

Program

Special Lecture 1

Day1 January 30th (Thu)

15:50 - 16:50

Lecture Hall (1F Main Hall)

Chair: Aya Naiki-Ito (Nagoya City University)
Kochi Kakimoto (BoZo Research Center Inc.)

SL-1 Immunoregulation by designer exosomes and its quality control

○Rikinari Hanayama^{1,2)}

¹⁾WPI Nano Life Science Institute, Kanazawa University,

²⁾Department of Immunology, Graduate School of Medical Sciences, Kanazawa University

Special Lecture 2

Day2 January 31st (Fri)

13:35 - 14:35

Lecture Hall (1F Main Hall)

Chair: Satoshi Furukawa (Nissan Chemical Corporation)
Toshihisa Fujiwara (Shin Nippon Biomedical Laboratories Ltd.)

SL-2 Nanotechnology for future medicine

○Kazunori Kataoka

Innovation Center of NanoMedicine, Kawasaki Institute of Industrial Promotion

Symposium Considering the future of toxicological pathology from the current status of animal experiments.

Day2 January 31st (Fri)

08:50 - 10:25

Lecture Hall (1F Main Hall)

Chair: Shugo Suzuki (Osaka Metropolitan University)
Takeshi Izawa (Osaka Metropolitan University)

S-1 Current status of animal experiments

○Ryo Takai

Chugai Pharmaceutical Co., Ltd.

S-2 Animal experiments from the perspective of regulatory authorities

○Jihei Nishimura

Pharmaceuticals and Medical Devices Agency

S-3 Interface between toxicologic pathology and *in vitro*, and its future

○Tadahiro Shinozawa

Takeda Pharmaceutical Company Limited

Interactive Symposium How Should Toxicologic Pathologists Recognize AI Automated Diagnostic Models?

Day1 January 30th (Thu)

13:20 - 15:40

Lecture Hall (1F Main Hall)

Chair: Masako Imaoka (Daiichi Sankyo Co., Ltd.)

Saori Matsuo (Chugai Pharmaceutical Co., Ltd.)

IS How should toxicologic pathologists recognize AI automated diagnostic models?

○ Masako Imaoka¹⁾, Saori Matsuo²⁾

¹⁾Daiichi Sankyo Co., Ltd.,

²⁾Chugai Pharmaceutical Co., Ltd.

IS-1 The application and limitations of AI pathology models

○ Makoto Shirai, Masako Imaoka, Yoshimi Tsuchiya

Daiichi Sankyo Co., Ltd.

IS-2 Progress of digitalization in nonclinical pathology in Europe

○ Yumi Kangawa¹⁾, Brian Knight²⁾, Robin Stierkat³⁾, Sarah Kirschner-Kitz³⁾, Gabriele Pohlmeier-Esch³⁾

¹⁾Nippon Boehringer Ingelheim, Japan, ²⁾Boehringer Ingelheim, USA,

³⁾Boehringer Ingelheim, Germany

IS-3 The guideline for pathology AI by JSP, summary and issues

○ Taizo Shiraishi

Kuwana Medical Center

Discussion

Panelists: Makoto Shirai (Daiichi Sankyo Co., Ltd.), Yumi Kangawa (Nippon Boehringer Ingelheim), Taizo Shiraishi (Kuwana Medical Center), Akira Inomata (FUJIFILM Corporation), Etsuko Ohta (Eisai Co., Ltd.), Tsubasa Saito (BoZo Research Center Inc.), Jihei Nishimura (Pharmaceuticals and Medical Devices Agency)

Panel Discussion Commencing the investigation of toxicity mechanisms from pathological findings

Day2 January 31st (Fri)

10:35 - 12:15

Lecture Hall (1F Main Hall)

Chair: Yuki Kato (Shionogi & Co., Ltd.)

Tomoya Sano (Takeda Pharmaceutical Company Limited)

PD Commencing the investigation of toxicity mechanisms from pathological findings

○ Tomoya Sano¹⁾, Yuki Kato²⁾

¹⁾Takeda Pharmaceutical Company Limited, ²⁾Shionogi & Co., Ltd.

PD-1 Histopathological changes in the immune system induced by an immunomodulatory drug and their mechanism of action

○ Tetsuya Sakairi

Mitsubishi Tanabe Pharma Corporation

PD-2 Investigation of the mode of action and human relevance of adverse findings in the urinary bladder

○ Kenji Koyama

Shionogi & Co., Ltd.

PD-3 Species differences of the corneal toxicity induced by a certain pesticide in rats

○ Yusuke Kuroda
Nissan Chemical Corporation

PD-4 Mechanistic investigation of oligonucleotide-induced toxicity

○ Yuichi Takai
Takeda Pharmaceutical Company Limited

IATP Maronpot Guest Lecture

Day1 January 30th (Thu)

17:00 - 18:00

Lecture Hall (1F Main Hall)

Chair: Kouji Tanake (BoZo Research Center Inc.)
Katsuhiko Yoshizawa (Mukogawa Women's University)

IATP Thymus findings induced by a ROR γ t antagonist

○ Thomas Nolte
Boehringer Ingelheim, Germany

Workshop

Day1 January 30th (Thu)

09:20 - 11:00

Lecture Hall (1F Main Hall)

Chair: Mami Kouchi (Sumitomo Pharma Co., Ltd.)
Akihiko Sugiyama (Okayama University of Science)

W-1* Mechanism of chromothripsis via acetamide-induced large micronuclei

○ Yohei Yamagami^{1,2)}, Yuji Ishii¹⁾, Shinji Takasu¹⁾, Meili Soma¹⁾, Kengo Kasamatsu^{1,3)},
Takeshi Toyoda¹⁾, Tomoaki Murakami²⁾, Kumiko Ogawa¹⁾
¹⁾Division of Pathology, National Institute of Health Sciences,
²⁾Laboratory of Veterinary Toxicology, Tokyo University of Agriculture and Technology,
³⁾Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology

W-2* A novel support vector machine-based one-day, single-dose prediction model of genotoxic hepatocarcinogenicity in rats

○ Guiyu Qiu¹⁾, Min Gi¹⁾, Shugo Suzuki²⁾, Masaki Fujioka²⁾, Anna Kakehashi²⁾,
Arpamas Vachiraarunwong¹⁾, Ikue Noura²⁾, Runjie Guo¹⁾, Hideki Wanibuchi¹⁾
¹⁾Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine,
²⁾Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine

W-3* ALDH2 gene polymorphism can progress western diet-induced MASLD to steatohepatitis

○ Sakura Fujiwara, Jun Nakamura, Yuki Takami, Mitsuru Kuwamura, Takeshi Izawa
Laboratory of Veterinary Pathology, Osaka Metropolitan University

W-4* Investigation of actinin-4 expression through proteome analysis in a mouse model of pancreatitis

○ Hiroyuki Kato, Aya Naiki-Ito, Masayuki Komura, Satoru Takahashi
Dep. Exp. Pathol. Tumor Biol., Nagoya City Univ., Grad Sch Med Sci

W-5* Phenotype analysis of a genome-edited mouse with a germline variant in the 5' region of the *Apc* gene (*Apc*^{Δ155/+} mice)

○Teruaki Hirota^{1,2}, Hiroki Sakai^{1,2,3}, Akihiro Hirata^{1,2,3}

¹)Joint Graduate School of Veterinary Sciences, Gifu University,

²)Laboratory of Veterinary Pathology, Joint Department of Veterinary Medicine,

Faculty of Applied Biological Sciences, Gifu University,

³)Center for One Medicine Innovative Translational Research (COMIT), Gifu University

W-6* Carbon nano-horns (CNH) and carbon nano-brushes (CNB) do not induce lung cancer or pleural mesothelioma in the rat lung

○Omnia Hosny^{1,2,3}, Dina Saleh⁴, David Alexander¹, William Alexander¹, Hiroshi Takase⁵, Akihiko Hirose⁶, Jun Kanno⁷, Aya Naiki-Ito², Satoru Takahashi², Masako Yudasaka⁸, Ryota Yuge⁹, Hiroyuki Tsuda¹

¹)Nanotoxicology Lab Project, Nagoya City University,

²)Department of Experimental Pathology and Tumor Biology, Nagoya City University,

³)Department of Forensic Medicine and Clinical Toxicology, Aswan University,

⁴)Department of Forensic Medicine and Clinical Toxicology, Assuit University,

⁵)Core Laboratory, Nagoya City University,

⁶)Chemicals Evaluation and Research Institute (CERI),

⁷)National Institute Hygienic Sciences (NIHS), ⁸)Meijo University,

⁹)Secure System Platform Research Laboratories, NEC Corporation

Poster Presentation 1 Nervous System

Day1 January 30th (Thu)

11:10 - 12:10

Poster 1 (Small Hall)

Chair: Satoshi Suzuki (Taiho Pharmaceutical Co., Ltd.)

Atsuko Murai (Chugai Pharmaceutical Co., Ltd.)

P-01* Maternal imidacloprid exposure immunocompromises developing cerebellum to cause progressive neuronal cell loss in rats

○Xinyu Zou^{1,2}, Yuri Ebizuka¹, Makoto Shibutani^{1,2}

¹)Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology,

²)Cooperative Division of Veterinary Sciences, Graduate School of Agriculture,
Tokyo University of Agriculture and Technology

P-02 A case report of brain tissue lesions of stem cell products toxicity tests

○YanJun Cui¹, Xv Zhu¹, Yi Zhou¹, Yanchuan Li², Yu Xiang², Yihao Li², Jianjun Lyu^{1,2}, Lei Zhao³, Yichao Tian¹, Wenyu Wu⁴

¹)Hubei Topgene Biotechnology Co., Ltd., Wuhan Branch, ²)Hubei Topgene Xinsheng Biotechnology Co., Ltd.,

³)JOINN Laboratories (China) Co., Ltd., ⁴)Biocytogen Pharmaceuticals (Beijing) Co., Ltd.

P-03* Case report: Histopathological characters of the intracranial malignant meningioma observed in an aged RccHan:WIST rat

○Yuta Baba¹, Akiko Okada¹, Eito Ikeda¹, Naoko Hongo¹, Marina Sogawa², Kosei Inui³, Mika Nagaike¹

¹)Safety Science Research Laboratory, Central Research Institute, Ishihara Sangyo Kaisha, Ltd.,

²)Research and Development Division, Healthcare Business Headquarters, Ishihara Sangyo Kaisha, Ltd.,

³)Consultant, Ishihara Sangyo Kaisha, Ltd.

P-04 A spontaneous malignant trigeminal schwannoma in a Sprague-Dawley rat

○Ke Chen¹, Haoan Wang¹, Chunyan Hu¹, Bin Liu¹, Xiaobo Cen², Shuang Qiu¹

¹)Westchina-Frontier Pharma Tech Co., Ltd.,

²)National Chengdu Center for Safety Evaluation of Drugs, State Key Laboratory of Biotherapy and Cancer Center,
West China Hospital, Sichuan University

P-05 Histopathological characteristics of aggregation of spindle-shaped cells in optic nerve in rat

○Hiroaki Sato¹⁾, Yuichi Murakami¹⁾, Chihiro Noguchi¹⁾, Mitsuki Minaai¹⁾, Namika Saito¹⁾,
Haruko Koizumi¹⁾, Tetsuyo Kajimura¹⁾, Takeshi Izawa²⁾, Hijiri Iwata³⁾, Hirofumi Hatakeyama¹⁾

¹⁾SNBL INA Ltd., ²⁾Laboratory of Veterinary Pathology, Osaka Metropolitan University,

³⁾LunaPath Institute of Toxicologic Pathology, Co., Ltd.

Poster Presentation 2 Respiratory System

Day2 January 31st (Fri)

14:45 - 15:45

Poster 1 (Small Hall)

Chair: Masanao Yokohira (Kagawa University Faculty of Medicine)

**Shotaro Yamano (National Institute of Occupational Safety and Health,
Japan Organization of Occupational Health and Safety)**

P-06 Comparison of lung and mesothelial carcinogenicity of single-walled and multi-walled carbon nanotubes

○Aya Naiki-Ito¹⁾, Anna Kakehashi²⁾, Hiroyuki Kato¹⁾, Hiroyuki Tsuda^{1,3)}, Satoru Takahashi¹⁾

¹⁾Department of Experimental Pathology and Tumor Biology, Nagoya City University,

²⁾Dept. Mol. Pathol., Osaka Metropolitan Univ. Grad. Sch. Med., ³⁾Nanotoxicology Lab Project, Nagoya City Univ.

P-07 The impact of two disinfection methods of peracetic acid on the respiratory system tissue structure of SD rats

Renhua Gai¹⁾, Jian Ma¹⁾, Ai Lv¹⁾, ○Lei Zhao²⁾, Yajun Qi¹⁾, Xiangyu Xu¹⁾, Wenyu Wu³⁾

¹⁾Center for Drug Safety Evaluation and Research of Zhejiang University,

²⁾JOINN Laboratories (Beijing) Co., Ltd., ³⁾Biocytogen Pharmaceuticals (Beijing) Co., Ltd.

P-08 Role of brain abundant membrane attached signal protein 1 (BASP1) in large cell neuroendocrine carcinoma of the lung

○Ikue Noura¹⁾, Shugo Suzuki¹⁾, Takeshi Inoue²⁾, Anna Kakehashi¹⁾, Hideki Wanibuchi^{1,3)}

¹⁾Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine,

²⁾Department of Pathology, Osaka City General Hospital,

³⁾Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine

P-09 Usefulness of intra-tracheal intrapulmonary spraying (TIPS) for classification of poisonous and deleterious substances

○Hiroto Akane¹⁾, Shinji Takasu¹⁾, Min Gi²⁾, Masaki Fujioka³⁾, Takeshi Toyoda¹⁾, Yuji Ishii¹⁾,
Mizuho Uneyama¹⁾, Tomomi Morikawa¹⁾, Hiroyuki Tsuda⁴⁾, Kumiko Ogawa¹⁾

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

²⁾Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine,

³⁾Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine,

⁴⁾Nanotoxicology Project, Nagoya City University Graduate School of Medical Sciences

P-10 Effects of volume and concentration on acute toxicity tests using intra-tracheal intrapulmonary spraying (TIPS) method

○Shinji Takasu¹⁾, Hiroto Akane¹⁾, Yuji Ishii¹⁾, Takeshi Toyoda¹⁾, Hiroyuki Tsuda²⁾, Kumiko Ogawa¹⁾

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

²⁾Nanotoxicology Project, Nagoya City University Graduate School of Medical Sciences

P-11 *Mycobacterium caprae* infection in laboratory cynomolgus macaques (*Macaca fascicularis*): a distinctive granulomatous inflammation

○ Kristel Kegler¹⁾, Francisco Mayoral²⁾, Jiahui Zhu^{3,4)}, Carla Vallejo²⁾, Raúl Sánchez²⁾, Marjo Haanpera⁵⁾, Silja Mentula⁵⁾, Fathiah Zakham³⁾, Paula Ortega¹⁾, Raquel Vallejo¹⁾, Tarja Sironen^{3,4)}, Ravi Kant^{3,4)}, Ricardo de Miguel¹⁾, Klaus Weber¹⁾

¹⁾AnaPath Services GmbH, Switzerland, ²⁾AnaPath Research S.A.U, Spain,

³⁾Department of Virology, University of Helsinki, Finland,

⁴⁾Department of Basic Veterinary Sciences, Faculty of Veterinary Medicine, University of Helsinki, Finland,

⁵⁾Department of Health Security, Finnish Institute for Health and Welfare, Finland

Poster Presentation 3 Digestive System 1

Day1 January 30th (Thu)

11:10 - 12:10

Poster 1 (Small Hall)

Chair: Takahisa Noto (Santen Pharmaceutical Co., Ltd.)

Kaoru Toyoda (Japan Tobacco Inc.)

P-12* Effects of polysaccharide from *Rehmannia glutinosa* on the immune system and gut microbiota in immunosuppressed mice

○ Siming Zhang¹⁾, Yunxiang Chen¹⁾, Lili Zhang¹⁾, Tingli Bian¹⁾, Fang Liu¹⁾, Wenyu Wu²⁾, Lei Zhao³⁾, Hao Chen¹⁾, Li Wang⁴⁾

¹⁾Center of Safety Evaluation and Research, Hangzhou Medical College,

²⁾Biocytogen Pharmaceuticals (Beijing) Co., Ltd., ³⁾JOINN Laboratories (China) Co., Ltd.,

⁴⁾Henan Agricultural University

P-13 Study of the biological effects of titanium dioxide deposited in Peyer's patches after repeated oral gavage to F344 rats

○ Jun-ichi Akagi, Yasuko Mizuta, Mizuho Uneyama, Hirotoshi Akane, Kohei Matsushita, Takeshi Toyoda, Kumiko Ogawa

Division of Pathology, National Institute of Health Sciences

P-14* Analysis of the effect of dextran sodium sulfate loading on the pathological development of type 2 diabetic model mice

○ Yusuke Nakata¹⁾, Kinuko Uno¹⁾, Tomohiko Sasase¹⁾, Hikari Uehara¹⁾, Ryoko Sekikawa¹⁾, Yukina Mori¹⁾, Yoshinobu Doi²⁾, Masami Shinohara²⁾, Miki Sugimoto¹⁾, Takeshi Ohta¹⁾

¹⁾Laboratory of Animal Physiology and Functional Anatomy, Division of Applied Biosciences,

Graduate School of Agriculture, Kyoto University,

²⁾CLEA Japan Inc.

P-15* Establishment and characterization of xenotransplantation models derived from canine hereditary intestinal cancer

○ Makoto Kobayashi

Laboratory of Veterinary Pathology, Department of Joint Veterinary Medicine, Faculty of Applied Biological Sciences, Gifu University,

P-16* Histopathological study of canine rectal-anal region epithelial tumors

○ Kento Ishikawa, James Chambers, Kazuyuki Uchida

Laboratory of Veterinary Pathology, The University of Tokyo

P-17* Poorly differentiated carcinoma of the parotid gland in a young SD rat

○ Xi Li¹⁾, Jun Ma¹⁾, Tiantian Cui²⁾, Qiqi Wang¹⁾, Zhuang Qian¹⁾, Yaqun Zhang¹⁾, Toko Ohira²⁾

¹⁾Pathology Department of InnoStar BioTech Nantong Co., Ltd.,

²⁾Pathology Department of Shanghai InnoStar BioTech Co., Ltd.

Poster Presentation 4 Digestive System 2 (Liver)

Day2 January 31st (Fri)

14:45 - 15:45

Poster 1 (Small Hall)

Chair: Makiko Yamaoka (Kyorin Pharmaceutical Co., Ltd.)
Yui Seki (Eisai Co., Ltd.)

P-18* Liver fibrosis model by bile duct ligation

○Wenyu Wu¹⁾, Lei Zhao²⁾, Siming Zhang³⁾, Yanjun Cui⁴⁾, Xu Zhu⁴⁾, Renhua Gai⁵⁾, Mu Du²⁾,
Yanan He²⁾, Beibei Wang²⁾, Rui Zhang²⁾, Bowen Dong²⁾, Jin Guo⁶⁾, Wei Qi⁷⁾, Xin Sun²⁾

¹⁾Biocytogen Pharmaceuticals (Beijing) Co., Ltd., ²⁾JOINN Laboratories (China) Co., Ltd.,

³⁾Center of Safety Evaluation and Research, Hangzhou Medical College,

⁴⁾Hubei Topgene Biotechnology Co., Ltd.,

⁵⁾Center for Drug Safety Evaluation and Research of Zhejiang University,

⁶⁾Crown Bioscience (Taicang), Inc., ⁷⁾Suzhou Frontage New Drug Development Co., Ltd.

P-19* Analysis of the relationship between blood levels of Galectin-3 (Gal-3) and progression of liver fibrosis in mice

○Ryohei Kamino¹⁾, Teppei Uechi¹⁾, Marika Tohma¹⁾, Noriko Kemuriyama²⁾, Tomohiko Sasase³⁾,
Tatsuya Maekawa²⁾, Dai Nakae^{2,4)}, Katsuhiro Miyajima^{1,2)}

¹⁾Department of Food and Nutritional Science, Graduate School of Agriculture, Tokyo University of Agriculture,

²⁾Department of Nutritional Science and Food Safety, Faculty of Applied Biosciences,

Tokyo University of Agriculture,

³⁾Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University,

⁴⁾Department of Medical Sports, Faculty of Health Care and Medical Sports, Teikyo Heisei University

P-20* Angiotensin II receptor blocker attenuates liver fibrosis and carcinogenesis in rat non-alcoholic steatohepatitis model

○Xiaochen Kuang, Aya Naiki-Ito, Masayuki Komura, Hiroyuki Kato, Satoru Takahashi

Dept. Exp. Pathol. Tumor Biol., Nagoya City Univ.

P-21 Wild type of B6J.Cg-Slc22a5^{ivs}/Sepat mouse is a strain susceptible to high-fat diet-induced steatohepatitis (MASH)

○Kiyokazu Ozaki, Minori Kojima-Inanaga, Tetsuro Matsuura

Lab Pathology, Setsunan University

P-22* Investigation of species differences in hepatotoxicity using precision-cut liver slice from humanized liver mouse

○Chinatsu Fujiwara¹⁾, Azusa Katoh¹⁾, Naofumi Takahashi¹⁾, Tsuyoshi Ito¹⁾, Aya Koyama¹⁾,
Atsushi Shiga¹⁾, Satoshi Akema¹⁾, Ryoichi Ohtsuka¹⁾, Satoru Yamaguchi¹⁾, Makio Takeda¹⁾,
Takanori Harada¹⁾, Mikaru Yamao²⁾, Yuji Ishida²⁾, Chise Tateno²⁾

¹⁾The Institute of Environmental Toxicology, ²⁾PhoenixBio Co., Ltd.

P-23* Early detection of hepatocarcinogens in rats by mechanism-based immunohistochemistry

○Mizuho Uneyama, Takeshi Toyoda, Jun-ichi Akagi, Hirotohi Akane, Tomomi Morikawa,
Kumiko Ogawa

Division of Pathology, National Institute of Health Sciences

Poster Presentation 5 Digestive System 3 (Liver)

Day1 January 30th (Thu)

11:10 - 12:10

Poster 1 (Small Hall)

Chair: Katsuhiko Miyajima (Tokyo University of Agriculture)
Satomi Nishikawa (Mitsubishi Tanabe Pharma Co.)

P-24* p53 target gene PAD7 alters lipid metabolism in the tumor microenvironment and suppresses liver cancer

○Airi Nakano^{1,2)}, Yuko Tabata¹⁾, Masaki Okudaira^{1,3)}, Yuri Mitsui^{1,3)}, Masahiro Takikawa^{1,4)},
Atsushi Okabe^{5,6)}, Yuichi Wakabayashi⁷⁾, Naoko Ohtani⁸⁾, Ikuyo Ichi⁹⁾, Atsushi Kaneda^{5,6)},
Kimi Araki¹⁰⁾, Masamichi Ishiai^{2,11)}

¹⁾Laboratory of Fundamental Oncology, National Cancer Center Research Institute,

²⁾Graduate School of Biomedical Sciences, Nagasaki University, ³⁾Tokyo College of Biotechnology,

⁴⁾Faculty of Science and Technology, Tokyo University of Science,

⁵⁾Department of Molecular Oncology, Graduate School of Medicine, Chiba University,

⁶⁾Health and Disease Omics Center, Chiba University,

⁷⁾Division of Experimental Animal Research, Cancer Genome Center, Chiba Cancer Center Research Institute,

⁸⁾Department of Pathophysiology, Graduate School of Medicine, Osaka Metropolitan University,

⁹⁾Faculty of Core Research, Ochanomizu University,

¹⁰⁾Division of Developmental Genetics, Institute of Resource Development and Analysis, Kumamoto University,

¹¹⁾Central Radioisotope Division, National Cancer Center Research Institute

P-25* Lack of carcinogenicity of diphenylarsinic acid in F1 rats following maternal exposure from pre-mating to lactation

○Masaki Fujioka¹⁾, Min Gi²⁾, Shugo Suzuki¹⁾, Arpamas Vachiraarunwong²⁾, Runjie Guo²⁾, Guiyu Giu²⁾,
Yuji Oishi¹⁾, Hideki Wanibuchi²⁾

¹⁾Dept. Mol. Pathol., Osaka Metro. Univ. Grad. Sch. Med.,

²⁾Dept. Env. Risk Assess., Osaka Metro. Univ. Grad. Sch. Med.

P-26 Formation of cytoplasmic inclusions in rat hepatocytes induced by low molecular amide compounds

○Yuji Ishii¹⁾, Meili Soma¹⁾, Yohei Yamagami^{1,2)}, Kengo Kasamatsu^{1,3)}, Shinji Takasu¹⁾,
Takeshi Toyoda¹⁾, Kumiko Ogawa¹⁾

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

²⁾Laboratory of Veterinary Toxicology, Tokyo University of Agriculture and Technology,

³⁾Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology

P-27* Allyl alcohol exposure results in extensive hepatic ferroptosis in *Aldh2**2 knock-in mice

○Yuki Takami, Jun Nakamura, Miyuu Tanaka, Mitsuru Kuwamura, Takeshi Izawa

Laboratory of Veterinary Pathology, Osaka Metropolitan University

P-28* Influence of autophagy induction/inhibition on chemically-induced liver injury in rats

○Sho Fujiwara, Takeshi Izawa, Mutsuki Mori (Saito), Mitsuru Kuwamura

Laboratory of Veterinary Pathology, Osaka Metropolitan University

Poster Presentation 6 Digestive System 4 (Liver)

Day2 January 31st (Fri)

14:45 - 15:45

Poster 1 (Small Hall)

Chair: Hiroyuki Kato (Nagoya City University)

Junko Fujishima (Shin Nippon Biomedical Laboratories, Ltd.)

P-29* Hepatotoxicity of per- and polyfluoroalkyl substances on immortalized human hepatocytes

○ Arpamas Vachiraarunwong¹⁾, Masaki Fujioka²⁾, Guiyu Qiu¹⁾, Runjie Guo¹⁾, Shugo Suzuki²⁾,
Ikue Noura²⁾, Anna Kakehashi²⁾, Hideki Wanibuchi¹⁾, Min Gi¹⁾

¹⁾Department of Environmental Risk Assessment, Osaka Metropolitan University, Graduate School of Medicine,

²⁾Department of Molecular Pathology, Osaka Metropolitan University, Graduate School of Medicine

P-30* Pathological analysis of the mouse liver in a repeated dose toxicity study of coumarin

○ Sayaka Ohashi¹⁾, Akari Tanaka²⁾, Yuina Takeda²⁾, Ryohei Kamino¹⁾, Noriko Kemuriyama²⁾,
Tomohiko Sasase³⁾, Tatsuya Maekawa²⁾, Katsuhiko Miyajima^{1,2)}

¹⁾Department of Food and Nutritional Science, Graduate School of Agriculture, Tokyo University of Agriculture,

²⁾Department of Nutrition Science and Food Safety, Faculty of Applied Bioscience,

Tokyo University of Agriculture,

³⁾Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University

P-31* Case report: Intestinal cyst of the liver in a Sprague-Dawley rat

○ Momoka Shobudani, Yuzo Yasui, Akiko Anagawa-Nakamura, Taishi Shimazaki, Ryo Yamazaki,
Kaoru Toyoda, Akemi Takahashi, Toshiyuki Shoda

Toxicology Research Laboratories, Yokohama Research Center, Central Pharmaceutical Research Institute,
Japan Tobacco Inc.

P-32* Pathological analysis of drug induced liver lesions (deposit of basophilic structures in hepatocytes) in rats

○ Ryoya Mashida, Tomoya Ueno, Nanae Ohbo, Yu Takiya, Shunsuke Aoto, Yoshio Ota, Hiroko Moroe,
Keiji Koizumi

Department of Safety Research, Research & Innovation Center, Research & Development Div.,
Nippon Soda Co., Ltd.

P-33* Pathological features of liver lesions caused by common bile duct stenosis due to an islet cell tumor in Wistar rats

○ Akiko Okada¹⁾, Yuta Baba¹⁾, Naoko Hongo¹⁾, Eito Ikeda¹⁾, Marina Sogawa²⁾, Kosei Inui³⁾,
Mika Nagaike¹⁾

¹⁾Safety Science Research Laboratory, Central Research Institute, Ishihara Sangyo Kaisha, Ltd.,

²⁾Research and Development Division, Healthcare Business Headquarters, Ishihara Sangyo Kaisha, Ltd.,

³⁾Consultant, Ishihara Sangyo Kaisha, Ltd.

Poster Presentation 7 Digestive System (Pancreas) and Endocrine System

Day1 January 30th (Thu)

11:10 - 12:10

Poster 1 (Small Hall)

Chair: Mika Nagaike (Ishihara Sangyo Kaisha, Ltd.)

Tomomi Nakazawa (BoZo Research Center Inc.)

P-34 PRDX3 as a novel marker in human invasive pancreatic ductal carcinoma and elucidation of carcinogenic mechanisms

○ Anna Kakehashi, Shugo Suzuki, Yusaku Nishidoi, Guiyu Qiu, Arpamas Vachiraarunwong,
Masaki Fujioka, Min Gi, Hideki Wanibuchi

Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine

P-35* Histopathological characterization of human pancreatic cancer CDX models

○Junichi Sugiyama, Hideki Tanaka, Shota Yoshida, Sakiho Tanaka, Takamasa Suzuki, Satoshi Suzuki
Preclinical Basic Research, Taiho Pharmaceutical Co., Ltd.

P-36* Spontaneous hydropic degeneration of pancreatic acinar cells exhibiting patchy distribution in a cynomolgus monkey

○Norifumi Takimoto¹⁾, Noriaki Ishigami²⁾, Narumi Otsuka¹⁾, Ryota Ojio¹⁾, Daisuke Hibi¹⁾,
Masanori Kuribayashi¹⁾
¹⁾Safety Research, Ono Pharmaceutical Co., Ltd.,
²⁾Research Project Management Division, Ono Pharmaceutical Co., Ltd.

P-37 Background data and immunohistochemical features of spontaneous lesions in the pineal gland of rats and mice

○Hirofumi Hatakeyama¹⁾, Satoshi Inoue²⁾, Miki Masatsugu²⁾, Riko Ito²⁾, Kouji Oono²⁾, Toko Maehara²⁾,
Hiroshi Satoh²⁾
¹⁾SNBL INA Ltd.,
²⁾Veterinary Pharmacology and Toxicology Laboratory, Graduate School of Veterinary Sciences, Iwate University

P-38* Ectopic sebaceous gland in the thyroid gland of CD(SD) rat

○Ryoko Fujikawa, Shinobu Hakamata, Masako Imaoka, Yoshimi Tsuchiya
Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.

P-39* Different gene expression of the pituitary in estrogen-treated two different rat strains

○Satoshi Inoue, Hirofumi Hatakeyama, Miki Masatsugu, Riko Ito, Koji Ono, Toko Maehara,
Hiroshi Satoh
Graduate School of Veterinary Sciences, Iwate University

Poster Presentation 8 Urinary System and Reproductive System 1

Day2 January 31st (Fri)

14:45 - 15:45

Poster 1 (Small Hall)

Chair: Akihiro Hirata (Gifu University)

Shiori Yoshida (Nihon Nohyaku Co., Ltd.)

P-40 Mechanisms for colistin-induced nephrotoxicity

○Kohei Matsushita, Takeshi Toyoda, Jun-ichi Akagi, Yasuko Mizuta, Kumiko Ogawa
Division of Pathology, National Institute of Health Sciences

P-41* Involvement of pEMT in the mechanism of renal fibrosis using a mouse model of adenine-induced chronic kidney disease

○Mai Tomatsuri¹⁾, Yuta Tanno²⁾, Tomohiko Sasase³⁾, Noriko Kemuriyama²⁾, Tatsuya Maekawa²⁾,
Katsuhiro Miyajima^{1,2)}
¹⁾Department of Food and Nutritional Science, Graduate School of Agriculture, Tokyo University of Agriculture,
²⁾Department of Nutritional Science and Food Safety, Faculty of Applied Biosciences,
Tokyo University of Agriculture,
³⁾Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University

P-42 Mycophenolate mofetil ameliorates kidney injury on rats with immune complexes nephritis

○Lili Zhang, Zhang Siming, Liu Fang, Bian Tingli, Chen Yunxiang, Chen Hao
Key Laboratory of Drug Safety Evaluation and Research of Zhejiang Province,
Center of Safety Evaluation and Research, Hangzhou Medical College

P-43 Hisiotopathological characteristics of renal cysts in *Pkd1* conditional knockout mice

○Atsuko Murai¹⁾, Yasuhiro Ichida²⁾, Yukari Yasui²⁾, Naoshi Horiba²⁾, Atsuhiko Kato¹⁾

¹⁾Translational Research Division, Safety and Bioscience Research Dept., Chugai Pharmaceutical Co., Ltd.,

²⁾Research Division, Discovery Pharmacology 1 Dept., Chugai Pharmaceutical Co., Ltd.

P-44* Comparison of chronic kidney disease model rats prepared for 4 weeks by drug administration

○Naoki Ujike, Saori Shimizu, Naoaki Yamada

Research Centre, Nihon Medi-Physics Co., Ltd.

Poster Presentation 9 Urinary System and Reproductive System 2

Day1 January 30th (Thu)

11:10 - 12:10

Poster 2 (Main Hall)

Chair: Yuichi Murakami (Shin Nippon Biomedical Laboratories, Ina Research Center, Ltd.)

Keiko Ogata (Sumitomo Chemical Co., Ltd.)

P-45* A case of hyaline droplets accumulation in renal tubules of beagle dogs given a neuroprotective drug

Yanchuan Li¹⁾, ○Yanjuan Cui²⁾, Ling Li¹⁾, Yu Xiang¹⁾, Yihao Li¹⁾, Xu Zhu²⁾, Yi Zhou^{1,2)}, Xinrui Guan¹⁾, Yaping Lei¹⁾, Chunya Wang¹⁾, Haolin Zhang¹⁾, Aijun Tian¹⁾, Jianjun Lyu¹⁾

¹⁾Hubei Topgene Xinsheng Biotechnology Co., Ltd., ²⁾Hubei Topgene Biotechnology Co., Ltd., Wuhan Branch

P-46* Oncomodulin is a novel early marker of urinary bladder carcinogenesis in rats

○Runjie Guo¹⁾, Min Gi¹⁾, Arpamas Vachiraarunwong¹⁾, Shugo Suzuki²⁾, Masaki Fujioka²⁾, Guiyu Qiu¹⁾, Anna Kakehashi²⁾, Hideki Wanibuchi¹⁾

¹⁾Department of Environmental Risk Assessment, Osaka Metropolitan University, Graduated School of Medicine,

²⁾Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine

P-47* An ex vivo method evaluating the effects on androgen secretion using extracted rat testis

○Kanata Ibi^{1,2)}, Eri Mizuguchi¹⁾, Taichi Yasuma¹⁾, Akihiro Hirata²⁾, Mami Murakami²⁾, Hiroki Sakai²⁾

¹⁾Pharmacokinetics and Safety Department, Kaken Pharmaceutical Co., Ltd.,

²⁾Laboratory of Veterinary Pathology, Joint Department of Veterinary Medicine, Gifu University

P-48* The roles of microRNAs induced by luteolin on prostate cancer

○Akihiro Murakami, Aya Naiki-Ito, Hiroyuki Kato, Satoru Takahashi

Department of Experimental Pathology and Tumor Biology, Nagoya City University

P-49* Immunohistochemical characterization of rabbit uterine adenocarcinoma

○Yukino Machida¹⁾, Sayuri Harashima¹⁾, Viviana Gonzalez Astudillo²⁾, Masaki Michishita¹⁾

¹⁾Department of Veterinary Pathology, Nippon Veterinary and Life Science University,

²⁾School of Veterinary Science, The University of Queensland

Poster Presentation 10 Others 1

Day2 January 31st (Fri)

14:45 - 15:45

Poster 2 (Main Hall)

Chair: Takuya Doi (Mediford Co.)

Keisuke Uchida (Asahi Kasei Pharma Co., Ltd.)

P-50 Susceptibility of wild type C57BL/6 mice to the inducibility of mesothelioma of multi-walled carbon nanotube

○Motoki Hojo¹⁾, Ai Maeno¹⁾, Yoshimitsu Sakamoto¹⁾, Jun Kanno²⁾, Yuhji Taquahashi²⁾, Kiyomi Ikushima¹⁾, Kai Igarashi¹⁾, Akemichi Nagasawa¹⁾, Yoshinobu Miyao¹⁾, Ayaka Kawai¹⁾, Kyoko Hiramatsu¹⁾, Yukio Yamamoto¹⁾, Akihiko Hirose³⁾, Akiko Inomata¹⁾, Dai Nakae⁴⁾

¹⁾Department of Pharmaceutical and Environmental Sciences, Tokyo Metropolitan Institute of Public Health,

²⁾Center for Biological Safety and Research, National Institute of Health Sciences,

³⁾Chemicals Assessment and Research Center, Chemicals Evaluation and Research Institute, Japan,

⁴⁾Department of Medical Sports, Faculty of Health Care and Medical Sports, Teikyo Heisei University

P-51* Estimation of the initial site of development of pleural mesothelioma induced by multi-walled carbon nanotube in rats

○Ai Maeno^{1,4)}, Motoki Hojo¹⁾, Yoshimitsu Sakamoto¹⁾, Kai Igarashi¹⁾, Satoshi Yokota²⁾, Yuhji Taquahashi²⁾, Akihiko Hirose³⁾, Naoyuki Aihara⁴⁾, Junichi Kamiie⁴⁾, Akiko Inomata¹⁾, Dai Nakae⁵⁾

¹⁾Tokyo Metropolitan Institute of Public Health,

²⁾Center for Biological Safety and Research, National Institute of Health Sciences,

³⁾Chemicals Evaluation and Research Institute, Japan, ⁴⁾Azabu University, ⁵⁾Teikyo Heisei University

P-52* Histopathological features of a subcutaneous mass observed in the occipital region of an aged Crl:CD (SD) rat

○Takuro Endo, Yuko Yamaguchi, Osamu Hashiguchi, Moeko Aoki, Nobuaki Sato, Teppei Yamashita, Tsubasa Saito
BoZo Research Center Inc.

P-53* Case report: Spontaneous histiocytic sarcoma with granuloma formation originated in the skin in a SD rat

○Dai Hasegawa, Yukako Shimotsuma, Junko Takai, Ayumi Eguchi, Keiko Ogata, Masahiko Kushida, Satoki Fukunaga, Hiroyuki Asano
Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd.

P-54 A case of spontaneous pulmonary ossification in a Wistar Hannover rat

○Mika Nagaike¹⁾, Yuta Baba¹⁾, Akiko Okada¹⁾, Eito Ikeda¹⁾, Naoko Hongo¹⁾, Marina Sogawa²⁾, Kosei Inui³⁾

¹⁾Safety Science Research Laboratory, Central Research Institute, Ishihara Sangyo Kaisha, Ltd.,

²⁾Research and Development Division, Healthcare Business Headquarters, Ishihara Sangyo Kaisha, Ltd.,

³⁾Consultant, Ishihara Sangyo Kaisha, Ltd.

Poster Presentation 11 Others 2

Day1 January 30th (Thu)

11:10 - 12:10

Poster 2 (Main Hall)

Chair: Takeshi Toyoda (National Institute of Health Sciences)
Takayasu Moroki (Otsuka Pharmaceutical Co., Ltd.)

P-55* Cutaneous lesions in the rat following administration of an EGFR kinase inhibitor

○Lei Zhao¹⁾, Yanan He¹⁾, Beibei Wang¹⁾, Yanjun Cui²⁾, Rui Zhang¹⁾, Wenyu Wu³⁾, Siming Zhang⁴⁾,
Xv Zhu²⁾, Jing Hu¹⁾, Xin Sun¹⁾, Yu Xiang⁵⁾, Guoqing Zhang¹⁾

¹⁾JOINN Laboratories (China) Co., Ltd., ²⁾Hubei Topgene Biotechnology Co., Ltd., Wuhan Branch,

³⁾Biocytogen pharmaceuticals (Beijing) Co., Ltd.,

⁴⁾Key Laboratory of Drug Safety Evaluation and Research of Zhejiang Province,
Center of Safety Evaluation and Research, Hangzhou Medical College,

⁵⁾Hubei Topgene Xinsheng Biotechnology Co., Ltd.

P-56* Palmitoyl piperidinopiperidine inhibits HT29 human colon carcinoma cell growth by blocking STAT3 dimerization

○Dipankar Chandra Roy¹⁾, Hiroki Yoshioka²⁾, Nahida Sultana¹⁾, Katsumi Fukamachi¹⁾,
Hideaki Kurachi¹⁾, Kenji Ono¹⁾, Masumi Suzui¹⁾

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

²⁾Department of Pharmacy, Gifu University of Medical Science

P-57 Pathological changes in N-acetylgalactosamine-conjugated siRNA drugs

○Shuang Qiu, Min Xie, Chunyan Hu, Xiaobo Cen, Ke Chen

Histopathology Department, WestChina-Frontier PharmaTech Co., Ltd.

P-58 Histology of juvenile cynomolgus monkeys: immune system

○Junko Fujishima, Hiroko Kokoshima, Rio Ushiroda, Kinji Kobayashi, Akihiro Arima

Drug Safety Laboratories, Shin Nippon Biomedical Laboratories, Ltd.

P-59* Histopathological evaluation of the neonatal immune development and pDC distribution in juvenile cynomolgus monkeys

○Shoko Suzuki¹⁾, Mao Mizukawa¹⁾, Akane Kashimura¹⁾, Junko Fujishima²⁾, Hiroko Kokoshima²⁾,
Tetsuya Sakairi¹⁾

¹⁾Safety Research Laboratories, Mitsubishi Tanabe Pharma Corp.,

²⁾Drug Safety Research Laboratories, Shin Nippon Biomedical Laboratories, Ltd.

Poster Presentation 12 Others 3

Day2 January 31st (Fri)

14:45 - 15:45

Poster 3 (Citizens Lobby)

Chair: Hisako Kinomoto (Zeria Pharmaceutical Co., Ltd.)
Yukino Machida (Nippon Veterinary and Life Science University)

P-60* Expression of Tribbles pseudokinase 3 (Trib3) in oxidative stress-mediated acute liver and kidney injury models

Yukako Shimotsuma, Takeshi Izawa, Mitsuru Kuwamura

Laboratory of Veterinary Pathology, Osaka Metropolitan University

P-61* Identification of spontaneous amyloidosis in ICR mice and examination of SAA1 and 2 copy number variations (CNVs)

○Mao Mizukawa^{1,2)}, Kohei Tanaka³⁾, Akane Kashimura¹⁾, Satomi Nisihikawa¹⁾, Yu Uchida²⁾, Naoyuki Aihara²⁾, Takanori Shiga²⁾, Junichi Kamiie²⁾

¹⁾Safety Research Laboratories, Research Division, Mitsubishi Tanabe Pharma Corporation,

²⁾Laboratory of Veterinary Pathology, School of Veterinary Medicine, Azabu University,

³⁾DMPK Research Laboratories, Research Division, Mitsubishi Tanabe Pharma Corporation

P-62 Effect of paternal pre-conceptional exposure to chronic low dose-rate gamma-rays on the F1 progeny of C57BL/6J mice

○Ignacia Tanaka, Satoshi Tanaka, Rei Nakahira, Jun-ichiro Komura

Institute for Environmental Sciences

P-63* A subtle change of intraepidermal nerve fibers in diabetic *db/db* mice: a comparison of 3D and 2D quantitative analysis

○Minoru Kojima, Erina Kaitani, Tetsuro Matsuura, Kiyokazu Ozaki

Laboratory of Pathology, Faculty of Pharmaceutical Sciences, Setsunan University

P-64* Evaluation of quantitative image analysis for the bleomycin-induced pulmonary fibrosis model

○Masashi Kawashima¹⁾, Masakazu Kanamori²⁾, Atsuhiko Kato¹⁾

¹⁾Safety and Bioscience Department, Chugai Pharmaceutical Co., Ltd.,

²⁾Discovery Pharmacology 1 Department, Chugai Pharmaceutical Co., Ltd.

Poster Presentation 13 Others 4

Day1 January 30th (Thu)

11:10 - 12:10

Poster 3 (Citizens Lobby)

Chair: Miwa Takahashi (Astellas Pharma Inc.)

Naoaki Yamada (Nihon Medi-Physics Co., Ltd.)

P-65 Tumor occurrence of inhalation carcinogenicity test using butyraldehyde in rats and *rash2* transgenic mice

○Kenji Takanobu, Hideki Senoh, Misae Saito, Yusuke Furukawa, Shotaro Yamano, Yumi Umeda

National Institute of Occupational Safety and Health Japan, Organization of Occupational Health and Safety

P-66* Morphological characteristics of vascular lesions in *rash2* mice

○Nobuaki Sato, Yuko Yamaguchi, Osamu Hashiguchi, Moeko Aoki, Takuro Endo, Teppei Yamashita, Tsubasa Saito

BoZo Research Center Inc.

P-67* An *ex-vivo* carcinogenicity analysis of 4-NQO using *rash2* mouse-derived esophageal organoids

○Manami Akeyoshi, Chiyoko Nishime, Misa Mochizuki, Kenji Kawai, Masami Suzuki, Toshio Imai

Central Institute for Experimental Medicine and Life Science

P-68 Morphological and immunohistochemical properties of lung, forestomach and liver organoids derived from *rash2* mice

○Toshio Imai, Manami Akeyoshi, Misa Mochizuki, Hitomi Sato, Ryo Inoue, Chiyoko Nishime, Kenji Kawai, Masami Suzuki

Central Institute for Experimental Medicine and Life Science,

P-69 Investigation for the development of a toxicity evaluation system using mouse liver-derived organoids

○Noriko Kemuriyama¹⁾, Rion Hatanaka¹⁾, Miyu Sano¹⁾, Sayaka Ohashi¹⁾, Tatsuya Mekawa¹⁾, Dai Nakae²⁾, Katsuhiro Miyajima¹⁾

¹⁾Department of Nutritional Science and Food Safety, Faculty of Applied Biosciences, Tokyo University of Agriculture,

²⁾Department of Medical Sports, Faculty of Health Care and Medical Sports, Teikyo Heisei University

P-70* Histopathological characteristics of kidney organoids cultured by different protocols

○Yuko Ito¹⁾, Chika Yamashiro²⁾, Naoko Awasaki¹⁾, Shigero Tanba²⁾, Shogo Kamikawaji²⁾, Masaki Yamazaki¹⁾, Atsuhiko Kato¹⁾

¹⁾Safety and Bioscience Research Dept., Chugai Pharmaceutical Co., Ltd.,

²⁾Biological Technology Dept., Chugai Pharmaceutical Co., Ltd.

Poster Presentation 14 Others 5

Day2 January 31st (Fri)

14:45 - 15:45

Poster 3 (Citizens Lobby)

Chair: Daisuke Hibi (Ono Pharmaceutical Co., Ltd.)

Tomoaki Tochtani (Sumitomo Pharma Co., Ltd.)

P-71* Deep learning-based image analysis model for detecting unlearned findings in rat liver

○Taishi Shimazaki¹⁾, Yuzo Yasui¹⁾, Naohito Yamada¹⁾, Aman Shrivastava²⁾, Raghav Amaravadi²⁾, Geetank Raipuria²⁾, Tijo Thomas²⁾, Nitin Singhal²⁾, Toshiyuki Shoda¹⁾

¹⁾Toxicology Research Laboratories, Yokohama Research Center, Central Pharmaceutical Research Institute, Japan Tobacco Inc.,

²⁾AIRA Matrix Private Limited

P-72 Safety assessment of glomerular and tubular histopathological lesion of the kidney in rats using artificial intelligence

○Kiyonori Kai¹⁾, Rumiko Ishida¹⁾, Mikiko Motomuro²⁾, Hiroki Kawai²⁾, Masako Imaoka¹⁾, Yoshimi Tsuchiya¹⁾

¹⁾Medicinal Safety Laboratories, Daiichi Sankyo Co., Ltd., ²⁾LPIXEL Inc.

P-73* Time and motion study: pathology foresight as an ai decision support tool for toxicologic pathology

Hope Williams¹⁾, Jogile Kukyte¹⁾, Laoise Lord Bissett¹⁾, Eoghan Keany¹⁾, Kalpit Gupta¹⁾, Lise Bertrand²⁾,

○Juliana Fuijita¹⁾, Pierre Moulin¹⁾

¹⁾Deciphex, ²⁾Charles River Laboratories

P-74* The comparison of quantitative methods to evaluate the immune cell infiltration into xenograft tumors using HALO AI™

○Kenya Imaimatsu¹⁾, Naoko Awasaki¹⁾, Junko Shinozuka¹⁾, Hirofumi Mikami²⁾, Yumiko Azuma²⁾, Masaki Yamazaki¹⁾, Atsuhiko Kato¹⁾

¹⁾Translational Research Division, Chugai Pharmaceutical Co., Ltd.,

²⁾Research Division, Chugai Pharmaceutical Co., Ltd.

P-75* Application of pathological image analysis for evaluating anti-angiogenic effects of an anti-cancer drug in tumors

○Shota Yoshida¹⁾, Jun-ichi Sugiyama¹⁾, Hideki Tanaka¹⁾, Sakiho Tanaka¹⁾, Takamasa Suzuki¹⁾, Wakako Yano²⁾, Hiromi Muraoka²⁾, Masanori Kato²⁾, Satoshi Suzuki¹⁾

¹⁾Preclinical Basic Research, Taiho Pharmaceutical Co., Ltd.,

²⁾Translational Research, Taiho Pharmaceutical Co., Ltd.

P-76 Background data for histopathology and histomorphometry of femur and tibia in juvenile Sprague-Dawley rat

○ Chihiro Noguchi¹⁾, Hiroaki Sato¹⁾, Mitsuki Minaai¹⁾, Namika Saito¹⁾, Yuichi Murakami¹⁾, Haruko Koizumi¹⁾, Tetsuyo Kajimura¹⁾, Hijiri Iwata²⁾, Hirofumi Hatakeyama¹⁾

¹⁾SNBL INA Ltd., ²⁾LunaPath Institute of Toxicologic Pathology, Co., Ltd.

Poster Presentation 15 Others 6

Day1 January 30th (Thu)

11:10 - 12:10

Poster 3 (Citizens Lobby)

Chair: Kaoru Inoue (National Institute of Health Sciences)
Kae Fujisawa (Shionogi & Co., Ltd.)

P-77* Case study of multi-organ vacuolation induced by a non-amphiphilic cationic compound drug

○ Xv Zhu¹⁾, Yanjun Cui¹⁾, Yi Zhou¹⁾, Yichao Tian¹⁾, Jianjun Lyu²⁾, Wenyu Wu³⁾, Lei Zhao⁴⁾, Yu Xiang²⁾, Yihao Li²⁾, Yanchuan Li²⁾

¹⁾Hubei Topgene Biotechnology Co., Ltd., Wuhan Branch, ²⁾Hubei Topgene Xinsheng Biotechnology Co., Ltd.,

³⁾Biocytogen Pharmaceuticals (Beijing) Co., Ltd., ⁴⁾JOINN Laboratories (China) Co., Ltd.

P-78 INHAND: International Harmonization of Nomenclature and Diagnostic Criteria for Lesions

○ Shim-mo Hayashi^{1,2)}, Ute Bach³⁾, Alys E. Bradley⁴⁾, Mark Cesta⁵⁾, Stacey Fossey⁶⁾, Takanori Harada⁷⁾, Matt Jacobsen⁸⁾, Rupert Kellner⁹⁾, Victoria Laast¹⁰⁾, Emily K Meseck¹¹⁾, Thomas Nolte¹²⁾, Susanne Rittinghausen⁹⁾, Junko Sato¹³⁾, John L. Vahle¹⁴⁾, Katsuhiko Yoshizawa¹⁵⁾

¹⁾National Institute of Health Sciences, ²⁾Tokyo University of Agriculture and Technology, ³⁾Bayer AG,

⁴⁾Charles River Laboratories, ⁵⁾National Institute of Environmental Health Sciences, ⁶⁾AbbVie,

⁷⁾The Institute of Environmental Toxicology, ⁸⁾Astra Zeneca, ⁹⁾Fraunhofer ITEM, ¹⁰⁾Labcorp Drug Development,

¹¹⁾Novartis Institute for Biomedical Research, ¹²⁾Boehringer Ingelheim Pharma GmbH & Co. KG, ¹³⁾LSI Medience,

¹⁴⁾Eli Lilly, ¹⁵⁾Mukogawa Women's University

P-79 Histological background data of Crl:CD(SD) rats in subacute systemic toxicity tests

○ Yukie Abiko

Safety Research Institute for Chemical Compounds Co., Ltd.

P-80 Introducing the toxic pathology common finding list for dogs by the JSTP international committee

○ Junko Sato¹⁾, Toshihisa Fujiwara²⁾, Mari Iida³⁾, Kumiko Ogawa⁴⁾, Hitoshi Kandori⁵⁾, Shunji Nakatsuji⁶⁾, Hirofumi Hatakeyama⁷⁾, Hijiri Iwata⁸⁾

¹⁾Mediford, ²⁾Shin Nippon Biomedical Laboratories, Ltd., ³⁾University of Wisconsin-Madison,

⁴⁾National Institute of Health Sciences, ⁵⁾Axcel Drug Discovery Partners, ⁶⁾Altasciences Preclinical Seattle,

⁷⁾SNBL INA Ltd., ⁸⁾LunaPath Institute of Toxicologic Pathology, Co., Ltd.

P-81 Verification of the active learning in the slide conference presentations hosted by the 2024 JSTP meeting

○ Masanao Yokohira

Department of Medical Education, Faculty of Medicine, Kagawa University

P-82* Challenges and considerations on representing histopathology findings into SEND format — preparation for SENDIG v4.0 —

○ Namika Saito, Atsushi Uematsu, Shin-ichi Horikawa, Konomi Iino, Hirofumi Hatakeyama

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