

Annual Meeting

The 14th Annual Meeting of JSIT

September 20-21, 2007, Kobe, Japan

President: Shin Yoshino (Kobe Pharmaceutical University)

Special Lecture

Prediction of Hepatotoxicity using Toxicogenomics Project Database (TG-GATES)	Tetsuro Urushidani	Department of Pathophysiology, Faculty of Pharmaceutical Sciences, Doshisha Women's College of Liberal Arts, Kyotanabe, Kyoto, Japan / Toxicogenomics/Informatics Project, National Institute of Biomedical Innovation, Ibaraki, Osaka, Japan
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Invited Lecture 1

Mast cells and KIT receptor tyrosine kinases	Yunihiko Kitamura	Developmental Research Laboratories, Shionogi Co. Ltd.
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Invited Lecture 2

Drug Induced Allergy	Edith Sim	Department of Pharmacology, University of Oxford, UK.
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Symposium

Developmental Immunotoxicology	Organizer Kazuichi Nakamura	Shionogi Co. Ltd.
	Kenneth L. Hastings	FDA, USA

Molecular mechanism of specific immune system on maternal decidua	Orie Nakamura	Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan
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Ontogeny and Post-Natal development of the rodent immune system	Hayssam Khali	Charles River Laboratories, Preclinical Services, Immunology (CANADA)
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Immune system development in the primate	Gerhard F. Weinbauer	Werner Frings, Antje Fuchs, Eberhard Buse, Covance Laboratories GmbH
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Developmental Immunotoxicity and Critical Windows of Exposure for Children's Health	Rodney R. Dietert	Department of Microbiology and Immunology, Cornell University, Ithaca, NY 14883 and Director of Developmental Immunotoxicology, Bureson Research Technologies, Morrisville, NC
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Regulatory Concerns for Developmental Immunotoxicology	Kenneth L. Hastings	FDA, USA
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Workshop

Issues and Measures of Immunotoxicological Assessment	Organizer Jun-ichi Sawada Eiji Maki	National Institute of Health Sciences BiosafetyResearchCenter, Foods, Drugs and Pesticides
Pathological considerations of immune system in non-human primates	Hiroshi Maeda	TokyoPathologyCenter, Shin Nippon Biomedical Laboratories, Ltd., Tokyo, Japan
Introduction and notes of immune function tests in monkeys	Takayuki Okamura, Hideki Harada, Yasuyuki Ohnishi	Safety Assessment Division I, Kashima Laboratory, Mitsubishi Chemical Safety Institute Ltd., Kashima, Japan
Preclinical Safety Assessment Issues in the Development Process of TGN1412	Kiyoshi Kobayashi	Amgen K.K., Tokyo, Japan
Points to consider for safety evaluation of monoclonal antibody pharmaceuticals	Tomoaki Inoue	Safety Assessment Dept., Fuji Gotemba Research Labs., Chugai Pharmaceutical Co., Ltd., Japan

General Session (Oral Presentation)

Evaluation of immunostimulation by drugs using mouse popliteal lymph node response to reporter antigens	Shiho Ito (1), Tetsuo Aida (1), Gutting Bradford Wesley (2), Ryota Kawai (1), Tadashi Furukawa (1)	(1) Medicinal Safety Research Laboratories, Daiichi Sankyo Co. Ltd., Shizuoka, Japan, (2) Naval Surface Warfare Center, Dahlgren, VA, USA
The role of T lymphocytes in toluene-induced increased memory-related gene expressions in the hippocampus of mice	Tin Tin Win Shwe, Shoji Yamamoto, Hidekazu Fujimaki	ResearchCenter for Environmental Risk, National Institute for Environmental Studies, Tsukuba, Japan
Lifestyle affects human NKT cells	Qing Li (1), Kanehisa Morimoto (2), Tomoyuki Kawada (1)	(1) Department of Hygiene and Public Health, Nippon Medical School, Tokyo, Japan, (2) Department of Social and Environmental Medicine, Osaka University Graduate School of Medicine, Osaka, Japan
The effects of fluoride on cytokine productions of splenocytes in the rats after administration for two month in the drinking water	Masashi Tsunoda (1), Sachiko Kimura (1,2), Masayoshi Tsuji (1,3), Ying Zhang (1), Chiemi Sugaya (1), Yoko Inoue (1), Yuichiro Kudo (1), Toshihiko Satoh (1), Hiroshi Katagiri (4), Kazuyoshi Itai (5), Yoshiko Sugita-Konishi (6), Yoshiharu Aizawa (1)	(1) Department of Preventive Medicine and Public Health, Kitasato University School of Medicine, Sagamihara, Japan, (2) Kanagawa Prefecture Ken-o Livestock Hygiene Station, Atsugi, Japan, (3) Mejiro University College, Tokyo, Japan, (4) Department of Public Health, Kitasato University School of Allied Health Sciences, Sagamihara, Japan, (5) Department of Preventive Medicine and Public Health, Iwate Medical University School of Medicine,

		Morioka, Japan, (6) Division of Microbiology, National Institute of Health Sciences, Tokyo, Japan
CYP1A localization in immune cells of rainbow trout exposed to benzo(a)pyrene	Segner Helmut (1,4), Ayako Nakayama (1), Ivan Riesen (1), Elisabeth Eppler (2), Bernd Koellner (3), Kawai Shin'ichiro (4)	(1) Centre for Fish and Wildlife Health, University of Berne, Switzerland, (2) University of Zurich, Switzerland, (3) Friedrich-Loeffler Institute, Insel Riems, Germany, (4) Kobe College, Japan
Gene expression analysis of murine lungs following pulmonary exposure to diesel exhaust particles in the absence or presence of allergen.	Rie Yanagisawa (1), Hirohisa Takano (1), Katsura Mizushima (2), Ken-ichiro Inoue (3), Kaori Sadakane (3), Toshikazu Yoshikawa (2)	(1) National Institute for Environmental Studies, Tsukuba, Japan, (2) Kyoto Prefectural University of Medicine, Kyoto, Japan, (3) Oita University of Nursing and Health Sciences, Oita, Japan
Effect of perinatal exposure of maternal rats to brominated flame retardant HBCD on the developing immune system of the offspring	Ryosuke Nakamura (1,2), Reiko Teshima (1), Akiko Hachisuka (1), Rika Nakamura (1), Jun-ichi Sawada (1), Makoto Shibutani (2)	(1) Div. Biochem. Immunochem., Natl. Inst. Health Sci., Tokyo, Japan, (2) Lab. Verter. Pathol., Tokyo Univ. Agr. Tech., Tokyo, Japan
Effects of in utero through lactational exposure of ethynylestradiol on immune system in F1 mice	Hideki Miyaura, Masahiro Takeyoshi	Chemicals Assessment Center, Chemicals Evaluation and Research Institute, Japan, Saitama, Japan
Immunization regimen for the evaluation of SRBC-specific IgG antibody response in a 14 days dosing period in rats	Motoko Fukui, Suiji Shibata, Shigeru Hisada	Safety Research Department, ASKA Pharmaceutical Co., Ltd., Kanagawa, Japan
Production of anti-inflammatory cytokines, IL-10 and TGF- β 1, in human polyclonal T cell line exposed to asbestos	Megumi Maeda (1), Yoshie Miura (2), Yasumitsu Nishimura (1), Shuko Murakami (1), Hiroaki Hayashi (1), Takashi Nakano (3), Takemi Otsuki (1)	(1) Department of Hygiene, Kawasaki Medical School, Kurashiki, Okayama, Japan, (2) Eppley Institute for Cancer Research, University of Nebraska Medical Center, Omaha, USA, (3) Department of Respiratory Medicine, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan
Effect of laughter on salivary endocrinological stress marker chromogranin A	Masahiro Toda, Kanehisa Morimoto	Department of Social and Environmental Medicine, Osaka University Graduate School of Medicine, Osaka, Japan
Influence of solvents on skin sensitization assay of metals with LLNA method	Tomoki Fukuyama, Hideo Ueda, Koichi Hayashi, Yukari Tajima, Atsuko Haishima, Hideaki Fujie, Yutaka Hayashi, Yasufumi Shutoh, Tadashi	The Institute of Environmental Toxicology Division

	Kosaka, Takanori Harada	
Synergistic effects of nanoparticles on respiratory pathological conditions	Kenichiro Inoue (1), Hirohisa Takano (1,2), Rie Yanagisawa (1), Miho Sakurai (1), Takamichi Ichinose (3), Kaori Sadakane (3), Toshikazu Yoshikawa (2)	(1) Environmental Health Sciences Division, National Institute for Environmental Studies, (2) Inflammation and Immunology, Kyoto Prefectural University of Medicine, (3) Department of Health Science, Oita University of Nursing and Health Science
Effects of indomethacin administered during late-gestation on the cytokine production in rat pups	Kiyoshi Kushima, Keiko Oda, Shozo Sakuma, Michio Fujiwara	Drug Safety Research Laboratories, Astellas Pharma, Osaka, Japan
An attempt to detect chemical allergic reactions using a mouse model	Tomoki Fukuyama, Yukari Tajima, Hideo Ueda, Koichi Hayashi, Atsuko Haishima, Hideaki Fujie, Yutaka Hayashi, Yasufumi Shutoh, Tadashi Kosaka, Takanori Harada	The Institute of Environmental Toxicology Division
Murine Food Allergy Model with Oral Sensitization and Oral Challenge (6)	Tomoko Shindo (1), Nami Furuya (1), Yoshiyuki Tazura (1), KOhichi Kojima (1), reiko Teshima (2)	(1) Hatano Research Institute, Food and Drug Safety Center, Kanagawa, Japan, (2) National Institute of Health Sciences, Tokyo, Japan
Changes in salivary physiological stress markers associated with winning and losing	Masako Hasegawa, Masahiro Toda, Kanehisa Morimoto	Department of Social and Environmental Medicine, OsakaUniversityGraduateSchool of Medicine, Osaka, Japan
Circadian rhythm of salivary chromogranin A and stress response in male university students	Rei Den, Masahiro Toda, Kanehisa Morimoto	The Department of Social and Environmental Medicine, OsakaUniversityGraduteSchool of Medicine, Osaka, Japan
The analysis for signal transduction in the human NK cell line exposed to asbestos and cytotoxicity of NK cells from patients with mesothelioma	Yasumitsu Nishimura (1), Megumi Maeda (1), Shuko Murakami (1), Hiroaki Hayashi (1), Yoshie Miura (2), Kazuya Fukuoka (3), Takashi Nakano (3), Takemi Otsuki (1)	(1) Dept. of Hygiene, Kawasaki Medical School, Kurashiki, Japan, (2) Eppley Institute for Cancer Research, Univ. of Nebraska Medical Center, Omaha, NE, USA, (3) Dept. of Respiratory Medicine, Hyogo College of Medicine, Nishinomiya, Japan
Influence of Restraint stress on immune system in mice	Koichi Hayashi (1), Tadashi Kosaka (1), Tomoki Fukuyama (1), Yukari Tajima (1), Hideo Ueda (1), Satoru Yamaguchi (1), Makio Takeda (1), sayuri Kojima	(1) The Institute of Environmental Toxicology,(2) Itoh Kanpo Pharmaceutical Co., Ltd

	(1), Yasufumi Shutoh (1), Toshiaki Kitazawa (1), Shinichi Maki (1), Syuichiro Kimura (2), Takanori Harada (1)	
Analysis of cadmium-induced cytokine profiles by the antibody microarray of cytokines	Motoyasu Ohsawa, Kazuko Takahashi	Department of Health Sciences, Faculty of Pharmaceutical Sciences, TeikyoUniversity, Sagamihara, Japan
Enhancement of IgE-dependent allergic reactions in vivo and degranulation of mast cells in vitro by butylated hydroxytoluene (BHT)	Kouya Yamaki, Shin Yoshino	Department of Pharmacology, KobePharmaceuticalUniversity, Kobe, Japan
General Session (Poster Presentation)		
Immunotoxicity evaluation of methotrexate in rats by intermittent dosing for two weeks	Ryota Kawai, Tetsuo Aida, Shiho Ito, satomi Komatsu, Shinya Sehata, atsuko Muramatsu, Tadashi Furukawa, Sunao Manabe	Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.
Effects of airway exposure to diesel exhaust particles on atopic mice	Kenichiro Inoue (1), Hirohisa Takano (1,4),Rie Yanagisawa (1), Takamichi Ichinose (2,) Akinori Shimada (3), Toshikazu Yoshikawa (4)	(1) National Institute for Environmental Studies, (2) OitaUniversity of Nursing and Health Science, (3) University of Tottori, (4) Kyoto Prefectural University of Medicine
Cytokine productions of various cell types by nanomaterials in comparison with asbestos	Kazuhiko Takahara (1), Takefumi Ikeda (1), Kohei Mizuno (2), Kunio Uchida (2), Kazuhiro Yamamoto (2), Hajime Kawasaki (2), Kayo Inaba (1)	(1) Lab. of Immunobiol., Dep. of Animal Development and Physiol., Grad. Sch. of Biostudies, Kyoto University., (2) Advance Industrial Science and Technology
Effect of prenatal and postnatal exposure to low-level toluene and peptidoglycan on systemic Th1/Th2 immunity in infant mice	Shoji Yamamoto, Atsushi Fukushima, Tin Tin Win Shwe, Rieko Hojo, Hidekazu Fujimaki	ResearchCenter for Environmental Risk, National Institute for Environmental Studies, Tsukuba, Japan
Effect of exposure to carbon black nanoparticles on the maturation and the accessory activity of mouse bone marrow-derived dendritic cells	Eiko Koike(1), Hirohisa Takano (1), Ken-Ichiro Inoue (1), Rie Yanagisawa (1), Takahiro Kobayashi (2)	(1) Environmental Health Sciences Division, National Institute for Environmental Studies, Tsukuba, Japan, (2) Integrated Research Institute, Tokyo Institute of Technology, Yokohama, Japan
Effects of titanium dioxide (TiO ₂) nanoparticles on atopic	Tomoko Kamachi (1,2), Hirohisa	(1) Graduate Shool of Environmental Sciences,

dermatitis-like skin disorders	Takano (2,4), Rie Yanagisawa (2), Kenichiro Inoue (2), Eiko Koike (2), Takamichi Ichinose (3), Kaori Sadakane (3), Toshikazu Yoshikawa (4)	University of Tsukuba, Tsukuba, Japan, (2) National Institute for Environmental Studies, Tsukuba, Japan, (3) Oita University of Nursing and Health Sciences, Oita, Japan, (4) Kyoto Prefectural University of Medicine, Kyoto, Japan
Gene expression analysis for hyperglycemia induced by glucocorticoids	Takako Hamano, Toshinobu Shimizu, Naohisa Tsutsui	Toxicology Laboratory, Mitsubishi Pharma Corporation, Chiba, Japan
Cross-talk between the nervous and immune systems through calcitonin gene-related peptide	Kazutake Tsujikawa, Yusuke Ogitani, Ippei Otani, Emi Hirayama, Keiko Watanabe, Hiroshi Yamamoto	Department of Immunology, Graduate School of Pharmaceutical Sciences, Osaka University
Immixture of chronically activated T cells and surface Fas expression in peripheral CD4+25+ T cell fraction in silicosis patients. HAYASHI HIROAKI1,	Hiroaki Hayashi (1), Yoshie Miura (2), Megumi Maeda (1), Shuko Murakami (1), Yasumitsu Nishimura (1), Masayasu Kusaka (3), Takemi Otsuki (1)	(1) Department of Hygiene, Kawasaki Medical School, Kurasaki, Japan, (2) Eppley Institute for Cancer Research, University of Nebraska Medical Center, Omaha, U.S.A, (3) Kusaka Hospital, Bizen, Japan
Effects of exposure to electromagnetic fields on genotoxicity in rat astrocytes - application for immunotoxicity-	Yuichi Miyakoshi, Hidesuke Shimizu, Hiroyuki Yanagisawa	Department of public health and environmental medicine, The Jikei University school of medicine, Tokyo, Japan
The effect of plant oil on oral sensitization of food allergen, ovomucoid in mice	Reiko Teshima, Haruyo Okunuki, Ryosuke Nakamura, Yuji Sato, Hiroshi Akiyama, Jun-Ichi Sawada	National Institute of Health Sciences
Study for evaluation of phototoxicity by oral administration in BALB/c mice	Shinji Utsunomiya, Yoshihiro Takahashi, Yasuhiro Tanaka, Kaori Kumano, Takahiro Nakamura, Hiroyuki Izumi, Hiroshi Tokado	Drug Safety Research Laboratories, Shin Nippon Biomedical Laboratories, Ltd., Kagoshima, Japan
Analysis of Mechanism on Organotin-Induced Cell Death of T-Lymphocytes in a sight of the difference in its chemical structure	Ken-Ichi Tomiyama, Takao Kuriyama, Akiko Yamaguchi, Yurie Sayama, Yoko Echizenya, Megumi Nakata, Nami Watanabe, Yasuaki Arakawa	Department of Hygiene & Preventive Medicine, Faculty of Health Sciences, The University of Shizuoka, Shizuoka 422-8526, Japan
Induction of Interleukin-6 and metallothionein by metal compounds	Seiichiro Himeno (1), Hitomi Fujishiro (1), Jiaming Yu (1), Kazuo Kobayashi (2), Tatsuya	(1) Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Tokushima, Japan, (2) Kissei Pharmaceutical Co., Ltd., Nagano, Japan, (3)

	Hasegawa (3), Yoshiyuki Seko (3)	Yamanashi Institute of Environmental Sciences, Yamanashi, Japan
Induction of autoimmune arthritis in mice induced by anti-type II collagen monoclonal antibodies	Takayuki Saito, Kouya Yamaki, Shin Yoshino	Department of Pharmacology, KobePharmaceuticalUniversity, Hyogo, Japan
Luncheon Seminar 1		
Applications for cell based assays in biopharmaceutical development - from batch release & stability to assessment of neutralising antibodies	Wing Mark	Huntingdon Life Sciences Ltd., Immunology and Cell Biology
Luncheon Seminar 2		
ImmunoToxicogenomics - Potential for the use of immunogenomics in preclinical toxicity assessment of pharmaceuticals	Jacob Lawrence	Charles River Laboratories Preclinical Services Edinburgh, Edinburgh, Scotland, UK