

Annual Meeting

The 18th Annual Meeting of JSIT

Invited Plenary Lecture

The Histamine H4 Receptor
and Immune Function

Robin L. Thurmond

Johnson & Johnson
Pharmaceutical Research &
Development, L.L.C., USA

Special Lecture

Environmental
contaminants and children's
health

Chisato Mori (1, 2)

(1) Department of
Bioenvironmental Medicine,
Graduate School Medicine,
Chiba University, (2) Center
of Preventive Medical Science,
Chiba University

Master's Lecture

Genetic risk factors related
to severe cutaneous
adverse reactions

Nahoko Kaniwa

Division of Medicinal Safety
Science, National Institute of
Health Sciences

Awards Lectures

JSIT AWARD for Distinguished Contribution

Regulation of drug- and
stress responsive-enzyme
expressions based on
immunological mechanisms

Takemi Yoshida (1, 2)

(1) Council on Pharmacists
Credentials, Tokyo, Japan (2)
Showa University, Tokyo,
Japan

JSIT RESEARCH AWARD

Immunological bioassay for
infant food allergy

Ryosuke Nakamura

Div. Novel Foods
Immunochem., Natl. Inst.
Health Sci.

Symposium "Food Allergy- From in vitro prediction test to clinical test -"

Food Allergy, intestinal
immunity and oral tolerance

Hiroshi Ohno

Laboratory for Epithelial
Immunobiology, Research
Center for Allergy and
Immunology, RIKEN,
Yokohama, Japan

Maintenance of IL-4
production by CD4+T cells
in mesenteric lymph nodes
is indispensable in inducing
T cell-dependent food
allergic enteropathy

Haruyo Nakajima-
Adachi

Department of Applied
Biological Chemistry, Graduate
School of Agriculture and Life
Science, The University of
Tokyo, Tokyo, Japan

Development of new
diagnostic method for
cross-reactivity between
food allergens

Yasuto Kondo (1),
Kazuo Ogura (1),
Norihiko Naruse (1),
Noriko Hirata (1),
Satiko Suzuki (1),
Hitoshi Ando (1), Kinichi
Tanaka (2), Yoichi
Nakajima (2), Chisato

(1) Fujita Health University,
The second Teaching Hospital,
Nagoya, Japan (2) Fujita
Health University, Toyoake,
Japan

	Inuo (2), Ikuya Tusge (2), Atsuo Urisu (1)	
Animal Models to Assess Protein Allergenicity: State of the Science	Gregory S. Ladics	DuPont Agricultural Biotechnology, Wilmington, DE, USA.
Workshop "Methods of Assessment for Developmental Immunotoxicity"		
Developmental Immunotoxicology: 'State-of-the-Science'	Gregory S. Ladics	DuPont Agricultural Biotechnology, Wilmington, DE, USA
A new assay system for evaluation of developmental immunotoxicity of chemical compounds using RSV infection to offspring mice	Wataru Watanabe)Department of Microbiology, School of Pharmaceutical Sciences, Kyushu University of Health and Welfare, Nobeoka, Japan
Studies on the effects of toluene exposure on developing immune system	Win-Shwe Tin-Tin (1), Kunugita Naoki (2), Yoshida Yasuhiro (3), Fujimaki Hidekazu (4)	National Institute for Environmental Studies (1) National Institute of Public Health (2) University of Occupational and Environmental Health, Japan (3) National Institute for Environmental Studies (4)
The effect of perinatal/infant Methoxychlor exposure in rat immune system	Koichi Hayashi, Tadashi Kosaka	Institute of Environmental Toxicology, Ibaraki, Japan
Oral Presentations		
Fetotoxicity of nanomaterials for the development of safe nanomaterials	Yasuo Yoshioka (1,2,3), Kohei Yamashita (1), Kazuma Higashisaka (1), Yuki Morishita (1), Kazuya Nagano (3), Yasuhiro Abe (3), Haruhiko Kamada (2,3), Shin-ichi Tsunoda (2,3), Hiromi Nabeshi (1), Itaru Yanagihara (4), Shigeru Saito ⁵ , Norio Itoh (1), Tomoaki Yoshikawa (1), Yasuo Tsutsumi (1,2,3)	(1) Laboratory of Toxicology and Safety Science, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan (2) The Center for Advanced Medical Engineering and Informatics, Osaka University, Osaka, Japan (3) Laboratory of Biopharmaceutical Research, National Institute of Biomedical Innovation, Osaka, Japan (4) Department of Developmental Medicine, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan 5)Department of Obstetrics and Gynecology, University of Toyama, Toyama, Japan
Particulates induce macrophages to produce lipid mediators via the Syk activation	Etsushi Kuroda (1), Yasuo Morimoro (2)	(1) Department of Immunology and Parasitology, University of Occupational and Environmental Health, Japan (2) Department of

		Occupational Pneumology, University of Occupational and Environmental Health, Japan
The relationship between low IL-12, IFN- γ and IL-17A levels and low NKp46 on NK cells in the culture of PBMCs upon asbestos exposure	Yasumitsu Nishimura (1), Naoko Kumagai (1), Megumi Maeda (2), Hidenori Matsuzaki (1), Suni Lee (1), Takemi Otsuki (1)	(1) Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan (2) Graduate School of Natural Science and Technology, Okayama University, Okayama, Japan
The effects of asbestos exposure on maturation and maintenance of memory CTL induced by mixed lymphocyte reactions	Naoko Kumagai (1), Yasumitsu Nishimura (1), Megumi Maeda (2), Hiroaki Hayashi (1), Hidenori Matsuzaki (1), Suni Lee (1), Takemi Otsuki (1)	(1) Department of Hygiene, Kawasaki Medical School, Okayama, Japan (2) Department of Biofunctional Chemistry, Graduate School of Natural Science and Technology, Okayama University, Okayama, Japan
Effects of isoflavones on ROR γ t-dependent IL-17 gene expression	Hiroyuki Kojima (1), Ryuta Muromoto (2), Miki Takahashi (2), Shinji Takeuchi (1), Tadashi Matsuda (2)	(1) Hokkaido Institute of Public Health, Sapporo, Japan (2) Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo, Japan
A novel animal model of pruritus induced by successive application of glucocorticoid to mouse skin	Katsunori Yamaura, Ryosuke Doi, Eriko Suwa, Koichi Ueno	Department of Geriatric Pharmacology and Therapeutics, Graduate School of Pharmaceutical Sciences, Chiba University, Japan
Possibility of immunotoxicity evaluation by ocular instillation in rats	Yoshihiro Oshita, Mitsunori Meda, Kouichi Kawazu	Non-clinical Research Group, Nara Research and Development Center, Santen Pharmaceutical CO.,Ltd.
The role of neutrophil infiltration in Methotrexate (MTX)-induced intestinal barrier dysfunction	Shuichi Sekine, Chiaki Asada, Tomoko Maeda, Naoko Kakigawa, Toshiharu Horie	Department of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University
Myelotoxicity of indium oxide (2nd report) - chromosomal aberration-	Yuichi Miyakoshi, Toshikazu Koiwai, Hiroyuki Yanagizawa	Department of Public Health and Environmental Medicine, The Jikei University School of Medicine, Tokyo, Japan
Mechanism of ziram- induced apoptosis in human T lymphocytes	Qing Li, Maiko Kobayashi, Tomoyuki Kawada	Department of Hygiene and Public Health, Nippon Medical School
Skin sensitization study by a new qualitative structure- toxicity relationships (QSTR) approach: K-step Yard sampling (KY) methods	Kazuhiro Sato (1), Yukinori Kusaka (1), Kohtarō Yuta (2)	(1) Department of Environmental Health, School of Medicine, University of Fukui, Fukui, Japan, (2) In Silico Data Ltd., Chiba, Japan
Examination of Flowcytometry method for measuring NK activity	Satoshi Saitoh, Kyouko Harita, Maiko Fukushima, Youko Kakizaki, Sumako	Molecular Genetic Research and Analysis Department,Advanced Medical Science Research Center,Mitsubishi Chemical

	Iwanaga, Kazuhiro Abe, Kouji Nakayama	Medience Corporation, Tokyo, Japan
Current Situation of Histopathological Examination on the Immune System Organs in Standard Toxicity Studies	Yamato Ogino, Akio Kobayashi, Shigeo Kawano, Kazuhiko Taguchi, Takashi Nagayama, Keiko Motoyama, Kazuhiro Hosoi, Shigeru Hisada, Kazuichi Nakamura	Non-Clinical Evaluation Subcommittee, Drug Evaluation Committee, Japan Pharmaceutical Manufacturers Association
Changes of components in breast milk by stress of child care and the effects of thalassotherapy on them	Kuniaki Takagi, Yukina Ichiki, Masakuni Degawa	School of Pharmaceutical Science, University of Shizuoka, Shizuoka, Japan
Poster Presentations		
Chronic exposure to chrysotile asbestos induces IL-17 production in cultured human peripheral CD4 T cells in vitro	Megumi Maeda (1), (2), Naoko Kumagai (2), Hidenori Matsuzaki (2), Suni Lee (2), Yasumitsu Nishimura (2), Takemi Otsuki (2)	(1) Department of Biofunctional Chemistry, Graduate School of Natural Science and Technology, Okayama University, Japan (2) Department of Hygiene, Kawasaki Medical School
Effect of Asbestos on forkhead transcription factor FoxO1	Hidenori Matsuzaki (1), Megumi Maeda (2), Suni Lee (1), Naoko Kumagai (1), Yasumitsu Nishimura (1), Takemi Otsuki (1)	(1) Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan (2) Department of Biofunctional Chemistry, Graduate School of Natural Science and Technology, Okayama University, Japan
The enhancement of CD8 positive cell proliferation caused by trichloroethylene	Ryo Kobayashi, Tsuyoshi Nakanishi, Hisamitsu Nagase	Gifu Pharmaceutical University, Gifu, Japan
The effects of fluoride on mRNA expressions of cytokines in the splenic macrophages in ICGN mice and ICR mice via drinking water	Takamasa Kido (1,2), Masashi Tsunoda (2), Chiemi Sugaya (2), Ryutaro Ikeuchi (1,2), Yukio Kodama (4), Ryouko Konishi (4), Kazuyoshi Itai (3), Yoshiharu Aizawa (2)	(1) Graduate School of Medical Sciences, Kiasato University of Sagamihara, Kanagawa Japan (2) Preventive Medicine and Public Health, Kiasato University School of Medicine (3) Preventive Medicine and Public Health, Iwate Medical University (4) National Institute of Health Sciences
Prior oral exposure to environmental immunosuppressive agents aggravates mite allergen- induced atopic dermatitis- like immunoreaction	Tomoki Fukuyama, Yukari Tajima, Koichi Hayashi, Hideo Ueda, Tadashi Kosaka	Toxicology Division, The Institute of Environmental Toxicology, Ibaraki, Japan
The immunobiological effects of negatively- charged air particle	Takemi Otsuki (1), Kazuaki Takahashi (2), Kouki Manabe (3), Muneo Kotani (3),	(1) Dept. Hyg., Kawasaki Med. Sch., Kurashiki, Japan (2) Comprehensive Housing R&D Inst., Sekisui House,

dominant indoor air circumstance	Megumi Maeda (4), Naoko Kumagai (1), Hidenori Matsuzaki (1), Suni Lee (1), Yasumitsu Nishimura (1)	Ltd.,Kizugawa, Japan (3) Dept. Environ. Enhancement, Sekisui House, Ltd., Osaka, Japan (4) Div. Bioscience, Dept. Biofunct. Chem., Grad. Sch. Nat. Sci. Technol., Okayama Univ., Okayama, Japan (1) Department of Preventive Medicine, Kitasato University School of Medicine, Sagamihara, Japan (2) Kitasato University Graduate School of Medical Sciences, Sagamihara, Japan (3) Department of Public Health, Kitasato University School of Allied Health Sciences, Sagamihara, Japan
The effects of TBT on the productions of cytokines by splenocytes from F1 rats by the exposure from fetus to developing stages	Masashi Tsunoda (1), Takamasa Kido (1,2), Ryutaro Ikeuchi (1,2), Chiemi Sugaya (1), Hiroshi Katagiri (3), Yoshiharu Aizawa (1)	(1) National Institute of Health Sciences, Tokyo, Japan (2) Research Institute, Kagome Co., Ltd., Nasushiobara-shi, Japan (3) Department of Applied Biological Chemistry, The University of Tokyo, Tokyo, Japan
Mechanism of the inhibition of the oral sensitization by β -carotene intake	Hideki Matsuoka (1), Hiroshi Akiyama (1), Kozue Sakata (1), Rika Nakamura (1), Shingo Takahashi (2), Koichi Aizawa (2), Takahiro Inakuma (2), Mamoru Tostuka (3), Reiko Teshima (1)	(1) Hatano Research Institute, Food and Drug Safety Center, Hadano, Japan (2) National Institute of Health Sciences, Tokyo, Japan
A New In Vitro Assay System for Assessment of Food Allergenicity : (3) Coupling with In Vitro Protein Digestion Process	Terumi Katori (1), Tomoko Shindo (1), Motoyasu Ohsawa (1), Kohichi Kojima (1), Reiko Teshima (2)	(1) Hatano Research Institute, Food and Drug Safety Center, Hadano, (2) Pharmaceuticals and Medical Devices Agency, Tokyo, (3) National Institute of Health Sciences, Tokyo, Japan
Murine Oral Food Allergy Model: Alteration of Productive IgA Contents in Intestine	Tomoko Shindo (1), Terumi Katori (1), Yukiko Kanazawa (2), Kohichi Kojima (1), Reiko Teshima (3)	(1) Hatano Research Institute, Food and Drug Safety Center, Hadano, (2) National Institute of Health Sciences, Tokyo, Japan
学生・若手セッション		
Effects of histamine H (4) receptor antagonist JNJ7777 (1) (2)0 on the mouse model of atopic dermatitis	Eriko Suwa, Katsunori Yamaura and Koichi Ueno	Department of Geriatric Pharmacology and Therapeutics, Graduate School of Pharmaceutical Sciences, Chiba University (1)Graduate School of Pharmaceutical Sciences, Chiba University, (2)Division of pharmacy, Chiba University Hospital, (3)Amine Pharma Research Institute
Effect of Acrolein on Macrophages	Kenta Watanabe (1), Itsuko Ishii (1), Yuki Nakazato (1), Kazuei Igarashi (1), (3), Mitsukazu Kitada (2)	(1)Division of Novel Foods and Immunochemistry, National Institute of Health
Allergenicity test of Arabidopsis DREB (1)A-Transgenic Potato Using	Rika Nakamura (1), Rie Satoh (1), (2), Ryosuke Nakamura (1),	(1)Division of Novel Foods and Immunochemistry, National Institute of Health

Immunoproteomic and (2)D-DIGE Analysis	Takayoshi Shimazaki (3), Mie Kasuga (4), Kazuko Shinozaki (4), Akira Kikuchi (3), Kazuo Watanabe (3), Reiko Teshima (1)	Sciences, Tokyo, Japan (2))National Food Research Institute, Tsukuba, Japan (3))Gene Research Center, Graduate School of Life and Environmental Sciences, University of Tsukuba, Tsukuba, Japan (4)) Biological Resources Division, Japan International Research Center for Agricultural Sciences (JIRCAS), Tsukuba, Japan
Allergenicity of heat-processed egg white revealed by cell-based assay	Ayano Ishiwatari (1), (2), Ryosuke Nakamura (1), Masakazu Higuchi (1), Yoshimi Uchida (1), Rika Nakamura (1), Hiroshi Kawakami (2), Atsuo Urisu (3), Reiko Teshima (1)	(1))The Division of Novel Foods and Immunochemistry, National Institute of Health Sciences, Tokyo, Japan (2))Graduate School of Food Science, Kyoritsu Women's University, Tokyo, Japan (3))Department Pediatrics, The Second Teaching Hospital of Fujita Health University, Aichi, Japan
Effects of exposure of human NK cells to arsenite on gene expression and cytotoxic activity	Hiromasa Tsuyama, Daigo Sumi, Tomoko Ogawa, Seiichiro Himeno	Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Tokushima, Japan
Enhancing effects of oral-administered oxidized olive oil on mouse skin allergy	Hirofumi Ogino (1), Kei Okayama (1), Miho Kitayama (1), Iku Yabuta (1), Syogo Asakura (1), Yusuke KikuchiI (1), Chisa Betto (1), Koichi Murano (1), Ryo Yonemitu (1), Fumitoshi Sakazaki (1), Tomohiro Arakawa (1), Tomofumi Okuno (1), Katsuhiko Nakamuro (2), Hitoshi Ueno (1)	(1) Faculty of Pharmaceutical Sciences, Setsunan University, Hirakata, Osaka, Japan (2) Faculty of Science & Engineering, Setsunan University, Neyagawa, Osaka, Japan
Luncheon Seminars		
Biomarkers of inflammation	Simon Lavallée	Principal Scientist, Charles River Laboratories Preclinical Services Montreal Inc, Canada
Immunogenicity of biotherapeutics; contributing factors, impact and mitigation	Christopher Kirton	Huntingdon Life Sciences Ltd., UK