

## Annual Meeting

### The 16th Annual Meeting of JSIT

2009.8.27-28. Asahikawa City Cultural hall

President: Takahiko Yoshida, Department of Health Science, Asahikawa Medical College, Asahikawa, Japan

#### Special Lecture I

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| Does immunomodulation early in life increase disease risk in children and beyond? | Germolec Dori R (1),<br>Dietert Rodney R (2) | (1) National Toxicology Program,<br>National Institute of Environmental<br>Health Sciences<br>(2) Department of Microbiology and<br>Immunology, Cornell University |
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#### Special Lecture II

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| Role of Asahiyama Zoo | Masao Kosuge | Director Emeritus of Asahikawa<br>Asahiyama Zoo |
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#### Symposium

##### Organizer

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| Children and Immunity | Fujio Kayama<br>Kazuichi Nakamura | Jichi Medical University<br>Shionogi & Co., Ltd. |
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| Breakdown of mucosal immunity in the gut and allergic sensitization by dioxin | Sho Ishikawa | Dept of Molecular Preventive<br>Medicine, The University of Tokyo,<br>Tokyo, Japan |
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| Health examination system to prevent fetal exposure of persistent organic pollutants (POPs) and atopic dermatitis in infants. | Chisato Mori | Center of Preventive Medical Science,<br>Department of Bioenvironmental<br>Medicine, Graduate School Medicine,<br>Center for Environment, Health and<br>Field Sciences, Chiba University |
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| Prenatal exposure to cigarette smoke increases tumor susceptibility of juvenile mice via changes in anti-tumor immune mechanisms | Zelikoff Judith T (1),<br>Ng Sheung P (1),<br>Yoshida Kotaro (1),<br>Silverstone Allen E<br>(.2), Lai Zhi-Wei (2) | 1) New York University School of<br>Medicine, Nelson Institute of<br>Environmental Medicine<br>2) SUNY Upstate Medical University,<br>Department of Microbiology &<br>Immunology |
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#### Workshop

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| Standardization of an immunotoxicity test: T cell-dependent antibody response to keyhole limpet hemocyanin | Organizer<br>Naohisa Tsutsui<br>Shigeru Hisada | Mitsubishi Tanabe Pharma Co.<br>Aska Pharmaceutical Co., Ltd. |
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| Background for a discussion on standardized protocols of KLH-TDAR | Naohisa Tsutsui | Safety Research Laboratory,<br>Research Division, Mitsubishi Tanabe<br>Pharma, Chiba, Japan |
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| Case 1: Rat strain comparison of T cell dependent antibody response using keyhole limpet hemocyanin as an antigen                       | Ryota Kawai, Shiho Ito, Hiroyuki HattoriI, Tetsuo Aida, Tadashi Furukawa, Atsushi Sanbuissho                                            | Medicinal Safety Research Laboratories, DAIICHI SANKYO CO., LTD.                                                                                                                      |
| Case 2: Protocol for Rat KLH-TDAR in Takeda Pharmaceutical Company Limited                                                              | Kanako Mori, Takako Iwachido, Masami Aoki, Hideki Yamasaki, Kenji Takami, Hirofumi Nagai                                                | Development Research Center, Pharmaceutical Division, Takeda Pharmaceutical Company Limited                                                                                           |
| Case 3:TDAR method using the commercial anti KLH-ELISA kit - Comparison with SRBC method-                                               | Horoyuki Komatsu                                                                                                                        | SUGI Institute of Biological Science                                                                                                                                                  |
| Case 4: Case study of both anti-KLH IgM and IgG antibody measurement in TDAR testing                                                    | Hideki Harada, Makoto Tsunimi, Hideki Tokudome, Takayuki Okamura, Yasuyuki Oonishi, Hideaki Hiratsuka                                   | Kashima Laboratory, Toxicological Science Division, Medi-Chem Business Segment, Mitsubishi Chemical Medience Corporation                                                              |
| Oral Presentations                                                                                                                      |                                                                                                                                         |                                                                                                                                                                                       |
| Assessment of the influence of possible endocrine disruptors on the development of non-pathogenic-bacterial induced infectious diseases | Noriko Mizutani(1), Masashi Muroi(1,2), Arisa Igarashi(1), Shinji Kanno(1), Yoichi Kamata(1), Yoshiko Konishi(1), Ken-ichi Tanamot(1,2) | (1) Division of Microbiology, National Institute of Health Sciences, Tokyo, Japan, (2) Faculty of Pharmacy, Department of Pharmaceutical Sciences, Musashino University, Tokyo, Japan |
| Estrogen receptors in rainbow trout immune organs and cells                                                                             | Nakayama Ayako (1), Koellner Bernd (2), Eppler Elisabeth (3), Segner Helmut (1)                                                         | (1) Centre for Fish and Wildlife Health, University of Bern, (2) Friedrich-Loeffler-Institute, (3) Research Group Neuro-Endocrine-Immune Interactions, University of Zurich           |
| Effects of exposure to phthalates on atopic dermatitis-like skin lesions in NC/Nga mice                                                 | Rie Yanagisawa, Hirohisa Takano, Eiko Koike, Ken-ichiro Inoue                                                                           | Environmental Health Sciences Division, National Institute for Environmental Studies, Tsukuba, Japan                                                                                  |
| Allergic reaction induced by dermal and/or respiratory exposure to several types of pesticides                                          | Tomoki Fukuyama, Yukari Tajima, Koichi Hayashi, Hideo Ueda, Yasufumi Shutoh, Takanori Harada, Tadashi Kosaka                            | The Institute of Environmental Toxicology, Toxicology Division, Ibaraki, Japan                                                                                                        |
| Suppression of airway responsiveness and eosinophilic infiltration in asthmatic mice by propolis                                        | Ryoji Hirota(1), Masamitsu Eitoku(1), Ken-ichi Yagyuu(2), Hiroyuki Tanaka(3), Naoki Inagaki(3),                                         | (1)Department of Environmental Medicine, Kochi Medical School Kohasu, Kochi, Japan, (2)The Science Research Center, Kochi University, (3 Bioactive Molecules,                         |

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|                                                                                                                     | Hiroichi Nagai(3),<br>Hiroyuki<br>Nakamura(4),<br>Narufumi<br>Suganuma(1)                                                                           | Gifu Pharmaceutical University,<br>(4)Department of Environmental and<br>Preventive Medicine, Kanazawa<br>University Graduate School of<br>Medical Science.                                                                                                                                          |
| Effect of ziram, a<br>carbamate pesticide,<br>on human NK activity                                                  | Qing Li, Maiko<br>Kobayashi, Tomoyuki<br>Kawada                                                                                                     | Department of Hygiene and Public<br>Health, Nippon Medical School,<br>Tokyo, Japan                                                                                                                                                                                                                   |
| Development of a<br>novel allergy test using<br>a cultured mast cell<br>line                                        | Nakamura Ryosuke,<br>Yoshimi Uchida,<br>Masakazu Higuchi,<br>Reiko Teshima                                                                          | Div. Novel Foods Immunochem.,<br>Natl. Instit. Health Sci., Tokyo, Japan                                                                                                                                                                                                                             |
| A new In Vitro assay<br>system for assessment<br>of food allergenicity                                              | Terumi Katori(1),<br>tomoko Shindo(1),<br>Yukiko Kanazawa(1),<br>Motoyasu Ohsawa(1),<br>Kohichi Kojima(1),<br>reiko Teshima(2)                      | (1) Hatano Research Institute, Food<br>and Drug Safety Center, Hadano,<br>Japan,(2) National Institute of Health<br>Sciences, Tokyo, Japan                                                                                                                                                           |
| Potential use of human<br>erythropoietin<br>transgenic mouse<br>model as a tool for<br>immunogenicity<br>assessment | Akifumi Shioda(1),<br>Ryousuke<br>Watanabe(2),<br>Tomoaki Inoue(1),<br>Masayuki Mishima(1)                                                          | (1) Safety Assessment Dept., Fuji<br>Gotemba Res. Labs., Chugai<br>Pharmaceutical Co., Ltd., Gotemba,<br>Japan, (2)Pharmaceutical Res. Dept.<br>2, Kamakura Res. Labs., Chugai<br>Pharmaceutical Co., Ltd., Kamakura,<br>Japan                                                                       |
| Effect of prenatal and<br>postnatal exposure to<br>low-level toluene on<br>immune development<br>in infant mice     | Shoji Yamamoto(1),<br>Win-Shwe Tin-Tin(1),<br>Naoki Kunugita(2),<br>Yasuhiro Yoshida(3),<br>Keiichi Arashidani(3),<br>Hidekazu Fujimaki(1)          | (1) Research Center for<br>Environmental Risk, National<br>Institute for Environmental Studies,<br>Tsukuba, Japan, (2)Department of<br>Environmental Health, National<br>Institute of Public Health, Wako,<br>Japan, (3)University of Occupational<br>and Environmental Health,<br>Kitakyushu, Japan |
| The effect of DPH and<br>MXC on the immune<br>response to SRBC-<br>antigen in infant and<br>adult female rats       | Koichi Hayashi,<br>Tomoki Fukuyama,<br>Yukari Tajima, Yukiko<br>Kashimoto, Hideo<br>Ueda, Yasufumi<br>Shutoh, Takanori<br>Harada, Tadashi<br>Kosaka | Institute of Environmental<br>Toxicology, Ibaraki Japan                                                                                                                                                                                                                                              |
| Effect of arsenite on<br>lipopolysaccharide-<br>induced activation of<br>mouse macrophages                          | Seiichiro Himeno,<br>Koichiro Matsuda,<br>Hiromasa Tsuyama,<br>Hitomi Fujishiro                                                                     | Laboratory of Molecular Nutrition and<br>Toxicology, Faculty of Pharmaceutical<br>Sciences, Tokushima Bunri University                                                                                                                                                                               |
| Benzo[a]pyrene-<br>induced activation of<br>murine immune cells                                                     | Eiko Koike, Ken-<br>Ichiro Inoue, Rie<br>Yanagisawa, Hirohisa<br>Takano                                                                             | Environmental Health Sciences<br>Division, National Institute for<br>Environmental Studies, Tsukuba,<br>Japan                                                                                                                                                                                        |
| Effects of<br>inflammation-related<br>gene polymorphisms<br>and atomic-bomb                                         | Tomonori Hayashi(1),<br>Waka Ohishi(1),<br>Kazue Imai(1), Kengo<br>Yoshida(1), Ikue                                                                 | (1) Radiation Effects Research<br>Foundation, Hiroshima, Japan, (2)<br>Central Research Facility, Hiroshima                                                                                                                                                                                          |

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| radiation exposure on risks of stomach and liver cancers                                                                          | Hayashi(2), Saeko Fujiwara(1), Yoichiro Kusunoki(1), Kei Nakachi(1)                                                                                                                                                                                                                              | University Faculty of Dentistry, Hiroshima, Japan                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Associations between HLA alleles and Stevens-Johnson syndrome and toxic epidermal necrolysis in Japanese patients (Second report) | Yoshiro Saito(1,2), Nahoko Kaniwa(1,2), Masahiro Tohkin(1,2), Kouichi Kurose(1,2), Jun-ichi Sawada(1), Kayoko Matsunaga(2), Yukitoshi Takahashi(2), Hirokazu Furuya(2), Masaaki Muramatsu(2), Chie Sotozono(2), Shigeru Kinoshita(2), Michiko Aihara(2), Zenro Ikezawa(2), Ryuichi Hasegawa(1,2) | (1) National Institute of Health Sciences,(2) JSAR Research Group                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Systematic evaluation between particle characteristics of silica and inflammatory responses                                       | Yasuo Yoshioka(1,2), Tomohiro Morishige(2), Hiroshi Inakura(2), Aya Tanabe(2), Yasuo Tsutsumi(1,3,4), Shin-ichi Tsunoda(4), Yuichi Kawai(5), Tadanori Mayumi(5), Yohei Mukai(2), Naoki Okada(2), Shinsaku Nakagawa(1,2)                                                                          | (1) The Center for Advanced Medical Engineering and Informatics, Osaka University, Osaka, Japan, (2) Department of Biotechnology and Therapeutics, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, (3) Department of Toxicology, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, (4) Laboratory of Pharmaceutical Proteomics, National Institute of Biomedical Innovation Osaka, Japan, (5) Faculty of Pharmaceutical Sciences, Kobe-Gakuin University, Kobe, Japan. |
| Enhancement of suppression function of MT-2 cells on T cell proliferation by long-term and low-level exposure to asbestos         | Megumi Maeda(1), Ying Chen(1), Hiroaki Hayashi(1), Naoko Kumagai(1), Yoshie Miura(2), Yasumitsu Nishimura(1), Takemi Otsuki(1)                                                                                                                                                                   | (1) Department of Hygiene, Kawasaki Medical School, Kurashiki, Okayama,Japan, (2) Department of Molecular Genetics, Division of Molecular and Clinical Genetics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan                                                                                                                                                                                                                                                                                       |
| Involvement of cytokines in suppressed induction of CTL upon exposure to asbestos                                                 | Naoko Kumagai, Yasumitsu Nishimura, Megumi Maeda, Hiroaki Hayashi, Takemi Otsuki                                                                                                                                                                                                                 | Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Analysis for suppressed expression of NKp46 on NK cells exposed to asbestos, possible predictive molecular marker for             | Yasumitsu Nishimura(1), Naoko Kumagai(1), Megumi Maeda(1), Hiroaki Hayashi(1), Takumi                                                                                                                                                                                                            | (1) Department of Hygiene, Kawasaki Medical School, Kurashiki, Japan, (2) Okayama Rosai Hospital, Okayama, Japan                                                                                                                                                                                                                                                                                                                                                                                                             |

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| anti-tumor immune function                                                                                                                | Kishimoto(2), Takemi Otsuki(1)                                                                                                                                |                                                                                                                                                                      |
| Development of an allergenicity assay for genetically modified animal foods                                                               | Nakamura Rika(1), Ryosuke Nakamura(1), Hiroyuki Horiuchi(2), Reiko Teshima(1)                                                                                 | (1) Division of Novel Foods and Immunochemistry, National Institute of Health Sciences, Tokyo, Japan, (2) Graduate School of Biosphere Science, Hiroshima University |
| Murine Food Allergy Model with Oral Sensitization and Oral Challenge (7)                                                                  | Tomoko Shindo(1), Terumi Katori(1), Yukiko Kanazawa(1), Motoyasu Ohsawa(1), Kohichi Kojima(1), reiko teshima(2)                                               | (1) Hatano Research Institute, Food and Drug Safety Center, Hadano, Japan, (2) National Institute of Health Sciences, Tokyo, Japan                                   |
| Parabens enhance mouse contact hypersensitivity                                                                                           | Fumitoshi Sakazaki, Naoe Chinen, Mari Matsuo, Hirofumi Ogino, Megumi Shiroshita, Hitoshi Ueno, Katsuhiko Nakamuro                                             | Faculty of Pharmaceutical Sciences, Setsunan University, Hirakata, Osaka, Japan                                                                                      |
| Poster Presentations                                                                                                                      |                                                                                                                                                               |                                                                                                                                                                      |
| T-cell Dependent Antibody Response in Spontaneously Hypertensive rat. - Effects of Immunosuppressive Drugs on Primary Antibody Response - | Akihiko Hisatomi, Kiyoshi Kushima, Kenji Hoshino, Michio Fujiwara                                                                                             | Drug Safety Research Labs. Astellas Pharma Inc.                                                                                                                      |
| Immunotoxicity evaluation in beagle dogs, including T-cell dependent antibody response                                                    | Ryota Kawai, OShiho Ito, Hiroyuki Hattori, Tetsuo Aida, Hidetoshi Ooshima, Satomi Komatsu, Toshihiko Makino, Kumi Honda, Tadashi Furukawa, Atsushi Sanbuissho | Medicinal Safety Research Laboratories, DAIICHI SANKYO CO., LTD., Shizuoka, Japan                                                                                    |
| Relationship between blood lymphocyte decrease induced by administration stress and CXCR4-mediated T cell migration in cynomolgus monkeys | Takayuki Okamura, Hideki Tokudome, Makoto Tsunemi, Kiyohisa Fukasawa, Hideki Harada, Yasuyuki Ohnishi, Hideaki Hiratsuka                                      | Toxicological Science Division, Mitsubishi Chemical Medience Corporation, Kashima, Japan                                                                             |
| Effects of toluene exposure on developmental immunotoxicity in infant mice brain                                                          | Tin-Tin Win-Shwe(1), Naoki Kunugita(2), Shoji Yamamoto(1), Keiichi Arashidani(3), Hidekazu Fujimaki(1)                                                        | (1)National Institute for Environmental Studies, (2)National Institute of Public Health, (3)University of Occupational and Environmental Health, Kitakyushu, Japan   |
| Effect of Oenothien B on cultured human                                                                                                   | Hideki Matsuoka(1), Morio Yoshimura(2),                                                                                                                       | (1) Division of Novel Foods and Immunochemistry, National Institute                                                                                                  |

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| dendritic cells                                                                                                      | Hiroshi Akiyama(1),<br>Kozue Sakata(1),<br>Yoshiaki Amakura(2),<br>Takashi Yoshida(2),<br>Reiko Teshima(1)                                                                                              | of Health Sciences, Tokyo, Japan, (2)<br>College of Pharmaceutical Sciences,<br>Matsuyama University, Ehime, Japan                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Effects of exposure to<br>low-dose arsenite on<br>degranulation of mast<br>cell ( 2 )                                | Yuri Shimizu,<br>Seiichiro Himeno                                                                                                                                                                       | Tokushima Bunri University, Faculty of<br>Pharmaceutical Sciences, Laboratory<br>of Molecular Nutrition and<br>Toxicology, Tokushima, Japan<br><br>(1) School of Nursing, University of<br>Shizuoka, Shizuoka, Japan, (2)<br>Research Center for Environmental<br>Risk, National Institute for<br>Environmental Studies, Tsukuba,<br>Japan, (3) Environmental Health<br>Sciences Division, National Institute<br>for Environmental Studies, Tsukuba,<br>Japan, (4) Department of Health<br>Sciences, Oita University of Nursing<br>and Health Sciences, Oita, Japan |
| Effects of acute<br>inflammation of<br>indigenous bacteria on<br>lung asbestosis.                                    | Kyoko Hiyoshi(1),<br>shoji Yamamoto(2),<br>Ken-ichiro Inoue(3),<br>Takamichi Ichinose(4)                                                                                                                | (1) School of Nursing, University of<br>Shizuoka, Shizuoka, Japan, (2)<br>Research Center for Environmental<br>Risk, National Institute for<br>Environmental Studies, Tsukuba,<br>Japan, (3) Environmental Health<br>Sciences Division, National Institute<br>for Environmental Studies, Tsukuba,<br>Japan, (4) Department of Health<br>Sciences, Oita University of Nursing<br>and Health Sciences, Oita, Japan                                                                                                                                                    |
| Immunological effects<br>of CD4+CD25+T cells<br>exposed to silica.                                                   | Hiroaki Hayashi(1),<br>Megumi Maeda(1),<br>Naoko Kumagai(1),<br>Yasumitsu<br>Nishimura(1),<br>Masayasu Kusaka(2),<br>Kouzou Uragami(3),<br>Takemi Otsuki(1)                                             | (1) Department of Hygiene,<br>Kawasaki Medical School, Kurashiki,<br>Japan, (2) Kusaka Hospital, (3)<br>Uragami Iin                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cytokine alteration and<br>speculated<br>immunological<br>pathology in silicosis<br>and asbestos-related<br>diseases | Takemi Otsuki(1),<br>Megumi Maeda(1),<br>Shuko Murakami(1),<br>Naoko Kumagai(1),<br>Hiroaki Hayashi(1),<br>Yoshie Miura(2),<br>Yasumitsu<br>Nishimura(1),<br>Masayasu Kusaka(3),<br>Takumi Kishimoto(4) | (1) Dept. Hygiene, Kawasaki Med.<br>Sch., Kurashiki, Japan, (2) Dept. Mol.<br>Genet., Med. Inst. Bioregulation,<br>Kyushu Univ., Fukuoka, Japan, (3)<br>Kusaka Hosp., Bizen, Japan,<br>(4) Okayama Rosai Hops., Okayama,<br>Japan                                                                                                                                                                                                                                                                                                                                   |
| Cytotoxicity study of<br>high-alumina low-silica<br>stone wool by cell<br>magnetometric<br>evaluation                | Yuichiro Kudo,<br>Sachiyo Mogi, Yumi<br>Komatsu, Etsuko<br>Ohta, Michiyo<br>Koyama, Yumiko<br>Sugiura, Masashi<br>Tsunoda, Yoshiharu<br>Aizawa                                                          | Department of Preventive Medicine<br>and Public health, Kitasato University<br>School of Medicine                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Effectiveness of self-<br>check software on the<br>website to prevent Sick<br>Building Syndrome                      | Hiroko Nakaoka(1,2),<br>Emiko Todaka(1,2),<br>Masamichi<br>Hanazato(2,3),<br>Chisato Mori(1,2,4)                                                                                                        | (1) Bioenvironmental Medicine,<br>Graduate School of Medicine, Chiba<br>University, Chiba, Japan, (2) Center<br>for Environment, Health and Field<br>Sciences, Chiba University, Kashiwa,<br>Chiba, Japan, (3) Department of<br>Architecture, Graduate School of<br>Engineering, Chiba University, Chiba,<br>Japan, (4) Center for Preventive                                                                                                                                                                                                                       |

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|                                                                                                                                                  |                                                                                                  | Medical Science, Chiba University,<br>Chiba, Japan                                                                                                                                                                                                                                     |
|                                                                                                                                                  |                                                                                                  | (1) Center for Environment, Health<br>and Field Sciences, Chiba University,<br>Kashiwa, Chiba, Japan, (2)                                                                                                                                                                              |
| The Current Situation<br>and Treatment of Sick-<br>Building Syndrome<br>Caused by Volatile<br>Organic Compounds<br>Including Flame<br>Retardants | Emiko Todaka(1,2),<br>Hiroko Nakaoka(1,2),<br>Masamichi<br>Hanazato(1,3),<br>Chisato Mori(1,2,4) | Bioenvironmental Medicine, Graduate<br>School of Medicine, Chiba University,<br>Chiba, Japan, (3) Department of<br>Architecture, Graduate School of<br>Engineering, Chiba University, Chiba,<br>Japan, (4) Center for Preventive<br>Medical Science, Chiba University,<br>Chiba, Japan |
|                                                                                                                                                  |                                                                                                  | (1) Center for Environment, Health<br>and Field Sciences, Chiba University,<br>Kashiwa, Chiba, Japan, (2)                                                                                                                                                                              |
| A Suggestion of Town<br>Planning to Prevent<br>Adverse Health Effect<br>by Environmental<br>Chemicals                                            | Masamichi<br>Hanazato(1,2),<br>Hiroko Nakaoka(1,3),<br>Emiko Todaka(1,3),<br>Chisato Mori(1,2,4) | Department of Architecture,<br>Graduate School of Engineering,<br>Chiba University, Chiba, Japan, (3)<br>Bioenvironmental Medicine, Graduate<br>School of Medicine, Chiba University,<br>Chiba, Japan, (4) Center for<br>Preventive Medical Science, Chiba<br>University, Chiba, Japan |
| Luncheon Seminar <1>                                                                                                                             |                                                                                                  |                                                                                                                                                                                                                                                                                        |
| Pharmacodynamic<br>endpoints in the<br>assessment of<br>immunotoxicity<br>forbiopharmaceutical<br>development                                    | Gregory Bannish                                                                                  | Department of Cell Biology &<br>Immunology, Huntingdon Life<br>Sciences Inc. (US)                                                                                                                                                                                                      |
| Luncheon Seminar <2>                                                                                                                             |                                                                                                  |                                                                                                                                                                                                                                                                                        |
| Pre-clinical Vaccine<br>Development and<br>Immune Monitoring                                                                                     | Lawrence Jacob                                                                                   | Charles River Laboratories                                                                                                                                                                                                                                                             |