

Oral Presentation Schedule

June 26	9:30-11:30	Session 1 O1–O6	Endocrine system/ Environmental toxicology
	15:00-17:45	Session 2 O7–O12	Carcinogenesis
June 27	9:00-10:45	Session 3 O13–O19	Mechanisms I (Liver)
	15:40-17:40	Session 4 O20–O27	Mechanisms II (Kidney, Immune system, Hematopoietic system, Nervous system)
	15:40-17:40	Session 5 O28–O33	Cardiovascular toxicology
June 28	9:00-10:30	Session 6 O34–O39	Nanomaterial toxicology
	9:00-11:00	Session 7 O40–O47	Toxicity evaluation, Alternative methods, Drug metabolism

Oral Presentations Session1; O-1 - O-6 June 26, 9:30-11:30

O-1 - O-3 : 9:30-10:15

O-1 Prenatal and neonatal exposure to bisphenol-A affects histone deacetylase(HDAC) expression

○ Daigo IKEGAMI 1, Minoru NARITA 1, Yuri TSURUKAWA 1, Keisuke MIZUO1,2, Satoshi IMAI 1,3, Keiichi NIIKURA 1, Masami SUZUKI 1, Tsutomu SUZUKI 1

1 Department of Toxicology Hoshi University School of Pharmacy and Pharmaceutical Sciences, 2 Research Center for Health Sciences of Nanoparticles Tokyo University of Science, 3 Department of Neurology Juntendo University of School of Medicine

O-2 In-utero and lactational exposure of PCB126 modulate BBN-induced rat mammary carcinogenesis

○ Yousuke KAMEI 1, Yasuko KOBAYASHI 1, Tomoko MUTO 2, Kiyofumi YOKOO 1, Hitoshi ENDOU 2,3, Yoshikatsu KANAI 2,4, Shin WAKUI 1

1 Department of Toxicology, Azabu University School of Veterinary Medicine, 2 Department of Pharmacology and Toxicology, Kyorin University School of Medicine, 3 Fuji Biomedix Co. Ltd., 4 Department of Pharmacology, Division of Bio-system Pharmacology, Osaka University Graduate School of Medicine

O-3 Expression of Steroid and Xenobiotic Receptor and its function in

human bone tissues

- Yasuhiro MIKI 1, Shuji NAGASAKI 1,2, Shuko HATA 1, Jun-ichi AKAHIRA 1, Takashi SUZUKI 3, Hironobu SASANO 1

1 Department of Pathology, Tohoku University Graduate School of Medicine, 2 Safety Research Department, ASKA Pharmaceutical Co., Ltd., 3 Department of Pathology, Tohoku University School of Health Sciences

O-4 - O-6 : 10:15-11:00

O-4 Effects of Bisphenol A on differentiation, proliferation and senescence in normal human mammary epithelial cells

- Hideko SONE 1, Hiroko ZAHA 1, Satoshi IMANISHI 1, Tomokazu FUKUDA 2, Yumi MATSUMOTO 1

1 Health Research Section, Research Center for Environmental Risk, National Institute for Environmental Studies, 2 Laboratory of Animal Breeding and Genetics, Graduate School of Agricultural Science, Tohoku University

O-5 Investigation of developmental anomaly caused by phenolic environmental chemicals

- Kazunobu BABA, Kazushi OKADA, Susumu IMAOKA

Kwansei Gakuin University, Department of Science and Engineering, Bioscience

O-6 Monitoring of PPCPs in Aquatic Environment and Chronic Toxicity of Diclofenac to Fish

- Masanori SEKI 1, Junji AZUMA 1, Ryuta ADACHI 1, Reiji KUBOTA 2, Kingo NAKAZONO 1

1 Kurume Laboratory, Chemicals Evaluation and Research Institute, Japan, 2 Division of Environmental Chemistry, National Institute of Health Sciences

Oral Presentations Session 2; O-7 - O-12 June 26, 15:00-16:30

O-7 - O-9 : 15:00-15:45

O-7 Influence of Connexin 32 expression on rat hepatocarcinogenesis

- Makoto ASAMOTO, Tomoyuki SHIRAI

Dept. of Exp. Pathology and Tumor Biology, Nagoya City University.

O-8 Development of oral carcinogenesis model using Hras128 transgenic rat

- Masumi SUZUI, Kuniko NAOI

Department of Medical Therapeutics and Molecular Therapeutics, Gifu Pharmaceutical University

O-9 Role of biological function of the aryl hydrocarbon receptor

- Yoko HIRABAYASHI 1, Guang-Xun LI 1, Byung-II YOON 1,2, Yoshiaki FUJII-KURIYAMA 3, Toyozo KANEKO 1, Yuji KUROKAWA 4, Jun KANNO 1, Tohru INOUE 5

1 Division of Cellular and Molecular Toxicology, Center for Biological Safety and Research, National Institute of Health Sciences, 2 Laboratory of Histology and Molecular Pathogenesis, School of Veterinary Medicine, Kangwon National University, 3 Tsukuba Advanced Research Alliance, University of Tsukuba, 4 Sasaki Institute, 5 Center for Biological Safety and Research, National Institute of Health Sciences

O-10 - O-12 : 15:45-16:30

O-10 In-utero and lactational exposure of PCB126 modulate BHP-induced rat lung carcinogenesis

- Yasuko KOBAYASHI 1, Tomoko MUTO 2, Kiyofumi YOKOO 1, Hitoshi ENDOU 2,3, Yoshikatsu KANAI 2,4, Shin WAKUI 1

1 Department of Toxicology, Azabu University School of Veterinary Medicine, 2 Department of Pharmacology and Toxicology, Kyorin University School of Medicine, 3 Fuji Biomedix Co. Ltd., 4 Department of Pharmacology, Division of Bio-system Pharmacology, Osaka University Graduate School of Medicine

O-11 Molecular expression analysis of drug metabolizing enzymes and cell cycle-related genes fluctuated during beta-naphthoflavone-induced tumor promotion in rats liver

- Yasuaki DEWA 1,2, Jihei NISHIMURA 1,2, Meilan JIN 1,3, Masaomi KAWAI 1,2, Yukie SAEGUSA 1,2, Makoto SHIBUTANI 1, Kunitoshi MITSUMORI 1

1 Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology, 2 Pathogenetic Veterinary Science, United Graduate School of Veterinary Sciences, Gifu University, 3 Department of Applied Biological Science, United Graduate School of Agricultural Sciences, Tokyo University of Agriculture and Technology

O-12 Sidestream smoke induces phosphorylation of histone H2AX

- Tatsushi TOYOOKA, Yuko IBUKI

Institute for Environmental Science, University of Shizuoka

Oral Presentations Session3 ; O-13 - O-19 June 27, 9:00-10:45

O-13 - O-16 : 9:00-10:00

O-13 Involvement of N-hydroxy metabolite and GSH in flutamide-induced hepatotoxicity

- Masaaki MIYATA 1, Masato OHBUCHI 1, Daichi NAGAI 2, Yasushi YAMAZOE 1
1 Division of Drug Metabolism and Molecular Toxicology, Graduate School of Pharmaceutical Sciences, Tohoku University, 2 Pharmaceutical Research Laboratories, Research & Development Group, Nippon Kayaku Co., Ltd.

O-14 Neutralization of IL-10 exacerbates cycloheximide-induced hepatocellular apoptosis and necrosis

- Kazuyoshi KUMAGAI, Kazumi ITO, Yosuke ANDO, Ryota KAWAI, Takashi YAMOTO, Munehiro TERANISHI, Sunao MANABE
Medicinal Safety Research laboratories, Daiichi-Sankyo Co., Ltd

O-15 Effects of chemicals inducing hepatic hypertrophy on serum total cholesterol level: for safety evaluation of chemicals

- Kiyomitsu NEMOTO 1, Akio KOBAYASHI 2, Midori YOSHIDA 3, Akiyoshi NISHIKAWA 3, Takahiro YASUDA 1, Masaki YAMADA 1, Masanori MIZUKAMI 1, Masashi SEKIMOTO 1, Kayoko SHIMOI 2, Hiroyuki SAKAKIBARA 2, Masakuni DEGAWA 1
1 Department of Molecular Toxicology, School of Pharmaceutical Sciences, University of Shizuoka, 2 Laboratory of Pathophysiology & Toxicology, Graduate School of Nutritional and Environmental Sciences, University of Shizuoka, 3 Division of Pathology, Biological Safety Research Center, National Institute of Health Sciences

O-16 Involvement of iPLA2 in troglitazone-induced mitochondrial toxicity

- Takuya OKUDA, ○ Yoshihisa SHITARA, Toshiharu HORIE
Department of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University

O-17 - O-19 : 10:00-10:45

O-17 Effects caused by carbon tetrachloride on the liver of pregnant and lactating rats

- Satomi SHIMIZU, Kazuhiko UMESHITA, Takashi KAMATA, Takahiro KITAZAWA, Takumi OISHI, Yoshinaka URAZOKO, Daichi NAKAMURA, Yoshito NISHIHARA, Hiroshi EDAMOTO, Masahiro MOCHIZUKI
Bozo Research Center Inc, Gotemba Laboratory

O-18 Toxicity of 2-(2'-hydroxy-3',5'-di-tert -butylphenyl)benzotriazole

(HDBB) in rats

- blood concentration and hepatic drug metabolizing enzyme activity –

- Mutsuko HIRATA-KOIZUMI 1, Kiyomi MATSUNO 2, Mitsuhiro KAWABATA 2, Kanako YAJIMA 2, Takashi MATSUYAMA 2, Akihiko HIROSE 1, Eiichi KAMATA 1, Makoto EMA 1
1 National Institute of Health Sciences, Biological Safety Research Center, 2 Shin Nippon Biomedical Laboratories, Ltd.

O-19 Identification of biomarker genes correlated with anemia in the rat liver treated with myelosuppressive compounds

- Chiaki KONDO, Takeki UEHARA, Toshiyuki MARUYAMA
Drug Safety Evaluation, Developmental Research Laboratories, Shionogi & Co., Ltd.

Oral Presentations Session4 ; O-20 - O-27 June 27, 15:40-17:40

O-20 - O-23 : 15:40-16:40

O-20 Role of Epithelial-mesenchymal transition in renal interstitial fibrosis induced by cisplatin

- Yoshiko KAWAI 1, Tomohiko SATOH 1, Yukihiro OHNO 1, Munekazu GEMBA 2
1 Laboratory of Pharmacology, Osaka University of Pharmaceutical Sciences, 2 Laboratory of Functional Morphology, Yokohama College of Pharmacy

O-21 Interaction of human organic anion transporters (hOATs) with contrast media, Iodipamide

- Naohiko ANZAI 1, Suparat KHAMDANG 1,2, Sunena SRIVASTAVA 1, Yoshikatsu KANAI 1,3, Hitoshi ENDOU 1,4
1 Department of Pharmacology and Toxicology, Kyorin University School of Medicine, 2 Faculty of Pharmaceutical Sciences, Ubon Rajathane University, Thailand, 3 Department of Pharmacology, Osaka University Graduate School of Medicine, 4 J-Pharma Co.Ltd.

O-22 Evaluation of nephrotoxicity by quantitative analysis of urinary kidney injury molecule 1

- Masafumi NAGATA 1, Kiyotaka MOCHIDUKI 2, Junji ONODA 2, Toshinaga TSUJI 2, Makiko ROKUSHIMA 1, Yutaka TONOMURA 1, Ryou FUKUSHIMA 1, Kae FUJISAWA 1, Chiaki KONDOU 1, Takeki UEHARA 1, Akiko ARAKI 2, Toru YANAGIMOTO 2, Manabu OKADA 1, Toshiyuki MARUYAMA 1
1 Developmental Research Laboratories, Shionogi & Co., Ltd., 2 Discovery Research Laboratories, Shionogi & Co., Ltd.

O-23 Renal toxicity in new born rats exposed to uranium acetate

○ Shino TAKEDA 1, Miyuki INOUE 1, Shyunji UENO 2, Mayumi NISHIMURA 1, Yoshiya SHIMADA 1

1 Research Center for Radiation Protection, National Institute of Radiological Sciences, 2 School of Veterinary medicine, Kitasato University

O-24 - O-27 : 16:40-17:40

O-24 Heat shock suppresses human NK cell cytotoxicity via regulation of perforin

○ Hideki HARADA 1,2, Toru MURAKAMI 3, Seow Shi TEA 3, Akira TAKEUCHI 4, Tomoaki KOGA 3, Seiji OKADA 1, Ann Suico MARY 3, Tsuyoshi SHUTO 3, Hirofumi KAI 3

1 Division of Hematopoiesis, Center for AIDS research, Kumamoto University, 2 Kashima Laboratory, Mitsubishi Chemical Safty Institute Ltd., 3 Department of Molecular Medicine, Global COE "Cell Fate Regulation Research and Education Unit", Kumamoto University, Graduate School of Pharmaceutical Sciences, 4 Department of Thermotherapy, Luke HP and Clinic

O-25 Role of hematopoietic microenvironment in prolonged impairment of B cell regeneration in aged mouse after 5-fluorouracil treatment

○ Isao TSUBOI 1, Yoko HIRABAYASHI 2, Tomonori HARADA 1, Yukio KODAMA 2, Jun KANNO 2, Tohru INOUE 3, Shin AIZAWA 1

1 Department of Functional Morphology, NihonUniversity School of Mrdicine, 2 Division of Cellural and Molecular Toxicology, Biological Safety Research Center,National Institute of Health Sciences, 3 Biological Safety Research Center,National Institute of Health Sciences

O-26 Early hemolytic anemia in Rats following a single administration of Acetylphenylhydrazine

○ Sayuri KOJIMA, Junya SASAKI, Mariko TOMITA, Yasufumi SYUTOH, Aya OHNUMA, Haruka TAJIMA, Toshinori YOSHIDA, Nobuaki NAKASHIMA, Takanori HARADA

The Institute of Environmental Toxicology

O-27 involvement of IL-1 in LPS-induced learning and memory deficits

○ Sachiko TANAKA 1, Kingo KANDA 1, Tomoya NAKAMACHI 2, Seiji SHIODA 2, Satoshi NUMAZAWA 1, Takemi YOSHIDA 1

1 Department of Biochemical Toxicology, School of Pharmaceutical Sciences, Showa University, 2
Department of Anatomy, School of Medicine, Showa University

Oral Presentations Session5 ; O-28 - O-33 June 27, 15:40-17:10

O-28 - O-30 : 15:40-16:25

O-28 The usefulness of Langendorff guinea pig heart model in drug-induced QT prolongation risk assessment

○ Ryuichi KOMATSU, Mitsuyasu TABO, Yuichiro YAMADA, Masaki HONDA, Kazuya KIMURA

Safety Assessment Dept., Chugai Pharmaceutical co., LTD.

O-29 Evaluation of drug-induced QT prolongation in halothane-anesthetized andconscious cynomolgus monkeys treated with sotalol

○ Tomomichi ISHIZAKA, Yu YOSHIMATSU, Minoru OZAWA, Tomofumi KIMOTSUKI, Sunao MANABE, Mitsuya YASUDA

Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.

O-30 Clinical significance of troponins as myocardial damage biomarkers in cynomolgus monkeys

○ Hirofumi MINOMO, Ayako SETOGUCHI, Hiroshi UCHINO, Takeshi FUKUDA, Yusuke TORIKAI, Hidetomi KADOKURA, Hiroshi MAEDA, Kazuhiro NAKAMA, Hiroshi TOKADO, Koichiro FUKUZAKI, Ryoichi NAGATA

Shin Nippon Biomedical Laboratories (SNBL), Ltd.

O-31 - O-33 : 16:25-17:10

O-31 Proarrhythmic effect of Moxifloxacin in Chronic AV Block Monkeys administered by intravenous infusion

○ Kengo SAKAMOTO 1, Kazuya TABATA 1, Yoshio WAKASA 1, Hiroko MIYAZAKI 1, Yuji MORIKAWA 1, Hiroyuki SASAKI 1, Toshiyasu HOMBO 1, Mamoru NOMURA 1, Atsushi SUGIYAMA 2,3

1 Ina Research Inc., 2 Department of Pharmacology, University of Yamanashi, 3 Yamanashi Research center of Clinical Pharmacology

O-32 Evaluation of the holter ECG in cynomolgus monkeys

- Sou WADA, Masahiko NAKASE, Atushi KUMANO, Norio HIKE, Yoshimasa KURATA, Keitarou HASHIMOTO, Seiji OOTAKE

Kashima Laboratory, Mitsubishi Chemical Safety Institute Ltd.

O-33 Electroretinographic assessment of rod and cone function in cynomolgus monkeys : Effects of intramuscular administration of digoxin

- Junzo KINOSHITA, Mitsuhiro OHBA, Takanori MAEJIMA, Yu YOSHIMATSU, Tomomichi ISHIZAKA, Tomofumi KIMOTSUKI, Mitsuya YASUDA

Medicinal Safety Research Laboratories, Daiichi-Sankyo Co., Ltd.

Oral Presentations Session6 ; O-34 - O-39 June 28, 9:00-10:30

O-34 - O-36 : 9:00-9:45

O-34 Acute toxicity of fullerene C60 to Daphnia magna

- Ryuta ADACHI 1, Saori FUJISHIMA 1, Yuki GONDO 1, Yoshiyuki INOUE 1, Masanori SEKI 1, Toshiki NOZAKA 1, Kingo NAKAZONO 1, Koji SUEMURA 2, Mineo TAKATSUKI 1

1 Chemicals Evaluation and Research Institute, Japan, 2 Frontier Carbon Corporation

O-35 Induction of mesothelioma by an intrascrotal administration of multi-wall carbon nanotube in male Fischer 344 rats

- Yoshimitsu SAKAMOTO 1, Nobutaka FUKUMORI 1, Shinichi UEHARA 1, Akihiko HIROSE 2, Tetsuji NISHIMURA 3, Akihiko MAEKAWA 4, Kiyoshi IMAI 5, Akio OGATA 1, Dai NAKAE 1

1 Department of Environmental Health and Toxicology, Tokyo Metropolitan Institute of Public Health,, 2 Division of Cellular and Molecular Toxicology, Biological Safety Research Center, National Institute of Health Sciences, 3 Division of Environmental Chemistry, National Institute of Health Sciences, 4 Safety Assessment Division, Chemical Management Center, National Institute of Technology and Evaluation, 5 Biosafety Research Center, Food, Drugs and Pesticides

O-36 Titanium dioxide particles induce phosphorylation of histone H2AX

- Takeharu AMANO, Tatsushi TOYOOKA, Yuko IBUKI

Institute for Environmental Science, University of Shizuoka

O-37 - O-39 : 9:045-10:30

O-37 Comparative Pulmonary Toxicity Study of Different Dispersions of Nano-TiO₂ Particles in Rats

- Masato NAYA, Orihiro KOBAYASHI, Shigehisa ENDOH, Kazuhiro YAMAMOTO, Junko

NAKANISHI

National Institute of Advanced Industrial Science and Technology

O-38 Analysis of biological behavior and acute toxicity of silica nanoparticles

○ Hiromi NABESHI 1,2, Tomoaki YOSHIKAWA 1,2, Toshiki SUGITA 1,2, Kazuya NAGANO 1,2, Haruhiko KAMADA 1,3, Takayoshi IMAZAWA 1, Shin-ichi TSUNODA 1,2,3, Yasuo TSUTSUMI 1,2,3

1 National Institute of Biomedical Innovation, 2 Graduate School of Pharmaceutical Sciences, Osaka University, 3 The Center for Advanced Medical Engineering and Informatics, Osaka University

O-39 Examination according to an electron microscope about the intracellular localization and cytotoxicity of nano material

○ Takayoshi IMAZAWA 1, Hikaru NISHIMORI 2, Shinichi TSUNODA 1,4, Tomoaki YOSHIKAWA 1,3, Hiromi NABESHI 1,2, Katsuhiro ISODA 2, Masuo KONDOH 2, Kiyohito YAGI 2, Yasuo TSUTSUMI 1,2,4

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Oral Presentations Session7 ; O-40 - O-47 June 28, 9:00- 11:00

O-40 - O-43 : 9:00- 10:00

O-40 Screening of skin irritation using monolayer cells

Xiaolin LI 1, Jian LI 1, Wei XIONG 1, ○ Lu QIU 1, Maki NAKAMURA 2, Yoshihiro YAMAGUCHI 2

1 Shanghai Entry-Exit Inspection and Quarantine Bureau of the People's Republic of China, 2 KOBAYASHI Pharmaceutical Co.,LTD. R & D Center

O-41 Inter-laboratoy calidation study of LLNA-BrdU

○ Hajime KOJIMA 1, Masahiro TAKEYOSHI 2, Takashi OMORI 3, Takashi SOZU 4, Kazunori ARIMA 5, Kenji IDEHARA 6, Yukiko KANAZAWA 7, Eiji MAKI 8, Naoto NAKAGIRI 9, Yoshiaki IKARASHI 1, Masashi TANAKA 10, Atsuko YUASA 11, Isao YOSHIMURA 12

1 National Institutes of Health Sciences, 2 Chemical Evaluation and Research, 3 Kyoto Univ. SPH, 4 Osaka Univ., 5 Taisho Pharmaceutical Co.,Ltd, 6 Daicel Chemical Industries, Ltd., 7 Food and Drug Safety Center, 8 Biosafety Research Center, Foods, Drugs and Pesticides, 9 OtsukaPharmaceutical Co., Ltd., 10 Meiji

Seika Kaisha, Ltd., 11 Fuji Photo Film Co.,Ltd., 12 TokyoUniversity of Science

O-42 Good skin compatibility of ultrasonic care for its irritation potential

○ Seok KWON 1, Sanae TAKEUCHI 1, Yasuhiro SATO 2

1 Kobe Technical Cetner, Procter & Gamble Japan K.K., 2 Home Appliances Group R&D Center, Matsushita Electric Works,Ltd.

O-43 Safety assessment of dietary administered paprika color in a chronic toxicity study using F344 rats

○ Tomoki INOUE, Machiko MAEDA, Toshiya OKAMURA, Yuji ISHII, Masako TASAKI, Takashi UMEMURA,Akiyoshi NISHIKAWA

Division of Pathology, Biological Safety Research Center, National Institute of Health Sciences

O-44 - O-47 : 10:00- 11:00

O-44 Role of phase II metabolizing enzymes in decreasing the mutagenic activity of Ungulates microsomes

○ Wageh SOBHAY, Mayumi ISHIZUKA, Kentaro SAKAMOTO, Shoichi FUJITA

Laboratory of Toxicology, Graduate school of Veterinary Medicine, Hokkaido University

O-45 Induction of Drug-metabolizing Enzymes by Indirubin in Neonatal Rat Liver

○ Kazumi SUGIHARA 1, Miyuki ARAI 1, Tatsuya KANAYAMA 1, Shigeyuki KITAMURA 1,2, Shigeru OHTA 1

1 Grad. Sch. of Biomed. Sci., 2 Nihon Pharm. Univ.

O-46 Mitochondrial glutathione transferase as a binding protein of toxic metabolite of acetoaminophen

○ Yoko ANIYA, Emi UCHIDA, Chihiro MIYAGI, Hossain QUAZI SOHEL, Mayumi SHIMOJI, Kang Kwang LEE

Laboratory of Molecular Genetics and Pharmacology, School of Health Sciences, University of the Ryukyus

O-47 Developmental Changes of Aldehyde Oxidase Activity in Liver Cytosol of Young Children

○ Yoshitaka TAYAMA 1, Chiaki TANOUE 2, Kazumi SUGIHARA 2, Katushi MIYAKE 1, Shigeyuki KITAMURA 2,3, Shigeru OHTA 2

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