie Yanagisawa	Center for Environmental Health Sciences, Biological Impact Research Section
Oral Presentations		
Effects of carbamate pesticides on natural killer (NK) activity	Qing Li, Maiko Kobayashi, Tomoyuki Kawada	Department of Hygiene and Public Health, Nippon Medical School
Analysis for mechanism of effect of asbestos exposure on CTL function	Naoko Kunagai-Takei(1), Yasumitsu Nishimura(1), Hidenori Matsuzaki(1), Suni Lee(1), Kei Yoshitome(1), Hiroaki Hayashi(2), Takemi Otsuki(1),	(1) Department of Hygiene, (2) Department of Dermatology, Kawasaki Medical School
Vacuole formation and cell death of monocytes exposed to titanate nanosheet	Yasumitsu Nishimura(1), Daisuke Yoshioka(2), Suni Lee(1), Naoko Kumagai-Takei(1) Hidenori Matsuzaki(1), Kei Yoshitome(1), Takemi Otsuki(1)	(1(Department of Hygiene, (2) Department of Natural Sciences, Kawasaki Medical School
Particulates induce unique lung immune responses and promote tertiary lymphoid organs in the lung	Etsushi Kuroda(1), Ken J Ishii(1,2)	(1) Laboratory of Vaccine Science, WPI Immunology Frontier Research Center, Osaka University, (2) Laboratory of Adjuvant Innovation, National Institute of Biomedical Innovation, Health and Nutrition

Effects of biological and chemical factors adhered to Asian sand dust particles on respiratory and immune system	Akiko Honda(1), Takahiro Sawahara(1), Tomohiro Hayashi(1), Kenshi Tsuji(1), Wataru Fukushima(1), Mizuki Oishi(1), Gaku Kitamura(1), Hitomi Kudo(1), Sho Ito(1), Seiichi Yoshida(2), Takamichi Ichinose(2), Kayo Ueda(1), Hirohisa Takano(1)	(1) Department of Environmental Engineering, Environmental Health Division, Graduate School of Engineering, Kyoto University, (2) Department of Health Sciences, Oita University of Nursing and Health Sciences.
Effects of aging, radiation, and genetic background on intracellular ROS levels in atomic-bomb survivors and mice	Tomonori Hayashi(1), Kengo Yoshida(1), Yukari Morishita(1), Hiroko Nagamura(1), Keiko Sasaki(1), Mayumi Maki(1), Keiko Furudo(1), Ikue Hayashi(2), Seishi Kyoizumi(1), Yoichiro Kusunoki(1)	(1) Department of Radiobiology/Molecular Epidemiology, Radiation Effects Research Foundation, (2) Hiroshima University Faculty of Dentistry, Hiroshima
Gene expression of inflammatory cytokines and chemokines in spleen macrophages derived from Zn-deficient and Zn-excess rats	Kido Takamsa(1), Takumi Shota(1,2), Yogosawa Shingo(1), Suga Machi(1), Yanagisawa Hiroyuki(1)	(1) Department of Public Health and Environmental Medicine, Jikei University School of Medicine, (2) Department of Domestic Science, Kagoshima Women's College
Effects of biochanin A on interleukin-17 gene expression through STAT3 activation	Hiroyuki Kojima(1), Ryuta Muromoto(2), Miki Takahashi(2), Toru Hirao(2), Tadashi Matsuda(2)	(1) Department of Food Sciences, Hokkaido Institute of Public Health, (2) Graduate School of Pharmaceutical Sciences, Hokkaido University
Association of a HLA type with statin-related Japanese myopathy patients	Kimie Sai(1), Koji Kajinami(2), Hiroyoshi Akao(2), Takuya Imatoh(1), Yumiko Matsuzawa(1), Keiko Maekawa(1), Japan PGx Data Science Consortium(3), Yoshiro Saito(1)	(1) National Institute of Health Sciences, (2) Kanazawa Medical University, (3) JPDSC
Skin sensitization model by quantitative structure-activity relationships (QSAR) based on EC3 value	Kazuhiro Sato(1), Kohtaro Yuta(2), Jose Martin Ciloy(3), Yukinori Kusaka(1)	(1) Department of Environmental Health, School of Medicine, University of Fukui, (2) In Silico data Co Ltd., (3) Fujitsu Kyushu Systems Limited (FJQS)
Effects of functional changes in lysosomes on intracellular behavior of LC3 in J774.1 cells	Seishiro Hirano(1), Sanae Kanno(2)	(1) Center for Environmental Risk Research, Natl. Inst. Environ. Studies, (2) St.

		Marianna Univ. School of Medicine
Students and Young Scientists Session (Oral and Poster Presentations)		
Effects of food components on airway inflammation induced by diesel exhaust particles	Sho Ito, Takahiro Sawahara, Tomohiro Hayashi, Wataru Fukushima, Gaku Kitamura, Hitomi Kudo, Akiko Honda, Kayo Ueda, Hirohisa Takano	Department of Environmental Engineering, Environmental Health Division, Graduate School of Engineering, Kyoto University
Thymic stromal lymphopoietin is induced by protein and chemical allergens in cultured human keratinocytes	Yasutaka Kuroda(1,2), Takuo Yuki(1), Yutaka Takahashi(1), Hitoshi Sakagushi(1), Hiroshi Itagaki(2)	(1) Safety Science Research Laboratories, Kao Corporation, (2) Department of Material Science and Engineering, Faculty of Engineering, Yokohama National University
Application of Hydroxypropyl- β -cyclodextrin, a small compound as a potent DAMPs inducer, for mucosal adjuvant	Takato Kusakabe(1,2), Etsushi Kuroda(2), Ken J Ishii(1,2)	(1) Laboratory of Adjuvant Innovation, National Institute of Biomedical Innovation, Health and Nutrition (NIBIOHN), (2) Laboratory of Vaccine Science, Immunology Frontier Research Center (IFReC), Osaka University
Poster Presentations		
Analysis of plasma immunoglobulin and BAFF (B cell activating factor belonging to the tumor necrosis factor family) in non-autoimmune disease onset silicosis patients	Suni Lee, Yasumitsu Nishimura, Shoko Yamamoto, Tamayo Hatayama, Hidenori Matsuzaki, Naoko Kumagai-Takei, Takemi Otsuki	Kawasaki Medical School, Dept. Hygiene
Effect of long-term exposure of asbestos on transcription factor FoxP3	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
Acetaminophen affect the various gene expressions in murine testis, with special reference to immune disruptive effect	Hayato Terayama(1), Hitoshi Endo(2), Teruhisa Kanazawa(1), Masayuki Tatemichi(2), Kou Sakabe(1)	(1) Department of Anatomy, (2) Department of Community Health, Tokai University School of Medicine
Synergistic augmentation of ATP-induced interleukin-6 production by arsenite in HaCaT cells	Daigo Sumi, Hitomi Fujishiro, Masashi Asao, Hideta Okada, Kuniko	Faculty of Pharmaceutical Sciences, Tokushima Bunri University

	Yogi, Hideki Miyataka, Seiichiro Himeno	
Electron microscopic observation of a novel cytoplasmic rods and rings structure recognized by autoantibodies from patients with chronic hepatitis C viral infection treated with ribavirin.	Tamiji Nakashima(1), Shin Tanaka(1), Minoru Satoh(2)	(1) Department of Human, Information and Life Sciences, (2) Department of Clinical Nursing, School of Health Sciences, University of Occupational and Environmental Health
Studies on improving drug tolerance in assay for anti-drug antibody against biopharmaceuticals	Kazuko Nishimura, Akiko Ishii-Watabe	Division of Biological Chemistry and Biologicals, National Institute of Health Sciences
Characterization of basic immunoreactivity in Göttingen miniature pigs	Hideki Harada, Yui Akagawa, Kazumori Endo, Yusuke Tamukai, Daisuke Minami, Hiroyuki Ishii, Yasuyuki Onishi, Hideaki Hiratsuka	Safety Assessment Department, Group C, Nonclinical Research Center, Drug Development Service Segment, LSI Medience Corporation
Evaluation of immunotoxicological effect used for lymphocyte subset examination along with TDAR assay	Junichiro Sugimoto(1), Akira Okamuro(1), Ryo Ando(2), Kenichi Fujisawai(2), Hidekazu Hourai(2), Yuya Yasuda(2), Ken Goto(2), Masahiro Mochizuki(2), Takumi Ohishi(1)	(1) Kannami Laboratory, (2) Gotemba Laboratory, BoZo Research Center Inc
Establishment for a next generation safety evaluating method for influenza vaccine and adjuvants using humanized mouse model	Eita Sasaki(1), Takuo Mizukami(1), Haruka Momose(1), Kazunari Kamachi(2), Hiroshi Yamada(3), Ken J Ishi(4,5), Isao Hamaguchi(1)	(1) Department of Safety Research on Blood and Biologicals products,, (2) Department of Bacteriology II, Institute of Infectious Diseases, (3) National Institutes of Biomedical Innovation, Health and Nutrition. Toxicogenomics and Informatics Project, (4) National Institutes of Biomedical Innovation, Health and Nutrition. Laboratory of Adjuvant Innovation, (5) Laboratory of Vaccine Science, Immunology Frontier Research center, Osaka University.
IgE crosslinking-induced luciferase expression (EXiLE)-based analysis of IgE epitopes of model allergen	Ryosuke Nakamura(1), Yoshimi Okamoto-Uchida(1), Yumiko Matsuzawa(1), Akiko Ishii(2), Yoshiro Saito(1)	(1) Division of Medicinal Safety Science, (2) Division of Biological Chemistry and Biologicals, National Institute of Health Sciences
Investigation of allergy inducing potential of	Kunihiko Yamashita(1,3), Shinsuke Shinoda(2),	(1) Corporate Research Center, Daicel Corporation, (2) Yoshimi Laboratories,

benzalkonium chloride using LLNA:DAE method	Saori Hagiwara(2), Hiroshi Itagaki(3)	Drug Safety Testing Center Co., Ltd., (3) Faculty of Engineering, Dept. of Materials Science and Engineering, Yokohama National University
Impact of exposure to immunosuppressive chemicals on the next-generation respiratory allergy	Risako Nishino, Tomoki Fukuyama, Yuko Watanabe, Hideo Ueda, Tadashi Kosaka, Takanori Harada	The Institute of Environmental Toxicology
Experimental analyses of the effects of negatively-charged air-condition on human immune cells	Takemi Otsuki(1), Yasumitsu Nishimura(1), Megumi Maeda(2), Naoko Kumagai-Takei(1), Suni Lee(1), Hidenori Matsuzaki(1), Kei Yoshitome(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
Luncheon Seminar 1		
Pharmacodynamic and In Vitro Functional Immunoassays in Support of Preclinical and Clinical Oncology Biopharmaceutical Programs	Christina Satterwhite(1) , Marie-Soleil Piché(2)	(1)Director, Laboratory Sciences, Charles River, (2)Scientific Director, Immunology, Charles River
The latest requirement for animal housing in the EU	Hiroyuki Minami(1) , Sachihiko Okubo(2)	(1)Manager, Discovery & Safety Assessment Sales, Charles River, (2)Sales Specialist, Discovery & Safety Assessment Sales, Charles River
Luncheon Seminar 2		
Immunological Aspects of Immunogenicity	Gregory Bannish	Huntingdon Life Sciences