

Program

Special Lecture 1

Day1 January 22 (Thu)

16:45 – 17:45

Lecture Hall (2F Large Hall)

Chair: Satoru Takahashi (Nagoya City University)

SL-1 The innovative cancer therapies targeting cancer stromal senescent cells

○ Makoto Nakanishi

Division of Cancer Cell Biology, The Institute of Medical Science, The University of Tokyo

Special Lecture 2

Day2 January 23 (Fri)

13:20 – 14:20

Lecture Hall (2F Large Hall)

Chair: Kiyokazu Ozaki (Setsunan University)

Etsuko Ohta (Eisai Co., Ltd.)

SL-2 Regenerative medicine using genome-edited pluripotent stem cell-derived retinal organoid transplantation

○ Michiko Mandai^{1,2)}

¹⁾Research Center, Kobe City Eye Hospital, ²⁾RIKEN BDR

Symposium1 NAMs and Toxicologic Pathology: Potential for Next-Generation Evaluation Methods

Day1 January 22 (Thu)

10:15 – 12:15

Lecture Hall (2F Large Hall)

Chair: Takeshi Toyoda (National Institute of Health Sciences)

Shugo Suzuki (Osaka Metropolitan University)

S1-1 Advancing in New Approach Methodologies (NAMs) in safety assessment and expectations for toxicologic pathology

○ Takashi Yamada

Division of Cellular and Molecular Toxicology, Center for Biological Safety and Research,
National Institute of Health Sciences

S1-2 Drug discovery applications of lung organoids and future perspectives

○ Yuki Yamamoto

HiLung Inc.

S1-3 Development of organoid-based evaluation assay systems

○ Yoshiaki Maru

Laboratory of Precision Tumor Model Systems, Chiba Cancer Center Research Institute

S1-4 Potential of microphysiological systems as NAMs for *in vitro* toxicity assessment

○ Hiroshi Kimura

Micro/Nano Technology Center, Tokai University

Symposium2 Can the Virtual Control Groups (VCGs) Be Applied for Toxicologic Pathology Evaluation?

Day1 January 22 (Thu)

13:25 – 15:25

Lecture Hall (2F Large Hall)

Chair: Takeshi Izawa (Osaka Metropolitan University)

Katsuhiro Miyajima (Tokyo University of Agriculture)

S2-1 Can virtual control groups (VCGs) be applied to the toxicologic pathology evaluation?

—Overview of VCGs—

○ Gen Sato^{1,2)}

¹⁾VCG Discussion Team, Non-Clinical Evaluation Expert Committee, Drug Evaluation Committee, JPMA,

²⁾Global Nonclinical Regulatory Affairs, Eisai Co., Ltd.

S2-2 Pathological evaluation in toxicity studies utilizing Virtual Control Groups: current status and challenges

○ Satomi Nishikawa^{1,2)}

¹⁾VCG Discussion Team, Non-Clinical Evaluation Expert Committee, Drug Evaluation Committee, Japan Pharmaceutical Manufacturers Association (JPMA),

²⁾Tanabe Pharma Corporation

S2-3 The path towards qualification and regulatory acceptance of Virtual Control Groups (VCGs)

—the IHI VICT3R Project

○ Thomas Steger-Hartmann¹⁾, Ferran Sanz²⁾, Frank Bringezu³⁾, Inari Soininen⁴⁾

¹⁾Bayer AG, Pharmaceuticals, ²⁾Universitat Pompeu Fabra, Hospital del Mar Research Institute,

³⁾Merck Healthcare KGaA, Chemical & Preclinical Safety,

⁴⁾SYNAPSE Research Management Partners SL

Symposium3 Toxicologic Pathology and Symbol Grounding Problem—What Does It Mean to Understand Pathology and Interpret Findings?

Day2 January 23 (Fri)

10:10 – 12:10

Lecture Hall (2F Large Hall)

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

Junko Sato (Mediford Corporation)

S3 Toxicologic pathology and symbol grounding problem—what does it mean to understand pathology and interpret findings?

○ Masako Imaoka¹⁾, Junko Sato²⁾

¹⁾Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd., ²⁾Mediford Corporation

S3-1 Variety in pathological terminology

○ Kiyokazu Ozaki

Laboratory of Pathology, Faculty of Pharmaceutical Sciences, Setsunan University

S3-2 What does it mean to understand? The significance of human understanding from the view of symbol grounding problem

○ Masachi Osawa

President of Thinking “O”

S3-3 Survey results sharing from Science Subcommittee

○Atsuko Murai^{1,2)}

¹⁾Pathobiology Group, Safety and Bioscience Research Department, Translational Research Division,
Chugai Pharmaceutical Co., Ltd.,

²⁾Member of the Science Subcommittee, Japanese Society of Toxicologic Pathology

S3-4 The future of toxicologic pathology (The true value connecting through general pathology)

○Hijiri Iwata

Laboratory of Toxicologic Pathology, LunaPath Co., Ltd.

IATP Maronpot Guest Lecture

Day2 January 23 (Fri)

9:00 – 10:00

Lecture Hall (2F Large Hall)

Chair: Katsuhiko Yoshizawa (Mukogawa Women's University)

Takeshi Izawa (Osaka Metropolitan University)

IATP Application of alternative methods and technologies for cancer hazard identification

○Arun R Pandiri

Leader Molecular Pathology Group, Division of Translational Toxicology,
National Institute of Environmental Health Sciences

Workshop

Day1 January 22 (Thu)

9:05 – 10:05

Lecture Hall (2F Large Hall)

Chair: Akihiro Hirata (Gifu University)

Toshio Imai (Central Institute for Experimental Medicine and Life Science)

W1-1* Mechanism of cytoplasmic inclusion formation involved in acetamide-induced rat hepatocarcinogenesis

○Yohei Yamagami^{1,2)}, Yuji Ishii¹⁾, Shinji Takasu¹⁾, Meili Soma¹⁾, Takeshi Toyoda¹⁾,
Tomoaki Murakami²⁾, Kumiko Ogawa^{1,3)}

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

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

³⁾Department of Toxicology, Hoshi University

W1-2* Early pulmonary gene expression changes induced by carbon nanotubes and chemical carcinogens in rat lungs

○Omnia Ahmed^{1,2,3)}, Aya Naiki-Ito²⁾, David Alexander¹⁾, Satoru Takahashi²⁾, Hiroyuki Tsuda^{1,2)}

¹⁾Nanotoxicology 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

W1-3* Regulation of mutant transcripts by nonsense-mediated mRNA decay (NMD) in dogs and mice with the germline APC variants

○Teruaki Hirota^{1,2)}, Sara Shiomi²⁾, Hiroki Sakai^{1,2,3)}, Akihiro Hirata^{1,2,3)}

¹⁾Joint Graduate School of Veterinary Science, 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), Institute for Advanced Study,
Gifu University

W1-4* Size and surface properties of silica particles in endocytosis-mediated cellular responses in murine macrophages

○Dipankar Chandra Roy, Kenji Ono, Katsumi Fukamachi, Masumi Suzui

Department of Neurotoxicology, Nagoya City University Graduate School of Medical Sciences and Medical School

Poster Presentation 1 Nervous System and Special Sense Organs 1

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

Chair: Tomoaki Tochitani (Sumitomo Pharma Co., Ltd.)

Atsuko Murai (Chugai Pharmaceutical Co., Ltd.)

P-01* Case report: resembling human superficial siderosis caused by spontaneous cerebral necrosis in a dog

○Junko Takai, Keiko Ogata, Yukako Shimotsuma, Dai Hasegawa, Ryohei Oba, Satoki Fukunaga, Masahiko Kushida, Hiroyuki Asano

Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd.

P-02* Rare macular ganglion cell pathology following intravitreal AAV injection in monkeys: two distinct phenotypes

○Haoyun Li^{1,2}, Kai Zhang¹, Yangyang Wu¹, Mengjun Dai¹, Qian Ye¹, Yafei Zhang¹, Yuan Zhang¹, Fengjiao Sun¹, Jingyi Zhu¹, Yongfang Chen¹, Minghui Feng¹, Yanfang Wang¹

¹TriApex Laboratories Co., Ltd., ²Department of Veterinary Medicine, Yangzhou University

P-03* A case of spontaneous lysosomal storage disease in a Crl:CD1(ICR) mouse

○Naoki Ujike, Saori Shimizu, Naoaki Yamada

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

P-04 Establishment of a method for mouse vascular casting using MICROFIL[®] and strain differences in brain base vasculature

○Kyohei Yasuno, Yuko Hasegawa, Masako Imaoka, Katsuyoshi Chiba

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

P-05* Safety assessment of human cell preparation for Parkinson's disease treatment in NOG mice

○Rongzhen Zhao¹, Rui Zhang¹, Xueling Yu¹, Zheng Li¹, Hongnian Guo¹, Bowen Dong¹, Zhenying Ji², Jiao Yao², Ting Zhang³, Meishuo Wan³, Lili Wang¹, Weijuan Zhang¹, Duoni Zhang¹, Hui Guo¹, Baojian Li¹

¹Joynn Laboratories (Suzhou) Co., Ltd., ²Saifu Laboratories Suzhou Co., Ltd.,

³Pharmaron (Beijing) TSP Services Limited

P-06* Developmental exposure to diphenylarsinic acid selectively alters gene expression in the hippocampus of SD rat offspring

○Guiyu Qiu¹, Min Gi¹, Shugo Suzuki², Makaki Fujioka², Takashi Yamaguchi², Hideki Wanibuchi¹

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

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

Poster Presentation 2 Nervous System and Special Sense Organs 2

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

Chair: Keiko Ogata (Sumitomo Chemical Co., Ltd.)

Takahisa Noto (Santen Pharmaceutical Co., Ltd.)

P-07* Ophthalmological and histopathological observations of spontaneous inferior corectopia in ICR mice

○ Kai Zhang, Chuanbao Zhang, Haoyun Li, Yangyang Wu, Qian Ye, Mengjun Dai, Yafei Zhang, Fengjiao Sun, Yongfang Chen, Yuan Zhang, Jingyi Zhu, Minghui Feng, Yanfang Wang
TriApex Laboratories Co., Ltd.

P-08* Characterization of retinopathy with rod photoreceptor heterotopia in B-hIL4/hIL4RA mice on a C57BL/6N background

○ Mengjun Dai, Qian Ye, Kai Zhang, Haoyun Li, Yangyang Wu, Yafei Zhang, Fengjiao Sun, Yongfang Chen, Yuan Zhang, Jingyi Zhu, Yanfang Wang, Minghui Feng
TriApex Laboratories Co., Ltd.

P-09 Age-related changes in intraepidermal nerve fibers and subepidermal nerve plexuses in mice by 3D analysis

○ Kiyokazu Ozaki, Taiga Suzuki, Ayumi Matsuda, Minoru Kojima, Tetsuro Matsuura
Laboratory of Pathology, Faculty of Pharmaceutical Sciences, Setsunan University

P-10 Optimization of fixation methods for morphology and immunohistochemistry in experimental autoimmune uveitis mouse eyes

○ Chie Kato^{1,2)}, Mitsue Kurasawa¹⁾, Hiroto Abe¹⁾, Minto Nakagawa²⁾, Tomohiko Iwakura¹⁾, Atsuhiko Kato²⁾
¹⁾Product Research Dept., Medical Affairs Div., Chugai Pharmaceutical Co., Ltd.,
²⁾Safety and Bioscience Research Dept., Translational Research Div., Chugai Pharmaceutical Co., Ltd.

P-11 Mouse model study of processed meat-derived nitroso compounds impacting brain-gut axis

○ Mio Kobayashi¹⁾, Tetsushito Kigata²⁾, Makoto Shibutani¹⁾, Toshinori Yoshida¹⁾
¹⁾Laboratory of Veterinary Pathology, Cooperative Department of Veterinary Medicine, Tokyo University of Agriculture and Technology,
²⁾Laboratory of Veterinary Anatomy, Cooperative Department of Veterinary Medicine, Tokyo University of Agriculture and Technology

Poster Presentation 3 Respiratory Tract 1

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

Chair: Masanao Yokohira (Kagawa University)

Shotaro Yamano (JOHAS JNIOH)

P-12* Mode of action analysis for mouse lung tumors induced by permethrin: involvement of CYP2F2 enzyme and human relevancy

○ Dai Hasegawa, Kensuke Kawamoto, Keiko Ogata, Satoki Fukunaga, Hiroyuki Asano
Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd.

P-13* Toxicity study of repeated intranasal administration of a certain excipient to Sprague-Dawley rats for 4 weeks

○Bowen Dong¹⁾, Rui Zhang¹⁾, Hongnian Guo¹⁾, Zheng Li¹⁾, Xin Sun²⁾, Zhenying Ji³⁾, Jiao Yao³⁾, Ting Zhang⁴⁾, Meishuo Wan⁴⁾, Qi Sun¹⁾, Rongzhen Zhao¹⁾, Xueling Yu¹⁾

¹⁾Joinn Laboratories (Suzhou) Co., Ltd., ²⁾Joinn Laboratories (Beijing) Co., Ltd.,

³⁾Saifu Laboratories Suzhou Co., Ltd., ⁴⁾Pharmaron (Beijing) TSP Services Limited

P-14* Case report: spontaneous adenosquamous carcinoma in the larynx of an SD rat

○Yukako Shimotsuma, Dai Hasegawa, Junko Takai, Ryohei Oba, Keiko Ogata, Masahiko Kushida, Satoki Fukunaga, Hiroyuki Asano

Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd.

P-15* Pathological features of pulmonary hypoplasia observed spontaneously in beagle dogs

○Takashi Ogawa¹⁾, Chika Hirowatari²⁾, Ayako Sayama¹⁾, Hiroko Kokoshima²⁾, Kinji Kobayashi²⁾, Masako Imaoka¹⁾, Katsuyoshi Chiba¹⁾

¹⁾Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.,

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

P-16 Comparative analysis of the toxic effects on the mouse lung of 4 weeks exposure to Ploom TECH+ and 3R4F cigarettes

○Ikue Noura¹⁾, Shugo Suzuki¹⁾, Min Gi²⁾, Masaki Fujioka¹⁾, Taisuke Matsue¹⁾, Anna Kakehashi¹⁾, Hideki Wanibuchi^{1,2)}

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

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

P-17* A novel *in vitro* alternative for assessing chemical inhalation toxicity using A549 neutral red uptake assay

○Yurina Kawamura¹⁾, Arpamas Vachiraarunwong¹⁾, Masaki Fujioka²⁾, Shugo Suzuki²⁾, Guiyu Qiu¹⁾, Guiyu Guo¹⁾, Runjie Noura²⁾, Anna Kakehashi²⁾, Takashi Yamaguchi²⁾, Hideki Wanibuchi^{1,2)}, 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

Poster Presentation 4 Digestive System 1

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

Chair: Atsuhiko Kato (Chugai Pharmaceutical Co., Ltd.)

Tomoya Sano (Takeda Pharmaceutical Company Limited)

P-18* A case of atypical unicystic ameloblastoma arising in the left maxillary sinus of a cynomolgus monkey

○Yuri Ebizuka, Hideki Tanaka, Jyunichi Sugiyama, Shota Yoshida

Preclinical Basic Research Division, Taiho Pharmaceutical Co., Ltd.

P-19* Morphological characteristics of incisor toxicity in rats induced by ipflufenquinone

○Koya Kunii, Rin Segawa, Satoshi Inoue, Hirofumi Hatakeyama, Miki Masatsugu, Riko Ito, Toko Maehara, Hiroshi Satoh

Department of Veterinary Medicine, Iwate University

P-20* Systemic *Yersinia pseudotuberculosis* infection in three common marmosets

○Kento Ishikawa¹⁾, James Chambers¹⁾, Yasutsugu Miwa²⁾, Kazuyuki Uchida¹⁾

¹⁾Laboratory of Veterinary Pathology, The University of Tokyo, ²⁾Miwa Exotic Animal Hospital

P-21* Non-amyloid eosinophilic deposits in the small intestine of a cynomolgus monkey

○Maiko Miura, Gerardo Takeuchi, Maki Nemoto, Hiroko Kokoshima, Kinji Kobayashi
Drug Safety Research Laboratories, Shin Nippon Biomedical Laboratories, Ltd.

P-22* Establishment of periodontitis model in SD rats

○Xin Sun¹⁾, Jing Hu¹⁾, Hingyuet Ku¹⁾, Yujie Gu¹⁾, Meishuo Wan⁴⁾, Ting Zhang⁴⁾, Xueling Yu²⁾,
Weijuan Zhang²⁾, Lili Wang²⁾, Bowen Dong²⁾, Zheng Li²⁾, Hongnian Guo²⁾, Jiao Yao³⁾, Zhenying Ji³⁾,
Yasuhiko Hirouchi²⁾
¹⁾Joynn Laboratories (Beijing) Co., Ltd., ²⁾Joynn Laboratories (Suzhou) Co., Ltd.,
³⁾Saifu Laboratories Suzhou Co., Ltd., ⁴⁾Pharmaron (Beijing) TSP Services Limited

P-23* Loss of oncomodulin enhances susceptibility to DMH-induced colon carcinogenesis in rats

○Runjie Guo¹⁾, Arpamas Vachiraarunwong¹⁾, Shugo Suzuki²⁾, Masaki Fujioka²⁾, Guiyu Qiu¹⁾,
Yurina Kawamura¹⁾, Juncheng Pan¹⁾, 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

Poster Presentation 5 Digestive System 2

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

Chair: Yuki Seki (Eisai Co., Ltd.)

Kaoru Toyoda (Shionogi & Co., Ltd.)

P-24 Histopathological examination of an AOM-DSS-induced colitis-associated colorectal cancer model in mice

○Makiko Yamaoka, Takuma Maruyama, So Taniguchi
Toxicology Research Laboratory, Watarase Research Center, Kyorin Pharmaceutical Co., Ltd.

P-25* Ameliorative effects of Korean red ginseng polysaccharides on antibiotic-induced diarrhea and gut microbiota in mice

○Sungjin Kim¹⁾, Su Ji Min¹⁾, Hiyoun Kim²⁾
¹⁾College of Korean Medicine, Gachon University,
²⁾Department of Biomedical Science and Engineering, Konkuk University

P-26* Quantitative analysis of pERK-positive area using intestinal organoids derived from various animal species

○Yuko Ito¹⁾, Yuki Sudo¹⁾, Tomoyo Ikeda¹⁾, Yukino Kato¹⁾, Naoko Awasaki¹⁾, Kai Tanaka²⁾,
Yoshiyuki Arata¹⁾, Masaki Yamazaki¹⁾
¹⁾Safety and Bioscience Research Dept., Chugai Pharmaceutical Co., Ltd.,
²⁾Pharmaceutical Science Dept., Chugai Pharmaceutical Co., Ltd.

P-27 Differences in characteristics and biological significance between esophageal and forestomach organoids from rasH2 mice

○Toshio Imai, Manami Akeyoshi, Misa Mochizuki, Ryo Inoue, Chiyoko Nishime, Masami Suzuki
Central Institute for Experimental Medicine and Life Science

P-28 Post-treatment fate of titanium dioxide particles in the Peyer's patches of F344 rats after repeated oral administration

○Jun-ichi Akagi¹⁾, Yasuko Mizuta¹⁾, Kohei Matsushita¹⁾, Takeshi Toyoda¹⁾, Kumiko Ogawa^{1,2)}
¹⁾Division of Pathology, National Institute of Health Sciences, ²⁾Department of Toxicology, Hoshi University

P-29* Establishment of an *in vitro* intestinal toxicity evaluation system using dexamethasone administration to mice

○Runa Inoue¹⁾, Akari Takeda²⁾, Chisa Ohashi²⁾, Miyuu Sano²⁾, Rion Hatanaka²⁾, Kinuko Uno³⁾,
Noriko Kemuriyama²⁾, Tatsuya Maekawa^{1,2)}, Katsuhiro Miyajima^{1,2)}

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

²⁾Department of Food and 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

Poster Presentation 6 Liver and Exocrine Pancreas 1

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

Chair: Miwa Takahashi (Astellas Pharma Inc.)

Hironobu Yasuno (Takeda Pharmaceutical Co., Ltd.)

P-30* Two cases of congenital intrahepatic arteriovenous fistulae in cynomolgus monkeys

○Rio Ushiroda, Junko Fujishima, Kinji Kobayashi, Yutaka Chihaya
Drug Safety Research Laboratories, Shin Nippon Biomedical Laboratories, Ltd.

P-31* Case report: accessory liver lobe torsion in the lesser omentum of a New Zealand White rabbit

○Momoka Shobudani, Yuzo Yasui, Akiko Anagawa-Nakamura, Taishi Shimazaki, Ryo Yamazaki,
Yu Ikeuchi, Toshiyuki Shoda
Toxicology Research Laboratory, Shionogi & Co., Ltd.

P-32* Differences in liver injury between male and female Sprague-Dawley rats treated by siRNA targeting complement C3

○Hongnian Guo¹⁾, Zheng Li¹⁾, Bowen Dong¹⁾, Xin Sun³⁾, Jiao Yao²⁾, Zhenying Ji²⁾, Rongzhen Zhao¹⁾,
Xueling Yu¹⁾, Ting Zhang⁴⁾, Meishuo Wan⁴⁾

¹⁾Joinn Laboratories (Suzhou) Co., Ltd., ²⁾Saifu Laboratories Suzhou Co., Ltd.,

³⁾Joinn Laboratories (Beijing) Co., Ltd., ⁴⁾Pharmaron (Beijing) TSP Services Limited

P-33* Hepatotoxic responses of carboxylate and sulfonate PFASs in immortalized human hepatocytes

○Arpamas Vachiraarunwong¹⁾, Shugo Suzuki²⁾, Masaki Fujioka²⁾, Runjie Guo¹⁾, Guiyu Qiu¹⁾,
Yurina Kawamura¹⁾, Ikue Noura²⁾, Takashi Yamaguchi²⁾, 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-34* Histopathological analysis of hepatic lesions observed in *Pkd1* conditional knockout mice

○Sakura Fujiwara¹⁾, Makoto Sato¹⁾, Takuma Tsuchiya¹⁾, Risa Yamanaka¹⁾, Hiroshi Mizuguchi²⁾,
Hiroyuki Fujiki²⁾, Tsuyoshi Yoshikawa¹⁾

¹⁾Preclinical Research, Tokushima Research Center for Drug Discovery, Otsuka Pharmaceutical Co., Ltd.,

²⁾Renal and Cardiovascular Research, Tokushima Research Center for Drug Discovery,
Otsuka Pharmaceutical Co., Ltd.

Poster Presentation 7 Liver and Exocrine Pancreas 2

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

Chair: Shinji Takasu (National Institute of Health Sciences)
Satomi Nishikawa (Tanabe Pharma Corporation)

P-35* Early detection of hepatocarcinogens in rats by immunohistochemistry-based decision tree analysis

○ Mizuho Uneyama¹⁾, Shinji Takasu¹⁾, Hirotohi Akane¹⁾, Tomomi Morikawa¹⁾, Kumiko Ogawa^{1,2)}, Takeshi Toyoda¹⁾

¹⁾Division of Pathology, National Institute of Health Sciences, ²⁾Department of Toxicology, Hoshi University

P-36* Evaluation of culture conditions for *ex vivo* carcinogenicity testing of rasH2 mouse-derived liver organoids

○ Manami Akeyoshi, Chiyoko Nishime, Misa Mochizuki, Masami Suzuki, Toshio Imai
Central Institute for Experimental Medicine and Life Science

P-37* Impact of tissue section thickness on the evaluation of fibrosis by image analysis

○ Yasumasa Toda¹⁾, Ayano Hirako¹⁾, Natsuko Hada²⁾, Atsuhiko Kato¹⁾, Masaki Yamazaki¹⁾

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

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

P-38 Quantitative evaluation using HALO AI in a MASH model using PXB-mice

○ Takafumi Oshikata¹⁾, Yutaka Nakahara¹⁾, Takeshi Kanno²⁾, Tsuyoshi Higuchi¹⁾

¹⁾Research Unit 2, Drug Discovery Innovation Center, Non-clinical Business Segment, Business Management Division, Mediford Corporation,

²⁾Pathology Department, Drug Discovery Regulatory Center, Non-clinical Business Segment, Business Management Division Mediford Corporation

P-39* Canagliflozin suppresses pancreatic fibrosis in a mouse pancreatitis model

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

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

P-40 The impact of peroxiredoxin 3 on diagnosis and prognosis of pancreatic ductal adenocarcinoma

○ Anna Kakehashi¹⁾, Yusaku Nishidoi¹⁾, Ikue Noura¹⁾, Guiyu Qiu^{1,2)}, Arpamas Vachiraarunwong^{1,2)}, Masaki Fujioka¹⁾, Min Gi^{1,2)}, Hideki Wanibuchi^{1,2)}, Shugo Suzuki¹⁾

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

²⁾Dept. Environ. Risk Assessment, Osaka Metropol. Univ. Grad. Sch. Med.

Poster Presentation 8 Liver and Exocrine Pancreas 3

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

Chair: Masahiko Kushida (Sumitomo Chemical Co., Ltd.)
Anna Kakehashi (Osaka Metropolitan University)

P-41 Effect of the antioxidant of bear bile powder and Ursodeoxycholic acid on GST-P positive foci induced by DEN

○ Meilan Jin¹⁾, Guiyang Jia¹⁾, Rui Dong¹⁾, Mengru Wang²⁾, Kexin Zhang²⁾, Kaiyi Xu²⁾

¹⁾Southwest University Laboratory Animal Center, ²⁾College of Veterinary Medicine, Southwest University

P-42* Transplacental Dimethylarsinic acid exposure induces hepatocarcinogenesis in male CD1 mice via abnormal DNA methylation

○Masaki Fujioka¹⁾, Shugo Suzuki¹⁾, Min Gi²⁾, Arpamas Vachiraarunwong²⁾, Ikue Noura¹⁾, Guiyu Qiu²⁾, Yurina Kawamura²⁾, Yuji Oishi¹⁾, Takashi Yamaguchi¹⁾, Anna Kakehashi¹⁾, Hideki Wanibuchi²⁾

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

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

P-43 Involvement of chromothripsis in methyl carbamate-induced rat hepatocarcinogenesis

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

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

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

³⁾Department of Toxicology, Hoshi University

P-44* Analysis of changes in FABP expression in the mouse liver following the administration of hepatotoxic substances

○Sayaka Ohashi¹⁾, Yoshihide Amada²⁾, Noriko Kemuriyama²⁾, Tatsuya Maekawa^{1,2)}, Yukari Totsuka³⁾, Katsuhiko Miyajima^{1,2)}

¹⁾Department of Food Safety and Health, Graduate School of Applied Biological, Tokyo Graduate School of Agriculture,

²⁾Department of Food Safety and Health, Faculty of Applied Biological Sciences, Tokyo University of Agriculture,

³⁾Faculty of Pharmacy, Hoshi Pharmaceutical University

P-45 Time-course analysis of changes in the subcapsular region in the early phase of furan-induced liver injury in rats

○Shinji Takasu, Hirotohi Akane, Mizuho Uneyama, Tomomi Morikawa, Takeshi Toyoda

Division of Pathology, National Institute of Health Sciences

P-46* Induction of M1 macrophages by DAMPs exacerbates LPS-induced liver injury

○Yuki Takami, Takeshi Izawa, Mitsuru Kuwamura, Jyoji Yamate

Laboratory of Veterinary Pathology, Osaka Metropolitan University

Poster Presentation 9 Integumentary and Musculoskeletal Systems

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

Chair: Tomo Sasaki (Maruho Co., Ltd.)

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

P-47* Immunohistochemical analysis and canine papilloma virus PCR in subungual keratoacanthoma of dogs

○Ryo Saito, James Chambers, Reika Ueda, Kazuyuki Uchida

Laboratory of Veterinary Pathology, Graduate School of Agricultural and Life Sciences, The University of Tokyo

P-48* SGLT2 inhibitor modulates muscle fiber type in an obese type 2 diabetes mouse model

○Yuiko Kubota¹⁾, Kinuko Uno¹⁾, Tomohiko Sasase¹⁾, Minoru Okumura¹⁾, Kaito Nakanishi¹⁾, Misato Matsui¹⁾, Yoshinobu Doi²⁾, Masami Shinohara²⁾, Miki Sugimoto¹⁾, Takeshi Ohta¹⁾

¹⁾Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University,

²⁾CLEA Japan Inc.

P-49* An osteoarthritis model induced by ACLT in Beagle dogs

○Xueling Yu¹⁾, Rui Zhang¹⁾, Hongnian Guo¹⁾, Zheng Li¹⁾, Rongzhen Zhao¹⁾, Bowen Dong¹⁾, Lili Wang¹⁾, Weijuan Zhang¹⁾, Duoni Zhang¹⁾, Hui Guo¹⁾, Zhenying Ji²⁾, Jiao Yao²⁾, Ting Zhang³⁾, Meishuo Wan³⁾, Xin Sun⁴⁾

¹⁾Joinn Laboratories (Suzhou) Co., Ltd., ²⁾Saifu Laboratories Suzhou Co., Ltd.,

³⁾Pharmaron (Beijing) TSP Services Limited, ⁴⁾Joinn Laboratories (Beijing) Co., Ltd.

P-50* Rabbit cutaneous sarcomas show differentiation toward fibroblasts

○Hinata Niimi¹⁾, Miyuu Tanaka¹⁾, Kohji Nomura²⁾, Mitsuru Kuwamura¹⁾, Takeshi Izawa¹⁾

¹⁾Laboratory of Veterinary Pathology, Osaka Metropolitan University, ²⁾MLT Co., Ltd.

P-51* Time-dependent pathological analysis of auricular lesions in a DNFB induced murine dermatitis model

○Mayuka Watanabe¹⁾, Chihiro Sawamoto²⁾, Hina Shinozaki²⁾, Sayaka Ohashi¹⁾, Noriko Kemuriyama²⁾, Tomohiko Sasase²⁾, Tatsuya Maekawa^{1,2)}, Katsuhiko Miyajima^{1,2)}

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

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

Poster Presentation 10 Immune System and Hematopoietic and Circulatory Systems

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

Chair: Yutaka Nakahara (Mediford Corporation)

Kae Fujisawa (Shionogi & Co., Ltd.)

P-52 A case of malignant lymphoma with co-expression of CD79a and CD3 in young-adult Sprague-Dawley rat

○Masako Imaoka¹⁾, Shinobu Hakamata¹⁾, Ryoto Yoshimoto²⁾, Yoshimi Tsuchiya³⁾, Katsuyoshi Chiba¹⁾

¹⁾Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.,

²⁾Translational Research Laboratories, Daiichi Sankyo Co., Ltd.,

³⁾R&D Management Department, Daiichi Sankyo Co., Ltd.

P-53* CD20 inhibitor cause lymphocyte depletion in multiple organs of monkeys

○Jiao Yao¹⁾, Zhenying Ji¹⁾, Xiuying Yang¹⁾, Ting Zhang²⁾, Meishuo Wan²⁾, Xin Sun³⁾, Hongnian Guo⁴⁾, Zheng Li⁴⁾, Bowen Dong⁴⁾, Xueling Yu⁴⁾, Rongzhen Zhao⁴⁾

¹⁾Saifu Laboratories Suzhou Co., Ltd., ²⁾Pharmaron (Beijing) TSP Services Limited,

³⁾Joinn Laboratories (Beijing) Co., Ltd., ⁴⁾Joinn Laboratories (Suzhou) Co., Ltd.

P-54* A case of vasculitis in Beagle dogs caused by a test article

Pingyao Gao¹⁾, Yifei Wang¹⁾, Renzong Xie¹⁾, Hanjun Zou¹⁾, Xiancheng Zeng¹⁾, Jinna Cai²⁾, Fei Yan¹⁾, Xijun He³⁾, ○Miao Yu¹⁾

¹⁾Medicilon Preclinical Research (Shanghai) LLC.,

²⁾Shanghai Medicilon Inc., ³⁾Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences

P-55* Malignant lymphoma characterized by proliferation in the spleen and co-expression of CD3 and CD79α in a young rat

○Minami Sato¹⁾, Yumi Wako¹⁾, Junko Sato²⁾, Yuki Tomonari¹⁾, Natsumi Shimoyama²⁾, Mitsutoshi Uchida¹⁾, Kana Matsumoto¹⁾, Takuya Doi¹⁾

¹⁾Kashima Pathology Group, Pathology Department, Mediford Corporation,

²⁾Shizuoka Pathology Group, Pathology Department, Mediford Corporation

P-56 Spontaneous findings observed in toxicity studies in common marmosets (*Callithrix jacchus*)

○ Kenjiro Tsubota¹⁾, Annette Romeike²⁾, Junko Fujishima³⁾, Chika Hirowatari³⁾, Kinji Kobayashi³⁾,
Kimiaki Hirakawa³⁾, Yumi Nikaido¹⁾, Kyohei Kamio¹⁾, Hikaru Mitori¹⁾, Kei Tamura¹⁾,
Miwa Takahashi¹⁾, Satoru Kajikawa¹⁾, Mihoko Ono¹⁾

¹⁾Astellas Pharma Inc., ²⁾LabCorp Early Development Services GmbH,

³⁾Drug Safety Research Laboratories, Shin Nippon Biomedical Laboratories, Ltd. (SNBL)

P-57* Comparative study on toxicological pathological features of siRNA drug in cynomolgus monkeys and rats

○ Qian Ye, Yangyang Wu, HaoYun Li, MengJun Dai, YaFei Zhang, Kai Zhang, FengJiao Sun,
JingYi Zhu, YongFang Chen, Yuan Zhang, MingHui Feng, YanFang Wang

TriApex Laboratories Co., Ltd.

Poster Presentation 11 Urinary Tract and Reproductive System and Mammary Gland 1

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

Chair: Min Gi (Osaka Metropolitan University)
Chihiro Noguchi (SNBL Ina, Ltd.)

P-58 Time course analysis for CD44-positive renal tubules in cyclosporin A-induced rat AKI to CKD model

○ Kohei Matsushita¹⁾, Hirotohi Akane¹⁾, Jun-ichi Akagi¹⁾, Tomomi Morikawa¹⁾, Yasuko Mizuta¹⁾,
Kumiko Ogawa^{1,2)}, Takeshi Toyoda¹⁾

¹⁾Division of Pathology, National Institute of Health Sciences, ²⁾Department of Toxicology, Hoshi University

P-59 Histopathological effect of cisplatin on the kidney in adult African clawed frogs (*Xenopus laevis*)

○ Akihiko Sugiyama¹⁾, Hinami Kodama¹⁾, Ikumi Sakai¹⁾, Taira Miyajima¹⁾, Shinichi Nakamura¹⁾,
Masaru Sakurai²⁾, Tetsuya Obayashi³⁾

¹⁾Department of Veterinary Medicine, Faculty of Veterinary Medicine, Okayama University of Science,

²⁾Joint Department of Veterinary Medicine, Joint Faculty of Veterinary Medicine, Yamaguchi University,

³⁾Organization for Research Initiative and Promotion, Tottori University

P-60 Histopathological investigation of cholemic nephropathy in a mouse model of common bile duct ligation

○ Yuzo Yasui, Shin-ichi Oshida, Akiko Anagawa-Nakamura, Taishi Shimazaki, Ryo Yamazaki,
Momoka Shobudani, Toshiyuki Shoda

Toxicology Research Laboratory, Shionogi & Co., Ltd.

P-61* Comparative analysis of adenine-induced renal injury across mouse strains

○ Kaito Nakanishi¹⁾, Keita Sekiguchi¹⁾, Zaixi Fang¹⁾, Masashi Kashiwai²⁾, Chie Shimomura²⁾,
Tatsuya Maekawa³⁾, Katsuhiko Miyajima³⁾, Masami Shinohara²⁾, Tomohiko Sasase¹⁾, Kinuko Uno¹⁾,
Miki Sugimoto¹⁾, Takeshi Ohta¹⁾

¹⁾Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University,

²⁾CLEA Japan Inc., ³⁾Department of Nutritional Science and Food Safety, Faculty of Applied Biosciences,
Tokyo University of Agriculture

P-62* Histopathological analysis of the relationship between CD44 and pEMT in high-phosphorus-induced nephropathy

○ Keita Sekiguchi¹⁾, Kikue Mori³⁾, Nodoka Kagami²⁾, Ryohei Kamino²⁾, Shinsuke Matsui²⁾, Kinuko Uno¹⁾, Noriko Suzuki-Kemuriyama²⁾, Shinichi Katsumata³⁾, Hiroshi Matsuzaki³⁾, Tatsuya Maekawa²⁾, Takeshi Ohta¹⁾, Katsuhiro Miyajima²⁾

¹⁾Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University,

²⁾Department of Nutritional Science and Food Safety, Faculty of Applied Bioscience, Tokyo University of Agriculture,

³⁾Department of Nutritional Science, Faculty of Applied Bioscience, Tokyo University of Agriculture

Poster Presentation 12 Urinary Tract and Reproductive System and Mammary Gland 2

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

Chair: Kohei Matsushita (National Institute of Health Sciences)
Hisako Kinomoto (ZERIA Pharmaceutical Co., Ltd.)

P-63 Drug repurposing identified bortezomib and digoxin as effective *in vitro* and in a mouse model of canine nephroblastoma

○ Yukino Machida¹⁾, Akiho Ishihara¹⁾, Rei Nakahira²⁾, Tomokazu Nagashima¹⁾, Masaki Michishita¹⁾

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

²⁾Department of Radiobiology, Institute for Environmental Sciences

P-64* The different renal pathological findings induced by a small interfering RNA (siRNA) in SD rats

○ Zheng Li¹⁾, Hongnian Guo¹⁾, Rui Zhang¹⁾, Bowen Dong¹⁾, Xin Sun³⁾, Zhenying Ji²⁾, Jiao Yao²⁾, Ting Zhang⁴⁾, Meishuo Wan⁴⁾

¹⁾Joynn Laboratories (Suzhou) Co., Ltd., ²⁾Saifu Laboratories Suzhou Co., Ltd.,

³⁾Joynn Laboratories (Beijing) Co., Ltd., ⁴⁾Pharmaron (Beijing) TSP Services Limited

P-65 Effects of letrozole on rat placental development

○ Satoshi Furukawa¹⁾, Naho Tsuji²⁾, Kazuya Takeuchi²⁾

¹⁾Planning & Development Division, Nissan Chemical Corporation,

²⁾Biological Research Laboratories, Nissan Chemical Corporation

P-66* Histopathological changes in the testes induced by a multinucleation-inducing compound

○ Emi Tomikawa¹⁾, Masakatsu Kawai²⁾, Haruyuki Aoyagi¹⁾, Kei Takahashi¹⁾, Tomoya Miyoshi¹⁾

¹⁾Toray Industries, Inc., ²⁾Kamakura Techno-Science, Inc.

P-67* Unsupervised deep learning-based image analysis model for detecting unlearned findings in rat testis

○ Taishi Shimazaki¹⁾, Yuzo Yasui¹⁾, Naohito Yamada¹⁾, Vedang Kshirsagar²⁾, Saketh Juturu²⁾, Pranab Samanta²⁾, Geetank Raipuria²⁾, Toshiyuki Shoda¹⁾

¹⁾Toxicology Research Laboratory, Shionogi & Co., Ltd., ²⁾AIRA Matrix Private Limited

Poster Presentation 13 Urinary Tract and Reproductive System and Mammary Gland 3

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

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

Yukino Machida (Nippon Veterinary and Life Science University)

P-68* A case of renal lesions caused by a small-molecule anti-tumor drug

○Ting Zhang¹⁾, Hemei Wang¹⁾, Meishuo Wan¹⁾, Jiao Yao²⁾, Zhenying Ji²⁾, Xin Sun³⁾, Hongnian Guo⁴⁾, Zheng Li⁴⁾, Bowen Dong⁴⁾, Rongzhen Zhao⁴⁾, Xueling Yu⁴⁾

¹⁾Pharmaron (Beijing) TSP Services Limited, ²⁾Saifu Laboratories Suzhou Co., Ltd.,

³⁾Joynn Laboratories (Beijing) Co., Ltd., ⁴⁾Joynn Laboratories (Suzhou) Co., Ltd.

P-69* MiR-29 suppresses prostate cancer cell proliferation via the p21-CyclinA pathway

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

Department of Experimental Pathology and Tumor Biology, Nagoya City University

P-70 A case of true hermaphroditism in a female rat

○Kaori Fujimoto, Haruka Narazaki, Kazuhide Okada, Yasuko Yoshikawa, Yuta Takahashi, Masaru Tsuboi

Drug Safety Testing Center

P-71* Pathological features of uterine adenocarcinoma with myoepithelial-like differentiation in rabbits

○Ryogo Nishimura¹⁾, Chinatsu Kozakai¹⁾, Chihiro Masunaga¹⁾, Takeshi Izawa¹⁾, Miyuu Tanaka¹⁾, Hiroshi Sasai²⁾, Mitsuru Kuwamura¹⁾

¹⁾Veterinary Pathology, Osaka Metropolitan University, ²⁾Kitasuma Animal Hospital

P-72* Characterization of spontaneous mammary tumors in Sprague-Dawley rats

○Moeko Aoki, Yumiko Kamiya, Nobuaki Sato, Takuro Endo, Teppei Yamashita, Tsubasa Saito

BoZo Research Center Inc.

Poster Presentation 14 Others 1

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

Chair: Tsubasa Saito (BoZo Research Center Inc.)

Satoshi Suzuki (TAIHO Pharmaceutical Co., Ltd.)

P-73* Supporting thyroid toxicity assessment using AI-based image recognition

○Chinatsu Fujiwara, Azusa Matsunaga, Naofumi Takahashi, Tsuyoshi Ito, Aya Koyama, Atsushi Shiga, Kei Kondo

The Institute of Environmental Toxicology

P-74 Immunohistochemical analyses of antithyroid effects of iodide uptake and deiodinase inhibitors in rats

○Hiroto Akane¹⁾, Shinji Takasu¹⁾, Mizuho Uneyama¹⁾, Tomomi Morikawa¹⁾, Tadashi Kosaka²⁾, Hiroaki Aoyama²⁾, Kumiko Ogawa³⁾, Takeshi Toyoda¹⁾

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

²⁾Toxicology Division, Institute of Environmental Toxicology, ³⁾Department of Toxicology, Hoshi University

P-75* Recovery mechanism of drug-induced vacuolar lesions of the adrenal cortex after drug withdrawal

○ Ryo Obara¹⁾, Yuki Kato¹⁾, Yoshiji Asaoka¹⁾, Yukie Murata¹⁾, Takeshi Izawa²⁾, Mitsuru Kuwamura²⁾

¹⁾Laboratory for Drug Discovery and Development, Shionogi & Co., Ltd.,

²⁾Graduate School of Life and Environmental Sciences, Osaka Prefecture University

P-76* Gonadotropin-releasing hormone (GnRH) agonist-induced alterations in the reproductive system

○ Zhenying Ji¹⁾, Jiao Yao¹⁾, Xiuying Yang¹⁾, Xin Sun²⁾, Zheng Li³⁾, Hongnian Guo³⁾, Xueling Yu³⁾,
Rongzhen Zhao³⁾, Bowen Dong³⁾, Ting Zhang⁴⁾, Meishuo Wan⁴⁾, Lin Zhu⁵⁾, Meixi Zhang⁵⁾, Lei Wang⁵⁾

¹⁾Saifu Laboratories Suzhou Co., Ltd., ²⁾Joinn Laboratories (Beijing) Co., Ltd.,

³⁾Joinn Laboratories (Suzhou) Co., Ltd., ⁴⁾Pharmaron (Beijing) TSP Services Limited,

⁵⁾WuXi AppTec (Suzhou) Co., Ltd.

P-77* Pathological changes in ADC drugs

○ Meishuo Wan¹⁾, Hemei Wang¹⁾, Ting Zhang¹⁾, Jiao Yao²⁾, Zhenying Ji²⁾, Xin Sun³⁾, Hongnian Guo⁴⁾,
Zheng Li⁴⁾, Bowen Dong⁴⁾, Xueling Yu⁴⁾, Rongzhen Zhao⁴⁾

¹⁾Pharmaron (Beijing) TSP Services Limited, ²⁾Saifu Laboratories Suzhou Co., Ltd.,

³⁾Joinn Laboratories (Beijing) Co., Ltd., ⁴⁾Joinn Laboratories (Suzhou) Co., Ltd.

P-78* Pathological characteristics of ADC-induced interstitial pneumonia in cynomolgus monkeys

○ Yangyang Wu, Haoyun Li, Qian Ye, Jingyi Zhu, Fengjiao Sun, Yongfang Chen, Yuan Zhang,
Kai Zhang, Yafei Zhang, Mengjun Dai, Yanfang Wang, Minghui Feng, Chuanbao Zhang

TriApex Laboratories Co., Ltd.

Poster Presentation 15 Others 2

Day1 January 22 (Thu)

15:35 – 16:35

Poster and Exhibition (6F Exhibition Hall)

Chair: Yuichi Murakami (SNBL Ina, Ltd.)

Kaoru Inoue (National Institute of Health Sciences)

P-79* The establishment of patient-derived xenograft from canine and feline tumors

○ Taichi Yasuma, Jyunya Watanabe, Hiroki Sakai, Akihiro Hirata

Laboratory of Veterinary Pathology, United Graduate School of Veterinary Sciences, Gifu University

P-80* Establishment of a high-sensitivity staining method for TCR testing using humanized antibodies

○ Sota Takashino, Sumiko Okuda, Madoka Motoyama, Ken Murakami, Kaori Ikarashi, Yoshiki Tate,
Atsushi Fujiwara, Michiyuki Matsuda

CMIC Pharma Science Co., Ltd.

P-81 Visualization of findings in SEND MI, MA, and TF domains to support toxicologic pathology evaluation

○ Kaoru Nakano, Sanae Ikeda, Atsushi Hamada

Takumi Information Technology Inc.

P-82 Introducing the toxic pathology common finding list for non-human primates by the JSTP International Committee

○ Junko Sato¹⁾, Toshihisa Fujiwara²⁾, Mari Iida³⁾, Kumiko Ogawa⁴⁾, Kiyonori Kai⁵⁾, Shunji Nakatsuji⁶⁾,
Hirofumi Hatakeyama²⁾, Hijiri Iwata⁷⁾

¹⁾Mediford Corporation, 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⁾Laboratory of Toxicologic Pathology, LunaPath Co., Ltd.

P-83 AI pathology tf6, jpma: evaluation of challenges in developing AI pathology models using multi-institutional wsis

- Makoto Shirai^{1,2)}, Satoru Kajikawa^{1,3)}, Etsuko Ohta^{1,4)}, Akira Inomata^{1,5)}, Yui Terayama^{1,6)}, Yuta Fujii^{1,7)}, Toshiko Kinomoto^{1,8)}, Yohei Inai^{1,9)}, Miyoko Okada^{1,10)}, Satoshi Sakai^{1,11)}, Masaki Yamazaki^{1,12)}, Satomi Nishikawa^{1,13)}, Gen Sato^{1,4)}, Mutsumi Suzuki^{1,9)}
- ¹⁾Non-Clinical Evaluation Expert Committee TF6, Drug Evaluation Committee, Japan Pharmaceuticals Manufacturers Association,
²⁾Daiichi Sankyo Co., Ltd., ³⁾Astellas Pharma Inc., ⁴⁾Eisai Co., Ltd., ⁵⁾FUJIFILM Toyama Chemical Co., Ltd.,
⁶⁾Shionogi & Co., Ltd., ⁷⁾Sumitomo Pharma Co., Ltd., ⁸⁾Zeria Pharmaceutical Co., Ltd., ⁹⁾Kyowa Kirin Co., Ltd.,
¹⁰⁾Janssen Pharmaceutical K.K., ¹¹⁾Asahi Kasei Pharma Corporation, ¹²⁾Chugai Pharmaceutical Co., Ltd.,
¹³⁾Tanabe Pharma Corporation

P-84* Current status and challenges in background data of histopathological findings

- Namika Saito¹⁾, Atsushi Uematsu¹⁾, Shin-ichi Horikawa¹⁾, Konomi Iino¹⁾, Hirofumi Hatakeyama¹⁾, Hiromi Nozaki²⁾, Kazuki Sato³⁾, Haruka Narazaki⁴⁾, Dai Nakae⁵⁾, Hijiri Iwata⁶⁾, Takayuki Anzai⁷⁾
- ¹⁾SNBL INA Ltd., ²⁾Safety Research Institute for Chemical Compounds Co., Ltd., ³⁾Trans Genic Inc.,
⁴⁾Drug Safety Testing Center Co., Ltd., ⁵⁾Teikyo Heisei University,
⁶⁾Laboratory of Toxicologic Pathology, LunaPath Co., Ltd., ⁷⁾Showa Medical University

Poster Presentation 16 Others 3

Day2 January 23 (Fri)

14:30 – 15:30

Poster and Exhibition (6F Exhibition Hall)

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

P-85* Histopathological assessment in *rasH2* mice used in 26-week carcinogenesis bioassay of DMBA by dermal treatment

- Shiori Kumagai-Chiba¹⁾, Yuko Doi¹⁾, Yasufumi Ota¹⁾, Masayo Hosoi¹⁾, Yukari Yamaguchi¹⁾, Mai Sasaki¹⁾, Mayumi Kawabe¹⁾, Masahiro Mochizuki¹⁾, Masaaki Kurata¹⁾, Seiki Yamakawa^{1,2)}, Hijiri Iwata²⁾
- ¹⁾TransGenic Inc., ²⁾Laboratory of Toxicologic Pathology, LunaPath Co., Ltd.

P-86 Detailed hazard assessment of 1,4-dioxane under the Chemical Substances Control Law (CSCL)

- Kaoru Inoue, Akira Kawashima
 Division of Risk Assessment, National Institute of Health Sciences

P-87 The histological characteristics of 19-week-old Crl:CD(SD) rats

- Yukie Abiko, Mutsumi Tatsuzaki, Keiko Furukawa
 Safety Research Institute for Chemical Compound Co., Ltd.

P-88 Tumor occurrence of inhalation carcinogenicity test using Allyl alcohol in *rasH2* transgenic mice

- Kenji Takanobu, Hideki Senoh, Misae Saito, Shotaro Yamano, Yumi Umeda
 National Institute of Occupational Safety and Health, Shonan Area, JOHAS

P-89* Nonclinical safety evaluation of a PROTAC candidate: multi-organ toxicity associated with hepatic and renal dysfunction

- Yafei Zhang, Haoyun Li, Kai Zhang, Yangyang Wu, Mengjun Dai, Qian Ye, Fengjiao Sun, Yuan Zhang, Jingyi Zhu, Yongfang Chen, Minghui Feng, Yanfang Wang, Chuanbao Zhang
 TriApex Laboratories Co., Ltd.