

## Annual Meeting

### The 9th Annual Meeting of JSIT

2002.9.19-20.

GranShip (Shizuoka Convention & Art Center) (Shizuoka)

President: Yasuaki Arakawa (The University of Shizuoka)

#### Special Lecture I

The mechanism for mucosal injuries induced by invasive antigens through the mucosal barrier system.

Hiroshi Nagura

Division of Pathology, Sendai-Shakaihoken Hospital, and Tohoku University Graduate School of Medical Science

#### Special Lecture II

Dynamism of mucosal immunity for the control of infectious disease.

Hiroshi Kiyono

Division of Mucosal Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan

#### President's Lecture

Morbid aging of thymus immunology by environmental factor.

Yasuaki Arakawa

Department of Hygiene & Preventive Medicine, Faculty of Health Sciences, The University of Shizuoka

#### Educational Lecture I

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Shuichi Kaminogawa

Graduate School of Agricultural and Life Sciences, Faculty of Agriculture, University of Tokyo, Tokyo, Japan

#### Educational Lecture II

Risk assessment of environmental trace chemicals based on animal and human immunological studies: Especially in regards to dioxins.

Osamu Wada

Dept. Hygiene & Preventive Med., Saitama Medical School

#### Symposium

Immunotoxicity of arsenic compounds.

Teruaki Sakurai,  
Kitao Fujiwara

Laboratory of Environmental Chemistry, School of Life Science, Tokyo University of Pharmacy and Life Science, Tokyo, Japan

Immunotoxicity of dioxin.

Keiko Nohara (1,2),  
Chiharu Tohyama  
(1,2)

(1) Environm. Health Sci. Div., Natl. Inst. Environm. Studies, Tsukuba, Japan, (2) CREST, JST, Kawaguchi, Japan

Individual difference of sensitivity to smoking and lung damage in pulmonary immunity

Tomoko Betsuyaku  
(1), Michie Taniya  
(1), Kei Nagai (1),  
Yasuyuki Nasuhara  
(1), Yoshio Kuroki

The First Department of Internal Medicine, Hokkaido University School of Medicine, Sapporo, Japan

	(2), Masaharu Nishimura (1)	
Immunotoxicity in diesel exhaust inhalation.	Hidekazu Fujimaki, Yoshika Kurokawa	National Institute for Environmental Studies, Tsukuba, Japan
Workshop		
International harmonization of immunotoxicology study guidelines of synthetic pharmaceuticals.	Kazuichi Nakamura	Developmental Research Laboratories, Shionogi & Co., Ltd.
Draft guidance for immunotoxicity testing.	Jun-ich Sawada	Division of Biochemistry and Immunochemistry, National Institute of Health Sciences, Tokyo, Japan
Assortment of biotechnology-based drugs and points of remember on immunotoxicological assessment	Takahiro Nakazawa	Eli Lilly Japan K.K.
Immunotoxicological issues of biopharmaceuticals.	Takayoshi Kobayashi	Amgen Limited, Preclinical Development, Tokyo, Japan
General Oral Presentation		
Effects of ATRA on human myeloma cells and the role of IL-10 in ATRA-induced growth alteration.	Takemi Otsuki, Akiko Tomokuni, Fuminori Hyodoh	Dept, Hyg., Kawasaki Med. Sch. Kurashiki, Japan.
Role of TNF-alfa in allergic contact dermatitis.	Yukiko Kanazawa (1,2), Takiko Oguro (2), Masato Hatao (3), Reiko Horai (4), Masahide Asano (4), Yoichiro Iwakura (4), Hiroshi Ono (1), Takemi Yoshida (2)	(1)Hatano Research Institute, Food and Drug Safety Center, Kanagawa, Japan, (2)School of Pharmaceutical Sciences, Showa University, Tokyo, Japan, (3)Shiseido Research Center, Kanagawa, Japan, (4)Institute of Medical Sciences, Tokyo University, Tokyo, Japan
Rat strain comparison of immunosuppression by cyclophosphamide on plaque-forming cell assay.	Ryota Kawai, Tetsuo Aida, Motoko Ajioka, Masae Yagi, Tsutomu Kimura	Medicinal Safety Research Laboratories, Sankyo Co., Ltd
Evaluation of the immune parameters for assessment of environmental risk on human health. -Field research on 3 years old children.2nd report-	Takahiko Yoshida (1), Toshihiro Itoh (1), Yoshihiko Nakagi (1), Motoyasu Ohsawa (2), Fuminori Otsuka (2), Kazuko Takahashi (2), Reiko Teshima (3), Jun-ichi Sawada (3), Kohichi Kojima (4)	(1)Department of Hygiene, Asahikawa Medical College, Asahikawa, Japan, (2)Faculty of Pharmacological Science, Teikyo University, Tokyo, Japan, (3)National Institute of Health Sciences, Tokyo, Japan, (4)Hatano Research Institute, Food & Drug Safety Center, Hatano, Japan
NK cell activity assay using calcein acetoxymethyl ester.	Nagata M., Kanasaki K., Hino M.,	Developmental Research Laboratories, Shionogi & Co.,

	Nakamura K.	Ltd.
Immunotoxic properties of chemicals evaluated by use of in vitro antibody production system.	M. Ohsawa (1), K. Takahashi (1), H. Tokunaga (2), H. Utsumi (3)	(1)Fac. Pharmaceut. Sci., Teikyo Univ., (2) Natl. Inst. Health Sci., (3)Grad. Sch. Pharmaceut. Sci., Kyushu Univ.
Pathologic changes in local and systemic immune organs in the adjuvant-arthritis rats treated with a p38 MAPK inhibitor for four weeks.	Shigeru Hisada (1), Jun Sato (2), Hajime Asano (2), Yasuhiro Matsumoto (2), Hideki Morimoto (1), Takashi Mikami (1)	(1)Safety Research Department, Teikoku Hormone Mfg. Co., Ltd., Kawasaki, Japan, (2)Pharmaceutical Research Department, Teikoku Hormone Mfg. Co., Ltd.
LPS mediated acute inflammation is suppressed by soy isoflavones in rat liver.	Jianhong Zhao (1,2), Hiroko Otsuka (1), Atsumi Kikuchi (1,2), Yukitomo Arao (1,2), Fjio Kayama (1,2)	(1)Division of Environmental Immunology and Toxicology, Department of Health Science, Jichi Medical School, Kawachi-Gun, Japan, (2)CREST, Japan Science and Technology Corporation, Kawaguchi City, Saitama, Japan
Immunotoxicological effects of formaldehyde via digestive tract.	Yoshihiko Nakagi (1), Toshihiro Itoh (1), Takahiko Yoshida (1), Kou Sakabe (2)	(1)Department of Hygiene, Asahikawa Medical College, Asahikawa, Japan, (2)Kitasato Institute Hospital, Tokyo, Japan
Effect of lactational exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin on the susceptibility to Listeria infection.	Yoshiko Konishi (1), Kazuo Kobayashi (1), Yoshihiko Suzuki (2)	(1)Division of Microbiology, National Institute of Health Sciences, Tokyo, Japan, (2)Department of Veterinary, Azabu University, Kanagawa, Japan
A low dose effect of xenobiotics on thymus microenvironment, with special reference to DBP and DEHP.	K. Sakabe (1,2), T. Yoshida (3), F. Kayama(4)	(1)The Kitasato Institute, (2)Graduate School of Medical Sciences, Kitasato University, (3)Asahikawa Medical College, (4)Jichi Medical School
Effects of environmental hormones on cell-mediated immunity in ginbuna crusian carp.	Hagio Nihei, Youhei Rintsu, Tadaaki Moritomo, Teruyuki Nakanishi	Department of Veterinary medicine, College of Bioresource sciences, Nihon University
Tributyltin-induced immunological profile in mice.	Kazuo Takahashi, Yoshihiro Takeshita, Chiaki Iwamura, Yuuko Ikezawa, Zenro Ikezawa	Department of Dermatology, Yokohama city university, Yokohama, Japan
The in vitro effects of tributyltin (TBT) chloride on cytokine mRNA expression in murine macrophage cells.	Masashi Tsunoda (1), Nobuhiro Konno (1), Ken Nakano (2)	(1)Department of Public Health, School of Medicine, Fukushima Medical University, Fukushima, Japan, (2)Fukushima Institute of Public Health, Fukushima, Japan

Immuno-toxic effects on the thymic lymphocytes induced by the neonatal treatment of Diethylstilbestrol (DES) in rat pups.	Koichi Hayashi, Tadashi Kosaka, Yukiko Takeuchi, Takanori Harada	Institute of environmental toxicology
Immunotoxicological approach to oral administration of live lactobacilli and bifidobacteria. -The development of immunological functions in neonate mice-	Toshihide Kobayashi, Kayoko Komatsu, Ikuo Kato, Masaharu Onoue	Yakult Central Institute for Microbiological Research
Gene expression changes in RBL-2H3 cells stimulated with antigen and DTBHQ.	Ryosuke Nakamura (1), Junichi Ishida (2), Shogo Ozawa (2), Haruyo Okunuki (1), Yoshiro Saito (1), Reiko Teshima (1), Jun-ichi Sawada (1)	(1)Division of Biochemistry and Immunochemistry, National Institute of Health Sciences, (2)Division of Pharmacology, National Institute of Health Sciences
Allergic reactions to a protein antigen in MES rats.	Yasuhide Kouchi (1), Norifumi Matsushita (1), Shuji Hayashi (1), Rumi Kawabata (1), Kiyoshi Matsumoto (2)	(1)Drug Safety Research Lab., Taiho Pharmaceutical Co. Ltd, (2)Institute of Experimental Animals, Shinshu University School of Medicine
Detection of respiratory sensitization potential of trimellitic anhydride (TMA) in a challenge phase-added mouse Ig E test.	Hideo Ueda (1), Tadashi Kosaka (2), Koichi Hayashi (2), Yuko Chiba (2), Nobuaki Nakashima (2), Koichi Ebino (1), Shoji Teramoto (1)	(1)Toxicology Division I , (2)Toxicology Division II, The Institute of Environmental Toxicology, Ibaraki, Japan
The effects of 2,3,7,8-tetrachlorodibenzo- p-dioxin (TCDD) on long-lived antibody-forming cells in humoral immunity.	Kaoru Inouye (1,2), Tomohiro Ito (1,3), Hidekazu Fujimaki (1,3), Chiharu Tohyama (1,3), Keiko Nohara (1,3)	(1)National Institute for Environmental Studies, Tsukuba, Japan, (2)Domestic Research Fellow, Japan Society for the Promotion of Science, Tokyo, Japan, (3)CREST, JST, Kawaguchi, Japan
Characterization and distribution of lipopolysaccharide in Deep Sea Water.	Yoshihiro Ikumi (1), Kuniaki Takagi (1), Hitoshi Harada (1), Akira Ikari (1), Yoshitsugu Hagiwara (2), Atsushi Shimamoto (2), Yasumasa Igarashi (2), Suguru Wada (2)	(1)University of Shizuoka, Shizuoka, Japan, (2)Shizuoka Prefectural Fisheries Experimental Station
Suppressive effects of dioxin on T cell activation and differentiation.	Tomohiro Ito (1,2), Kaoru Inouye (1,3), Hidekazu Fujimaki (1,2), Chiharu Tohyama (1,2), Keiko Nohara (1,2)	(1)Environmental Health Sciences Division, National Institute for Environmental Studies, Tsukuba, Japan, (2)CREST, JST, Kawaguchi,

		Japan, (3) Domestic Research Fellow, JSPS, Tokyo, Japan
In vitro digestibility study as one of the prediction studies of food allergenicity.	Reiko Teshima, Kayoko Takagi, Haruyo Okunuki, Ryosuke Nakamura, Akiko Hachisuka, Jun-ichi Sawada	Division of Biochemistry and Immunochemistry, National Institute of Health Sciences, Tokyo, Japan
Luncheon seminar I		
Regulatory immunotoxicology and immunopharmacology in non-clinical drug development	Mark G Wing	Head of Experimental Biology and Senior Immunologist, Biosciences Division, Huntingdon Life Sciences, Ltd., Huntingdon, Cambridgeshire, UK
Luncheon seminar II		
Routine immunotoxicity testing of pharmaceuticals: lessons from the first two years		RCC, Cytotest Cell Research GmbH, In den Leppsteinswiesen 19, D-64380 Rosdorf, Germany