

# Program

## Special Lecture 1

Day1. January 23rd (Tue)

13:35 - 14:25

Lecture (8F Main Hall)

Chair: Kumiko Ogawa (National Institute of Health Sciences)

### SL-1 Investigation of the resistance to aging and carcinogenesis in the naked mole-rat, the longest-lived rodent

○Kyoko Miura

Department of Aging and Longevity Research, Faculty of Life Sciences, Kumamoto University

## Special Lecture 2

Day2. January 24th (Wed)

11:10 - 12:00

Lecture (8F Main Hall)

Chair: Katsuhiko Yoshizawa (Mukogawa Women's University)

### SL-2 The actual process of assessment of the effect of food on health at the Food Safety Commission

○Satoshi Asano

Food Safety Commission of Japan, Cabinet Office, Government of Japan

## Symposium 1

### Interpretation of Histopathological Changes Deepened by New Technologies and Insights

Day1. January 23rd (Tue)

10:25 - 12:25

Lecture (8F Main Hall)

Chair: Masami Suzuki (Central Institute for Experimental Animals)  
Min Gi (Osaka Metropolitan University)

### S1-1 Histopathological image analysis by Spatial Transcriptome

○Shumpei Ishikawa<sup>1,2)</sup>

<sup>1)</sup>Department of Preventive Medicine, Graduate School of Medicine, The University of Tokyo,

<sup>2)</sup>Division of Pathology, EPOC, National Cancer Center

### S1-2 Imaging metabolomics deciphers distinct features of metabolism between cancer and cancer stroma in solid cancer

○Makoto Suematsu<sup>1,2)</sup>

<sup>1)</sup>Central Institute for Experimental Medicine and Life Science, <sup>2)</sup>Keio University WPI-Bio2Q Research Center

### S1-3 Linear ubiquitination-mediated regulation of inflammatory and immune responses and its involvement in diseases

○Fuminori Tokunaga

Department of Medical Biochemistry, Graduate School of Medicine, Osaka Metropolitan University

### S1-4 Immortalization of primary human cells and its application to cancer research

○Tohru Kiyono

Project for Prevention of HPV-related Cancer, Exploratory Oncology Research and Clinical Trial Center, National Cancer Center

## Symposium 2 Current and Future Perspectives of AI Technology in Toxicologic Pathology

Day2. January 24th (Wed)

09:00 - 11:00

Lecture (8F Main Hall)

Chair: Hisashi Anayama (Takeda Pharmaceutical Co., Ltd.)  
Kochi Kakimoto (BoZo Research Center Inc.)

### S2-1 Activities on medical bigdata research center in National Institute of Informatics

○Masaru Kitsuregawa<sup>1,2)</sup>

<sup>1)</sup>Inter-University Research Institute Corporation Research Organization of Information and Systems,

<sup>2)</sup>The University of Tokyo

### S2-2 Introducing Minitox 1.0: A new decision support AI tool for the bench toxicologic pathologist

○Daniel G. Rudmann

Charles River Laboratories

### S2-3 Digital pathology and artificial intelligence toward clinical practice

○Tetsuya Tsukamoto<sup>1)</sup>, Yuka Kiriyama<sup>1,2)</sup>, Ayano Michiba<sup>1)</sup>

<sup>1)</sup>Department of Diagnostic Pathology, Fujita Health University,

<sup>2)</sup>Department of Diagnostic Pathology, Narita Memorial Hospital

### S2-4 JPMA's initiative for AI pathology

○Izumi Matsumoto<sup>1,2)</sup>

<sup>1)</sup>Sumitomo Pharma Co., Ltd.,

<sup>2)</sup>AI Pathology Task Force, Non-clinical Evaluation Expert Committee, Drug Evaluation Committee,  
Japan Pharmaceuticals Manufacturers Association

## Panel Discussion

Day2. January 24th (Wed)

13:10 - 14:40

Lecture (8F Main Hall)

Chair: Atsuhiko Kato (Chugai Pharmaceutical Co., Ltd.)  
Junko Sato (Mediford Corporation)

### PD Do we know everything already? — The ever-troublesome world of “boundaries of proliferative lesions” —

Panelists:

Toshihisa Fujiwara (Shin Nippon Biomedical Laboratories, Ltd.)

Hijiri Iwata (Laboratory of Toxicologic Pathology, LunaPath Co., Ltd.)

Takeshi Izawa (Osaka Metropolitan University)

Katsuhiko Miyajima (Tokyo University of Agriculture)

Toko Ohira (Shanghai InnoStar Bio-tech Co., Ltd.)

Etsuko Ohta (Global Drug Safety, Eisai Co., Ltd.)

Yoshimasa Okazaki (AnaPath Services GmbH)

Kiyokazu Ozaki (Setsunan University)

Yuko Yamaguchi (Bozo Research Center Inc.)

## IATP Maronpot Guest Lecture

Day1. January 23rd (Tue)

15:45 - 16:35

Lecture (8F Main Hall)

Chair: Shim-mo Hayashi (National Institute of Health Sciences)

### IATP Cell proliferation and carcinogenesis

○ Samuel M. Cohen

University of Nebraska Medical Center

## Workshop 1

Day1. January 23rd (Tue)

09:15 - 10:15

Lecture (8F Main Hall)

Chair: Katsuhiko Miyajima (Tokyo University of Agriculture)

Hiroko Kokoshima (Shin Nippon Biomedical Laboratories, Ltd.)

### W1-1\* Evaluating hepatic metabolism and carcinogenicity of dimethylarsinic acid using humanized liver mice model

○ Arpamas Vachiraarunwong<sup>1)</sup>, Min Gi<sup>1,2)</sup>, Masaki Fujioka<sup>2)</sup>, Shugo Suzuki<sup>2)</sup>, Guiyu Qiu<sup>2)</sup>,  
Runjie Guo<sup>1)</sup>, Anna Kakehashi<sup>2)</sup>, Hideki Wanibuchi<sup>2)</sup>

<sup>1)</sup>Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine,

<sup>2)</sup>Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine

### W1-2\* Angiotensin II receptor blocker suppresses liver injury and fibrosis 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.

### W1-3\* Analysis of the relationship between blood levels of Mac-2 binding protein and progression of liver fibrosis in mice

○ Ryohei Kamino<sup>1)</sup>, Teppei Uechi<sup>1)</sup>, Marika Tohma<sup>1)</sup>, Noriko Kemuriyama<sup>2)</sup>, Tomohiko Sasase<sup>3)</sup>,  
Tatsuya Maekawa<sup>2)</sup>, Dai Nakae<sup>2,4)</sup>, Katsuhiko Miyajima<sup>1,2)</sup>

<sup>1)</sup>Department of Food and Nutritional Science, Graduate School of Agriculture, Tokyo University of Agriculture,

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

<sup>3)</sup>Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University,

<sup>4)</sup>Department of Medical Sports, Faculty of Health Care and Medical Sports, Teikyo Heisei University

### W1-4\* Involvement of epigenetic mechanism by altered DNA methylation in early process of renal carcinogenesis by ochratoxin A

○ Shunsuke Ozawa<sup>1,2)</sup>, Ryota Ojiro<sup>1,2)</sup>, Qian Tang<sup>1,2)</sup>, Xinyu Zou<sup>1,2)</sup>, Toshinori Yoshida<sup>1,2)</sup>,  
Makoto Shibutani<sup>1,2)</sup>

<sup>1)</sup>Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology,

<sup>2)</sup>Cooperative Division of Veterinary Sciences, Graduate School of Agriculture,  
Tokyo University of Agriculture and Technology

## Workshop 2

Day1. January 23rd (Tue)

14:35 - 15:35

Lecture (8F Main Hall)

Chair: Toshihisa Fujiwara (Shin Nippon Biomedical Laboratories, Ltd.)  
Aya Naiki-Ito (Nagoya City University)

### W2-1\* Elucidation of 3D structure of cutaneous nerve fibers and establishment a 3D quantitative analysis method

- Minoru Inanaga, Erina Kaitani, Ayumi Matsuda, Tetsuro Matsuura, Kiyokazu Ozaki  
Laboratory of Pathology, Faculty of Pharmaceutical Sciences, Setsunan University

### W2-2\* Development of deep learning-based image analysis models and its application in rat early-stage toxicity studies

- Taishi Shimazaki<sup>1)</sup>, Yuzo Yasui<sup>1)</sup>, Kyotaka Muta<sup>1)</sup>, Naohito Yamada<sup>1)</sup>, Thomas Tijo<sup>2)</sup>, Joshi Uttara<sup>2)</sup>, Toshiyuki Shoda<sup>1)</sup>  
<sup>1)</sup>Toxicology Research Laboratories, Yokohama Research Center, Central Pharmaceutical Research Institute, Japan Tobacco Inc.,  
<sup>2)</sup>AIRA Matrix Private Limited

### W2-3\* Investigating methods for quantifying lipid content in a NAFL model using HALO<sup>®</sup> and HALO AI<sup>™</sup> image analysis

- Ayano Hirako<sup>1)</sup>, Saori Matsuo<sup>1)</sup>, Masaki Yamazaki<sup>1)</sup>, Yu Oikawa<sup>2)</sup>, Eri Joyashiki<sup>2)</sup>, Atsuhiko Kato<sup>1)</sup>  
<sup>1)</sup>Safety and Bioscience Research Dept., Chugai Pharmaceutical Co., Ltd.,  
<sup>2)</sup>Discovery Pharmacology 2 Dept., Chugai Pharmaceutical Co., Ltd.

### W2-4\* Liver lesions detection with histological representation learned by tissue images of control rats

- Mitsuru Negishi<sup>1)</sup>, Shunsuke Tominaga<sup>1)</sup>, Akira Inomata<sup>2)</sup>  
<sup>1)</sup>Imaging Technology Center, FUJIFILM Corporation,  
<sup>2)</sup>Bio Science & Engineering Laboratories, FUJIFILM Corporation

## Poster Presentation 1. Nervous System and Special Sense Organs 1

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Anna Kakehashi (Osaka Metropolitan University)  
Kiyokazu Ozaki (Setsunan University)

### P-01\* Experimental autoimmune encephalomyelitis model induced by MOG35-55 in C57BL/6J mice

- Hui Guo, Mu Du, Rui Zhang, Hongnian Guo, Kai Zhang, Rongzhen Zhao, Xueling Yu, Yasuhiko Hirouchi  
JOINN Laboratories (Suzhou) Co., Ltd.

### P-02\* Establishment of ALS mouse model of amyotrophic lateral sclerosis

- Rui Zhang<sup>1)</sup>, Mu Du<sup>1)</sup>, Yanan He<sup>2)</sup>, Beibei Wang<sup>2)</sup>, Jun Yin<sup>2)</sup>, Lei Zhao<sup>2)</sup>, Xiaojing Liu<sup>2)</sup>, Kai Zhang<sup>1)</sup>, Wei Qi<sup>3)</sup>, Jin Guo<sup>4)</sup>, Wenyu Wu<sup>5)</sup>, Hui Guo<sup>1)</sup>, Yasuhiko Hirouchi<sup>1)</sup>, Hongnian Guo<sup>1)</sup>  
<sup>1)</sup>JOINN Laboratories (Suzhou) Co., Ltd., <sup>2)</sup>JOINN Laboratories Co., Ltd.,  
<sup>3)</sup>Suzhou Frontage New Drug Development Co., Ltd.,  
<sup>4)</sup>Crown Bioscience Inc., <sup>5)</sup>Pharmaceuticals (Beijing) Co., Ltd.

**P-03\* Effect of  $\alpha$ -glycosyl isoquercitrin on maternal imidacloprid exposure-induced disruptive hippocampal neurogenesis in rats**

○Xinyu Zou<sup>1,2</sup>, Qian Tang<sup>1,2</sup>, Ryota Ojiro<sup>1,2</sup>, Shunsuke Ozawa<sup>1,2</sup>, Momoka Shobudani<sup>1</sup>, Yuri Sakamaki<sup>1</sup>, Yuri Ebizuka<sup>1</sup>, Toshinori Yoshida<sup>1,2</sup>, Makoto Shibutani<sup>1,2</sup>

<sup>1</sup>Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology,

<sup>2</sup>Cooperative Division of Veterinary Sciences, Graduate School of Agriculture, Tokyo University of Agriculture and Technology

**P-04\* Pathological observation of human iPSC-derived dopamine neurons transplanted into the striatum of NOG mice**

○Kai Zhang, Mu Du, Hongnian Guo, Hui Guo, Rui Zhang, Jinnan Xi, Rongzhen Zhao, Xueling Yu, Wei Qi, Yasuhiko Hirouchi, Zheng Li

JOINN Laboratories (Suzhou) Co., Ltd.

**P-05\* Effect of diphenylarsinic acid on hippocampal neurogenesis in SD rats**

○Guiyu Qiu<sup>1</sup>, Min Gi<sup>1,2</sup>, Masaki Fujioka<sup>1</sup>, Shugo Suzuki<sup>1</sup>, Anna Kakehashi<sup>1</sup>, Tomoki Yamamoto<sup>1</sup>, Ikue Noura<sup>1</sup>, Arpamas Vachiraarunwong<sup>2</sup>, Runjie Guo<sup>2</sup>, Hideki Wanibuchi<sup>1</sup>

<sup>1</sup>Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine,

<sup>2</sup>Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine

## Poster Presentation 2. Nervous System and Special Sense Organs 2

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

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

Tomoaki Tochitani (Sumitomo Pharma Co., Ltd.)

**P-06\* Time-course pathological analysis of cuprizone containing pellet induced demyelination model**

○Junichi Sugiyama<sup>1,2</sup>, Hideki Tanaka<sup>1</sup>, Shota Yoshida<sup>1</sup>, Takamasa Suzuki<sup>1</sup>, Hiroko Hitotsumachi<sup>1</sup>, Mitsuru Kuwamura<sup>2</sup>, Satoshi Suzuki<sup>1</sup>

<sup>1</sup>Preclinical Basic Research, Taiho Pharmaceutical Co., Ltd.,

<sup>2</sup>Laboratory of Veterinary Pathology, Osaka Metropolitan University

**P-07 Validation of appropriate administration period and timing for heterotopia in modified Comparative Thyroid Assay**

○Keiko Ogata<sup>1</sup>, Kenta Minami<sup>1</sup>, Hidenori Suto<sup>1</sup>, Keiko Maeda<sup>1</sup>, Masahiko Kushida<sup>1</sup>, Ayumi Eguchi<sup>1</sup>, Akira Sato<sup>2</sup>, Naofumi Takahashi<sup>2</sup>, Hiroaki Aoyama<sup>2</sup>, Hiroyuki Asano<sup>1</sup>, Tomoya Yamada<sup>1</sup>

<sup>1</sup>Sumitomo Chemical Co., Ltd., <sup>2</sup>Institute of Environmental Toxicology

**P-08\* Histopathological changes in brain and motor and cognitive functions in cuprizone-induced chronic demyelination model**

○Satomi Osawa<sup>1</sup>, Toshiya Mashiko<sup>2</sup>, Kyohei Horie<sup>2</sup>, Hiroshi Saito<sup>3</sup>

<sup>1</sup>Toxicology & DMPK Reserch Department, Teijin Institute for Bio-medical Reserch, Teijin Pharma Limited,

<sup>2</sup>Pharmacology Research Department, Teijin Institute for Bio-medical Research, Teijin Pharma Limited,

<sup>3</sup>Medicinal Chemistry Research Laboratories, Teijin Institute for Bio-medical Research, Teijin Pharma Limited

**P-09 Histopathology provides further toxicity information on the bovine corneal opacity and permeability (BCOP) test method**

○Yukie Abiko

Safety Research Institute for Chemical Compounds Co., Ltd.

**P-10 Deep learning-based image analysis model for evaluation of CNS toxicity in rats**

Toshiyuki Shoda<sup>1</sup>, ○ Taishi Shimazaki<sup>1</sup>, Kyotaka Muta<sup>1</sup>, Naohito Yamada<sup>1</sup>, Garg Rohit<sup>2</sup>,  
Mohanty Amogh<sup>2</sup>, Samanta Pranab<sup>2</sup>, Thomas Tijo<sup>2</sup>, Yuzo Yasui<sup>1</sup>

<sup>1</sup>Toxicology Research Laboratories, Yokohama Research Center, Central Pharmaceutical Research Institute,  
Japan Tobacco Inc.,

<sup>2</sup>AIRA Matrix Private Limited

## Poster Presentation 3. Hematopoietic and Circulatory Systems

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Akiko Anagawa-Nakamura (Japan Tobacco Inc.)

Kae Fujisawa (Shionogi & Co., Ltd.)

**P-11 Withdrawn**

**P-12 ISH signal retrieval of miR-210 in isoproterenol (ISO) -induced rat myocardial injury**

○ Hideki Tanaka, Kenjiro Ito, Sakiho Tanaka, Junichi Sugiyama, Shota Yoshida, Hiroko Hitotsumachi,  
Satoshi Suzuki

Preclinical Basic Research, Taiho Pharmaceutical Co., Ltd.

**P-13\* Overexpression of product protein by an AAV gene therapy product in cardiomyocytes induces UPR and degeneration in mice**

○ Kyohei Yasuno<sup>1</sup>, Ryo Watanabe<sup>1</sup>, Rumiko Ishida<sup>1</sup>, Keiko Okado<sup>2</sup>, Masako Imaoka<sup>1</sup>,  
Yoshimi Tsuchiya<sup>1</sup>

<sup>1</sup>Medicinal Safety Research Laboratories, Daiichi Sankyo Co., Ltd.,

<sup>2</sup>Department of Translational Research, Daiichi Sankyo RD Novare Co., Ltd.

**P-14 Withdrawn**

**P-15 Withdrawn**

## Poster Presentation 4. Digestive System

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

Chair: Takayasu Moroki (Otsuka Pharmaceutical Co., Ltd.)

Tsubasa Saito (BoZo Research Center Inc.)

**P-16\* Case report: Histopathological characters of a stomach mass observed in an the aged Wistar Hannover rat**

○ Yuta Baba, Naoko Hongo, Akiko Okada, Eito Ikeda, Mika Nagaike, Kosei Inui

Central Research Institute, Ishihara Sangyo Kaisha, Ltd.

**P-17 Histology of juvenile cynomolgus monkeys: Pancreas**

○Junko Fujishima, Yusei Miyazaki, Goki Tsujimoto, Hiroko Kokoshima, Michihiro Yonezawa, Hosei Kusumoto, Jotaro Hayasaki, Kinji Kobayashi, Akihiro Arima  
Drug Safety Laboratories, Shin Nippon Biomedical Laboratories, Ltd.

**P-18 Histology of juvenile cynomolgus monkeys: Mandibular glands**

○Hiroko Kokoshima, Junko Fujishima, Yusei Miyazaki, Goki Tsujimoto, Hosei Kusumoto, Kinji Kobayashi, Akihiro Arima  
Shin Nippon Biomedical Laboratories, Ltd.

**P-19\* Establishment of novel cell lines derived from a small intestinal adenocarcinoma in a dog with a germline APC variant**

○Sara Shiomi<sup>1)</sup>, Teruaki Hirota<sup>1)</sup>, Minami Goto<sup>1)</sup>, Wakana Yoneji<sup>1)</sup>, Kyoko Yoshizaki<sup>1,2)</sup>, Mami Murakami<sup>1,3)</sup>, Hiroki Sakai<sup>1)</sup>, Akihiro Hirata<sup>1)</sup>

<sup>1)</sup>Laboratory of Veterinary Pathology, Joint Department of Veterinary Medicine, Faculty of Applied Biological Sciences, Gifu University,

<sup>2)</sup>Department of Veterinary Pathology, Joint Faculty of Veterinary Medicine, Yamaguchi University,

<sup>3)</sup>Veterinary Clinical Pathology, Joint Department of Veterinary Medicine, Faculty of Applied Biological Sciences, Gifu University

**P-20\* Interaction of dextran sodium sulfate-induced colitis and diet-induced NASH**

○Kinuko Uno<sup>1)</sup>, Yuri Hatanaka<sup>2)</sup>, Noriko Kemuriyama<sup>3)</sup>, Dai Nakae<sup>4)</sup>, Takeshi Ohta<sup>1)</sup>, Katsuhiko Miyajima<sup>2,3)</sup>

<sup>1)</sup>Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University,

<sup>2)</sup>Department of Food and Nutritional Science, Graduate School of Agriculture, Tokyo University of Agriculture,

<sup>3)</sup>Department of Nutritional Science and Food Safety, Faculty of Applied Biosciences, Tokyo University of Agriculture,

<sup>4)</sup>Department of Medical Sports, Faculty of Health Care and Medical Sports, Teikyo Heisei University

## Poster Presentation 5. Liver and Exocrine Pancreas 1

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Miwa Takahashi (Astellas Pharma Inc.)

Norihiro Sato (Asahikasei Pharma Corporation)

**P-21 Time-course changes of fibrous components in a thioacetamide-induced liver fibrosis model in cynomolgus monkeys**

○Miwa Takahashi<sup>1)</sup>, Mihoko Ono<sup>1)</sup>, Satoru Kajikawa<sup>1)</sup>, Hikaru Mitori<sup>2)</sup>, Kenjiro Tsubota<sup>1)</sup>

<sup>1)</sup>Applied Research & Operations, Astellas Pharma Inc., <sup>2)</sup>Astellas Gene Therapies, Inc.

**P-22\* Diphenylarsinic acid induced transplacental liver carcinogenesis via epigenetic changes in F1 mice**

○Masaki Fujioka<sup>1)</sup>, Min Gi<sup>1,2)</sup>, Shugo Suzuki<sup>1)</sup>, Yuji Oishi<sup>1)</sup>, Arpamas Vachiraarunwong<sup>2)</sup>, Guiyu Qiu<sup>1)</sup>, Kana Shibano<sup>1)</sup>, Anna Kakehashi<sup>1)</sup>, Hideki Wanibuchi<sup>1)</sup>

<sup>1)</sup>Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine,

<sup>2)</sup>Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine

**P-23 Incorporation and toxicity of titanium dioxide with distinct crystallites following 90-day oral administration in rats**

○Jun-ichi Akagi, Yasuko Mizuta, Mizuho Uneyama, Kumiko Ogawa  
Div. Pathol. Natl. Inst Health Sci.

**P-24\* The histopathological effects of loading Western diets on the liver in obese type 2 diabetes model SDT fatty rats**

○ Tatsumi Otake<sup>1)</sup>, Kinuko Uno<sup>1)</sup>, Miki Sugimoto<sup>1)</sup>, Tomohiko Sasase<sup>1)</sup>, Yasufumi Toriniwa<sup>2)</sup>, Takahisa Yamada<sup>2)</sup>, Takeshi Ota<sup>1)</sup>

<sup>1)</sup>Laboratory of Animal Physiology and Functional Anatomy, Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University,

<sup>2)</sup>Graduate School of Science and Technology, Niigata University

**P-25\* Study on the activation of Nrf2 system in thioacetamide-induced GSTp-positive hepatocyte foci**

○ Yuri Ito<sup>1)</sup>, Takeshi Izawa<sup>1)</sup>, Nanako Hamada<sup>1)</sup>, Miyuu Tanaka<sup>1)</sup>, Keiko Taguchi<sup>2,3)</sup>, Masayuki Yamamoto<sup>3)</sup>, Mitsuru Kuwamura<sup>1)</sup>

<sup>1)</sup>Laboratory of Veterinary Pathology, Osaka Prefecture University,

<sup>2)</sup>Laboratory of Food Chemistry, Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo,

<sup>3)</sup>Biochemistry & Molecular Biology, Tohoku Medical Megabank Organization, Tohoku University

**P-26\* Mechanism underlying the exacerbation of allyl alcohol-induced hepatotoxicity in ALDH2 gene polymorphism**

○ Yuki Takami<sup>1)</sup>, Jun Nakamura<sup>2)</sup>, Miyuu Tanaka<sup>1)</sup>, Mitsuru Kuwamura<sup>1)</sup>, Toshiya Okada<sup>2)</sup>, Takeshi Izawa<sup>1)</sup>

<sup>1)</sup>Laboratory of Veterinary Pathology, Osaka Metropolitan University,

<sup>2)</sup>Laboratory of Laboratory Animal Science, Osaka Metropolitan University

## Poster Presentation 6. Liver and Exocrine Pancreas 2

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

Chair: Toko Ohira (Shanghai InnoStar Bio-tech Co., Ltd.)

Naofumi Takahashi (The Institute of Environmental Toxicology)

**P-27\* Histopathological observation of GLP-1/GIP receptor agonist in Cynomolgus monkeys**

○ Mu Du<sup>1)</sup>, Yanan He<sup>2)</sup>, Beibei Wang<sup>2)</sup>, Jun Yin<sup>2)</sup>, Rui Zhang<sup>1)</sup>, Hui Guo<sup>1)</sup>, Wenyu Wu<sup>3)</sup>, Yasuhiko Hirouchi<sup>1)</sup>

<sup>1)</sup>JOINN Laboratories (Suzhou) Co., Ltd., <sup>2)</sup>JOINN Laboratories (Beijing) Co., Ltd.,

<sup>3)</sup>Bocytogen Pharmaceuticals (Beijing) Co., Ltd.

**P-28 Preventive and therapeutic effects of Bear Bile Powder and ursodeoxycholic acid on hepatocarcinoma generation in SD rats**

○ Meilan Jin<sup>1)</sup>, Guiyang Jia<sup>2)</sup>, Rui Dong<sup>2)</sup>, Yuanping Ni<sup>2)</sup>, Mengru Wang<sup>2)</sup>

<sup>1)</sup>Southwest University Laboratory Animal Center, <sup>2)</sup>College of Veterinary Medicine, Southwest University

**P-29\* A small interfering RNA (siRNA) against complement C5 mRNA induced liver injury in CD-1 mice**

○ Hongnian Guo, Mu Du, Kai Zhang, Hui Guo, Wei Qi, Rongzhen Zhao, Xueling Yu, Rui Zhang, Yasuhiko Hirouchi, Zheng Li

JOINN Laboratories (Suzhou) Co., Ltd.

**P-30 Examination of novel biomarker candidates and mechanisms of human invasive pancreatic ductal carcinoma**

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

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



**P-31 Search for signal factors involved in hemangiosarcoma associated with NASH in mice fed CDAA-HF-T(-)**

○Noriko Kemuriyama<sup>1)</sup>, Syuri Maejima<sup>1)</sup>, Ayaka Sato<sup>1)</sup>, Sae Nakane<sup>1)</sup>, Akari Abe<sup>1)</sup>, Tatsuya Maekawa<sup>1)</sup>,  
Dai Nakae<sup>1,2)</sup>, Katsuhiko Miyajima<sup>1)</sup>

<sup>1)</sup>Dept. Nutr. Sci. Food Safety, Facul. Biosci., Tokyo Univ. Agricul.,

<sup>2)</sup>Dept. Med Sport. Health Care Med Sport. Teikyo Heisei Univ.

## Poster Presentation 7. Liver and Exocrine Pancreas 3

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Masahiko Kushida (Sumitomo Chemical Co., Ltd.)

Hironobu Yasuno (Takeda Pharmaceutical Co., Ltd.)

**P-32\* Detection of micronucleated cells by immunohistochemical stain**

○Kengo Kasamatsu<sup>1,2)</sup>, Yuji Ishii<sup>1)</sup>, Yohei Yamagami<sup>1,3)</sup>, Shinji Takasu<sup>1)</sup>, Meili Soma<sup>1)</sup>,  
Shunsuke Ozawa<sup>2)</sup>, Makoto Shibutani<sup>2)</sup>, Kumiko Ogawa<sup>1)</sup>

<sup>1)</sup>Division of Pathology, National Institute of Health Sciences,

<sup>2)</sup>Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology,

<sup>3)</sup>Laboratory of Veterinary Toxicology, Tokyo University of Agriculture and Technology

**P-33\* Effectiveness of immunohistochemistry of ALDH3A1 and  $\gamma$ -H2AX in rats for early detection of hepatocarcinogens**

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

Division of Pathology, National Institute of Health Sciences

**P-34\* Pathological analysis of pancreatic islets in female SDT rats**

○Nodoka Kagami<sup>1)</sup>, Tatsuya Maekawa<sup>2)</sup>, Kinuko Uno<sup>2,3)</sup>, Tomohiko Sasase<sup>3)</sup>, Takeshi Ota<sup>3)</sup>,  
Katsuhiko Miyajima<sup>1,2)</sup>

<sup>1)</sup>Department of Food and Nutritional Science, Graduate School of Agriculture, Tokyo University of Agriculture,

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

<sup>3)</sup>Laboratory of Animal Physiology and Functional Anatomy, Graduate School of Agriculture, Kyoto University

**P-35\* Investigation of the mechanism in pancreatitis-associated carcinogenesis by proteome analysis using mouse model**

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

Dep. Exp. Pathol. Tumor Biol., Nagoya City Univ., Grad Sch Med Sci

**P-36 Chemopreventive effect of lactoferrin on rat non-alcoholic steatohepatitis and fibrosis**

○Aya Naiki-Ito<sup>1)</sup>, Hiroyuki Kato<sup>1)</sup>, Masayuki Komura<sup>1)</sup>, Hiroyuki Tsuda<sup>1,2)</sup>, Satoru Takahashi<sup>1)</sup>

<sup>1)</sup>Department of Experimental Pathology and Tumor Biology, Nagoya City University Graduate School of Medical  
Sciences,

<sup>2)</sup>Nanotoxicology Lab Project, Nagoya City University

## Poster Presentation 8. Liver and Exocrine Pancreas 4

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

Chair: Toshiko Kinomoto (ZERIA Pharmaceutical Co., Ltd.)  
Shino Kumabe (Nippon Shinyaku Co., Ltd.)

**P-37 Metabolites of acetamide in rat liver and their involvement in nuclear morphological change**

○ Yuji Ishii<sup>1)</sup>, Yohei Yamagami<sup>1,2)</sup>, Maiko Tahara<sup>3)</sup>, Tsuyoshi Kawakami<sup>3)</sup>, Norifumi Takimoto<sup>1,4)</sup>,  
Kengo Kasamatsu<sup>1,4)</sup>, Shinji Takasu<sup>1)</sup>, Meili Soma<sup>1)</sup>, Kumiko Ogawa<sup>1)</sup>

<sup>1)</sup>Division of Pathology, National Institute of Health Sciences,

<sup>2)</sup>Laboratory of Veterinary Toxicology, Tokyo University of Agriculture and Technology,

<sup>3)</sup>Division of Environmental Chemistry, National Institute of Health Sciences,

<sup>4)</sup>Laboratory of Veterinary Pathology, Tokyo University of Agriculture and Technology

**P-38\* Characterization of metabolism and toxicological mechanisms in humanized liver mice exposed to inorganic arsenic**

○ Kana Shibano<sup>1)</sup>, Masaki Fujioka<sup>1)</sup>, Min Gi<sup>1,2)</sup>, Arpamas Vachiraarunwong<sup>2)</sup>, Guiyu Qiu<sup>1)</sup>,  
Runjie Guo<sup>2)</sup>, Shugo Suzuki<sup>1)</sup>, Hideki Wanibuchi<sup>1)</sup>

<sup>1)</sup>Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine,

<sup>2)</sup>Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine

**P-39 Dimethylarsinic acid (DMA) enhanced hepatocarcinogenesis via altered lipid metabolism in a transplacental mouse model**

○ Shugo Suzuki<sup>1)</sup>, Min Gi<sup>1,2)</sup>, Masaki Fujioka<sup>1)</sup>, Arpamas Vachiraarunwong<sup>1,2)</sup>, Anna Kakehashi<sup>1)</sup>,  
Hideki Wanibuchi<sup>1)</sup>

<sup>1)</sup>Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine,

<sup>2)</sup>Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine

**P-40 Pioglitazone improves insulin resistance, liver function and inflammation, and suppresses tumorigenesis in NASH mouse**

Kiyokazu Ozaki, Tetsuro Matsuura, ○ Minoru Inanaga

Laboratory of Pathology, Faculty of Pharmaceutical Sciences, Setsunan University

**P-41\* STAM mouse model of NASH model**

Wenyu Wu<sup>1)</sup>, ○ Mu Du<sup>2)</sup>, Yanan He<sup>2)</sup>, Rui Zhang<sup>2)</sup>, Beibei Wang<sup>2)</sup>, Siming Zhang<sup>3)</sup>

<sup>1)</sup>Biocytogen Pharmaceuticals (Beijing) Co., Ltd., <sup>2)</sup>JOINN Laboratories (China) Co., Ltd.,

<sup>3)</sup>Center of Safety Evaluation and Research, Hangzhou Medical College

**P-42\* CSAD ameliorates lipid accumulation in high-fat diet-fed mice**

○ Rongrong Tan, Henglei Lu, Luoyi Huang, Ziyue Cui, Shuyang Wang, Shujing Wang

Center for Drug Safety Evaluation and Research, State Key Laboratory of Drug Research,  
Shanghai Institute of Materia Medica, Chinese Academy of Sciences

## Poster Presentation 9. Urinary Tract 1

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Yumi Kangawa (Nippon Boehringer Ingelheim Co., Ltd.)  
Satoru Kajikawa (Astellas Pharma Inc.)

**P-43\* Drug induced glomerular immune complex deposition of kidneys in rats and monkeys**

○ Wei Qi<sup>1)</sup>, Hemei Wang<sup>1)</sup>, Jing Xu<sup>1)</sup>, Rui Zhang<sup>2)</sup>, Jin Guo<sup>3)</sup>, Yasuhiko Hirouchi<sup>2)</sup>, Mu Du<sup>2)</sup>,  
Hongnian Guo<sup>2)</sup>, Kai Zhang<sup>2)</sup>, Zheng Li<sup>1)</sup>

<sup>1)</sup>Suzhou Frontage New Drug Development Co., Ltd., <sup>2)</sup>JOINN Laboratories (Suzhou) Co., Ltd.,  
<sup>3)</sup>Crown Bioscience Inc.

**P-44 Amphiphilic-vacuolar renal tubule adenoma in a ten-week-old female Sprague Dawley rat**

○ Yong-Hoon Lee, Tae-Woo Kim, Hye-Joon Park, Young-Hyun Lee, Mu-Jin Lee, Sung-Hyuck Im,  
Yong-Seok Kim  
ABSolution Co., Ltd.

**P-45 Identification of the renal artifacts in Sprague-Dawley (SD) rats from a toxicity study**

○ Xueyan Pu<sup>1)</sup>, Juanjuan Jiang<sup>2)</sup>, Juhao Yang<sup>1)</sup>, Kai Sun<sup>1)</sup>, Tianyi Jiang<sup>1)</sup>

<sup>1)</sup>Toxicology & Pathology Department, Roche R&D Center (China) Ltd., <sup>2)</sup>Cali Biosciences US LLC.

**P-46\* Development of a novel 3D urinary bladder mucosa model and evaluation of assessing arsenical toxicity**

○ Runjie Guo<sup>1)</sup>, Min Gi<sup>1,2)</sup>, Tohru Kiyono<sup>3)</sup>, Arpamas Vachiraarunwong<sup>1)</sup>, Masaki Fujioka<sup>2)</sup>,  
Shugo Suzuki<sup>2)</sup>, Guiyu Qiu<sup>2)</sup>, Tomoki Yamamoto<sup>2)</sup>, Anna Kakehashi<sup>2)</sup>, Hideki Wanibuchi<sup>2)</sup>

<sup>1)</sup>Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine,  
<sup>2)</sup>Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine,  
<sup>3)</sup>Exploratory Oncology Research and Clinical Trial Center, National Cancer Center

## Poster Presentation 10. Urinary Tract 2

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

Chair: Toshio Kobayashi (Chemicals Evaluation and Research Institute)  
Mitsuru Kuwamura (Osaka Metropolitan University)

**P-47 Morphology and CD44 expression in renal tubules of rats with cyclosporine-induced renal fibrosis**

○ Kohei Matsushita, Takeshi Toyoda, Hirotohi Akane, Tomomi Morikawa, Kumiko Ogawa  
Division of Pathology, National Institute of Health Sciences

**P-48 HALO AI™ analysis of cyst origin in a DBA/2-*pcy* mouse**

○ Atsuko Murai<sup>1)</sup>, Yasuhiro Ichida<sup>2)</sup>, Yukari Yasui<sup>2)</sup>, Manami Iida<sup>2)</sup>, Naoshi Horiba<sup>2)</sup>, Atsuhiko Kato<sup>1)</sup>

<sup>1)</sup>Translational Research Division, Safety and Bioscience Research Dept., Chugai Pharmaceutical Co., Ltd.,  
<sup>2)</sup>Research Division, Discovery Pharmacology 1 Dept., Chugai Pharmaceutical Co., Ltd.

**P-49 Time-course biomarker investigation in cisplatin-induced renal fibrosis model in rats**

○ Kiyonori Kai, Takashi Yamaguchi, Kumi Honda, Shinobu Hakamata, Tetsuya Osawa, Masako Imaoka,  
Yoshimi Tsuchiya  
Medicinal Safety Laboratories, Daiichi Sankyo Co., Ltd.

**P-50 Early detection of renal carcinogens by  $\gamma$ -H2AX immunostaining in rats**

- Takeshi Toyoda, Kohei Matsushita, Hirotohi Akane, Mizuho Uneyama, Tomomi Morikawa, Kumiko Ogawa  
Division of Pathology, National Institute of Health Sciences

**P-51 Institutional occurrence of amphophilic vacuolar type renal tumor in SD rat**

- Toshio Kobayashi, Yutaka Oshima, Hisako Morioka, Kimika Yamamoto, Masafumi Horiuchi, Katsumi Miyata, Satsuki Hoshuyama  
Chemicals Evaluation and Research Institute, Japan, CERI Hita

**Poster Presentation 11. Reproductive System and Mammary Gland**

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Hiroshi Satoh (Iwate University)

Makoto Tanaka (Otsuka Pharmaceutical Factory, Inc.)

**P-52 Histopathology of fused triplet placenta in rat**

- Satoshi Furukawa<sup>1,2</sup>, Naho Tsuji<sup>2</sup>, Seigo Hayashi<sup>3</sup>, Yusuke Kuroda<sup>3</sup>, Masayuki Kimura<sup>3</sup>, Chisato Kojima<sup>3</sup>, Kazuya Takeuchi<sup>3</sup>  
<sup>1</sup>Planning and Development Department, Nissan Chemical Corporation,  
<sup>2</sup>Planning and Development, Agricultural Chemical Division, Nissan Chemical Corporation,  
<sup>3</sup>Biological Research Laboratories, Nissan Chemical Corporation

**P-53 Lymphatic sinus hyperplasia in sentinel lymph nodes prior to mouse mammary cancer metastasis and its mechanism**

- Masa-Aki Shibata, Chinatsu Shiraoka, Yoichi Kondo  
Department of Anatomy and Cell Biology, Division of Life Sciences, Osaka Medical and Pharmaceutical University

**P-54\* Case report: Spontaneous coagulating gland adenocarcinoma in a Sprague-Dawley rat**

- Ryo Yamazaki, Yuzo Yasui, Akiko Anagawa-Nakamura, Kaoru Toyoda, Taishi Shimazaki, Toshiyuki Shoda  
Toxicology Research Laboratories, Yokohama Research Center, Central Pharmaceutical Research Institute, Japan Tobacco Inc.

**P-55\* Historical data for the histology on the process of testicular development in juvenile rats/Crl:CD (SD)**

- Namika Saito<sup>1</sup>, Mitsuki Minaai<sup>1</sup>, Chihiro Noguchi<sup>1</sup>, Yuichi Murakami<sup>1</sup>, Tetsuro Kurotaki<sup>1</sup>, Haruko Koizumi<sup>1</sup>, Tetsuyo Kajimura<sup>1</sup>, Hiroaki Sato<sup>1</sup>, Hirofumi Hatakeyama<sup>1</sup>, Atsushi Fujiwara<sup>1</sup>, Hijiri Iwata<sup>2</sup>  
<sup>1</sup>Ina Research Inc., <sup>2</sup>LunaPath Laboratory of Toxicologic Pathology, Co., Ltd.

**P-56 Testicular lesions cynomolgus monkey in a dose range finding test with repeated administration of an antitumor drug**

- Yanjun Cui  
Department of Pathology, Hubei Topgene Biotechnology Co., Ltd., Wuhan Branch

**P-57\* A test article targeting NK3 receptors induced delayed sexual maturation of males in Beagle Dogs**

- Zheng Li, Kai Zhang, Hui Guo, Xueling Yu, Rongzhen Zhao, Hongnian Guo, Mu Du, Wei Qi  
JOINN Laboratories (Suzhou) Co., Ltd.

## Poster Presentation 12. Endocrine System

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

Chair: Daisuke Hibi (ONO Pharmaceutical Co., Ltd.)  
Masako Imaoka (Daiichi Sankyo Co., Ltd.)

**P-58\*** Withdrawn

**P-59** Immunohistochemical evaluation for macrophage polarization in the adrenal glands of rats treated with ketoconazole

- Yuzo Yasui, Akiko Anagawa-Nakamura, Kaoru Toyoda, Taishi Shimazaki, Ryo Yamazaki,  
Toshiyuki Shoda  
Toxicology Research Laboratories, Yokohama Research Center, Central Pharmaceutical Research Institute,  
Japan Tobacco Inc.

**P-60** Pathological analysis and hormone levels in the detection of antithyroid effects of TSH synthesis inhibitors in rats

- Hirotohi Akane<sup>1)</sup>, Takeshi Toyoda<sup>1)</sup>, Kohei Matsushita<sup>1)</sup>, Mizuho Uneyama<sup>1)</sup>, Tomomi Morikawa<sup>1)</sup>,  
Tadashi Kosaka<sup>2)</sup>, Hitoshi Tajima<sup>2)</sup>, Hiroaki Aoyama<sup>2)</sup>, Kumiko Ogawa<sup>1)</sup>  
<sup>1)</sup>Division of Pathology, National Institute of Health Sciences,  
<sup>2)</sup>Toxicology Division, Institute of Environmental Toxicology

**P-61\*** Association of spontaneous femoral neurogenic atrophy and islet cell tumor in aged F344 rats

- Mitsutoshi Uchida, Takuya Doi, Yumi Wako, Yutaka Nakahara, Natsumi Shimoyama, Yuki Tomonari,  
Satoru Hosokawa, Junko Sato  
Pathology Department, Kashima Laboratories, Mediford Corporation

## Poster Presentation 13. Integumentary and Musculoskeletal Systems

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

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

**P-62\*** Combinational analysis for tissue responses to biodegradable alloy using 3D X-ray observation and elemental mapping

- Mayuko Goto<sup>1)</sup>, Koki Fuse<sup>1)</sup>, Yukiko Tanabe<sup>1)</sup>, Hitomi Hagiwara<sup>1)</sup>, Takato Matsuda<sup>1)</sup>, Daisuke Ando<sup>2)</sup>,  
Yuji Sutou<sup>2,3)</sup>, Keisuke Yamagishi<sup>1)</sup>, Ryohei Aso<sup>1)</sup>, Yoriko Inomata<sup>1)</sup>, Masako Tasaki<sup>1)</sup>  
<sup>1)</sup>Terumo Corporation, <sup>2)</sup>Materials Science, Graduate School of Engineering, Tohoku University,  
<sup>3)</sup>WPI Advanced Institute for Materials Research, Tohoku University

**P-63\*** To evaluate the safety of filler A in histopathology

- Xiaoyu Xiu  
PharmaLegacy Laboratories (Shanghai) Co., Ltd.

**P-64** Hypopigmentation in Beagle Dogs treated with an anticarcinogen

- Qingxi Kong  
Pharmaron, China

**P-65 Resemblance of a lesion observed in a rat intervertebral disc injury model with chordomas**

○ Takafumi Oshikata, Yuki Tomonari, Yumi Wako, Takeshi Kanno

Pathology Department, Non-clinical Business Segment, Mediford Corporation

**Poster Presentation 14. Respiratory Tract and Immune System**

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

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

Satoshi Suzuki (TAIHO Pharmaceutical Co., Ltd.)

**P-66 Development of an *in vitro* dosing assay for trans-tracheal intrapulmonary spraying administration of chemicals in rats**

○ Min Gi<sup>1)</sup>, Masaki Fujioka<sup>2)</sup>, Kana Shibano<sup>2)</sup>, Guiyu Qiu<sup>2)</sup>, Arpamas Vachiraarunwong<sup>1)</sup>, Runjie Guo<sup>1)</sup>, Anna Kakehashi<sup>2)</sup>, Shugo Suzuki<sup>2)</sup>, Hideki Wanibuchi<sup>2)</sup>

<sup>1)</sup>Department of Environmental Risk Assessment, Osaka Metropolitan University Graduate School of Medicine,

<sup>2)</sup>Department of Molecular Pathology, Osaka Metropolitan University Graduate School of Medicine

**P-67\* Withdrawn**

**P-68 Adjuvant effects of AgNPs in food allergy mouse model by transdermal and intragastric sensitization**

○ Yasuko Mizuta<sup>1)</sup>, Jun-ichi Akagi<sup>1)</sup>, Takeshi Toyoda<sup>1)</sup>, Yoshie Kimura<sup>2)</sup>, Norimasa Tamehiro<sup>2)</sup>, Reiko Adachi<sup>2)</sup>, Young-Man Cho<sup>1)</sup>, Kumiko Ogawa<sup>1)</sup>

<sup>1)</sup>Division of Pathology, National Institute of Health Sciences,

<sup>2)</sup>Division of Biochemistry, National Institute of Health Sciences

**P-69 Characteristics of spontaneous dendritic cell hyperplasia in lymph nodes of SD rats**

○ Hiroaki Sato<sup>1)</sup>, Namika Saito<sup>1)</sup>, Mitsuki Minaai<sup>1)</sup>, Chihiro Noguchi<sup>1)</sup>, Yuichi Murakami<sup>1)</sup>, Tetsuro Kurotaki<sup>1)</sup>, Haruko Koizumi<sup>1)</sup>, Tetsuyo Kajimura<sup>1)</sup>, Hirofumi Hatakeyama<sup>1)</sup>, Atsushi Fujiwara<sup>1)</sup>, Hijiri Iwata<sup>2)</sup>

<sup>1)</sup>Ina Research Inc., <sup>2)</sup>LunaPath Laboratory of Toxicologic Pathology, Co., Ltd.

**P-70 Withdrawn**

## Poster Presentation 15. Others 1

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Kohei Matsushita (National Institute of Health Sciences)

Yukie Saegusa (Pharmaceuticals and Medical Devices Agency)

### **P-71 Issues in the detailed human health hazard assessment with limited hazard information**

○ Kaoru Inoue, Akira Kawashima

Division of Risk Assessment, National Institute of Health Sciences

### **P-72 Do we know INHAND? International Harmonization of Nomenclature and Diagnostic Criteria**

○ Shim-mo Hayashi<sup>1,2</sup>, Ute Bach<sup>3</sup>, Alys Bradley<sup>4</sup>, Mark Cesta<sup>5</sup>, Stacey Fossey<sup>6</sup>, Takanori Harada<sup>7</sup>, Matt Jacobsen<sup>8</sup>, Rupert Kellner<sup>9</sup>, Victoria Laast<sup>10</sup>, Emily Meseck<sup>11</sup>, Thomas Nolte<sup>12</sup>, Susanne Rittinghausen<sup>9</sup>, Junko Sato<sup>13</sup>, John Vahle<sup>14</sup>, Katsuhiko Yoshizawa<sup>15</sup>

<sup>1</sup>National Institute of Health Sciences, <sup>2</sup>Tokyo University of Agriculture and Technology, <sup>3</sup>Bayer AG,

<sup>4</sup>Charles River Laboratories, <sup>5</sup>National Institute of Environmental Health Sciences, <sup>6</sup>AbbVie,

<sup>7</sup>The Institute of Environmental Toxicology, <sup>8</sup>Astra Zeneca, <sup>9</sup>Fraunhofer ITEM, <sup>10</sup>Labcorp Drug Development,

<sup>11</sup>Novartis Institute for Biomedical Research, <sup>12</sup>Boehringer Ingelheim Pharma GmbH & Co. KG,

<sup>13</sup>LSI Medience, <sup>14</sup>Eli Lilly, <sup>15</sup>Mukogawa Women's University

### **P-73 Report of AI Pathology Task Force, JPMA (1) Questionnaire survey on AI pathology**

○ Masaki Yamazaki<sup>1,2</sup>, Emi Tomikawa<sup>1,3</sup>, Miyoko Okada<sup>1,4</sup>, Satoru Kajikawa<sup>1,5</sup>, Yui Terayama<sup>1,6</sup>, Shino Kumabe<sup>1,7</sup>, Tetsuya Sakairi<sup>1,8</sup>, Akira Inomata<sup>1,9</sup>, Izumi Matsumoto<sup>1,10</sup>, Gen Sato<sup>1,11</sup>, Mutsumi Suzuki<sup>1,12</sup>

<sup>1</sup>AI Pathology Task Force, Non-clinical Evaluation Expert Committee, Drug Evaluation Committee, Japan Pharmaceuticals Manufacturers Association (JPMA),

<sup>2</sup>Chugai Pharmaceutical Co., Ltd., <sup>3</sup>Toray Industries, Inc., <sup>4</sup>Janssen Pharmaceutical K.K., <sup>5</sup>Astellas Pharma Inc.,

<sup>6</sup>Otsuka Pharmaceutical Co., Ltd., <sup>7</sup>Nippon Shinyaku Co., Ltd., <sup>8</sup>Mitsubishi Tanabe Pharma Corporation,

<sup>9</sup>FUJIFILM Toyama Chemical Co., Ltd., <sup>10</sup>Sumitomo Pharma Co., Ltd., <sup>11</sup>Eisai Co., Ltd.,

<sup>12</sup>Kyowa Kirin Co., Ltd.

### **P-74\* Report of AI Pathology Task Force, JPMA (2) An overview of recent publications about AI pathology**

○ Emi Tomikawa<sup>1,2</sup>, Satoshi Sakai<sup>1,3</sup>, Yoshinori Yamagiwa<sup>1,4</sup>, Yumi Kangawa<sup>1,5</sup>, Yusuke Kagawa<sup>1,6</sup>, Yuki Kato<sup>1,7</sup>, Kensuke Kojima<sup>1,8</sup>, Akira Inomata<sup>1,9</sup>, Izumi Matsumoto<sup>1,10</sup>, Gen Sato<sup>1,11</sup>, Mutsumi Suzuki<sup>1,8</sup>

<sup>1</sup>AI Pathology Task Force, Non-clinical Evaluation Expert Committee, Drug Evaluation Committee, Japan Pharmaceuticals Manufacturers Association (JPMA),

<sup>2</sup>Toray Industries, Inc., <sup>3</sup>Asahi Kasei Pharma Corporation, <sup>4</sup>Senju Pharmaceutical Co., Ltd.,

<sup>5</sup>Nippon Boehringer Ingelheim Co., Ltd., <sup>6</sup>Novartis Pharma K.K., <sup>7</sup>Shionogi & Co., Ltd.,

<sup>8</sup>Kyowa Kirin Co., Ltd., <sup>9</sup>FUJIFILM Toyama Chemical Co., Ltd., <sup>10</sup>Sumitomo Pharma Co., Ltd.,

<sup>11</sup>Eisai Co., Ltd.

### **P-75 Report of AI Pathology Task Force, JPMA (3) Survey on databases for pathological image available for AI pathology**

○ Makoto Shirai<sup>1,2</sup>, Etsuko Ohta<sup>1,3</sup>, Yu Uchida<sup>1,4</sup>, Satoru Kajikawa<sup>1,5</sup>, Miyoko Okada<sup>1,6</sup>, Akira Inomata<sup>1,7</sup>, Izumi Matsumoto<sup>1,8</sup>, Gen Sato<sup>1,3</sup>, Mutsumi Suzuki<sup>1,9</sup>

<sup>1</sup>AI Pathology Task Force, Non-clinical Evaluation Expert Committee, Drug Evaluation Committee, Japan Pharmaceuticals Manufacturers Association (JPMA),

<sup>2</sup>Daichi Sankyo Co., Ltd., <sup>3</sup>Eisai Co., Ltd., <sup>4</sup>Teijin Pharma Ltd., <sup>5</sup>Astellas Pharma Inc.,

<sup>6</sup>Janssen Pharmaceutical K.K., <sup>7</sup>FUJIFILM Toyama Chemical Co., Ltd., <sup>8</sup>Sumitomo Pharma Co., Ltd.,

<sup>9</sup>Kyowa Kirin Co., Ltd.

## Poster Presentation 16. Others 2

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

Chair: Yuichi Murakami (Ina Research Inc.)

Saori Matsuo (Chugai Pharmaceutical Co., Ltd.)

**P-76 Digital tool application and its hurdle for training of toxicologic pathologist**

○ Atsuhiko Kato, Junko Shinozuka, Kenji Adachi, Syuji Hayashi

Safety and Bioscience Research Dept., Translational Research Div., Chugai Pharmaceutical Co., Ltd.

**P-77 Time-course evaluation of non-invasive and non-contrast vascular imaging in mouse models using photoacoustic imaging**

○ Yasufumi Asao<sup>1</sup>, Ryuichiro Hirano<sup>2</sup>, Kenichi Nagae<sup>1</sup>, Hiroyuki Sekiguchi<sup>1</sup>, Sadakazu Aiso<sup>1</sup>, Shigeaki Watanabe<sup>2</sup>, Marika Sato<sup>2</sup>, Takayuki Yagi<sup>1</sup>, Shinae Kizaka-Kondoh<sup>2</sup>

<sup>1</sup>Luxonus Inc., <sup>2</sup>School of Life Science and Technology, Tokyo Institute of Technology

**P-78 Introducing the macroscopic finding terminology list by the JSTP International Terminology Committee**

○ Junko Sato<sup>1</sup>, Toshihisa Fujiwara<sup>2</sup>, Mari Iida<sup>3</sup>, Kumiko Ogawa<sup>4</sup>, Yuhji Taqahashi<sup>4</sup>, Yoko Hirabayashi<sup>4</sup>, Kiyonori Kai<sup>5</sup>, Kochi Kakimoto<sup>6</sup>, Hitoshi Kandori<sup>7</sup>, Shunji Nakatsuji<sup>8</sup>, Hirofumi Hatakeyama<sup>9</sup>, Hijiri Iwata<sup>10</sup>

<sup>1</sup>Mediford Corporation, <sup>2</sup>Shin Nippon Biomedical Laboratories, Ltd., <sup>3</sup>University of Wisconsin-Madison,

<sup>4</sup>National Institute of Health Science, <sup>5</sup>Daiichi Sankyo Co., Ltd., <sup>6</sup>BoZo Research Center Inc.,

<sup>7</sup>Axcelead Drug Discovery Partners, <sup>8</sup>Altasciences Preclinical Seattle, <sup>9</sup>Ina Research Inc.,

<sup>10</sup>Laboratory of Toxicologic Pathology, LunaPath LLC.

**P-79 Consideration on additions and changes on histopathology-related data required by SENDIG v4.0 (the Next SENDIG version)**

○ Hirofumi Hatakeyama<sup>1</sup>, Atsushi Uematsu<sup>1</sup>, Shin-ichi Horikawa<sup>1</sup>, Konomi Iino<sup>1</sup>, Atsushi Fujiwara<sup>1</sup>, Takayuki Anzai<sup>2,3</sup>, Hijiri Iwata<sup>4</sup>

<sup>1</sup>Ina Research Inc., <sup>2</sup>Showa University School of Medicine,

<sup>3</sup>Instem, <sup>4</sup>Laboratory of Toxicologic Pathology, LunaPath Co., Ltd.

**P-80 Withdrawn**

## Poster Presentation 17. Others 3

Day1. January 23rd (Tue)

16:45 - 17:45

Poster and Exhibition (7F Event Hall)

Chair: Yutaka Nakahara (Mediford Corporation)

Shugo Suzuki (Osaka Metropolitan University)

**P-81\* Histopathological background data through intravenous infusion in rats**

○ Yuko Ito, Ryota Saito, Nozomi Fujisawa, Atsuhiko Kato

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

**P-82 Historical control data of spontaneous tumors in Tg.rasH2 mice**

○ Yanan He<sup>1</sup>, Beibei Wang<sup>1</sup>, Jun Yin<sup>1</sup>, Mu Du<sup>1</sup>, Lei Zhao<sup>1</sup>, Xiaojing Liu<sup>1</sup>, Jing Hu<sup>1</sup>, Rui Zhang<sup>1</sup>, Wenyu Wu<sup>2</sup>

<sup>1</sup>JOINN Laboratories (China) Co., Ltd., <sup>2</sup>Biocytogen Pharmaceuticals (Beijing) Co., Ltd.



**P-83\* Acute toxicity of palmitoyl piperidinopiperidine in rats**

○Nahida Sultana, Katsumi Fukamachi, Saeko Ando, Tomoya Ozaki, Hideaki Kurachi,  
Dipankar Chandra Roy, Masumi Suzui

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

**P-84\* Pathological observation of a human dendritic cell injection administered by subcutaneous injection to NPG mice**

○Beibei Wang<sup>1</sup>, Yanan He<sup>1</sup>, Mu Du<sup>1</sup>, Xiaojing Liu<sup>1</sup>, Lei Zhao<sup>1</sup>, Jing Hu<sup>1</sup>, Jun Yin<sup>1</sup>, Rui Zhang<sup>1</sup>,  
Wenyu Wu<sup>2</sup>

<sup>1</sup>JOINN Laboratories (China) Co., Ltd., <sup>2</sup>Biocytogen Pharmaceuticals (Beijing) Co., Ltd.

**P-85 A 13-week subchronic toxicity study of decyltrimethoxysilane in SD rats**

○Shinji Takasu<sup>1</sup>, Yuji Ishii<sup>1</sup>, Meili Soma<sup>1</sup>, Mariko Matsumoto<sup>2</sup>, Kumiko Ogawa<sup>1</sup>

<sup>1</sup>Division of Pathology, National Institute of Health Sciences,

<sup>2</sup>Division of Risk Assessment, National Institute of Health Sciences

## Poster Presentation 18. Others 4

Day2. January 24th (Wed)

14:50 - 15:50

Poster and Exhibition (7F Event Hall)

Chair: Yoshimasa Okazaki (AnaPath Services GmbH)

Kaoru Inoue (National Institute of Health Sciences)

**P-86\* Withdrawn**

**P-87\* Cytotoxicity and antiangiogenic effects of a newly synthesized agent, dimethylaminopropyl hexadecanamide**

○Dipankar Chandra Roy, Nahida Sultana, Katsumi Fukamachi, Tomoya Ozaki, Hideaki Kurachi,  
Masumi Suzui

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

**P-88\* Withdrawn**

**P-89\* Tumorigenicity of human umbilical cord mesenchymal stem cells injected intravenously/ subcutaneously in NOG mice**

○Siming Zhang<sup>1</sup>, Tingli Bian<sup>1</sup>, Lili Zhang<sup>1</sup>, Fang Liu<sup>1</sup>, Hao Chen<sup>1</sup>, Lijuan Xia<sup>1</sup>, Yunxiang Chen<sup>1</sup>,  
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**P-90** Withdrawn

**P-91** Withdrawn