

Program

Special Lecture 1

Day 1, January 25, Thursday 11:00 ~ 11:50 Venue 1 (Nirai Kanai banquet room, 6F)

Chair: Naoki Yoshimi (Department of Pathology and Oncology, Graduate School of Medicine, University of the Ryukyus)

SL1 Development of bioresources in Okinawa and toxicology

Yoko Aniya

Okinawa Institute of Science and Technology Graduate University

Special Lecture 2

Day 2, January 26, Friday 11:00 ~ 11:50 Venue 1 (Nirai Kanai banquet room, 6F)

Chair: Hideki Wanibuchi (Department of Molecular Pathology, Osaka City University Medical School)

SL2 Mechanisms of food allergy and oral immune tolerance in early infancy and possible diagnostic biomarkers of them

Hiroshi Kido, M.D., Ph.D.

Institute for Enzyme Research, Tokushima University

Symposium 1 Innovation of carcinogenic risk assessment

Day 1, January 25, Thursday 13:20 ~ 15:00 Venue 1 (Nirai Kanai banquet room, 6F)

Chair: Akiyoshi Nishikawa (National Institute of Health Sciences) •
Tetsuya Tsukamoto (Department of Diagnostic Pathology, Fujita Health University School of Medicine)

SY1-1 Early detection of risk of bladder carcinogenesis by immunohistochemistry for γ -H2AX

○ Takeshi Toyoda¹⁾, Kohei Matsushita¹⁾, Young-Man Cho¹⁾, Jun-ichi Akagi¹⁾,
Mizuki Sone^{1,2)}, Akiyoshi Nishikawa³⁾, Kumiko Ogawa¹⁾

¹⁾ Division of Pathology, National Institute of Health Sciences,

²⁾ Tokyo University of Agriculture and Technology,

³⁾ Biological Safety Research Center, National Institute of Health Sciences

SY1-2 The role of surfactant protein and application for assessment of the risk of carcinogenesis.

Masanao Yokohira

Onco-pathology, faculty of medicine, Kagawa university

SY1-3 Elucidation of molecular markers and establishment of rat model for early detection of prostatic carcinogens.

○ Shugo Suzuki, Aya Naiki-Ito, Hiroyuki Kato, Satoru Takahashi

Nagoya City University Graduate School of Medical Sciences Experimental Pathology and Tumor Biology

SY1-4 A novel gene expression-based short-term model for detecting genotoxic hepatocarcinogens

○ Min Gi, Masaki Fujioka, Ann Kakehashi, Hideki Wanibuchi

Department of Molecular pathology, Osaka City University Graduate School of Medicine

Symposium2 A safety assessment of nano-materials and its prospect

Day 2, January 26, Friday 8:50 ~ 10:50

Venue 1 (Nirai Kanai banquet room, 6F)

Chair: Masumi Suzui (Department of Molecular Toxicology, Graduate School of Medical Sciences and Medical School Nagoya City University) •

Kaori Miyata (Sumitomo Chemical Co., Ltd)

SY2-1 Nanomaterial respiratory toxicity monitored in rats after whole body inhalation.

Jun Kanno

Japan Bioassay Research Center, Japan Organization of Occupational Health and Safety

SY2-2 International trends and necessity of chronic effects information on risk assessment of nanomaterials

Akihiko Hirose

Division of Risk Assessment, Biological Safety Research Center, National Institute of Health Sciences

SY2-3 Nano-safety research of nanoparticles used in foods toward sustainable nanotechnology

○ Kazuma Higashisaka^{1,2}, Kazuya Nagano¹, Hiroshi Matsumoto², Yasuo Tsutsumi^{1,3}

¹Grad. Sch. Pharm. Sci., Osaka Univ., ²Grad. Sch. Med., Osaka Univ., ³MEIC, Osaka Univ.

SY2-4 Novel Antioxidative Nanotherapeutics by Nitroxide-radical Containing Polymer Nanoparticles

Yukio Nagasaki

Department of Materials Science and Medical Sciences, Satellite, University of Tsukuba, Tsukuba, Japan

Panel Discussion Expertise training for toxicologic pathologists and encouragement of their career design

Day 1, January 25, Thursday 15:10 ~ 17:10

Venue 1 (Nirai Kanai banquet room, 6F)

Chair: Midori Yoshida (Food Safety Commission of Japan, Cabinet Office) •

Mitsuru Kuwamura (Osaka Prefecture University)

PD-1 Current status of histopathology slide educational session for JSTP certification exam, and the role of toxicologic pathologists in drug development

Satoru Hosokawa

Global Drug Safety Research, Eisai Co., Ltd.

PD-2 Education and Postgraduate Career Guidance on Toxicologic Pathology in Japanese Veterinary Schools

Makoto Shibutani

Tokyo University of Agriculture and Technology

PD-3 Veterinary Education in the U.S. and Career Development Path for Toxicologic Pathologists

Hajime Hiraragi

Amgen Inc., Comparative Biology & Safety Sciences, South San Francisco, CA, USA

PD-4 A Comparison of Practice of Industrial Toxicologic Pathologists in Japan and the United States

Takayuki Tsuchiya

Department of Safety Assessment and Laboratory Animal Resources (West Point, PA U.S.A.), MR L, Merck & Co., Inc., Kenilworth, NJ, USA

Workshop Pathological aspects and the mechanisms in NASH models

Day 2, January 26, Friday 14:20 ~ 15:20

Venue 1 (Nirai Kanai banquet room, 6F)

Chair: Satoru Takahashi (Nagoya City University Graduate School of Medical Sciences) • Atsuhiko Kato (Chugai Pharmaceutical Co.,Ltd.)

WS-1 Role of systemic immunity in the progression of hepatic inflammation in a rat model of nonalcoholic steatohepatitis

○ Takeshi Izawa, Shoko Ohji, Machi Atarashi, Rena Miyagi, Ai Hashimoto, Mitsuru Kuwamura, Jyoji Yamete

Veterinary Pathology, Osaka Prefecture University

WS-2 * How does the hepatic lesion progress to fibrosis and tumor in a newly established murine model for NASH

○ Yui Terayama, Kazue Akira, Takashi Yamagiwa, Yuki Nakatani, Nanayu Oshima, Tsuyoshi Morio, Tetsuro Matsuura, Kiyokazu Ozaki

Laboratory of Pathology, Setsunan University

WS-3 * Effects of *trans* fatty acid and its substitute on NASH model by a modified CDAA diet

○ Noriko Kemuriyama¹, Kaori Ikehata¹, Takuya Yamashita¹, Kinuko Uno¹, Soon Hui Teoh¹, Shuji Ogawa², Atsushi Watanabe³, Katsuhiko Miyajima¹, Dai Nakae¹

¹Dept. Nutr. Sci. Food Safety, Facul. Appl. Biosci., Tokyo Univ. Agricul.,

²Zeria Pharmaceutical Co., Ltd., ³ASAHI KASEI MEDICAL CO., LTD.

WS-4 * Establishment a model of non-alcoholic steatohepatitis-related hepatocarcinogenesis in connexin 32 dominant negative transgenic rats

○ Aya Naiki-Ito^{1,2}, Hiroyuki Kato¹, Shugo Suzuki¹, Satoru Takahashi¹

¹Dept. Exp. Path. Tumor Biol., Nagoya City Univ., ²Pathol. Div., Nagoya City East Med. Ctr.

WS-5 Differences of pathological findings between two NASH model mice

○ Takahiro Okuno, Naomi Ishii, Anna Kakehashi, Masaki Fujioka, Min Wei, Hideki Wanibuchi

Department of Pathology, Osaka City University Graduate School of Medicine

Oral Presentation I Carcinogenic mechanism & cancer prevention

Day 1, January 25, Thursday 8:50 ~ 9:26

Venue 1 (Nirai Kanai banquet room, 6F)

Chair: Katsuhiko Yoshizawa (Mukogawa Women's University) • Mayumi Kawabe (DIMS Institute of Medical Science, Inc)

O-01 * Toxicity and mechanism of action of palmitoyl piperidinopiperidine

○ S Ando¹, H Matsumoto¹, K Fukamachi¹, M Futakuchi^{1,2}, N Yoshimi³, M Suzuki¹

¹Dept. Mol. Tox., Grad. Sch. Med. Sci., Nagoya City Univ., ²Dept. Path., Nagasaki Univ. Hosp.,

³Dept. Path. Oncol., Faculty of Medicine, Univ. of the Ryukyus

- O-02 Genotypic/phenotypic differences between DMBA- and PhIP-induced mammary adenocarcinomas in BALB/c-*p53*^{+/-} mice**
 ○ Yukino Machida¹⁾, Yukiko Sudo¹⁾, Naoaki Uchiya¹⁾, Masako Ochiai²⁾, Toshio Imai¹⁾
¹⁾Natl. Cancer Ctr. Res. Inst., Dep. Anim. Exp., ²⁾Natl. Cancer Ctr. Res. Inst., Ctr. Anim. Div.
- O-03 * Study of the mechanism of carcinogenesis by prenatal exposure to dimethylarsinic acid in mice**
 ○ Masaki Fujioka, Min Gi, Takahiro Okuno, Kenji Kumada, Anna Kakehashi, Yuji Oishi, Hideki Wanibuchi
 Dept. Mol. Path., Osaka city univ. grad. sch. med.

Oral Presentation II Toxic mechanism

Day 1, January 25, Thursday 9:26 ~ 10:14 Venue 1 (Nirai Kanai banquet room, 6F)
 Chair: Akira Inomata (Fujifilm Corporation) • Yoshiro Tani (Daiichi Sankyo Co., Ltd.)

- O-04 * Epithelial-Mesenchymal Transition in Cysts in the Choroid Plexus and Renal Tubules**
 ○ Atsuko Murai, Kenji Nakamura, Norifumi Takimoto, Kengo Namiki, Daisuke Hibi, Yukihiro Yanagizawa, Koji Shimouchi, Hiroyuki Yanagi
 Safety Research Laboratories, Discovery and Research, Ono Pharmaceutical Co., Ltd.
- O-05 DS-7250, a Diacylglycerol Acyltransferase 1 Inhibitor, Enhances Hepatic Steatosis in Zucker Fatty Rats Via Upregulation of Fatty Acid Synthesis**
 ○ Kazuyoshi Kumagai, Kyohei Yasuno, Takuma Iguchi, Kiyonori Kai, Kazuhiko Mori
 Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.
- O-06 * Histopathologic Characterization of Mifepristone-Induced Ovarian Toxicity in Cynomolgus Monkeys**
 ○ Yoshikazu Taketa¹⁾, Kanta Horie²⁾, Tetsuya Goto³⁾, Etsuko Ohta¹⁾, Kyoko Nakano-Ito¹⁾, Kazuhiro Hayakawa¹⁾, Yuki Seki¹⁾, Aya Goto¹⁾, Satoru Hosokawa¹⁾
¹⁾Tsukuba Drug Safety, Eisai, ²⁾Neurology Business Group, Eisai, ³⁾Sunplanet
- O-07 * Drug-Induced Fluorosis in Skeletal/Dental Tissues in Rodent Chronic Toxicity Studies**
 ○ Yuki Seki¹⁾, Kenichi Noritake²⁾, Yoshikazu Taketa¹⁾, Shoji Asakura¹⁾, Akiyo Otsuka¹⁾, Aya Goto¹⁾, Etsuko Ohta¹⁾, Kyoko Nakano¹⁾, Kazuhiro Hayakawa¹⁾, Jiro Sonoda¹⁾, Satoru Hosokawa¹⁾
¹⁾Eisai Co., Ltd., ²⁾Sunplanet Co., Ltd.

Oral Presentation III Biomarkers

Day 1, January 25, Thursday 10:14 ~ 10:50 Venue 1 (Nirai Kanai banquet room, 6F)
 Chair: Min Gi (Osaka City University Graduate School of Medicine) • Daisuke Hibi (ONO pharmaceutical Co.,Ltd.)

- O-08 * Short-term detection of gastric carcinogens using DNA double-strand break marker, γ -H2AX**
 ○ Asako Okabe¹⁾, Yuka Kiriyama¹⁾, Shugo Suzuki²⁾, Kouhei Sakurai¹⁾, Satoru Takahashi²⁾, Tetsuya Tsukamoto¹⁾
¹⁾Dept Diag Path, Fujita Health Univ Sch Med, ²⁾Dept Exp Pathol Tumor Biol, Nagoya City Univ

O-09 * Acute changes in histopathology and intravascular imaging after renal denervation in swine

○ Atsushi Sakaoka^{1,2)}, Akiyuki Takami³⁾, Yuji Onimura¹⁾, Hitomi Hagiwara¹⁾,
Hisako Terao¹⁾, Fumiaki Kumagai⁴⁾, Kiyoshi Matsumura²⁾

¹⁾Terumo, ²⁾Osaka Inst. of Technology, ³⁾Univ. of Fukui, ⁴⁾Hatano Res. Inst. FDSC

O-10 Potential biomarker for diagnosis of pancreas cancer

○ Katsumi Fukamachi¹⁾, Mitsuru Futakuchi¹⁾, Hiroyuki Tsuda²⁾, Masumi Suzui¹⁾

¹⁾Department of Molecular Toxicology, Nagoya City University Graduate School of Medical Sciences,

²⁾Nanotoxicology project, Nagoya City University

Poster Presentation I -1

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Kyoko Nakano(Ito) (Eisai Co.,Ltd.) • Hirofumi Hatakeyama (Ina Research Inc.)

P-01 CD44v6 expression in NNK-induced mouse lung adenocarcinoma

○ Keiko Yamakawa¹⁾, Masanao Yokohira¹⁾, Nozomi Hashimoto¹⁾, Yuko Narusawa¹⁾,
Shota Yoshida¹⁾, Kousuke Saoo^{1,2)}, Katsumi Imaida¹⁾

¹⁾Onco-Pathol., Fac. Med., Kagawa Univ., ²⁾Kaisei General Hosp.

P-02 * Minimal change disease of the kidney in a young Sprague-Dawley rat

○ Kyohei Yasuno, Kumi Honda, Shinobu Hakamata, Kiyonori Kai, Kazuhiko Mori
Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.

P-03 Mechanistic analysis of PhIP on carcinogenesis using mouse colon organoids

○ Toshio Imai¹⁾, Masako Ochiai¹⁾, Mie Naruse¹⁾, Yoshitaka Hippo²⁾

¹⁾Div. Anim. Exp., Natl. Cancer Ctr. Res. Inst., ²⁾Div. Mol. Carcinog., Chiba Cancer Ctr. Res. Inst.

P-04 Cytotoxicity of the crude extracts of *Musa basjoo* in human colon cancer cells

○ H Matsumoto¹⁾, S Ando¹⁾, K Fukamachi¹⁾, M Futakuchi^{1,2)}, N Yoshimi³⁾, M Suzui¹⁾

¹⁾Dept. Mol. Toxicol., Nagoya City Univ. Grad. Sch. Med. Sci. & Med. Sch.,

²⁾Dept. Pathol., Nagasaki Univ. Hosp., ³⁾Dept. Pathol. & Oncol., Univ. of the Ryukyus

P-05 Overcoming resistance to cetuximab with honokiol, a small-molecule polyphenol

○ Mari Iida¹⁾, Hannah E. Pearson¹⁾, Rachel A. Orbuch¹⁾, Nellie K. McDaniel¹⁾,
Kwangok P. Nickel¹⁾, Randall J. Kimple¹⁾, Jack Arbiser²⁾, Deric L. Wheeler¹⁾

¹⁾Department of Human Oncology, University of Wisconsin School of Medicine and Public Health

²⁾Department of Dermatology, Emory University School of Medicine, Winship Cancer Institute

Poster Presentation I -2

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Kaoru Inoue (National Institute of Health Sciences) • Masanao Yokohira (Kagawa University)

P-06 Proteome analysis in NASH liver tissue and associated hepatocellular carcinomas

○ Anna Kakehashi, Takahiro Okuno, Masaki Fujioka, Min Gi, Hideki Wanibuchi

Dept. Mol. Pathol. Osaka City Univ. Grad. Sch. Med.

- P-07 *** Responses of cellular senescence-linked cell metabolism-related molecules by genotoxic or non-genotoxic carcinogens in rats
○ Yuko Ito^{1,2)}, Kota Nakajima^{1,2)}, Yasunori Masubuchi^{1,2)}, Fumiyo Saito³⁾, Yumi Akahori³⁾, Toshinori Yoshida¹⁾, Makoto Shibutani¹⁾
¹⁾LVP, TUAT, ²⁾UGSVS, Gigu Univ., ³⁾Chem. Eval. Res. Inst.
- P-08** Effects of astragalus injection on early hepatocarcinogenesis in SD rats.
○ Meilan Jin, Qian Tang, Mei Zhang, Rendong Fang, Jian Wang, Zili Wang
Laboratory of Veterinary Pathology, College of Animal Science and Technology, Southwest University
- P-09 *** Chemopreventive effects of luteolin on pancreatic carcinogenesis
○ Hiroyuki Kato, Aya Naiki-Ito, Shugo Suzuki, Satoru Takahashi
Dep. Exp. Pathol. Tumor Biol., Nagoya City Univ.,
- P-10** Influence of strain difference of trans fatty acids on NASH-like lesions between Hsd rats and F344 rats fed with a CDAA diet.
○ Kinuko Uno, Ktsuhiro Miyjima, Soon Hui Teoh, Noriko Kemuriyama, Shuji Ogawa, Atsusi Watanabe, Dai Nakae
Facul. Agricul, Graduate School of Tokyo Univ. Agricul

Poster Presentation I -3

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Mihoko Ono (Astellas Pharma Inc.) • Shinji Takasu (National Institute of Health Science)

- P-11** Starvation-induced liver autophagy in aged mice
○ Seiichi Iizuka¹⁾, Miwa Nahata¹⁾, Hitomi Sekine¹⁾, Naoki Fujitsuka¹⁾, Hiroshi Takeda^{2,3)}
¹⁾Tsumura & Co.,
²⁾Pathophysiology and Therapeutics, Faculty of Pharmaceutical Sciences, Hokkaido University,
³⁾Hokkaido University Hospital Gastroenterological Medicine
- P-12 *** Multidirectional analyses of hepatic chronotoxicity induced by cadmium in mice
○ Hiroki Yoshioka^{1,2)}, Tsunemasa Nonogaki¹⁾, Yoshimi Ichimaru¹⁾, Katsumi Ohtani³⁾, Masumi Suzui²⁾, Nobuhiko Miura³⁾
¹⁾Kinjo Gakuin University, ²⁾Nagoya City University,
³⁾Japan National Institute of Occupational Safety and Health
- P-13** Analyses of mechanism on liver toxicity by CCA
○ Naofumi Takahashi¹⁾, Satoru Yamaguchi¹⁾, Ryoichi Ohtsuka¹⁾, Makio Takeda¹⁾, Yoshitaka Katoh¹⁾, Tsuyoshi Ito¹⁾, Aya Koyama¹⁾, Atsushi Shiga¹⁾, Yoshimasa Okazaki¹⁾, Toshinori Yoshida²⁾, Takanori Harada¹⁾
¹⁾The Institute of Environmental Toxicology, ²⁾Tokyo Univ. Agricul. Technol.
- P-14 *** Time dependent cytoprotective phenomenon of lipopolysaccharide in TAA-induced acute liver injury in rats
○ Mohammad Rabiul Karim, Munmun Pervin, Mizuki Kuramochi, Takeshi Izawa, Mitsuru Kuwamura, Jyoji Yamate
Veterinary Pathology, Osaka Prefecture University

Poster Presentation I -4

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Shugo Suzuki (Nagoya City University Graduate School of Medical Sciences) •
Noriko Tsuchiya (Shionogi&Co.,Ltd.)

- P-15 Effect of edaravone on cisplatin nephrotoxicity**
○ Natsumi Koike, Ayaka Sasaki, Rin Yamori, Tomoaki Murakami, Kazuhiko Suzuki
Tokyo University of Agriculture and Technology Faculty of Agriculture Cooperative Department of Veterinary Medicine
- P-16 * Effects of Dimethyl Fumarate on renal interstitial fibrosis**
○ Ayaka Sasaki, Natsumi Koike, Rin Yamori, Tomoaki Murakami, Kazuhiko Suzuki
Tokyo University of Agriculture and Technology, Faculty of Agriculture, Department of Veterinary Medicine
- P-17 * Transformation of renal tubular epithelial cell associated with decreased expression of HNF α**
○ Rin Yamori, Natsumi Koike, Ayaka Sasaki, Tomoaki Murakami, Tetsuya Furuya, Kazuhiko Suzuki
Tokyo University of Agriculture and Technology, Faculty of Agriculture, Cooperative Department of Veterinary Medicine
- P-18 High-throughput screening of the hypoxia pathway: examining promoter response and function**
○ Masato Yonezawa¹⁾, Shelley Force Aldred¹⁾, Nathan Trinklein¹⁾, Menghang Xia²⁾, Ruili Huang²⁾, Jim Hudson³⁾, Johanna Samuelsson¹⁾
¹⁾Active Motif Inc., ²⁾NIH Chemical Genomics Center, ³⁾Hudson Alpha Institute for Biotechnology
- P-19 * Catch up growth and immune organ development in DOHaD study**
○ Mai Todoroki, Mika Senuma, Fumiaki Kumagai, Yoshiaki Saito, Makiko Kuwagata
Hatano Research Institute Food and Drug Safety center

Poster Presentation I -5

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Kinji Kobayashi (Shin Nippon Biomedical Laboratories, Ltd.) •
Saori Matsuo (Chugai Pharmaceutical Co.,Ltd.)

- P-20 * Inhalation single toxicity studies of 1-methylnaphthalene in rats and mice: Histopathological Aspect**
○ Mi Ju Lee
Inhalation Toxicity Research Center, Occupational Safety and Health Research Institute
- P-21 Respiratory lesions induced in rats after inhalation exposed to Methyl Acrylate for 13 weeks.**
○ Kenji Takanobu, Hideki Senoh, Yumi Umeda, Shigetoshi Aiso, Jun Kanno
Japan Bioassay Research Center, JOHAS
- P-22 Nasal Cavity Neoplastic/Non-neoplastic lesion induced by 104-week whole body inhalation exposure to Methyl Acrylate in rats**
○ Hideki Senoh, Kenji Takanobu, Yumi Umeda, Shigetoshi Aiso, Jun Kanno
Japan Bioassay Research Center, JOHAS

- P-23 * Myocardial damage induced in rats by a single dose of combretastatin A4 disodium phosphate**
○ R Tochinai¹⁾, K Komatsu¹⁾, J Murakami¹⁾, Y Nagata¹⁾, M Ando¹⁾, C Hata¹⁾, T Suzuki¹⁾, S Kado¹⁾, T Kobayashi¹⁾, M Kuwahara²⁾
¹⁾Yakult Cent. Inst., ²⁾Dep. of Vet. Pathophysiol. and Anim. Health, The Univ. of Tokyo

Poster Presentation I -6

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)
Chair: Chihiro Noguchi (TAISHO PHARMACEUTICAL CO., LTD.) • Akihiro Hirata (Gifu University)

- P-24 * Studies on the tumor-promoting activity of alpha-linolenic acid-enriched diacylglycerol oil**
○ Hiroshi Honda¹⁾, Taisuke Kawamoto¹⁾, Yuko Doi²⁾, Takuya Mori¹⁾, Shoji Matsumura¹⁾, Norio Imai²⁾, Yukinori Mera²⁾, Yuichi Ito¹⁾, Osamu Morita¹⁾
¹⁾Kao Corporation, ²⁾DIMS Institute of Medical Science, Inc.
- P-25 A 26-week Short-term Carcinogenesis Bioassay of Organic Germanium, poly-trans-[(2-carboxyethyl) germasesquioxane] (Ge-132) using rasH2 Mice**
○ Yuko Doi¹⁾, Norio Imai¹⁾, Mayuko Suguro¹⁾, Mayumi Kawabe¹⁾, Isao Sato²⁾
¹⁾DIMS Institute of Medical Science, Inc., ²⁾Asai Germanium Research Institute Co., Ltd.
- P-26 * Immunohistochemical examination of a tumor observed in the liver**
○ Du Mu, Guo Hui, Zhang Yuexiang, Liu Xiangjiang, Zhang Weijuan, Ji Xiaoxia, Guo Maowu, Yasuhiko Hirouchi
JOINN Laboratories
- P-27 * Study on toxicity of o-Acetoacetotoluidide (AAOT) Kenji Kumada Dept. Mol. Path., Osaka City Univ. Graduate Sch. Medicine**
○ Kenji Kumada, Takahiro Okuno, Min Gi, Masaki Fujioka, Nao Yukimatsu, Anna Kakehashi, Hideki Wanibuchi
Department of Molecular Pathology Osaka City University Medical School
- P-28 Immunohistochemical characteristics of proliferative lesions in Wistar Hannover rat thymus**
○ Yuki Tomonari, Junko Sato, Tetsuro Kurotaki, Ryosuke Kobayashi, Takuya Doi, Takeshi Kanno, Minoru Tsuchitani
LSIMedience Corporation, Pathology Department

Poster Presentation I -7

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)
Chair: Hideshi Kaneko (TEIJIN PHARMA LIMITED) • Akiko Nakamura (JAPAN TOBACCO INC.)

- P-29 Oral toxicity study of neonicotinoid pesticide dinotefuran in CD-1 mice**
○ Yukie Tada, Toyohito Tanaka, Kiyomi Ikushima, Toshinari Suzuki, Akiko Inomata, Takako Moriyasu
Tokyo Metropolitan Institute of Public Health

- P-30 *** **Comparison between MNU manufacturing facilities concerning the medium-term multi-organ carcinogenesis bioassay**
○ Taiki Sugiyama, Kazunari Uda, Hitomi Higuchi, Yuko Doi, Akihiro Hagiwara, Yukinori Mera
DIMS Institute of Medical Science, Inc.
- P-31 *** **The high incidence of amyloidosis in control ICR mice in carcinogenicity studies: Comparison to historical controls (2nd report)**
○ Tsuyoshi Ito, Yoshitaka Katoh, Emi Makino, Aya Koyama, Naofumi Takahashi, Atsushi Shiga, Yoshimasa Okazaki, Takanori Harada
The Institute of Environmental Toxicology (IET)
- P-32 *** **Comparative study of pathological characteristics of rat mesotheliomas induced by MWCNT and chrysotile**
○ Motoki Hojo¹⁾, Yoshimitsu Sakamoto¹⁾, Yukio Yamamoto¹⁾, Yuko Hasegawa¹⁾, Shiho Murakami¹⁾, Ai Maeno¹⁾, Akihiko Hirose²⁾, Dai Nakae³⁾
¹⁾Tokyo Metropol. Inst. Pub. Health, ²⁾Natl. Inst. Health Sci., ³⁾Tokyo Univ. Agricul.

Poster Presentation I -8

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Hiroaki Kawaguchi (Kagoshima University.) •
Kimiaki Hirakawa (Shin Nippon Biomedical Laboratories, Ltd.)

- P-33** **A 90-day oral toxicity study of vanillin propylene glycol acetal (vanillin PGA) in rats**
○ Takanori Yamada^{1,2)}, Kohei Matsushita¹⁾, Takeshi Toyoda¹⁾, Tomomi Morikawa¹⁾, Miwa Takahashi¹⁾, Kaoru Inoue¹⁾, Kumiko Ogawa¹⁾
¹⁾Div. Pathol., Natl. Inst. Health Sci., ²⁾LVP, Tokyo Univ. Agri. Tech.
- P-34 *** **13-week subchronic toxicity study of isoeugenol methyl ether in F344 rats**
○ Jun-ichi Akagi, Young-Man Cho, Yasuko Mizuta, Kumiko Ogawa
Div. Pathology, Natl. Inst. Health Sci.
- P-35 *** **Characteristic pathological changes in nuclei of ADC drug-treated animals**
○ Mingshu Huang, Toko Ohira, Liang He, Jingjing Mao, Jianyan Yan, Tiantian Cui, Minbo Hou, Hua Li, Jing Ma
National Shanghai Center for New Drug Safety Evaluation and Research
- P-36** **Investigation on carcinogenicity study of prescription drugs -Part I-**
○ Jihei Nishimura¹⁾, Mizuho Nonaka¹⁾, Misaki Naota¹⁾, Satoshi Tsunoda¹⁾, Yukie Saegusa¹⁾, Hiroshi Doguchi¹⁾, Hiroshi Onodera¹⁾, Osamu Fueki¹⁾, Kazutoshi Shinoda¹⁾, Kumiko Ogawa²⁾, Akiyoshi Nishikawa²⁾
¹⁾PMDA, ²⁾NIHS

Poster Presentation I -9

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Satoshi Suzuki (Taiho Pharmaceutical Co.,Ltd.) • Tomonari Nishimura (Asubio Pharma Co.,Ltd.)

- P-37 *** Time course study on histopathological changes of the peripheral nerve in experimental autoimmune neuritis rats
○ Emi Tomikawa, Mayu Mutsuga, Kojiro Hara, Chihiro Kaneko, Tomoya Miyoshi, Naoko Imura, Yuko Togashi, Ryoji Hayashi
Pharmaceutical Research Laboratories, Toray Industries, Inc.
- P-38 *** Histopathological examination of ocular lesions in leptin receptor-knockout medaka
○ Shin-ichi Chisada¹⁾, Ayano Hirako²⁾, Akihiko Sugiyama²⁾
¹⁾School of Medicine, Kyorin University, ²⁾Faculty of Agriculture, Tottori University
- P-39** Inhibition of atherosclerosis in ApoE-knockout mice by mangosteen extracts and the mechanism analysis
○ Masa-Aki Shibata¹⁾, Mariko Harada-Shiba²⁾, Eiko Shibata²⁾, Kentaro Maemura¹⁾, Yoichi Kondo¹⁾
¹⁾Dept of Anat & Cell Biol, Osaka Med Coll, ²⁾Dept of Mol Innov Lipidol, Natl Cereb & Cardiovasc Centr Res Inst
- P-40** Protective effects of Japanese soybean paste (miso) on SHRSP
○ H Watanabe¹⁾, M Sasatani²⁾, K Satoh²⁾, Y Miyasaka³⁾, M Yoshizumi¹⁾
¹⁾Dept Cardiovascular Physiol Med, Inst Biom Health Sci, Hiroshima Univ, ²⁾Dept Envir Biomet, Res Inst Radiat Biol Med, Hiroshima Univ, ³⁾Shinsyu-ich Miso

Poster Presentation I -10

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Takeshi Izawa (Osaka Prefecture University) • Kousei Inui (Ishihara Sangyo Kaisha,Ltd.)

- P-41 *** Inhibitory Effects of Mead Acid Supplementation on Green Tea Extract-Induced Hepatototoxicity
○ A Takenouchi¹⁾, Y Emoto²⁾, Y Kinoshita³⁾, K Hamazaki⁴⁾, A Tsubura⁵⁾, K Yoshizawa¹⁾
¹⁾Mukogawa Women's Univ., ²⁾Kansai Med. Univ., ³⁾Wakayama Med. Univ. Hospital, ⁴⁾Public Health-Univ.of Toyama, ⁵⁾Pref Osaka Saiseikai Izuo Hospital
- P-42 *** Damage associated molecular patterns (DAMPs) and the related signals in thioacetamide (TAA)-injected rat liver injury
○ Mizuki Kuramochi, Takeshi Izawa, Munmun Pervin, Mohammad Rabiul Karim, Mitsuru Kuwamura, Jyoji Yamate
Veterinary Pathology, Osaka Prefecture University
- P-43 *** Histopathological Analysis of Young and Aged Female SDT Fatty Rats
○ Soon Hui Teoh¹⁾, Katsuhiko Miyajima¹⁾, Takeshi Ohta²⁾, Masami Shinohara³⁾, Kinuko Uno¹⁾, Noriko Kemuriyama¹⁾, Dai Nakae¹⁾
¹⁾Grad. Sch. of Agricul.Tokyo Univ of Agricul., ²⁾Central Pharma. Research Inst. Japan Tobacco Inc, ³⁾Tokyo AD Dept. CLEA Japan Inc

- P-44 *** **The effects of SLE therapeutic medication and histopathological examination on LPS-induced early nephritis develop model in NZB/W F1 mice**
○ Tomomi Kanehara, Yasuhiro Ohshiba, Jun Imai, Shiori Murase, Tadashi Itoh, Hitoshi Kimura
Nihon Bioresearch Inc.
- P-45** **Effect of NaCl supplementation on renal complications in SDT fatty rat**
○ Katsuhiko Miyajima^{1,2)}, Takeshi Ohta³⁾, Masami Shinohara⁴⁾, Hinako Iwasaki¹⁾, Soon Hui Teoh²⁾, Kinuko Uno²⁾, Noriko Kemuriyama¹⁾, Dai Nakae^{1,2)}
¹⁾Tokyo Univ. Agricul., ²⁾Dept. Food Nutr. Sci., Grad. Sch. TUA., ³⁾Japan Tobacco Inc., ⁴⁾CLEA Japan Inc.

Poster Presentation I -11

Day 1, January 25, Thursday 17:20 ~ 18:20 Poster Room (Shell Hall banquet room, 7F)

Chair: Tomo Sasaki (Maruho Co.,Ltd.) • Atsushi Watanabe (Asahi Kasei Medical Co.,Ltd.)

- P-46** **Development of canine model with large cartilage defects on femoral condyles**
○ M. Tasaki¹⁾, T. Hirai¹⁾, M. Akiyama¹⁾, Y. Itou¹⁾, K. Nakazawa¹⁾, Y. Harada²⁾, K. Nagano³⁾, H. Hagiwara¹⁾
¹⁾Terumo Corp., ²⁾Div. of Vet. Surg., Nippon Veterinary and Life Science Univ.,
³⁾Nagano Toxicologic-Pathology Consulting
- P-47 *** **Histopathology of inflammatory response through ERs in allergic dermatitis mice model**
○ Aya Koyama, Risako Tajiki, Yuko Watanabe, Tomoki Fukuyama, Yoshitaka Katoh, Emi Makino, Tsuyoshi Ito, Naofumi Takahashi, Atsushi Shiga, Yoshimasa Okazaki, Takanori Harada
The Institute of Environmental Toxicology
- P-48** **The world's leading rat resource center: the National BioResource Project-Rat**
○ Miyuu Tanaka, Arata Honda, Birger Voigt, Yuki Neoda, Kazumi Hagiwara, Zong-hu Cui, Ryoma Tachibana, Tomomi Nagao, Satoshi Nakanishi, Ken-ichi Yamasaki, Takashi Kuramoto, Masahide Asano
Kyoto University
- P-49** **A 13-week repeated oral dose toxicity study of 2-furanmethanethiol in F344 rats.**
○ Liang Shi^{1,3)}, Yuji Ishii¹⁾, Shinji Takasu¹⁾, Takuma Tsuchiya¹⁾, Aki Kijima¹⁾, Kumiko Ogawa¹⁾, Akiyoshi Nishikawa²⁾, Takashi Umemura¹⁾
¹⁾Div.Pathol., NIHS, ²⁾Biol.Safety Res.Ctr.,NIHS, ³⁾Lab.Exp.Pathol., Univ.Tsukuba

Poster Presentation II -1

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Takashi Kotera (Nippon Shinyaku Co.,Ltd.) • Junko Shinozuka (Chugai Pharmaceutical Co.,Ltd.)

- P-50 *** **An immunohistochemical study to differentiate cardiomyocyte necrosis**
○ Yuichi Takai, Hitoshi Kandori, Takeshi Watanabe
Drug Safety Research and Evaluation, Research, Takeda Pharmaceutical Company Limited

- P-51 Quantitative evaluation of organelles using image analysis software ImageJ — Stomach surface mucous cell alteration of PGE2 treated mouse —**
○ Kanata Ibi, Tohru Kihara, Yumi Kangawa, Toshiyuki Shibanushi, Hiroyuki Takabe, Kazuto Hashimoto
Kaken Pharmaceutical Co.,Ltd.
- P-52 Adjuvant effects of transcutaneously exposed cholera toxin and its B subunit in skin sensitization model**
○ Young-Man Cho, Yasuko Mizuta, Jun-ichi Akagi, Takeshi Toyoda, Kumiko Ogawa
Division of Pathology, National Institute of Health Sciences
- P-53 Contribution of toxicologic pathologists to choosing appropriate histopathological findings as endpoints for benchmark dose (BMD) approach in toxicological evaluation of chemicals**
○ Midori Yoshida¹⁾, Takashi Umemura²⁾
¹⁾Food Safety Commission of Japan, Cabinet Office, ²⁾Yamazaki Gakuen University
- P-54 An approach for assessing mild irritants in the Bovine Corneal Opacity and Permeability Test (BCOP test) includes a histopathological examination**
○ Kouta Itoh, Masatoshi Furukawa, Chihiro Endoh, Masao Matsuura
SAFETY RESEARCH INSTITUTE FORCHEMICAL COMPOUNDS CO., LTD

Poster Presentation II-2

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Mami Kouchi (Sumitomo Dainippon Pharma Co.,Ltd. Preclinical Research Unit) • Takahisa Noto (Santen Pharmaceutical Co.,Ltd)

- P-55 * Histopathological changes of autonomic nerves induced by Paclitaxel in rats**
○ Kenji Nakamura, Yu Yokoo, Moutou Ou, Koji Shimouchi, Atsuko Murai, Kengo Namiki, Masanori Kuribayashi, Hiroyuki Yanagi
Safety Research Laboratories, Discovery and Research, ONO Pharmaceutical Co., Ltd.
- P-56 * Cellular identification of MT⁺ cells increased in the hippocampal dentate gyrus and cerebellum by developmental exposure to T-2 toxin in mice**
○ Kota Nakajima^{1,2)}, Yuko Ito^{1,2)}, Yasunori Masubuchi^{1,2)}, Toshinori Yoshida¹⁾, Makoto Shibutani¹⁾
¹⁾LVP, Tokyo Univ. Agricul. Technol., ²⁾United Grad. Sch. Vet. Sci., Gifu Univ.
- P-57 Neuroprotection on the disruptive hippocampal neurogenesis induced by developmental hypothyroidism in rats**
○ Yasunori Masubuchi^{1,2)}, Kota Nakajima^{1,2)}, Yuko Ito^{1,2)}, Mihoko Koyanagi³⁾, Shim-mo Hayashi³⁾, Toshinori Yoshida¹⁾, Makoto Shibutani¹⁾
¹⁾LVP, TUAT, ²⁾UGSVS, Gifu Univ., ³⁾San-Ei Gen F.F.I., Inc
- P-58 * Histological features of the eye in the juvenile white rabbit**
○ Yoshinori Yamagiwa, Shingo Nemoto, Hideyuki Sakaki, Masaaki Kurata
Research and Development Division, Senju Pharmaceutical, Co., Ltd.

P-59 Classification of Lung Cancer Types from Cytological Images Using Deep Convolutional Neural Networks

○ Tetsuya Tsukamoto¹⁾, Yuka Kiriyama^{1,2)}, Atsushi Teramoto³⁾

¹⁾Dept Diag Path, Fujita Health Univ Sch Med, ²⁾Dept Diag Path, Narita Memorial Hosp,

³⁾Fac Radiol Tech, Sch Health Sci, Fujita Health Univ

Poster Presentation II-3

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Junko Fujishima (Shin Nippon Biomedical Laboratories, Ltd.) •

Toshihiko Makino (Daiichi Sankyo Co.,Ltd.)

P-60 * Cardiac lesions in cynomolgus monkey with food restriction

○ Saori Matsuo¹⁾, Nozomi Fujisawa¹⁾, Tomochika Matsushita¹⁾, Shuji Hayashi¹⁾,
Junko Shinozuka¹⁾, Akio Miyoshi¹⁾, Masami Suzuki^{1,2)}, Atsuhiko Kato¹⁾

¹⁾Chugai Pharmaceutical Co., Ltd., ²⁾Forerunner Pharma Research Co., Ltd

P-61 * Expression analysis of AKAP13 and ROCK inhibition assay in mouse DSS-induced colitis

○ Y Kangawa^{1,2)}, T Yoshida²⁾, H Murayama^{1,2)}, K Ibi¹⁾, T Kihara¹⁾, K Kuzutani¹⁾,
M Koyanagi³⁾, SM Hayashi³⁾, M Shibutani²⁾

¹⁾Kaken Pharmaceutical Co., Ltd., ²⁾Lab. Vet. Pathol., Tokyo Univ. Agric. Technol., ³⁾San-Ei Gen F. F. I., Inc.

P-62 Historical Data for the Histopathology on the Kidneys in Juvenile Crl:CD(SD) rats

○ Saki Inoue¹⁾, Hirofumi Hatakeyama¹⁾, Yoshihiro Takei¹⁾, Jun Watanabe¹⁾,
Haruko Koizumi¹⁾, Tetsuyo Kajimura¹⁾, Akihito Shimoi¹⁾, Shin-ichi Sato¹⁾, Hijiri Iwata²⁾

¹⁾Ina Research Inc., ²⁾LunaPath LLC.

P-63 * Historical Data for the Histopathology on the Skin in Juvenile Crl:CD(SD) Rats

○ Jun Watanabe¹⁾, Hirofumi Hatakeyama¹⁾, Yoshihiro Takei¹⁾, Saki Inoue¹⁾,
Haruko Koizumi¹⁾, Tetsuyo Kajimura¹⁾, Akihito Shimoi¹⁾, Shin-ichi Sato¹⁾, Hijiri Iwata²⁾

¹⁾Ina Research Inc., ²⁾LunaPath LLC.

P-64 * Spontaneous lesions spectrum in male and female F344 *gpt* delta rats in two years breeding

○ Kohei Matsushita¹⁾, Aki Kijima¹⁾, Yuji Ishii¹⁾, Shinji Takasu¹⁾, Ken Kuroda¹⁾,
Takehiko Nohmi²⁾, Kumiko Ogawa¹⁾, Takashi Umemura^{1,3)}

¹⁾Div. Pathol., NIHS., ²⁾Div. Genet. Mutat., NIHS., ³⁾Fac. Anim. Sci. Tech., Yamazaki Gakuen Univ.

Poster Presentation II-4

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Seiichi Iizuka (Tsumura & Co.) •

Hitoshi Kandori (Axcelead Drug Discovery Partners, Inc. Nonclinical Safety Research)

P-65 * Histopathological features of female genitals in IS/Kyo rats up to 30 weeks of age — Relationship with a decline of the pregnancy and the implantation rate —

○ Hiromu Okano, Yuko Yamaguchi, Saori Igura, Isamu Suzuki, Tsubasa Saito,
Toru Hoshiya

Pathology Department, BoZo Research Center Inc.

- P-66 *** **Background data of atypical residual bodies in the testes of CrI:CD1(ICR) mice**
○ Chisato Hayakawa, Masayuki Kimura, Yusuke Kuroda, Seigo Hayashi,
Kazuya Takeuchi, Satoshi Furukawa
Biological Research Laboratories, Nissan Chemical Industries, Ltd.
- P-67** **Histological development of Leydig cells in microminipigs**
○ Akihisa Kangawa, Masayoshi Otake, Satoko Enya, Masatoshi Shibata
Shizuoka Prefectural Research Institute of Animal Industry, Swine and Poultry Research Center
- P-68 *** **Classification of spermatogenesis cycle for evaluation of testicular toxicity in Göttingen Minipigs**
○ Naoaki Yamada, Yumi Wako, Hiroko Kokoshima, Takuya Doi, Takeshi Kanno,
Minoru Tsuchitani
LSI Medience Corporation, Nonclinical Research Center, Pathology Department

Poster Presentation II -5

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)
Chair: Kiyokazu Ozaki (Setsunan University) • Yutaka Nakahara (Astellas Pharma Inc.)

- P-69** **Granulomatous meningitis in a beagle dog showing neurological signs by compound administration**
○ Hikaru Mitori¹⁾, Naoto Horai²⁾, Satoru Kajikawa¹⁾, Mihoko Ono¹⁾
¹⁾ Drug Safety Research Labs., Astellas Pharma Inc.,
²⁾ Drug Safety Research Labs., Shin Nippon Biomedical Laboratories Ltd.
- P-70 *** **A spontaneous intrathoracic carcinosarcoma in a Sprague-Dawley rat : a case report**
○ Kei Kijima, Miki Suehiro, Shino Ito, Aisuke Nii
Central Research Lab., Seikagaku Co.
- P-71 *** **A spontaneous tubular adenocarcinoma (well differentiated type) in the jejunum of young SD rat**
○ Yoshiji Asaoka, Koichi Masuno, Kae Fujisawa, Yutaka Tonomura, Minako Tajiri,
Yuki Kato, Emi Kashiwagi, Noriko Tsuchiya, Mikinori Torii, Motonobu Ueno
Research Laboratory for Development, Shionogi & Co, Ltd
- P-72** **Cecal hamartoma in the dog with cecocolic intussusception**
○ Mihoko Ono, Miwa Takahashi, Yutaka Nakahara, Kenjiro Tsubota,
Masahiro Matsumoto
Drug Safety Research Labs., Astellas Pharma Inc.

Poster Presentation II -6

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)
Chair: Kaoru Toyosawa (Sumika Chemical Analysis Service, Ltd.) •
Yuko Yamaguchi (BOZO Research Center Inc.)

- P-73** **A case of acute hemorrhagic gastritis with necrotic arteritis in mini pig**
○ Hiro Eda, Hirotohi Akane, Atsuko Ichikawa, Shigekazu Shimizu, Hiroyuki Komatsu,
Yasuki Akie
CMIC Pharma Science Co., Ltd.

- P-74 Method for Sequential Cerebrospinal Fluid Collection from Diurnal Microminipigs**
○ Hiroaki Kawaguchi¹⁾, Masaharu Abe¹⁾, Mihar Ushikai¹⁾, Sayumi Oi²⁾, Airo Yukawa²⁾,
Tetsuya Yoshikawa²⁾, Hiroyuki Izumi²⁾, Akihide Tanimoto¹⁾, Masahisa Horiuchi¹⁾
¹⁾Kagoshima University, ²⁾Shin Nippon Biomedical Laboratories, Ltd.
- P-75 * Segmental aplasia of uterine horn in two RccHan:WIST rats**
○ Yukako Shimotsuma, Shuji Takeda, Keiko Ogata, Masahiko Kushida
Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd.
- P-76 * Histopathological Investigation of Mammary Tumor in a Young Male SD Rat**
○ Shota Yoshida, Hideki Tanaka, Fumiko Ninomiya, Kenji Matsubara, Hiromi Yamamoto,
Satoshi Suzuki, Fumio Morita, Kazuo Hakoi
Discovery and Preclinical Research Division, Taiho Pharmaceutical Co., Ltd.

Poster Presentation II -7

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Tetsuro Kurotaki (LSI Medience Corporation) •
Izumi Matsumoto (Sumitomo Dainippon Pharma Co.,Ltd.)

- P-77 * Cutaneous hemangiosarcoma with pulmonary metastasis in a young adult Wistar rat**
○ Shino Suzuki, Rie Takagi, Kazuya Hirai, Junya Hirata, Yukiko Takeuchi-Kashimoto,
Mie Watanabe-Akanuma
Kureha Corporation, Safety Research Center
- P-78 Dedifferentiated liposarcoma of retroperitoneum spontaneously occurred in aged SD rat.**
○ Tomoharu Naito^{1,2)}, Tsuyoshi Saito²⁾, Tamami Higuchi¹⁾, Akira Inomata¹⁾,
Takuo Hayashi²⁾, Atsuko Yamauchi¹⁾, Sayaka Kemmochi¹⁾, Chihaya Kakinuma^{1,2)},
Takashi Yao²⁾
¹⁾FujiFilm Co., ²⁾Dept Human Pathology, School of Medicine, Juntendo Univ
- P-79 Subcutaneous tumor in a NOG mouse**
○ Hirotohi Akane, Hiro Eda, Atsuko Ichikawa, Shigekazu Shimizu, Hiroyuki Komatsu,
Yasuki Akie
CMIC Pharma Science Co., Ltd.
- P-80 Hydropic degeneration with hyaline droplet of the acinar cell in the sublingual gland in a beagle dog**
○ Takafumi Oshikata, Mikio Mitsuishi, Masao Hamamura
LSI Medience Corporation

Poster Presentation II-8

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Tsuyoshi Yoshikawa (Otsuka Pharmaceutical Co.,Ltd.) •
Takeshi Watanabe (Takeda Pharmaceutical Company Limited.)

- P-81 Exocrine pancreatic injury induced by Caerulein in rats**
○ Hideki Tanaka, Shota Yoshida, Fumiko Ninomiya, Mitsuhiro Fujieda, Norifumi Matsushita, Kenji Matsubara, Hiromi Yamamoto, Satoshi Suzuki, Fumio Morita, Kazuo Hako
Discovery and Preclinical Research Division, Taiho Pharmaceutical Co., Ltd.
- P-82 * Vehicle exhaust particulates accumulate in lysosomes and are lysed by lysozyme**
○ Nodoka Koga, Akira Onodera, Katsutoshi Yayama, Akira Yokoyama, Rei Imamura, Chiaki Tanigawa, Tomoki Ohmoto, Masaki Inoue, Shinichi Tsunoda, Yuichi Kawai
Fac. Pharmaceut. Sci., Kobegakuin Univ.
- P-83 * Effect of vehicle exhaust particulates on the immune response in nasopharyngeal-associated lymphoreticular tissues**
○ Akira Yokoyama, Akira Onodera, Katsutoshi Yayama, Rei Imamura, Chiaki Tanigawa, Tomoki Ohmoto, Masaki Inoue, Shinichi Tsunoda, Yuichi Kawai
Fac. Pharmaceut. Sci., Kobegakuin Univ.
- P-84 * Urban aerosols suppress proliferation of nasal epithelial cells**
○ Chiaki Tanigawa, Akira Onodera, Katsutoshi Yayama, Akira Yokoyama, Rei Imamura, Tomoki Ohmoto, Nodoka Koga, Masaki Inoue, Shinichi Tsunoda, Yuichi Kawai
Fac. Pharmaceut. Sci., Kobegakuin Univ.
- P-85 * Effect of gender on upper airway immunity to vehicle exhaust particulates in aged mice**
○ Rei Imamura, Akira Onodera, Katsutoshi Yayama, Akira Yokoyama, Nodoka Koga, Chiaki Tanigawa, Tomoki Ohmoto, Masaki Inoue, Shinichi Tsunoda, Yuichi Kawai
Fac. Pharmaceut. Sci., Kobegakuin Univ.

Poster Presentation II-9

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Noriaki Ishigami (ONO pharmaceutical Co.,Ltd.) •
Satomi Nishikawa (Mitsubishi Tanabe Pharma Corporation)

- P-86 * Effects of nasal epithelial cells treated with vehicle exhaust particulates on lymphocyte composition in vitro**
○ Tomoki Ohmoto, Akira Onodera, Katsutoshi Yayama, Rei Imamura, Chiaki Tanigawa, Nodoka Koga, Masaki Inoue, Shinichi Tsunoda, Yuichi Kawai
Fac. Pharmaceut. Sci., Kobegakuin Univ.
- P-87 * Structural optimization of TNFR1 antagonist by single-chain modification**
○ Natsuki Osaki¹⁾, Masaki Inoue^{1,2)}, Masahiro Kunishige¹⁾, Midori Miki¹⁾, Akira Onodera¹⁾, Yuichi Kawai¹⁾, Haruhiko Kamada^{2,3)}, Yasuo Tsutsumi³⁾, Shin-ichi Tsunoda^{1,2)}
¹⁾Fac. Pharm. Sci., Kobe Gakuin Univ., ²⁾NIBIOHN, ³⁾Grad. Sch. Pharm. Sci., Osaka Univ.

P-88 * Structural optimization of TNFR1 antagonist using site-specific PEGylation

○ Masahiro Kunishige¹⁾, Masaki Inoue^{1,2)}, Natsuki Osaki¹⁾, Midori Miki¹⁾, Akira Onodera¹⁾, Yuichi Kawai¹⁾, Haruhiko Kamada^{2,3)}, Yasuo Tsutsumi³⁾, Shin-ichi Tsunoda^{1,2)}

¹⁾Fac. Pharm. Sci., Kobe Gakuin Univ., ²⁾NIBIOHN, ³⁾Grad. Sch. Pharm. Sci., Osaka Univ.

P-89 * Function of TNFR2 signaling as a regulatory T cell regulator

○ Midori Miki¹⁾, Masaki Inoue^{1,2)}, Natsuki Osaki¹⁾, Masahiro Kunishige¹⁾, Akira Onodera¹⁾, Yuichi Kawai¹⁾, Daisuke Ando^{2,3)}, Haruhiko Kamada^{2,3)}, Yasuo Tsutsumi³⁾, Shin-ichi Tsunoda^{1,2)}

¹⁾Fac. Pharm. Sci., Kobe Gakuin Univ., ²⁾NIBIOHN, ³⁾Grad. Sch. Pharm. Sci., Osaka Univ.

Poster Presentation II-10

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Yoshimasa Okazaki (The Institute of Environmental Toxicology(IET)) • Katsuhiko Miyajima (Tokyo University of Agriculture)

P-90 Difference in toxic response of an anti-desmoglein-3 ADCC antibody in mouse due to target expression and physiological characteristics of organs

○ Etsuko Fujii^{1,2)}, Kenji Taniguchi²⁾, Atsuhiko Kato²⁾, Masami Suzuki^{1,2)}

¹⁾Forerunner Pharma Research, Co., Ltd., ²⁾Research Division, Chugai Pharmaceutical Co., Ltd.

P-91 The Role of the Toxicologic Pathologist in Drug Discovery and Development

○ Norimitsu Shirai¹⁾, Lindsay Tomlinson²⁾

¹⁾Pfizer Drug Safety R & D, Pathology, Groton, CT, USA,

²⁾Pfizer Drug Safety R & D, Pathology, Cambridge, MA, USA

P-92 Responses to FDA SEND data -Part III-

○ Hirofumi Hatakeyama¹⁾, Shin-ichi Horikawa¹⁾, Junichi Sakurai¹⁾, Haruko Koizumi¹⁾, Akihito Shimoi¹⁾, Shin-ichi Sato¹⁾, Hijiri Iwata²⁾, Takayuki Anzai³⁾

¹⁾Ina Research Inc., ²⁾LunaPath LLC., ³⁾Showa University School of Medicine

P-93 A consideration on pathology peer review and pathology phase report

○ Hijiri Iwata¹⁾, Takayuki Anzai²⁾, Yuji Oishi³⁾

¹⁾LunaPath L.L.C., ²⁾Showa University School of Medicine, ³⁾Osaka City University

Poster Presentation II-11

Day 2, January 26, Friday 13:10 ~ 14:10 Poster Room (Shell Hall banquet room, 7F)

Chair: Yoko Sugimoto (Nippon Boehringer Ingelheim Co.,Ltd.) • Yuki Tomonari (LSI Medience Corporation)

P-94 Immunohistochemical characterization of lung proliferative lesions in rats intratracheally given MWCNT

○ Yoshimitsu Sakamoto¹⁾, Motoki Hojo¹⁾, Tosinari Suzuki¹⁾, Akiko Inomata¹⁾, Akihiko Hirose²⁾, Dai Nakae³⁾

¹⁾Tokyo, Metropol. Inst. Pub. Health, ²⁾Natl. Inst. Health Sci., ³⁾Tokyo Univ. Agricul

P-95 * Comparative Pulmonary toxicity of DWCNT and MWCNT-7 in Rats

○ Ahmed M. El-Gazzar^{1,2,7)}, Mohamed Abdelgied^{1,2,8)}, David B. Alexander¹⁾, William T. Alexander¹⁾, Takamasa Numano¹⁾, Masaaki Iigo¹⁾, Aya Naiki²⁾, Hirotsugu Takase³⁾, Akihiko Hirose⁴⁾, Yuhji Taquahashi⁵⁾, Jun Kannno⁶⁾, Satoru Takahashi²⁾, Ashraf Mohamed Nazem⁹⁾, Osama Saeid Elokke⁷⁾, Hiroyuki Tsuda¹⁾

¹⁾ Nanotoxicology Project, Nagoya City University, Nagoya, Japan.,

²⁾ Dept Exp Pathology and Tumor Biology, Nagoya City University Grad School Med Sciences, Nagoya, Japan.,

³⁾ Nagoya City University Graduate School Med Sciences, Nagoya, Japan.,

⁴⁾ Div Risk Assessment, NIH, Tokyo, Japan.,

⁵⁾ Div Cellular and Molecular Toxicology, NIH, Tokyo, Japan.,

⁶⁾ Japan Industrial Safety and Health Association, Japan Bioassay Research Center, Kanagawa, Japan.,

⁷⁾ Dept Forensic Medicine and Toxicology, Faculty of Veterinary Medicine, Alexandria University, Alexandria, Egypt.,

⁸⁾ Dept Forensic Medicine and Toxicology, Faculty of Veterinary Medicine, Beni Suef University, Beni Suef, Egypt.,

⁹⁾ Dept Food Hygiene, Faculty of Veterinary Medicine, Alexandria University, Alexandria, Egypt.

P-96 Dynamics of stem, progenitor, and differentiated cells in the regenerative process of gastrointestinal ulcer in mice

○ Akihiro Hirata¹⁾, Kengo Namiki²⁾, Atsuko Murai²⁾, Hiroyuki Tomita³⁾, Akira Hara³⁾, Hiroki Sakai⁴⁾, Tokuma Yanai⁴⁾

¹⁾ Gifu Univ., ²⁾ Ono Pharmaceutical Co., Ltd., ³⁾ Gifu Univ. Graduate Sch. Med., ⁴⁾ Gifu Univ.

P-97 * Comprehensive gene expression analysis for two different types of GST-P positive foci in terms of their kinetics after cessation of carcinogen treatment

○ Shinji Takasu¹⁾, Yuji Ishii¹⁾, Aki Kijima¹⁾, Kumiko Ogawa¹⁾, Takashi Umemura^{1,2)}

¹⁾ Div. of Pathol, NIHS, ²⁾ Faculty of Anim. Sci. Technology, Yamazaki Gakuen Univ.

P-98 * Potassium octatitanate fiber (K₂O · 8TiO₂) fiber is a potent inducer of lung and pleural injury in male Fischer 344 rats: A comparative study of titanium dioxide nano particles

○ Mohamed Abdelgied^{1,2,3)}, Ahmed M. El-Gazzar^{1,2,4)}, David B. Alexander¹⁾, William T. Alexander¹⁾, Takamasa Numano¹⁾, Masaaki Iigo¹⁾, Aya Naiki²⁾, Hirotsugu Takase⁵⁾, Khaled Abbas Abdou³⁾, Akihiko Hirose⁶⁾, Yuhji Taquahashi⁷⁾, Jun Kannno⁸⁾, Satoru Takahashi²⁾, Hiroyuki Tsuda¹⁾

¹⁾ Nano toxicology Project, Nagoya City University, Nagoya, Japan.,

²⁾ Dept Experimental Pathology and Tumor Biology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan.,

³⁾ Dept Forensic Medicine and Toxicology, Faculty of Veterinary Medicine, Beni Suef University, Beni-Suef, Egypt.,

⁴⁾ Dept Forensic Medicine and Toxicology, Faculty of Veterinary Medicine, Alexandria University, Alexandria, Egypt.,

⁵⁾ Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan.,

⁶⁾ Div Risk Assessment, NIH, Tokyo, Japan., ⁷⁾ Div Cellular and Molecular Toxicology, NIH, Tokyo, Japan.,

⁸⁾ Japan Industrial Safety and Health Association, Japan Bioassay Research Center, Kanagawa, Japan.