

Annual Meeting

The 13th Annual Meeting of JSIT

September 14-15, 2006, Kurashiki, Japan

Keynote Lecture

Pathophysiological development and immunotoxicology: what we have found from research related to silica and silicate such as asbestos	Takemi Otsuki	Department of Hygiene, Kawasaki Medical School
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Special Lecture 1

Immunotoxicology of Beryllium lung disease	Lee S. Newman	University of Colorado at Denver and Health Services Center, USA
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Special Lecture 2

Models and mechanisms of chemical respiratory allergy: Not all allergens are equal	Jean F. Regal (1), Amy L. Greene (1), Ronald R. Regal (2), Mark Rutherford (3)	(1) Biochemistry & Molecular Biology, University of Minnesota Medical School, Duluth, MN, USA, (2) Mathematics & Statistics, University of Minnesota, Duluth, MN, USA, (3) Veterinary & Biomedical Sciences, University of Minnesota, St. Paul, MN, USA
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Special Lecture 3

Interaction between therapeutics and the immune system: Case studies	Khalil Hayssam	Department of Immunology, Charles River Laboratories Preclinical Services, Montreal, Canada
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Invited Lecture 1

Inflammation and environmental factors	Hiroyuki Takano	Environmental Health Sciences Division, National Institute for Environmental Studies, Tsukuba, Japan
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Invited Lecture 2

Sick house syndrome research 2006	Kou Sakabe	Department of Public Health and Molecular Toxicology, Kitasato University School of Pharmaceutical Sciences, Environmental Medical Center, The Kitasato Institute, Tokyo, Japan
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Symposium:

Fibrous and nanomaterials and immunotoxicological research	Organizer
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Seishiro Hirano	Environmental Health Sciences Division, National Institute for
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		Environmental Studies, Tsukuba, Japan
	Yasumitsu Nishimura	Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan
Factors in hazard evaluation of fibrous materials	Yasuo Morimoto	Department of Occupational Pneumology, Institute of Industrial Ecological Science, University of Occupational and Environmental Health, Kitakyushu, Japan
Functional alteration of natural killer Cells exposed to asbestos for a long period	Yasumitsu Nishimura (1), Yoshie Miura (2), Megumi Maeda (1), Hiroaki Hayashi (1), Takemi Otsuki (1)	(1) Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan, (2) Eppley Institute for Cancer Research, University of Nebraska Medical Center, Omaha, USA
Transport of nanoparticles through alveolo-capillary barrier	Akiko Furuyama, Sanae Kanno, Seishiro Hirano	Research Center for Environmental Risk, National Institute for Environmental Studies, Tsukuba, Japan
Nanoparticles as drug delivery system: Issues and perspectives	Masahiro Murakami	Faculty of Pharmacy, Osaka Ohtani University, Tondabayashi, Japan
Workshop		
A guideline to immunotoxicity studies of human pharmaceuticals	Organizer	
	Jun-ichi Sawada	Division of Biochemistry and Immunochemistry, The National Institute of Health Science, Tokyo, Japan
	Naohisa Tsutsui	Toxicology Laboratories, Pharmaceuticals Research Department, Mitsubishi Pharma Corporation, Chiba, Japan
ICH (International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use) S8 Immunotoxicity guideline	Jun-ichi Sawada	Division of Biochemistry and Immunochemistry, The National Institute of Health Science, Tokyo, Japan
Pathology of lymph nodes and Peyer's patches	Toshio Imai (1), Jiro Sonoda (2), Hiroshi Maeda (3), Shigeru Hisada (1)	(1) Division of Pathology, National Institute of Health Science, Tokyo, Japan, (2) Drug Safety Research Laboratories, Eisai Co., Ltd., Ibaragi, Japan, (3) Drug Safety Research Laboratories, Shin Nippon Biomedical Laboratories Co., Ltd., Tokyo, Japan, (4) Safety Research Department, ASKA

		Pharmaceutical Co., Ltd., Kanagawa, Japan
Interpretation of stress-related changes	Shigeru Hisada	Safety Research Department, ASKA Pharmaceutical Co., Ltd., Kawasaki, Japan
The Immunotoxicology inter-laboratory project (IILP): The Validation of a T cell-dependent antibody response (TDAR) using keyhole limpet hemocyanin (KLH) in rats	Andre H Penninks	TNO Quality of Life Product Manager, Experimental Immunology, AJ Zeist, The Netherlands), gave his lecture in the name of the IILP group of investigators
Q & A format lecture about the "Explanation of ICH S8 guideline	Osamu Fueki	Office of New Drug I, Pharmaceuticals and Medical Devices Agency, Tokyo, Japan
	Naohisa Tsutsui	Toxicology Laboratories, Pharmaceuticals Research Department, Mistubishi Pharma Corporation, Chiba, Japan
General Oral Presentation		
Comparison of the ELISA versus PFC assay for detection of T cell dependent antibody response in 6 strain rats	Ryota Kawai, Tetsuo Aida, Motoko Ajioka, Masae Yagi, Satomi Komatsu, Tutomu Kimura, Tadashi Furukawa, Sunao Manabe	edicinal Safety Research Laboratories, Sankyo Co., Ltd., Japan
Relationship between IL-6 and anti-oxidant proteins produced in rats, i.p. treated with carbon tetrachloride	Yosuke Ochiai, Kenich Onishi, Kenzaburo Yamadi, Toshiyuki Chikuma, Hiroshi Hojo	Department of Hygienic Chemistry, Showa Pharmaceutical University, Tokyo, Japan
Relation of chemical structure and induction activity of apoptosis in an organotin's sight	Kenichi Tomiyama, Akiko Yamaguchi, Yurie Sayama, takao Kuriyama, Yasuaki Arakawa	Department of Food and Nutritional Sciences, University of Shizuoka, Shizuoka, Japan
The differences between types of murine astrocyte cell lines for the toxic effects of dobutyl, octyl acid and poly-L-lactides	Masashi Tsunoda (1), Takayuki Haino (2), Kyoko Ito (1), Yoko Inoue (1), Takeo Miki (1), Yuichiro Kudo (1), Toshihiko Satoh (1), Yoshiharu Aizawa (1), Toshie Tsuchiya (3)	(1) Department of Preventive Medicine and Public Health, Kitasato University School of Medicine, Sagamihara, Japan, (2) Department of Obstetrics and Gynecology, Jikei University School of Medicine, Tokyo, Japan, (3) Division of Medical Devices, National Institute of Health Sciences, Tokyo, Japan
Methoxychlor induces thymic apoptosis in vivo in mice	Tomoki Fukuyama, Yukari Tajima, Koichi Hayashi, Atsuko Haishima, Hideaki Fujie,	Laboratory of Immunotoxicology and Acute Toxicology, Toxicology Division, The Institute of Environmental Toxicology, Ibaragi, Japan

	Tsutomu, Matsumoto, Yutaka Hayashi, Hideo Ueda, Yasufumi Shutoh, Tadashi Kosaka, Takanori Harada	
Analysis on Immune reaction in T-cell specific constotatively-active AhR mutant transgenic mice to clarify the role of activated AhR in T cells	Keiko Nohjara (1), Kana Ao (1), Yoshimi Miyamoto (1), Tomohiro Ito (1), Kaoru Inouye (1), Xiaoqing Pan (1), Hozumi Motohashi (2), Masayuki Yamamoto (2), Chiharu Tohyama (3)	(1) Environmental Health Sciences Division, National Institute for Environmental Studies, Tsukuba, Japan, (2) TARA Center, University of Tsukuba, (3) CDBIM, University of Tokyo
Screening of the novel anti-allergic peptide in milk protein	Takeaki Okamoto, Sayuri Ono, Yohsuke Minatogawa	Department of Biochemistry, Kawasaki Medical School, Okayama, Japan
Effects of antithyroids on the debeloping immune system of the rat	Ryosuke Nakamura (1), Reiko Teshima (1), Akiko Hachisuga (1), Kayoko Takagi (1), Gye-Hyeong Woo (2), Makoto Shibutani (2), Jun-ichi Sawada (1)	(1) Div. Biochem. Immunochem., (2) Div. Pathol., Natl. Inst. Health Sci., Tokyo, Japan
Effects of NSAIDs administered during late-gestation on the development of immune system in rat pups	Kiyoshi Kushima, Keiko Oda, Shozo Sakuma, Michio Fujiwara	Drug Safety Research Laboratories, Astellas Pharma, Osaka, Japan
In vitro screening for drug-induced anaphylactoid reaction	Takako Hamano, Taizou Tomari, Saori Okada, Naohisa Tsutsui	Toxicology Laboratory, Pharmaceutics Research Division, Mitsubishi Pharma Corporation, Japan
Murine food allergy model with oral sensitization and oral challenge (5)	Tomoko Shindo (1), Yukiko Kanazawa (1), Mami Furuya (1), Yoshiyuki Tazuru (1), Kohichi Kojima (1), Reiko Teshima (2)	(1) Hatano Research Institute, Food and Drug Safety Center, Kanagawa, Japan, (2) National Instoitute of Health Science, Tokyo, Japan
Suppression of IL-1-induced MCP-1 release by environmetal chemicals	Kunihiro Akimaru, Ryoji Hirota, Takeshi Nakamura, Da-Chuan Zhang, Hiroyuki Nakamura	Environmental Medicine, Kochi Medical School, University of Kochi, Nankoku, Japan

Analysis of pathological related gene expression on lymphocytes from patients with asbestos-induced diseases	Megumi Maeda (1), Yoshie Miura (1), Yasumitsu Nishimura (1), Hiroaki Hayashi (1), Maolong Dong (1), Ayuko Uesaka (2), Kozo Kuribayashi (2), Takashi Nakano (2), Takumi Kishimoto (3), Takemi Otsuki (1)	(1) Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan, (2) Department of Respiratory Medicine, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan, (3) Okayama Rosai Hospital, Okayama, Japan
Regulation of dendritic cell functions by neuropeptide CGRO via RAMP1/CL receptors	Kazutake Tsujikawa, Tomomi Shigeno, Yusuke Ohgitani, Emi Hirayama, So-Ichiro Fukuda, Hiroshi Yamamoto	Department of Immunology, Graduate School of Pharmaceutical Science, Osaka University, Osaka, Japan
Immunocharacterization of arsenite-induced human macrophages (As-Mp)	Teruaki Sakurai, Seiichiro Himeno	Laboratory of Molecular Nutrition and Toxicology, Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Tokushima, Japan
Inhibitory activities of squamous cell carcinoma antigens on extrinsic cysteine proteases	Yoko Tanaka (1), Sachiko Kanaji (1), Yasuhisa Sakata (1), Kiyonari Masumoto (1), Kohei Takeshita (1), Kazuhiko Arima (1), John P. Dalton (2), James H. McKerrow (3), Graham H. Coombs (4), Kenzi Izuhara (1)	(1) Division of Medical Biochemistry, Department of Biomolecular Sciences, Saga Medical School, Saga, Japan, (2) Institute for the Biotechnology of Infectious Diseases, University of Technology Sydney, Australia, (3) Sandler Center, UCSF, San Francisco, CA, USA, (4) Division of Infection and Immunology, Institute of Biomedical and Life Sciences, Wellcome Centre for Molecular Parasitology, Glasgow Biomedical Research Centre, University of Glasgow, UK
General Poster Presentation		
Anti-KHL IgG antibody response in rat for immunotoxicity evaluation	Koichi Hayashi, Tadashi Kosaka, Tomoki Fukuyama, Yukari Tajima, Hideo Ueda, Takanori Harada	The Institute of Environmental Toxicology, Ibaragi, Japan
Evaluation of skinsensitizing potential on chromated copper arsenate (CCA) used as a wood preservative	Hideo Ueda, Tomoki Fukuyama, Koichi Hayashi, Yukari Tajima, Hideaki Fujie, Yutaka Hayashi, Atuko Haishima, Yasufumi Shutoh,	Toxicology Division, The Institute of Environmental Toxicology, Ibaragi, Japan

	Tadashi Kosaka, Takanori Harada	
Changes in gene expression in the lungs of paraquat-intoxicated mouse model	Masafumi Tomita (1), Hironobu Katsuyama (2), Yasumitsu Nishimura (3), Yoshie Miura (3), Yoko Watanabe (4), Kazuo Hidaka (4), Takemi Otsuki (1)	(1) Department of Medical Toxicology, (2) Department of Public Health, (3) Department of Hygiene, (4) Department of Biochemistry, Kawasaki Medical School, Kurashiki, Japan
Analysis of dioxin-regulated genes in DN thymocytes using microarray	Tomohiko Ito, Keiko Nohara	Environmental Health Sciences Division, National Institute for Environmental Studies, Tsukuba, Japan
Effect of DBDE on the immune system in the developing postnatal rats	Reiko Teshima (1), Ryosuke Nakamura (1), Rika Nakamura (1), Akiko Hachisuka (1), Jun-Ichi Sawada (1), Makoto Shibutani (2)	(1) Division of Biochemistry and Immunochemistry, (2) Division of Pathology, National Institute of Health Science, Tokyo, Japan
Effects of dexamethasone on maternal and offspring immune system exposed during gestational or lactation period in rats	Motoyuki Kawai, Masafumi Nagata, Misa Yamai, Masahiro Hirashiba, Susumu Kanamori, Atsuko Hishikawa, Kazuichi Nakamura	Developmental research Laboratories, Shionogi & Co., Ltd., Osaka, Japan
Evaluation of sensitization potential of drugs using secondary popliteal lymph node assay	Akihiko Hisatomi, Kiyoshi Kushima, Shozo Sakuma, Michio Fujiwara	Drug Safety Research Laboratories, Astellas Pharma Inc., Osaka, Japan
Effect of butylhydroxytoluene on allergic reactions	Kouya Yamaki, Shin Yoshino	Department of Pharmacology, Kobe Pharmaceutical University, Kobe, Japan
Suppressive effects on hypersensitivity by dietary restriction in isocyanate sensitized mice	Nobuhiro Nishio (1), Katsuyasu Kouda (2), Hirao Kouno (3), Hiroyasu Ishihara (3), Harunobu Nakamura (4), Tastuya Takeshita (1)	(1) Department of Public Health, Wakayama Medical University, Wakayama, Japan, (2) Department of Public Health, Kinki University, Osaka, Japan, (3) Department of Hygiene, Kansai Medical University, Osaka, Japan, (4) Development Science, Kobe University, Hyogo, Japan
17beta-estradiol enhances IL-18 expression in mouse contact hypersensitivity	Fumitoshi Sakazaki, Masahiro Fujiyama, Hitoshi Ueno, Katsuhiko Nakamura	Faculty of Pharmaceutical Sciences, Setsunan University, Hirakata, Osaka, Japan

Investigation of analytical method for lymphocyte subset in rat blood and organ samples	Daisuke Mukai, Maki Shibata, Maki Makita, Eiji Maki	Biosafety Research Center, Foods, Drugs and Pesticides, Shizuoka, Japan
The Colormetric assay by cell counting kit-8 for rat peripheral blood and splenic lymphocyte blastogenesis	Seiji Shibata, Mitsui Isobe, Shigeru Hisada	Safety Research Department, ASAKA Pharmaceutical Co., Ltd., Kawasaki, Japan
Analysis of regulatory T cells in silicosis patients	Hiroaki Hayashi (1), Yoshie Miura (1), Fuminori Hyodoh (2), Yasumitsu Nishimura (19< Megumi Maeda (1), Maolong Dong (1), Masayasu Kusaka (3), Hironobu Katsuyama (4), Masafumi Tomita (5), Takemi Otsuki (1)	(1) Department of Hygiene, (4) Department of Public Health, (5) Department of Medical Toxicology, Kawasaki Medical School, Kurashiki, Japan, (2) Department of Nursing, Kawasaki College of Allied Health Professions, Kurashiki, Japan, (3) Department of Internal Medicine, Kuraka Hospital, Bizen, Japan
Luncheon seminar 1		
Immunotoxicology assessment	Lawrence Jacob	Molecular Biology and Immunology, Central Laboratory, Charles River Laboratories Preclinical Services, Edinburgh, Scotland, UK
Luncheon seminar 2		
In vitro and in vivo prediction of monoclonal antibody cytokine release syndrome in man	Mark Wing	Huntington Life Science Ltd., UK