English pages

The 16th Annual Meeting of the Japanese Society of Immunotoxicology (JSIT2009)

August 27-28,2009
Asahikawa Cultural Hall , Asahikawa, Hokkaido, Japan
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Program (tentative Schedule)

■ August 27, 2009 (Thursday)

9:00	Registration
9:20	Opening Remark
9:30-18:00	Poster Presentations
9:25-10:55	Oral Presentations
11:00-12:00	Special Lecture I "Does immunomodulation early in life increase disease risk in children and beyond?" Dori R. Germolec (NIEHS, NIH, USA)
12:15-13:00	Luncheon Seminar (Huntingdon Life Sciences)
13:00-13:30	General Assembly
13:30-14:15	Oral Presentations
14:20-16:10	Symposium "Children and Immunity" (Organized by Drs. F. Kayama and K. Nakamura) Shou Ishikawa (The University of Tokyo) Chisato Mori (Chiba University), Judith T. Zelikoff (New York University, USA)
16:15-18:00	Oral Presentations
18:30-20:30	Reception (Asahikawa Grand Hotel)

■August 28, 2009 (Friday)

9:00	Registration
9:10-10:55	Oral Presentations
9:00-14:00	Poster Presentations
11:00-12:00	Special Lecture II "Role of Zoo" Masao Kosuge (Director Emeritus of Asahikawa Asahiyama Zoo)
12:15-13:00	Luncheon Seminar (Charles River Laboratories)
13:00-13:55	Poster Discussion
14:00-15:30	Oral Presentations
15:35-17:15	Workshop "Standardization of an immunotoxicity test: T cell-dependent antibody response to keyhole limpet hemocyanin" (Organized by Drs. N. Tsutsui and S. Hisada) Naohisa Tsutsui (Mitsubishi Tanabe Pharma Co.) Ryota Kawai (Daiichi Sankyo Co. Ltd.) Kanako Mori (Takeda Pharmaceutical Co. Ltd.) Hiroyuki Komatsu (SUGI Institute of Biological Science Co., Ltd.) Hideki Harada (Mitsubishi Chemical Medience Co.)
17:15-17:20	Awards Ceremony
17:20-17:25	Closing Remarks

Evaluation of the enhancing effects of environmental chemicals on allergic diseases

Hirohisa Takano, Rie Yanagisawa, Eiko Koike, Ken-ichiro Inoue.
(Environmental Health Sciences Division, National Institute for Environmental Studies)

Abstract

Changes in environmental factors, rather than those in genetic factors, are thought to be responsible for the recent increase in allergic diseases. An increase in environmental chemicals can be involved in the recent changes in the environment. We have reported that diesel exhaust particles (DEP) can enhance allergic asthma. Organic chemicals in DEP predominantly enhance allergic inflammation. Furthermore, di-(2-ethylhexyl) phthalate (DEHP) as a plasticizer also enhances allergic inflammation. Evaluation of the enhancing effects of environmental chemicals on allergic diseases should be important for the remedy of allergic diseases.

Trends of Preventive Measures against Health Damage in Household Products, associated with Cause Investigation of Health Damage such as Allergic Contact Dermatitis due to Chemicals in Household Products

Masa-aki Kaniwa
(Division of Medical Devices, National Institute of Health Sciences)

Abstract

Chemicals in household products have been paid much attention as main cause of health damage in consumers, such as allergic contact dermatitis (ACD). Cause investigation in cases of ACD due to chemicals in fabric, plastic and rubber products for household uses, are reviewed, focusing on 1) cause investigation, through collaborative activities among patients(consumers), dermatologists, toxicologists, manufacturers of chemicals and household products, chemists, consumer supporting associations and so on, in combination with bio-assay and chemical assay methods, 2) case studies on ACD, for elucidating clear causative product-chemical relationship, 3) improvement in material(chemical) safety data sheet (MSDS) and product labeling of household products.

Keywords: household product, health damage, allergic contact dermatitis, cause investigation, causative product-chemical relationship

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Recent progress on immunogenicity assessment of therapeutic monoclonal antibodies

Naohisa Tsutsui
(Safety Research Laboratory, Research Division, Mitsubishi Tanabe Pharma Corporation)

In this March, the European Medicines Agency (EMEA) unveiled a concept paper in which BMWP/CHMP/EMEA recommended drafting a guideline on immunogenicity assessment of monoclonal antibodies intended for in vivo clinical use. Recent progress on immunogenicity assessment of therapeutic monoclonal antibodies is considered to be behind that. This short document provides the four presumable reasons why drafting the guideline is now necessary: 1) difficulty in measuring antibodies against antibodies, 2) necessity of a risk-based strategies for the assessment, 3) development of *in silico* tools for predicting immunogenicity and 4) emergence of biosimilar products.

Young power for immunotoxicological research

The structure and Immunochemical activity of the carbohydrate chain

Shinobu SAKAI, Ph. D.
(Senior Researcher)
Division of Novel Foods and Immunochemistry, National Institute of Health Sciences

Recently, it is recognized that the carbohydrate chain contributes to the higher functions of the immune system. However, it remains a significant challenge to reveal the relationship between the structure and functions of the carbohydrate chains. In this letter, I introduce the structure and immunochemical activity of the carbohydrate chain. I believe it is important to advance these studies using the immunotoxicological approach.