Plenary Lecture

September 9 (Tue) 15:00-15:50 Room A（705）
Chair: Seiichiro Himeno（Sch. Pharm., Showa Med. Univ.）

PL-1 **A path forward for the environmental health: towards a better chemical substance management**
◯ Shoji F Nakayama
(National Institute for Environmental Studies)

Educational Lecture

September 10 (Wed) 11:10-11:50 Room A（705）
Chair: Yoshiro Saito（NIHS）

EL-1 **“Pharmaceutical hygiene science” and “Regulatory science”**
◯ Yukihiro Goda
(Emeritus Director General, National Institute of Health Sciences, Japan; Director General, Toyama Prefectural Institute for Pharmaceutical Research)

Scientific Award

September 10 (Wed) 13:00-13:30 Room A（705）
Chair: Shuntaro Hara（Sch. Pharm., Showa Med. Univ.）

AL-1 **Mechanistic understanding of chemical carcinogenesis and the development of predictive and evaluative systems**
◯ Kouichi Yoshinari
(School. Pharm. Sci, Univ. Shizuoka)

Kanehara Award

September 10 (Wed) 13:30-13:50 Room A（705）
Chair: Ken Takeda（Fac. Pharm. Sci., Yamaguchi Univ. Pharm. Sci.）

AL2-1 **Key Events in Nanoparticle-Specific Adverse Outcome Pathways: Connection between Protein Misfolding Induced by Particle-Surface Interactions and Brain Health Risks**
◯ Atsuto Onoda
(Dep. Pharm., Sanyo-Onoda City Univ.)

September 10 (Wed) 13:50-14:10 Room A（705）
Chair: Nobuhiko Miura（Yokohama Univ. Pharm.）

AL2-2 **Comprehensive investigation into the mechanism of hepatic and renal injury and circadian variations in their susceptibility**
◯ Hiroki Yoshioka
(Kitasato Med Univ.)

Invited Lecture

September 9 (Tue) 11:30-12:00 Room A（705）
Chair: Yasumitsu Ogra（Fac. Pharm. Sci., Chiba Univ.）

IL-1 **Understanding Molecular Etiology of Ovarian Cancer**
◯ Jeehyeon Bae[1], Kangseok Lee[2]
([1]Fac. Pharm., Chung-Ang Univ., [2]Fac. Life Sci., Chung-Ang Univ.)

Forum Ⅰ: Pathophysiological Insights through Inter-Organ Network Analysis and Its Modulation by Chemical Agents

September 9 (Tue) 9:00-11:00 Room A（705）
Organizer / Chairs: Yoshinori Okamoto（Fac. Pharm., Meijo Univ.）
Mamoru Tanida（Fac. Med., Kanazawa Med. Univ.）

F1-1 **Reduction of estrogen-associated carcinogenic risk via targeting DNA damage and its therapeutic implications in hormone replacement**
◯ Yoshinori Okamoto, Akira Aoki, Hideto Jinno
(Fac. Pharm., Meijo Univ.)

F1-2 **Role of NAD^+ metabolism in the lateral hypothalamus for skeletal muscle functions and the pathogenesis of sarcopenia**
◯ Naoki Ito
(National Center for Geriatrics and Gerontology)

F1-3 **Gut hormone GLP-1 regulates feeding behavior and glucose metabolism via vagal afferents – brain axis**

◯ Yusaku Iwasaki
(Grad. Sch. Life Environ. Sci., Kyoto Prefectural Univ.)

F1-4 **Autonomic nerves form organ connections in response to endocrine hormones**

◯ Mamoru Tanida
(Dept. Physi2., Kanazawa Med. Univ)

Forum Ⅱ : The Cutting Edge of Science on Fragrance and Human Health

September 9 (Tue) 16:00-18:00 Room A（705）
Organizer / Chairs: Shinobu Sakai（NIHS）
Toshiko Tanaka-Kagawa（Yokohama Univ. Pharm.）

F2-1 **Environment and Health through the Lens of Human Skin Gas**

◯ Yoshika Sekine
(Sch. Sci., Tokai Univ.)

F2-2 **Aromatherapy and advanced medical care and therapy**

◯ Seiji Shioda[1], Michio Yamashita[2], Fumiko Takenoya[2]
([1]Fac. Pharm., Shonan Univ. Med Sci, [2]Fac. Pharm., Hoshi Univ. Pharma. Sci.)

F2-3 **Molecular networks involved in signal transduction in olfactory neurons and olfactory characteristics**

◯ Hiroko Takeuchi
(Frontier Biosci., U Osaka.)

F2-4 **Aroma Evaluation and Applications Using GC-MS**

◯ Natsuko Kanno
(Shimadzu corporation)

Forum Ⅲ : Developmental Study of Functional and Safe Foods with Health Claims

September 10 (Wed) 9:00-11:00 Room A（705）
Organizer / Chairs: Keiichi Motoyama（Grad. Sch. Life Sci., Kumamoto Univ.）
Kazuya Nagano（Fac. Pharm., Wakayama Med. Univ.）

F3-1 **Usability evaluation of amorphous curcumin with high water solubility as a functional food**
◯ Takuya Yamashita, Kazuya Nagano
(Sch. Pharm. Sci., Wakayama Medical Univ.)

F3-2 **Development of salt absorption control technology to prevent lifestyle-related diseases**
◯ Keiichi Motoyama
(Grad. Sch. Pharm. Sci., Kumamoto Univ.)

F3-3 **Development of an *in vitro* evaluation system for chemical-induced renal injury using proximal tubular epithelial cell spheroids**
◯ Hiroshi Arakawa
(Grad. Sch. Pharm. Sci., Nagoya City Univ.)

F3-4 **Visualization of the Gut Environment for the Realization of Precision Nutrition and Its New Developments Toward a Healthy Society**
◯ Jun Kunisawa[1,2,3,4,5]
([1]NIBN, [2]Osaka Univ, [3]IMSUT, [4]Kobe Univ, [5]Waseda Univ)

Forum Ⅳ : Recent Developments in Biometal Science and its Beyond

September 10 (Wed) 14:20-16:20 Room A（705）
Organizer / Chairs: Yoshiro Saito（Fac. Pharm. Sci., Tohoku Univ.）
Yasumitsu Ogra（Fac. Pharm. Sci., Chiba Univ.）

F4-1 **Chemical tools for visualization of labile iron and heme: from development to application**
◯ Tasuku Hirayama
(Gifu Pharm. Univ.)

F4-2 **Protein-Labeling Reagents Selectively Activated by Copper(I)**

◯ Tomonori Tamura, Rong Cheng, Itaru Hamachi
(Grad. Sch. Eng., Kyoto Univ.)

F4-3 **Discovery and evaluation of selective inhibitors targeting metal transporter ZIP14**

◯ Toshiyuki Fukada[1], Takafumi Hara[1], Gen Tanaka[2], Tomonori Tamura[3], Masaomi Terajima[4], Kengo Hamamura[5], Yuya Yoshida[5], Yusuke Kasai[1], Kazuto Nunomura[6], Toru Kimura[7], Hiroki Taguchi[1], Hitomi Fujishiro[1], Yuta Nakayama[1], Takumi Umeyama[1], Ayaka Noguchi[1], Yasuno Nakai[1], Emi Yoshigai[1], Naoya Matsunaga[5], Shigehiro Ohdo[5], Mitchell D. Knutson[8], Hiroshi Imagawa[1], Itaru Hamachi[3], Hiroyuki Sakurai[2]
([1]Tokushima Bunri Univ., [2]Kyorin Univ., [3]Kyoto Univ., [4]Astellas Pharma, [5]Kyushu Univ., [6]Osaka Univ., [7]Josai Univ., [8]Univ. of Florida)

F4-4 **Understanding and Application of Bio-metal Metabolism Based on Selenoprotein P**

◯ Takashi Toyama, Yoshiro Saito
(Grad. Sch. Pharm. Sci., Tohoku Univ.)

2025 Japan/Korea Joint Symposium on Pharmaceutical Health Science and Environmental Toxicology

September 9 (Tue) 13:00-14:00 Room A（705）
Chairs: Joohee Jung（Coll. Pharm., Duksung Women's Univ.）
Yo Shinoda（Sch. Pharm., Tokyo Univ. Pharm. Life Sci.）

S-1 **Crosstalk between gut bacteria-derived small molecules and human immune system**
◯ Munhyung Bae
(College of Pharmacy, Gachon Univ.)

S-2 **The new roles of G12 family proteins in cellular toxic response against metabolic stress**
◯ Tae Hyun Kim
(College of Pharmacy, Sookmyung Women's University, Seoul 04310, Republic of Korea)

S-3 **Removal of lead ions onto potassium-type fine-grained zeolite prepared from dry or wet milling treatment**
◯ Fumihiko Ogata
(Fac. Pharm., Kindai Univ.)

S-4 **Comparison of the efficacy of glutathione and metallothionein as protective factors against acute cadmium toxicity**
◯ Maki Tokumoto, Chikage Mori, Jin-Yong Lee, Masahiko Satoh
(Sch. Pharm., Aichi Gakuin Univ.)

2025 Japan/Korea Joint Symposium on Pharmaceutical Health Science and Environmental Toxicology: Poster Session

September 9 (Tue) 14:10-14:50 Room C (6F Exhibition Room)

PS-01 **Usefulness evaluation of acidic sophorolipid produced by *Starmerella bombicola*, as a transdermal delivery carrier of minoxidil**

◯ Ryotaro Tsutsumi[1], Yuki Miyazaki[1], Erika Kunimi[2], Misa Muraoka[2], Hirofumi Tsujino[2], Masayoshi Arai[2], Kazumasa Hirata[1,2], Masako Nakanishi[3], Shogo Ehata[3], Takuya Yamashita[1], Kazuya Nagano[1]
([1]Sch. Pharm. Sci., Wakayama Medical Univ., [2]Grad. Sch. Pharm. Sci., Osaka Univ., [3]Sch. Med. Sci., Wakayama Medical Univ.)

PS-02 **A novel fluorescent probe for simultaneous detection of ROS and ATP in a murine MASLD model**

◯ Chaewon Park, Tae Hyun Kim
(College of Pharmacy, Sookmyung Women's University, Seoul 04310, Republic of Korea)

PS-03 **Phase I and phase II drug metabolism of volatile chemicals in the mouse olfactory epithelium**

◯ Naoki Takaoka, Ayana Nishide, Sayomi Ishihara, Hiroki Kanda, Shigeru Ohta, Seigo Sanoh
(Sch. Pharm. Sci., Wakayama Med. Univ.)

PS-04 ***In vitro* acute respiratory toxicity test method using an artificial airway tissue model, SoluAirway™**

◯ Ji-Woo Choe[1,2], Geon-Hee Lee[3], Su-Hyun Lee[3], Ga-Eun Kim[4], Ha-Ryong Kim[4,*], Kyung-Min Lim[1,2,*]
([1]College of Pharmacy and Graduate School of Pharmaceutical Sciences, Ewha Womans University, Seoul 03760, Korea,
[2]Gradutate Program in Innovative Biomaterials Convergence, Ewha Womans University, Seoul 03760, Korea,
[3]R&D Institute, Biosolution Co., Ltd., Seoul 06746, Korea,
[4] College of Pharmacy, Korea University, Sejong 30019, Korea)

PS-05 **Comprehensive toxicological evaluation of *trans*-fatty acids based on *in vivo* metabolic profiling**

◯ Shinnosuke Kimura[1], Yusuke Hirata[1], Ryota Kojima[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]
([1]Lab. of Health Chem., Grad. Sch. of Pharm. Sci., Tohoku Univ.,
[2]Dep. of Med. Biochem., Sch. of Pharm., Iwate Med. Univ.)

PS-06 **Oxaliplatin can induce the externalization of phosphatidylserine in erythrocytes promoting nephrotoxicity via erythrophagocytosis in HK-2 cells**

◯ Jong-In Park, Ok-Nam Bae
(Coll. Pharm., Hanyang Univ.)

PS-07 **Elucidation of the anti-inflammatory mechanisms by the cephem antibiotics**

◯ Sara Suzuki[1], Yusuke Hirata[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]
([1]Grad. Sch. of Pharmaceut. Sci., Tohoku Univ., [2]Fac. of Pharm., Iwate Med. Univ.)

PS-08 **Exploring hybrid molecular descriptors: A feature extraction strategy combining Zernike moments and scalar descriptors**

◯ Yusun Shin, Ok-Nam Bae
(Coll. Pharm., Hanyang Univ.)

PS-09 **Maternal exposure to TCDD elicits megaloblastic anemia in the fetus due to insufficient active cobalamin that disrupts one-carbon metabolism**

◯ Yuki Ishiiyama[1], Mana Fujimoto[1], Xing Zou[1], Hiroe Sano[1], Takayuki Koga[2], Yoshitaka Tanaka[1], Yuji Ishii[1]
([1]Grad. Sch. Pharmaceut. Sci., Kyushu Univ., [2]Daiichi Univ. Pharm.)

PS-10 **Functional consequences of soluble epoxide hydrolase inhibition in platelets**

◯ Jae-Hyeong Kim, Jung-Min Park, Moo-Yeol Lee
(BK21 FOUR Team and Integrated Research Institute of Drug Development, College of Pharmacy, Dongguk University, Republic of Korea)

PS-11 **AhR-Ligand induced expression of SELENBP1 in human cells: involvement of hESR1**

◯ Shuangli Zhao[1,2], Yingxia Song[1,3], Ren-shi Li[4], Takayuki Koga[5], Yoshitaka Tanaka[1], Yuji Ishii[1]
([1]Div Pharmaceuti Cell Biol, Grad Sch Pharmaceuti Sci, Kyushu Univ,
[2]JSPS Fellow DC2,
[3]Shanghai Lu Daopei Hematology Hospital, [4]China Pharmaceutical University,
[5]Daiichi Univ. Pharmacy)

PS-12 **Reproductive and developmental toxicity prediction of chemicals using OECD test guideline data and Tox21 program**

◯ Hee Jung Kwon[1], Sunyi Lee[1], Woori Ko[2], Shin Jea Yun[2], Hyomin Lee[2], Yoshihiro Uesawa[3], Joohee Jung[1]
([1]Coll. Pharm., Duksung Women's Univ., [2]RA&M Consulting,
[3]Dept. Med. Mol. Info., Meiji Pharm. Univ.)

PS-13 **Suppression of perlecan, a heparan sulfate proteoglycan, in vascular endothelial cells via ATP-P2Y2R-Akt signaling by extracellular ATP**

◯ Lihito Ikeuchi[1], Tsuyoshi Nakano[2], Takato Hara[2], Kazuki Kitabatake[1], Chika Yamamoto[2], Mitsutoshi Tsukimoto[1], Tomoya Fujie[1], Toshiyuki Kaji[1]
([1]Fac. Pharm. Sci., Tokyo Univ. Sci., [2]Fac. Pharm. Sci., Toho Univ.)

PS-14 **Predictive evaluation of skin toxicity using QSAR tools: alignment with regulatory classifications**

◯ Sooyeon Kim[1,2], Hee Jung Kwon[1], Sunyi Lee[1], Sanghyeon Yeon[2], Joohee Jung[1]
([1]Coll. Pharm., Duksung Women's Univ., [2]Chemtopia)

PS-15 **Selenoprotein P attenuates cisplatin-induced cytotoxicity in proximal tubular cells**

◯ Hiroki Taguchi[1], Nanae Matsubara[1], Takashi Toyama[1], Hitomi Fujishiro[2], Daigo Sumi[2], Yoshiro Saito[1]
([1]Grad. Sch. Pharm. Sci., Tohoku Univ., [2]Fac. Pharm. Sci., Tokushima Bunri Univ.)

PS-16 **Impaired chaperone-mediated autophagy induces Trim44 accumulation in the liver**

Ji Ye Hyun[1], You-Jin Choi[2], ◯ Yujeong Choi[1], Zhang Yunfan[1], Juseo Kim[1], Ji Min Lee[1], Wonseok Lee[3], Byung-Hoon Lee[1*]
([1]Coll. Pharm., Seoul National Univ., [2]Coll. Pharm., Daegu Catholic Univ., [3]Coll. Pharm., Gachon Univ.)

PS-17 **Elucidation of methylmercury-induced inhibition of Selenium metabolism and identification of sensitivity determinants using stepwise knockout strains of the Selenium metabolic pathway**

◯ Hayato Takashima[1], Hiroki Taguchi[1], Takashi Toyama[1], Junya Ito[2], Eikan Mishima[2], Yoshiro Saito[1]
([1]Grad. Sch. Pharm. Sci., Tohoku Univ., [2]Helmholtz Munich)

PS-18 **Novel insight into etiology of ovarian cancer**

◯ Jeehyeon Bae[1], Kangseok Lee[2]
([1]Fac. Pharm., Chung-Ang Univ., [2]Fac. Life Sci., Chung-Ang Univ.)

PS-19 **MEK1/ERK2 activation mediates slow cell death following iron-independent lipid peroxidation in GPx4-deficient cells**

◯ Kahori Tsuruta[1,2], Non Miyata[1], Masaki Matsuoka[2], Masayoshi Fukasawa[1], Hirotaka Imai[2]
([1]Biochem. Cell Biol., NIID, JIHS, [2]Sch. Parm Sci, Kitasato Univ.)

PS-20 **Molecular mechanism for the effect of gut bacteria on human immune system**

◯ Munhyung Bae
(College of Pharmacy, Gachon Univ.)

PS-21 **Loss of function of GPx4 in cartilage induce metaphyseal dysplasia**

◯ Shu Nakajima, Mayu Ohta, Kahori Tsuruta, Masaaki Matsuoka, Shu Yasuda, Tomoko Koumura, Hirotaka Imai
(Sch. Pharm. Sci. Kitasato Univ.)

PS-22 **Effect of the nuclear receptor pathway on the cadmium toxicity**

◯ Jin-Yong Lee, Chikage Mori, Maki Tokumoto, Laurie H.M. Chan, Masahiko Satoh
([1]Aichi Gakuin Univ., Japan, [2]Univ. Ottawa, Canada)

Award Candidates Presentation Candidates for Rookie of the Year Award

September 9 (Tue) 9:00-10:10 Room B (702・703・704)
Chair: Fumihiko Ogata (Fac. Pharm., Kindai Univ.)

A-1 (P-008) **Comprehensive toxicological evaluation of *trans*-fatty acids based on *in vivo* metabolic profiling**

◯ Shinnosuke Kimura[1], Yusuke Hirata[1], Ryota Kojima[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]
([1]Lab. of Health Chem., Grad. Sch. of Pharmaceut. Sci., Tohoku Univ.,
[2]Dep. of Med. Biochem., Sch. of Pharm., Iwate Med. Univ.)

A-2 (P-056) **Maternal DHA Intake in mice Increased DHA Metabolites in the Fetal Brain and Regulated Brain Functions**

◯ Shinji Fujimoto[1], Ami Oguro[2], Megumi Yamamoto[3], Yaichiro Kotake[2]
([1]Sch. Pharm. Sci., Hiroshima Univ.,
[2]Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.,
[3]National Institute for Minamata Disease)

A-3 (P-068) **Involvement of PRDX6, a chalcogen receptor, in metabolic remodeling of selenium**

◯ Ryui Miyazaki[1], Takashi Toyama[2], Yoshiro Saito[2]
([1]Lab of MB & M, Fac, Pharm, Tohoku Univ.,
[2]Lab of MB & M, Grad. Sch. Pharm. Sci., Tohoku Univ.)

A-4 (P-057) **Mechanism of p62 nuclear accumulation induced by a Parkinson's disease-related neurotoxins**

◯ Chihiro Suto[1], Masatsugu Miyara[1,2], Honoka Hashimoto[2], Yaichiro Kotake[1,2]
([1]Sch. Pharm. Sci., Hiroshima Univ.,
[2]Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.)

A-5 (P-103) **Cyclic mechanical stretching potentiates cadmium-induced toxicity in vascular endothelial cells**

◯ Sara Ogawa[1], Yukino Kasama[1], Hikaru Fujimori[2], Takato Hara[2], Chika Yamamoto[2], Toshiyuki Kaji[1], Tomoya Fujie[1]
([1]Fac. Pharm. Sci., Tokyo Univ. Sci., [2]Fac. Pharm. Sci., Toho Univ.)

A-6 (P-133) **Formation and degradation mechanisms of γ-glutamyl-β-cyanoalanylglycine in human hepatocarcinoma cell line, HepG2**

◯ Tomoya Taguchi[1], Yoshikazu Yamagishi[2], Yasumitsu Ogra[3]
([1]Fac. Pharm., Chiba Univ., [2]Grad. Sch. Med. Sci., Chiba Univ.,
[3]Grad. Sch. Pharm. Sci., Chiba Univ.)

A-7 **Elucidation of the anti-inflammatory mechanisms by the cephem antibiotics**

(P-058) ○ Sara Suzuki[1], Yusuke Hirata[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]

([1]Grad. Sch. of Pharmaceut. Sci., Tohoku Univ., [2]Fac. of Pharm., Iwate Med. Univ.)

A-8 **Analysis of lipid oxidation mechanism by Lipo1 using Lipo1 KO mice**

(P-113) ○ Bo Chen, Shotaro Hatanaka, Masaki Matsuoka, Hirotaka Imai

(Fac. Pharm., Kitasato Univ.)

A-9 **Effects of nanoparticle exposure on neuronal cells caused by differentially**

(P-019) **expressed miRNAs in extracellular vesicles**

○ Momoka Tanaka, Atsuto Onoda, Ken Takeda, Ken Tachibana

(Fac. Pharm.Sci, Sanyo-onoda city Univ.)

A-10 **Absolute quantification of abasic sites in RNA using LC-MS/MS and its increase**

(P-073) **by inhibition of DNA repair enzyme APE1**

○ Manami Muramatsu, Yoshinori Okamoto, Akira Aoki, Hideto Jinno

(Fac. Pharm., Meijo Univ.)

Award Candidates Presentation Candidates for Young Investigator Award

September 9 (Tue) 10:10-11:30 Room B (702・703・704)
Chair: Hirotaka Imai (Fac. Pharm., Kitasato Univ.)

B-1 (P-013) **Transgenerational Growth Retardation in an Offspring Induced by Prenatal Exposure to TCDD: Mechanisms of Restoring Disorders in the F1 Generation via Aripiprazole Intervention in F0 Dams**

◯ Xing Zou[1], Ming Yuan[1], Takeshi Matsushita[2], Tomoki Takeda[1,3], Yoshitaka Tanaka[1], Yuji Ishii[1]
([1]Grad Sch Pharmaceuti Sci., Kyushu Univ., [2]Pharmaceuti Sci., Kyushu Univ., [3]F-SEEDS)

B-2 (P-059) **Methylglyoxal confers resistance to ferroptosis in cancer cells**

◯ Takuya Niijima[1], Yusuke Hirata[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]
([1]Lab. Of Health Chem., Grad. Sch. Of Pharmaceut. Sci., Tohoku Univ., [2]Dep. of Med. Biochem., Sch. of Pharm., Iwate Med. Univ.)

B-3 (P-010) **AhR-Ligand induced expression of SELENBP1 in human cells: involvement of hESR1**

◯ Shuangli Zhao[1,2], Yingxia Song[1], Ren-shi Li[3], Takayuki Koga[4], Yoshitaka Tanaka[1], Yuji Ishii[1]
([1]Grad Sch Pharmaceuti Sci, Kyushu Univ, [2]JSPS Fellow DC2, [3]China Pharmaceutical University, [4]Daiichi Univ. Pharmacy)

B-4 (P-108) **Physiological role of a reducing intestinal environment mediated by gut microbial supersulfides**

◯ Jun Uchiyama[1,2], Masahiro Akiyama[2]
([1]Grad. Sch. Pharm., Keio Univ., [2]Inst. Clin. Pharmacol., Showa Med Univ.)

B-5 (P-055) **A novel toxicological mechanism of tributyltin via CASM**

◯ Shunichi Hatamiya, Masatsugu Miyara, Yaichiro Kotake
(Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.)

B-6 (P-111) **Lipoxytosis chemical inducers can initiate lipid peroxidation induced cell death in an iron-independent manner via the lipid oxidase Lipo1**

◯ Yuzu Kono[1], Ayaka Enomoto[1], Masaki Matsuoka[1], Tomoyasu Hirose[2], Masato Iwatsuki[2], Hirotaka Imai[1]
([1]Kitasato Univ., [2]Omora Satoshi Memorial Institute)

B-7 (P-112) **The lipoxytosis executor Lipo2 translocates from the nucleus to membrane and induces cell death**

◯ Yu Fujiwara, Masaki Matsuoka, Hirotaka Imai
（Sch. Pharm. Sci., Kitasato Univ.）

B-8 (P-045) **Exploring the role and physiological significance of COQ5 in MK-4 conversion mechanism**

◯ Kurumi Nakagawa[1], Shunta Sudo[1], Mei Koyanagi[2], Yoshitomo Suhara[1,2], Liqing Zang[3], Yasuhito Shimada[4], Yoshihisa Hirota[1,2]
（[1]Grad. Sch., Shibaura Inst. of Tech., [2]Shibaura Inst. of Tech., [3,4]Mie Univ.）

B-9 (P-027) **Elucidation of methylmercury-induced inhibition of Selenium metabolism and identification of sensitivity determinants using stepwise knockout strains of the Selenium metabolic pathway**

◯ Hayato Takashima[1], Hiroki Taguchi[1], Takashi Toyama[1], Junya Ito[2], Eikan Mishima[2], Yoshiro Saito[1]
（[1]Grad. Sch. Pharm. Sci., Tohoku Univ., [2]Helmholtz Munich）

B-10 (P-123) **Maintenance of Acyl Chain Asymmetry in Membrane Phospholipids via Phospholipase A**

◯ Tsumugi Iwata[1], Hiroki Kawana[2], Yutaro Yagi[1], Nozomu Kono[1], Junken Aoki[1]
（[1]Grad. Sch. Pharm. Sci., Tokyo Univ.,
[2]Grad. Sch. Science and Technology., Nara Institute of Science and Technology）

Oral Session 1

September 9 (Tue) 16:00-17:00 Room B（702・703・704）
Chairs: Saotomo Itoh（Sch. Pharm., Aichi Gakuin Univ.）
Hiroki Yoshioka（Sch. Med., Kitasato Univ.）

O1-1 **Development of a human iPS cell-derived intestinal evaluation model and validation of drug toxicity and prophylactic effects**

◯ Isamu Ogawa[1], Yudai Matsuura[1], Miki Akimoto[1], Chihiro Kobayashi[1], Takaaki Nakai[1], Takuya Kanno[2], Takahito Katano[2], Hiromi Kataoka[2], Tamihide Matsunaga[1], Takahiro Iwao[1], Shigeaki Hida[1]
（[1]Grad. Sch. Pharm. Sci., Nagoya City Univ.,
[2]Grad. Sch. Med. Sci., Nagoya City Univ.）

O1-2 ***trans*-Fatty acids promote cellular senescence and inflammation upon DNA damage**

◯ Yusuke Hirata[1], Ryota Kojima[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]
（[1]Lab. of Health Chem., Grad. Sch. of Pharmaceut. Sci., Tohoku Univ.,
[2]Dep. of Med. Biochem., Sch. of Pharm., Iwate Med. Univ.）

O1-3 **Nutritional availability and selenoprotein response to selenium methylation products in human liver cells**

◯ Kotaro Ishibashi[1], Seito Hirashima[1], Hiroaki Takemoto[2], Noriyuki Suzuki[1]
（[1]Fac. Pharm. Sci., Toho Univ, [2]Sch. Pharm., Int. Univ. Health and Welfare, Narita）

O1-4 **Effect of vitamin K-converting enzyme UBIAD1 deficiency on osteoblast proliferation and differentiation**

◯ Shunsuke Hirashima, Chikako Kita, Ayari Kitamura, Takashi Kimoto, Kimie Nakagawa
（Fac. Pharm. Sci., Kobegakuin Univ.）

O1-5 **Disorganization of the corticomedullary boundary in the maternal thymus by childbirth**

◯ Kei Nakayama, Hiroshi Hasegawa
（Lab. Hygienic Sci., Kobe Pharm. Univ.）

Oral Session 2

September 10 (Wed) 9:00-10:00 Room B（702・703・704）
Chairs: Yasuhiro Shinkai（Sch. Life Sci., Tokyo Univ. Pharm. Life Sci.）
Ken Tachibana（Fac. Pharm. Sci., Yamaguchi Univ. Pharm. Sci.）

O2-1 **Development of a non-invasive method for detection of male reproductive toxicity using a novel compact magnetic resonance imaging system**

◯ Satoshi Yokota[1], Kousuke Suga[1], Hidenobu Miyaso[2], Hiroki Yoshioka[3], Satoshi Kitajima[1]
（[1]National Institute of Health Sciences, [2]Tokyo Medical University., [3]Kitasato Univ. Sch. Med.）

O2-2 **Establishment of a method for simultaneous determination of methylmercury and inorganic mercury in breast milk**

◯ Miyuki Iwai-Shimada[1], Kenta Iwai[1], Kaname Asato[2], Yayoi Kobayashi[1], Kunihiko Nakai[3], Shoji F. Nakayama[1], Nozomi Tatsuta[1]
（[1]NIES., [2]Tohto Univ., [3]Tokaigakuen Univ.）

O2-3 **Development of a Simultaneous LC-MS/MS Analysis Method for Deoxynivalenol and Its Analogues, and Application to Grain Samples**

◯ Erina Imai[1], Emi Shirotani[2], Masahiko Tachi[1], Hirokazu Tsuzuki[1]
（[1]Aichi Prefectural Institute of Public Health, [2]Kinuura Health Center）

O2-4 **Adsorptive removal of bipyridinium herbicide using wheat bran for prevention of pesticide poisoning**

◯ Yugo Uematsu, Hikaru Yamashita, Fumihiko Ogata, Naohito Kawasaki
（Fac. Pharm., Kindai Univ.）

O2-5 **Development of an atlas of large animal lung diseases at single-cell resolution**

◯ Shotaro Yamano, Yumi Umeda
（National Institute of Occupational Safety and Health）

Oral Session 3

September 10 (Wed) 10:00-11:00 Room B（702・703・704）
Chairs: Hitomi Fujishiro（Fac. Pharm. Sci., Tokushima Bunri Univ.）
Miyuki Iwai-Shimada（NIES）

O3-1 **Maintaining activity of UDP-glucuronosyltransferase 1A9 by its cytoplasmic tail and prediction of the molecular mechanism**

◯ Yuu Miyauchi[1], Yume Sadato[2], Madoka Sawai[3], Shinji Takechi[1], Masahiro Hiratsuka[4], Yuji Ishii[2]
（[1]Fac. Pharmaceut. Sci., Sojo Univ., [2]Grad. Sch. Pharm. Sci., Kyushu Univ., [3]Sch. Pharm. at Fukuoka, Int. Univ. Health & Welfare, [4]Grad. Sch. Pharm. Sci., Tohoku Univ.）

O3-2 **Phase I and phase II drug metabolism of volatile chemicals in the mouse olfactory epithelium**

◯ Naoki Takaoka, Sayomi Ishihara, Ayana Nishide, Hiroki Kanda, Shigeru Ohta, Seigo Sanoh
（Sch. Pharm. Sci., Wakayama Med. Univ.）

O3-3 **Elucidation of the mechanism of cisplatin-induced renal injury via complex formation by selenoprotein P**

◯ Nanae Matsubara, Hiroki Taguchi, Takashi Toyama, Yoshiro Saito
（Laboratory of Molecular Biology and Metabolism, Tohoku Univ.）

O3-4 **Effect of selenoprotein P on bone remodeling**

◯ Fuka Kaise, Takashi Toyama, Yoshiro Saito
（Fac. Pharm., Tohoku Univ.）

O3-5 **Development of a new diabetes treatment based on the suppression of selenoprotein P expression**

◯Marina Ueki[1], Mei Hanaki[1], Mayu Yamashita[2], Ozora Sasamoto[2], Masanori Shigeno[2], Takashi Toyama[2], Yoshiro Saito[2]
（[1]Fac. Pharm., Tohoku Univ., [2]Grad. Sch. Pharm., Tohoku Univ.）

Oral Session 4

September 10 (Wed) 14:20-15:20 Room B（702・703・704）
Chairs: Yuji Ishii（Grad. Sch. Pharm. Sci., Kyushu Univ.）
Seigo Sanoh（Sch. Pharm. Sci., Wakayama Med. Univ.）

O4-1 **Investigation of adverse outcome pathway for lead-induced developmental neurotoxicity**

◯ Keishi Ishida, Kisaki Naito, Kyoko Mekada, Daisuke Matsumaru, Tsuyoshi Nakanishi
（Gifu Pharm. Univ.）

O4-2 **Possible Involvement of Oxidative Stress in Anti-Androgen-Induced Urethral Malformation**

◯ Miu Morikawa[1], Daisuke Matsumaru[1], Yuta Mori[1], Aki Murashima[2], Keishi Ishida[1], Tsuyoshi Nakanishi[1]
（[1]Gifu Pharm. Univ., [2]Grad. Sch. Med. Sci., Nagoya City Univ.）

O4-3 **Sex-Differences in Developmental Effects of Prenatal and Lactational Exposure of Rats to Benzo[a]pyrene**

◯ Shashi Nandar Kumar[1], Noha E. Sheble[1], Yousra Reda[1], Cai Zong[1], Mahfuza Rahman[1], Ummara Altaf[1], Saleh Ahmed[1], Sai Charan[1], Takuto Ikeda[1], Mizuki Sawada[1], Sahoko Ichihara[2], Natsuko Kubota[3], Shinya Yanagita[3], Gaku Ichihara[1*]
（[1]Department of Occupational and Environmental Health, Faculty of Pharmaceutical Sciences, Tokyo University of Science, Katsushika-ku, Tokyo 125-8585, Japan,
[2]Department of Environmental and Preventive Medicine, Jichi Medical University, Shimotsuke 329-0498, Japan,
[3]Faculty of Science and Technology, Tokyo University of Science, Noda 278-8510, Japan）

O4-4 **MBP, a metabolite of bisphenol A, induces expression and transcription of β-catenin, which is involved in the malignancy of breast cancer cells**

◯ Masayo Hirao-Suzuki[1], Koki Kanameda[2], Masufumi Takiguchi[1], Shuso Takeda[2]
（[1]Fac. Pharm. Sci., Hiroshima Intl. Univ.,
[2]Grad. Sch. Pharm. Pharmaceut. Sci., Fukuyama Univ.）

O4-5 **Mutation signature analysis induced by environmental mutagens using error-corrected NGS**

◯ Shinya Hasegawa[1], Rikako Ishigamori[1], Marina Ohno[2], Kenichi Yoshida[2], Nobuyuki Kakiuchi[3], Koichi Watanabe[3], Shun Kawaguchi[3], Seishi Ogawa[3,4], Yukari Totsuka[1]
（[1]Hoshi Univ., [2]Natl. Cancer Ctr Res., [3]Kyoto Univ.,
[4]Inst. for the Advanced Study of Human Biol., Kyoto Univ.）

Oral Session 5

September 10 (Wed) 15:20-16:10 Room B（702・703・704）
Chairs: Daisuke Matsumaru（Gifu Pharm. Univ.）
Tsutomu Takahashi（Sch. Pharm., Tokyo Univ. Pharm. Life Sci.）

O5-1 **Analysis of vitamin K conversion dynamics during inflammation in immune system tissues**

◯ Takashi Kimoto, Yoshinori Harada, Yukie Matsui, Shunsuke Hirashima, Kimie Nakagawa
（Fac. Pharm., Kobe Gakuin Univ.）

O5-2 **Hematopoietic prostaglandin D synthase-derived PGD_2 suppresses caerulein-induced pancreatitis**

◯ Kenta Hosomi[1], Masatoshi Nakatsuji[1], Yusuke Onishi[2], Shigeru Kawabata[2,3], Yoshinobu Hirose[2], Ko Fujimori[1]
（[1]Grad. Sch. Pharm. Sci., Osaka Med. Pharm. Univ.,
[2]Fac. Med. Sci., Osaka Med. Pharm. Univ., [3]Fac. Med. Sci., Shimane Univ.）

O5-3 **Mechanism of lipid-oxidation dependent cell death by interacting molecules with GPx4**

◯ Shu Yasuda[1], Ryusei Abe[1,2], Hirotaka Imai[1]
（[1]Grad. Sch. Pharm. Sci., Kitasato Univ., [2]Grad. Sch. Pharm. Sci., The Univ. of Tokyo）

O5-4 **Transcription factor SOX10 regulates melanoma ferroptosis by modulating expression of RXRγ**

◯ Hiyori Ito, Hana Ishizuka, Yue Zhou, Hiroaki Sakurai, Satoru Yokoyama
（Grad. Sch. Pharm. Sci., Toyama Univ.）

Poster Session: Day 1

September 9 (Tue) 14:10-14:50 Room C（6F Exhibition Room）

P-001 **Forensic science research into the developmental stages of cannabis cultivation**

◯ Noriyuki Usami[1], Rina Kato[1], Kai Aruga[1], Ayako Kitano[1], Asuka Moribayashi[1], Sohta Kikuchi[1], Shion Suzuki[1], Mai Takata[1], Ayaka Yamada[1], Takuya Shuo[2]
（[1]Fac.Pharm. Sci., Hokuriku Univ., [2]Fac. Heal. Med. Sci., Hokuriku Uni.）

P-002 **Component analysis of kombu extracts using ^{1}H-NMR metabolome analysis**

◯ Kazumi Sugihara[1], Masumi Motonaga[1], Yoshitaka Tayama[1], Yaichiro Kotake[2]
（[1]Fac. Pharm. Sci., Hiroshima Int'l Univ., [2]Grad. Sch. Biomed. Health & Sci., Hiroshima Univ.）

P-003 ***In silico*** **search for TRPA1 antagonists targeting scent compounds in the living environment**

◯ Kano Hirota[1], Yuka Suzuki[1], Shino Ogawa[1], Susumu Ohkawara[1], Takashi Isobe[1], Nobumitsu Hanioka[1], Hideto Jinno[2], Toshiko Tanaka-Kagawa[1]
（[1]Yokohama Univ. Pharm., [2]Facul. Pharm., Meijo Univ.）

P-004 ***In silico*** **evaluation of human TRPA1 activation by fragrance components in fabric softeners**

◯ Yuka Suzuki[1], Kano Hirota[1], Shino Ogawa[1], Susumu Ohkawara[1], Takashi Isobe[1], Nobumitsu Hanioka[1], Hideto Jinno[2], Toshiko Tanaka-Kagawa[1]
（[1]Yokohama Univ. Pharm., [2]Facul. Pharm., Meijo Univ.）

P-005 ***In silico*** **search for hTRPA1 antagonists targeting lactones among the "Class 18 Flavoring Substances" designated by the Ministry of Health, Labour and Welfare of Japan**

◯ Anju Kondo[1], Susumu Ohkawara[1], Takashi Isobe[1], Nobumitsu Hanioka[1], Hideto Jinno[2], Toshiko Tanaka-Kagawa[1]
（[1]Yokohama Univ. Pharm., [2]Facul. Pharm., Meijo Univ.）

P-006 **Effects of acetamiprid and its metabolites on neural stem cells**

◯ Ryoko Tamura, Tomomi Mikajiri, Atsuto Onoda, Ken Takeda, Ken Tachibana
（Fac. Pharm. Sci., Sanyo-Onoda City Univ.）

P-007 **Analysis of Maternal Transfer of Dinotefuran and Its Metabolites to Offspring**

◯ Satsuki Takano, Atsuto Onoda, Ken Takeda, Ken Tachibana
（Fac. Pharm. Sanyo-Onoda City Univ.）

P-008 **Comprehensive toxicological evaluation of *trans*-fatty acids based on *in vivo* metabolic profiling**

◯ Shinnosuke Kimura[1], Yusuke Hirata[1], Ryota Kojima[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]

([1]Lab. of Health Chem., Grad. Sch. of Pharmaceut. Sci., Tohoku Univ., [2]Dep. of Med. Biochem., Sch. of Pharm., Iwate Med. Univ.)

P-009 **Exposure to Heated Tobacco Aerosol Enhances Hepatic Triglyceride Metabolism in Mice Fed a High-Fat Diet**

◯ Sawako Shindo[1], Madoka Nihei[1], Kodai Tsukada[1], Yohei Inaba[2], Akira Ushiyama[2], Kenji Hattori[1]

([1]Fac. Pharm. Sci., Meiji Pharm. Univ., [2]Dep. Env. Health, NIPH)

P-010 **AhR-Ligand induced expression of SELENBP1 in human cells: involvement of hESR1**

◯ Shuangli Zhao[1,2], Yingxia Song[1], Ren-shi Li[3], Takayuki Koga[4], Yoshitaka Tanaka[1], Yuji Ishii[1]

([1]Grad Sch Pharmaceuti Sci, Kyushu Univ, [2]JSPS Fellow DC2, [3]China Pharmaceutical University, [4]Daiichi Univ. Pharmacy)

P-011 **Maternal exposure to TCDD elicits megaloblastic anemia in the fetus due to insufficient active cobalamin, which disrupts the one-carbon metabolism**

◯ Yuki Ishiiyama[1], Mana Fujimoto[1], Xing Zou[1], Hiroe Sano[1], Takayuki Koga[2], Yoshitaka Tanaka[1], Yuji Ishii[1]

([1]Grad. Sch. Pharmaceut. Sci., Kyushu Univ., [2]Daiichi Univ. Pharm.)

P-012 **The developmental disorders in rat fetuses caused by maternal exposure to low-dose TCDD and restoration by nobiletin: Study on the reduction of fetal GH and maternal thyroid hormone**

◯ Nao Yoshikawa[1], Ryoto Hiyama[2], Ryoya Inatsugi[1], Chiho Ohta[3], Nobuyuki Koga[3], Yoshitaka Tanaka[2], Yuji Ishii[2]

([1]Fac. Pharmaceut. Sci., [2]Grad. Sch. Pharmaceut. Sci., Kyushu Univ., [3]Nakamura Gakuen Univ.)

P-013 **Transgenerational Growth Retardation in an Offspring Induced by Prenatal Exposure to TCDD: Mechanisms of Restoring Disorders in the F1 Generation via Aripiprazole Intervention in F0 Dams**

◯ Xing Zou[1], Ming Yuan[1], Takeshi Matsushita[2], Tomoki Takeda[1,3], Yoshitaka Tanaka[1], Yuji Ishii[1]

([1]Grad Sch Pharmaceuti Sci., Kyushu Univ., [2]Pharmaceuti Sci., Kyushu Univ., [3]F-SEEDS)

P-014 **Chain Length–Dependent Effects of PFASs on Hepatic Protein Expression in Mice**

◯ Reina Hirao[1], Mizuki Akai[2], Ayaka Takagi[1], Kanae Miyara[2], Seigo Sanoh[3], Yasuo Uchida[1,2], Yaichiro Kotake[1,2]
([1]Fac. Pharmaceut. Sci., Hiroshima Univ.,
[2]Grad. Sch. Biomed. Health Sci., Hiroshima Univ.,
[3]Sch. of Pharm. Sci., Wakayama Med. Univ.)

P-015 **Analysis of the Properties and Health Effects of Ambient Particulate Matter**

◯ Saori Taneo, Satoshi Fukushima, Nariaki Ougiya, Atsuto Onoda, Ken Takeda, Ken Tachibana
(Fac. Pharm., Sanyo-Onoda City Univ.)

P-016 **Nanoparticle-induced Abnormal Protein Structuring and Its Dynamics in the Brains**

◯ Atsuto Onoda[1], Yutaro Yagi[1], Naoya Sakaguchi[2], Yuta Takahashi[2], Kaumbekova Samal[2], Ken Tachibana[1], Ken Takeda[1], Masakazu Umezawa[2]
([1]Dep. Pharm., Sanyo-Onoda City Univ,
[2]Dep. Materials and Technology, Tokyo Univ of Science)

P-017 **Quantification of hydroquinones in mainstream smoke from e-cigarette products and comparison of concentrations with benzoquinones**

◯ Haruki Tara[1], Yumi Abiko[1], Kanae Bekki[2], Yohei Inaba[2], Akira Toriba[1]
([1]Grad. Sch. Biomed. Sci., Nagasaki Univ., [2]National Institute of Public Health)

P-018 **Cd displays the unsynchronized phenomena: impaired cell growth and stimulated E2 signaling**

◯ Koki Kanameda[1], Masayo Hirao-Suzuki[2], Narumi Sugihara[3], Masufumi Takiguchi[2], Shuso Takeda[1,3]
([1]Grad. Sch. Pharm. Pharmaceut. Sci., Fukuyama Univ.,
[2]Fac. Pharm. Sci., Hiroshima Intl. Univ.,
[3]Fac. Pharm. Pharmaceut. Sci., Fukuyama Univ.)

P-019 **Effects of nanoparticle exposure on neuronal cells caused by differentially expressed miRNAs in extracellular vesicles**

◯ Momoka Tanaka, Atsuto Onoda, Ken Takeda, Ken Tachibana
(Fac. Pharm.Sci, Sanyo-onoda city Univ.)

P-020 **Effect of environmental light/dark condition on chronopharmacological characteristics of antidepressant activity of fluoxetine**

Sayuri Honda[1], Reiko Iwadate[2], ◯ Hiroshi Kawai[1]
([1]Fac. Pharm. Pharmaceut. Sci., Josai Univ. , [2]Nippon Med. Sch.)

P-021 **Accumulation and metabolism of a fragrance compound, alpha-pinene, in the brain and their effects on brain function**

◯ Saki Nagai, Ami Oguro, Yaichiro Kotake
（Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.）

P-022 **Effects of limonene metabolites on neurons and glial cells in the brain**

◯ Nozomi Mizutani, Ami Oguro, Yaichiro Kotake
（Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.）

P-023 **Prenatal nanoparticle exposure induces perivascular brain lesions: Role of long noncoding RNA**

◯ Takeshi Uemae[1], Masakazu Umezawa[2], Ryodai Itano[2], Hiyori Edo[2], Yuto Matsunaga[2], Ken Tachibana[1], Ken Takeda[1], Atsuto Onoda[1]
（[1]Fac. Pharm., Sanyo-Onoda Univ., [2]Fac. Adv Eng., Tokyo Univ Sci.）

P-024 **Involvement of microglia in the spinal dorsal horn in methylmercury-induced hyperalgesia**

◯ Ryota Yamagata, Toko Sasaki, Naoya Yamashita, Gi-Wook Hwang
（Fac. of Pharmaceut. Sci., Tohoku Med. Pharmaceut. Univ.）

P-025 **Development and application of quantitative analysis with a chemical derivatization for selenide *in vivo***

◯ Mizuki Kamata[1], Noriyuki Suzuki[2], Misaki Matsunaga[3], Yoshikazu Yamagishi[4], Yasumitsu Ogra[5]
（[1]Fac. Pharm. Sci., Chiba Univ., [2]Fac. Pharm. Sci., Toho Univ., [3]Grad. Sch. Med. Pharm. Sci., Chiba Univ., [4]Grad. Sch. Med., Chiba Univ., [5]Grad. Sch. Pharm. Sci., Chiba Univ.）

P-026 **Role of RACK1 in methylmercury toxicity in mouse neuronal stem cells**

◯ Naoya Yamashita, Ayaka Shoji, Miki Sawada, Ryota Yamagata, Gi-Wook Hwang
（Fac. Pharmaceut. Sci., Tohoku Med. Pharmaceut. Univ.）

P-027 **Elucidation of methylmercury-induced inhibition of Selenium metabolism and identification of sensitivity determinants using stepwise knockout strains of the Selenium metabolic pathway**

◯ Hayato Takashima[1], Hiroki Taguchi[1], Takashi Toyama[1], Junya Ito[2], Eikan Mishima[2], Yoshiro Saito[1]
（[1]Grad. Sch. Pharm. Sci., Tohoku Univ., [2]Helmholtz Munich）

P-028 **Investigation of the mechanism of impaired phosphorus resorption caused by cadmium exposure using proximal tubule cells**

◯ Hitomi Fujishiro, Miku Takahashi, Daigo Sumi
（Fac. Pharm., Tokushima Bunri Univ.）

P-029 **Physical form change and the mechanism analysis in the absorption and distribution of silver nanoparticles after oral exposure**

◯ Kazuya Nagano[1], Ikkei Tasaki[1], Yasuo Tsutsumi[2]
([1]Sch. Pharm. Sci., Wakayama Med. Univ., [2]Grad. Sch. Pharm. Sci., Osaka Univ.)

P-030 **Multiorgan verification of the anti-inflammatory effects of dihydropyrazine**

◯ Madoka Sawai[1], Yutaka Tatano[1], Hidetoshi Tozaki-Saitoh[1], Katsuya Miyake[2], Jian-Rong Zhou[3], Hisao Kansui[3], Yuu Miyauchi[3], Shinji Takechi[3]
([1]Sch. Pharm., at Fukuoka. Int. Univ. Health & Welfare.,
[2]Cbmr., at Narita. Int. Univ. Health & Welfare., [3]Fac. Pharmaceut. Sci., Sojo Univ.)

P-031 **Dihydropyrazine activates the CAMKK2-AMPK-ULK1 signaling pathway in human hepatoma HepG2 cells**

◯ Shinji Takechi[1], Madoka Sawai[2], Hisao Kansui[1], Yuu Miyauchi[1]
([1]Fac. Pharmaceut. Sci., Sojo Univ.,
[2]Sch. Pharm., at Fukuoka. Int. Univ. Health & Welfare)

P-032 **Role of thiopurine *S*-methyl transferase (TPMT) in detoxification of reactive sulfur species in TPMT-overexpressed and TPMT-knockdown cells**

◯ Natsu Saito[1], Yasunori Fukumoto[2], Yoshikazu Yamagishi[3], Momoka Uchida[1], Ayune Watanabe[1], Yu-ki Tanaka[2], Noriyuki Suzuki[4], Yasumitsu Ogra[2]
([1]Fac. Pharm. Sci., [2]Grad. Sch. Pharm. Sci., [3]Grad. Sch. Med., Chiba Univ,
[4]Fac. Pharm. Sci., Toho Univ.)

P-033 **Effects of Heated Tobacco Exposure in an Asthma Mouse Model**

◯ Akira Ushiyama[1], Yohei Inaba[1], Miina Sakaguchi[2], Yui Goto[2], Sawako Shindo[2], Kenji Hattori[2]
([1]National Institute of Public Health, [2]Meiji Pharm. University)

P-034 **The role of the immunoproteasome in glucose metabolism**

◯ Hiroaki Kimura, Sakura Kurogi, Ayane Yasuda, Tomona Hamaue
(Sch. Pharm., Kyushu Univ. of Med. Sci.)

P-035 **The effect of olive leaf consumption on hepatic lipid metabolism of mouse model for diabetes**

◯ Tohru Yamazaki, Yoshiki Ishii, Rikuto Sugaya, Atsushi Mitsumoto
(Fac. Pharm., Josai International Univ.)

P-036 **Analysis of the regulatory mechanism of ferroptosis by liver-type pyruvate kinase (PKL) in human hepatocellular carcinoma cells HepG2**

◯ Hayato Irokawa, Kouki Takeda, Shusuke Kuge
(Fac. Pharm. Sci., Tohoku Med. Pharm. Univ.)

P-037 **High molecular weight species formation of the tetrahydrofolate-metabolizing enzyme protein**

Rira Akutagawa, Sara Yanagisawa, Fumie Itoh, Yutaka Tanaka, Sachiko Komatsu, Kazuhiro Watanabe, Tsutomu Fujimura, ○ Masato Sasaki
（Fac. Pharm. Sci., Tohoku Med. Pharm. Univ.）

P-038 **AhR promotes fibrosis associated with MASH**

○ Shigeki Shimba, Akinori Sakai, Toshiyuki Miyauchi, Mai Ohtani, Yukiko Takasugi, Taira Wada
（Dep. Health Sci. Sch. Pharmacy, Nihon Univ.）

P-039 **Functional characterization of miRNA4 as a negative regulator of lipid accumulation in adipocytes**

○ Kohei Matsuo, Miyu Kitazaki, Ai Sakaguchi, Daisuke Aibara, Kimihiko Matsusue
（Fac. Pharm., Fukuoka. Univ.）

P-040 **Analysis of the intracellular transport of lysosomal membrane protein LAMP-2C**

○ Hiroshi Sakane, Ikuto Okuda, Yuna Takeda, Kanae Michihara, Kenji Akasaki
（Fac. Pharm., Fukuyama Univ.）

P-041 **Comparison of serum protein profiles between chimeric mice with low and high replacement indexes of human hepatocytes**

○ Seigo Sanoh[1], Naoki Takaoka[1], Yuji Ishida[2], Shigeru Ohta[1], Chise Tateno[1,2]
（[1]Sch. Pharm., Wakayama Med. Univ., [2]PhoenixBio Co. Ltd.）

P-042 **Relationship between selenium status and selenoprotein expression during myotube differentiation of C2C12 cells**

○ Hirofumi Ogino, Kota Shiigai, Saori Yoshioka
（Fac. Pharm. Sci., Nihon Pharm. Univ.）

P-043 **Effects of GTP Regulation on Intracellular Responses and Metabolic Functions**

○ Taiki Ashizawa[1], Masashi Oshima[2], Kazuma Tada[3], Yoshihisa Hirota[1,2,3]
（[1]Grad. Sch. Pharm. Sci., Shibaura Inst. of Tech.,
[2]University of Cincinnati College of Medicine, [3]Dep. Life. Sci., Shibaura Inst. of Tech.）

P-044 **Effects of vitamin K analogues and their derivatives with ferroptosis inhibitory effects on novel object recognition in mice**

○ Ayaka Kato[1], Rina Watanabe[1], Haruka Kawamura[1], Chikara Kato[2], Susumu Takekoshi[3], Kazuki Takeda[4], Motoki Takagi[1], Yoshihisa Hirota[1]
（[1]Grad. Sch. Shibaura Inst. of Tech., [2]Shizuoka Univ., [3] Tokai Univ., [4] Kitasato Univ.）

P-045 **Exploring the role and physiological significance of COQ5 in MK-4 conversion mechanism**

◯ Kurumi Nakagawa[1], Shunta Sudo[1], Mei Koyanagi[2], Yoshitomo Suhara[1,2], Liqing Zang[3], Yasuhito Shimada[4], Yoshihisa Hirota[1,2]
([1]Grad. Sch., Shibaura Inst. of Tech., [2]Shibaura Inst. of Tech., [3,4]Mie Univ.)

P-046 **Conversion mechanism of vitamin K and its derivatives containing food additives**

◯ Shunta Sudo[1], Kurumi Nakagawa[1], Mei Koyanagi[2], Yoshitomo Suhara[1,2], Yoshihisa Hirota[1,2]
([1]Grad. Sch. Pharm. Sci., Shibaura Inst. of Tech.,
[2]Dep. Life. Sci., Shibaura Inst. of Tech.)

P-047 **Inhibition of TGF-β-induced renal fibrosis by Emodine and involvement of adapter protein Nedd9**

◯ Yuka Fukuda, Hina Ito, Misaki Kamata, Akinori Sugiyama
(Sch. Pharm., Iwate Medical Univ.)

P-048 **Hesperetin suppresses TGF-β-induced increases in α-SMA, p-MKK4, and Nedd9 expression**

◯ Misaki Kamata, Hina Ito, Yuka Fukuda, Akinori Sugiyama
(Sch. Pharm., Iwate Medical Univ.)

P-049 **Silibinin inhibits JNK pathway activation by Nedd9 in renal fibroblasts**

◯ Hina Ito, Yuka Fukuda, Misaki Kamata, Akinori Sugiyama
(Sch. Pharm., Iwate Medical Univ.)

P-050 **Carbon black particles induce lysosomal membrane permeabilization and cytotoxic effect**

◯ Tomohiro Ishihara, Atsushi Furukawa, Yuka Nagata, Ryo Suzuki
(Fac Pharm Sci, Kanazawa Univ)

P-051 **Seeking EV-associated proteins involved in fever response derived from influenza-infected embryonated egg**

◯ Ayaka Urahama[1], Naoki Kishimoto[1], Towa Abe[1], Nobutoki Takamune[2], Shogo Misumi[1]
([1]Grad. Sch. Pharm. Sci., Kumamoto Univ., [2]HRDS, Kumamoto Univ.)

P-052 **Mitochondrial uncouplers induce protein insolubilization under low pH conditions**

◯ Yuuki Tsuchida, Masatsugu Miyara, Saya Takao, Yaichiro Kotake
(Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.)

P-053 **Functional analysis of sEH in the brain as a new synthetic enzyme for endogenous cannabinoid 2-AG**

◯ Ami Oguro, Yurino Kaga, Hideaki Sato, Yaichiro Kotake
（Grad. Sch. of Biomed. and Health Sci, Hiroshima Univ.）

P-054 **Establishment of a new method for identifying lysosomal membrane damage response proteins**

◯ Masatsugu Miyara, Futa Suzuki, Kanae Miyara, Yaichiro Kotake
（Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.）

P-055 **A novel toxicological mechanism of tributyltin via CASM**

◯ Shunichi Hatamiya, Masatsugu Miyara, Yaichiro Kotake
（Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.）

P-056 **Maternal DHA Intake in mice Increased DHA Metabolites in the Fetal Brain and Regulated Brain Functions**

◯ Shinji Fujimoto[1], Ami Oguro[2], Megumi Yamamoto[3], Yaichiro Kotake[2]
（[1]Sch. Pharm. Sci., Hiroshima Univ.,
[2]Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.,
[3]National Institute for Minamata Disease）

P-057 **Mechanism of p62 nuclear accumulation induced by a Parkinson's disease-related neurotoxins**

◯ Chihiro Suto[1], Masatsugu Miyara[1,2], Honoka Hashimoto[2], Yaichiro Kotake[1,2]
（[1]Sch. Pharm. Sci., Hiroshima Univ.,
[2]Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.）

P-058 **Elucidation of the anti-inflammatory mechanisms by the cephem antibiotics**

◯ Sara Suzuki[1], Yusuke Hirata[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]
（[1]Grad. Sch. of Pharmaceut. Sci., Tohoku Univ., [2]Fac. of Pharm., Iwate Med. Univ.）

P-059 **Methylglyoxal confers resistance to ferroptosis in cancer cells**

◯ Takuya Niijima[1], Yusuke Hirata[1], Takuya Noguchi[1,2], Atsushi Matsuzawa[1]
（[1]Lab. Of Health Chem., Grad. Sch. Of Pharmaceut. Sci., Tohoku Univ.,
[2]Dep. of Med. Biochem., Sch. of Pharm., Iwate Med. Univ.）

P-060 **Proteinase 3 involved in leukemia cell differentiation induced by arsenite medicine**

◯ Rina Nakayama, Hitomi Fujishiro, Daigo Sumi
（Fac. Pharm. Sci. Tokushima Bunri Univ.）

P-061 **3-methyladenine induce mitotic catastrophe in U-2OS cells through DNA damage response**

◯ Kenji Hattori, Toshimi Kawata, Yuna Yonezawa
（Fac. Pharm. Sci., Meiji Pharm. Univ.）

P-062 **The Influence of *Neopyropia yezoensis* on the Cholesterol Absorption Mechanism Mediated by NPC1L1**

◯ Narumi Sugihara[1], Yukiko Kurihara[1], Yukimasa Yamagishi[2], Yasuhiko Miwa[2], Yuhzo Hieda[1], Tetsuya Nakamura[1], Koki Kanameda[1], Shuso Takeda[1], Akiho Shima[1], Jun Kamishikiryo[1]
（[1]Fac. Pharm. Pharmaceut. Sci., Fukuyama Univ., [2]Fac. Life Sci., Fukuyama Univ.）

P-063 **Examination of the suppressive effect of Jerusalem artichoke powder on AGEs formation caused by glycation of albumin and keratin**

◯ Masaki Takaishi[1], Myu Hiraiwa[1], Miharu Fukasawa[1], Yuko Suzuki[1], Sayoko Nishioka[2], Akio Kobayashi[1], Satoshi Asano[3]
（[1]Pharm. Sci., IUHW., [2]Pharmakion Plan., [3]FSC.）

P-064 **Follow-up study results on the disintegration of tablet-type foods and forthcoming challenges**

◯ Risa Oya, Beom Yeeun, Yuya Deguchi, Hiroaki Nagaoka
（Fac. Pharm. Sci., Nagasaki Intl. Univ.）

P-065 **Diversity of values regarding preventive dentistry across cultures**

◯ Chiemi Still Yoshida[1], Reiko Aizawa[2,3]
（[1]Dept. LA., JCGA, [2]Reina Dental Office, [3]Grad. Sch. Yokohama Univ. Pharm.）

P-066 **Preventive effect of cloperastine on urinary dysfunction in drug-induced menopause model mice**

◯ Fumio Soeda, Yuki Yoshinaga, Risa Ushinohama, Takayuki Koga, Yuko Kobuke, Yukiko Fujii
（Daiichi Univ. Pharm.）

P-067 **Regulation of hepatic *Tmcc3* expression by PPARγ in fatty liver disease**

◯ Daisuke Aibara, Ai Sakaguchi, Kohei Matsuo, Kimihiko Matsusue
（Faculty of Pharmaceutical Science, Fukuoka University）

P-068 **Involvement of PRDX6, a chalcogen receptor, in metabolic remodeling of selenium**

◯ Ryui Miyazaki[1], Takashi Toyama[2], Yoshiro Saito[2]
（[1]Lab of MB & M, Fac, Pharm, Tohoku Univ.,
[2]Lab of MB & M, Grad. Sch. Pharm. Sci., Tohoku Univ.）

P-069 **Characterization of CX3CR1 knock-in reporter mice and their application in colitis model**

◯ Saya Tanaka, Keishi Ishida, Kenjiro Tajimi, Daisuke Matsumaru, Tsuyoshi Nakanishi
（Gifu Pharm. Univ.）

Poster Session: Day 2

September 10 (Wed) 16:30-17:10 Room C（6F Exhibition Room）

P-070 **Development of a postmortem screening method for nitrite poisoning**

◯ Saki Imai[1], Sayaka Nagasawa[2,3], Masatoshi Kojima[3], Issei Nakanishi[3], Yohsuke Makino[3], Hirotaro Iwase[3], Yasumitsu Ogra[2]
（[1]Faculty of Pharmaceutical Sciences, [2]Graduate School of Pharmaceutical Sciences, [3]Graduate School of Medicine, Chiba University）

P-071 **Investigation of cause of death at School of Pharmaceutical Sciences, the University of Osaka**

◯ Kazuo Harada[1,2], Yukari Sakamoto[1], Haruhi Yoshida[1], Yuri Tokugawa[1], Haruki Kuze[1], Taichi Nishihori[1], Fumika Yamamoto[1], Hikaru Tamagawa[1], Tsuyoshi Inoue[1], Kazuma Higashisaka[1], Hiroshi Matsumoto[2], Yasuo Tsutsumi[1]
（[1]Sch. Pharm., Univ. Osaka, [2]Sch. Med., Univ. Osaka）

P-072 **Comparison of carrier gases in thermal desorption-gas chromatography-mass spectrometry for chemicals with guideline values for indoor air concentrations**

◯ Naohiro Oshima, Nahoko Uchiyama, Shinobu Sakai
（NIHS）

P-073 **Absolute quantification of abasic sites in RNA using LC-MS/MS and its increase by inhibition of DNA repair enzyme APE1**

◯ Manami Muramatsu, Yoshinori Okamoto, Akira Aoki, Hideto Jinno
（Fac. Pharm., Meijo Univ.）

P-074 **Development of a no-observed-effect level (NOEL) prediction model for repeated-dose toxicity studies of cosmetic ingredients using machine learning**

◯ Kohsuke Hayamizu, Yuika Sone, Ayaka Horiike
（Yokohama Univ. Pharm.）

P-075 **Survey on formaldehyde in textiles and adhesive products on the online marketplaces**

◯ Maiko Tahara, Sachie Kawano, Yoko Mori, Tsuyoshi Kawakami, Nahoko Uchiyama
（National Institute of Health Sciences）

P-076 **Effect of silica nanoparticle on pregnancy outcomes and inflammatory response in placental cells**

◯ Kazuma Higashisaka[1,2,3], Rena Yamamoto[3], Risa Sakai[3], Momoe Serizawa[2,3], Yuya Haga[2,3], Yasuo Tsutsumi[2,3,4,5,6,7]

([1]IACS., Osaka Univ., [2]Grad. Sch. Pharm. Sci., Osaka Univ., [3]Sch. Pharm. Sci., Osaka Univ., [4]Grad. Sch. Med., Osaka Univ., [5]MEI Ctr., Osaka Univ., [6]OTRI., Osaka Univ., [7]INSD., Osaka Univ.)

P-077 **Development of a novel adsorbent with phosphorus selectivity derived from fossil coral**

◯ Kota Sogabe[1], Yugo Uematsu[2], Fumihiko Ogata[1,2], Naohito Kawasaki[1,2]

([1]Grad. Sch. Pharm, Kindai Univ., [2]Fac. Pharm., Kindai Univ.)

P-078 **Modulation of Gut Microbial Function by Environmental Electrophiles**

◯ Rika Imai[1,2], Kousoku Sugiyama[3], Kensuke Sato[4], Hanako Aoki[1,4], Jun Uchiyama[2,4], Ryota Nakano[1], Maiko Kusano[3], Masahiro Akiyama[4]

([1]Showa Univ. Pharm., [2]Keio Univ. Pharm., [3]Showa Univ. Med., [4]Showa Univ. Inst. Clin. Pharmacol.)

P-079 **Chemical analysis of particulate respirator mask straps to identify the cause of allergic contact dermatitis and select alternative products**

◯ Yoko Mori[1], Shigeruko Iijima[2,3], Maiko Tahara[1], Tsuyoshi Kawakami[1]

([1]National Institute of Health Sciences, [2]Hanamizuki Clinic, [3]Ryugasaki Saiseikai Hospital)

P-080 **Analysis of carcinogenic, allergenic dyes and their related dyes in textile products**

◯ Yu Uchida[1], Iwaki Nishi[1], Tsuyoshi Kawakami[2]

([1]Kanagawa Prefectural Institute of Public Health, [2]NIHS)

P-081 **Effect of per- and polyfluoroalkyl substances on human trophoblast stem cell line differentiation**

◯ Tomoki Kimura[1], Shoko Ogushi[2], Takehiro Nakamura[1], Tsuyoshi Nakanishi[3]

([1]Fac. Farm. Sci., Setsunan Univ., [2]Sch. Life Sci., Tokyo Univ. Pharm. Life Sci., [3]Gifu Pharm. Univ.)

P-082 **Fundamental Study on Mercury Ion Removal from Aqueous Environments Using Sulfuric Acid-Treated Bagasse**

◯ Kaito Yamashiro[1,2], Kanako Asano[2], Fumihiko Ogata[2], Yasuyuki Fujiwara[1], Naohito Kawasaki[2]

([1]School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, [2]Faculty of Pharmacy, Kindai University)

P-083 **Analysis of structure-activity relationships, cell-type dependency and mechanisms of PFAS-induced cytotoxicity in cultured vascular endothelial cells**

◯ Sayori Ichijo, Toshiyuki Kaji, Tomoya Fujie
（Fac. Pharm. Sci., Tokyo Univ. of Sci.）

P-084 **Transcriptomic analysis of vascular endothelial cells exposed to PFOS, PFOA, and PFHxS**

◯ Tomomi Takiuchi, Sayori Ichijo, Toshiyuki Kaji, Tomoya Fujie
（Fac. Pharm. Sci., Tokyo Univ. of Sci.）

P-085 **Protective effect of oleanolic acid and its saponin derivatives on methylmercury toxicity in mice**

◯Ryosuke Nakamura, Yoko Kuroda, Ikumi Ohashi, Tatsuya Shirahata, Naruki Konishi, Yasukazu Takanezawa, Yuka Ohshiro, Shimpei Uraguchi, Yoshinori Kobayashi, Masako Kiyono
（Sch. Pharm., Kitasato Univ.）

P-086 **Autophgy and the handling of methylmercury-bound proteins**

◯ Yasukazu Takanezawa[1], Rei Tsunoda[1], Ryosuke Nakamura[1], Yuka Ohshiro[1], Shimpei Uraguchi[1,2], Masako Kiyono[1]
（[1]Dep. Public Health. Sch of Pharm., Kitasato Univ.,
[2]Grad. Sch of Hortic., Chiba Univ.）

P-087 **Adaptability of the mercury transporter MerC for environmental remediation**

◯ Yuka Ohshiro, Shimpei Uraguchi, Ryosuke Nakamura, Yasukazu Takanezawa, Masako Kiyono
（Dept. of public Health, School of pharmacy, Kitasato Univ.）

P-088 **Genotoxicity assessment of suspended particulate matter from different sources using mouse Bhas42 cells**

Kouki Munemura, Toshinori Miura, Mari Ochiai, ◯ Masashi Sekimoto
（Lab. Environ. Hygiene, Sch. Life and Environ. Sci., Azabu Univ.）

P-089 **Changes in the olfactory epithelium, olfactory bulb, hippocampus, amygdala, lungs, liver, and skin of mice following chronic inhalation exposure to the indoor pollutant 2-ethylhexanol**

◯ Takanari Wakayama[1,2], Mio Miyake[1], Yuki Ito[1], Motoh Mutsuga[2], Michihiro Kamijima[1]
（[1]Grad. Sch. Med, Nagoya City Univ., [2]Nagoya City Public Health Research Institute）

P-090 **Effects of gut microbiota on metal concentrations in mice after methylmercury administration**

◯ Manaka Kono[1], Kazuaki Takahashi[2], Yasumitsu Ogra[3]
([1]Fac. Pharm. Sci., Chiba Univ., [2]Grad. Sch. Horticul., Chiba Univ.,
[3]Grad. Sch. Pharm. Sci., Chiba Univ.)

P-091 **Involvement of thyroid hormone receptor α in developmental neurotoxicity**

◯ Shigeru Yamada, Yukuto Yasuhiko, Yasunari Kanda
(Div Pharmacology, NIHS)

P-092 **Effects of xenobiotic-induced activation of the nuclear receptor CAR on fetal and infant development in mice**

Manami Yoshikawa, ◯ Ryota Shizu, Sarii Tashiro, Akira Ooka, Kouichi Yoshinari
(Sch. Pharm. Sci., Univ. Shizuoka)

P-093 **Development and Evaluation of a Next-Generation Toxicity Assessment Platform Using Human iPSCs**

◯ Tsunehiko Hongen[1], Ryusei Kusakabe[1], Naoya Hirata[2], Masashi Asai[1],
Yasunari Kanda[2], Hideko Sone[1]
([1]Grad. Sch. Pharm. Sci., Yokohama Univ. Pharm., [2]Div. Pharmacol., NIHS.)

P-094 **Characterization of human neuroblastoma cell line IMR-32 as a neuronal differentiation model for *in vitro* DNT analysis**

◯ Shunsuke Tomita[1], Keishi Ishida[1], Daisuke Matsumaru[1], Masatsugu Miyara[2],
Yaichiro Kotake[2], Tsuyoshi Nakanishi[1]
([1]Gifu Pharm. Univ., [2]Grad. Sch. of Biomed. and Health Sci., Hiroshima Univ.)

P-095 **The histological analysis of neurons and satellite glial cells in the dorsal root ganglion of a methylmercury-exposed rat**

◯ Misaki Ozawa[1,2], Ayaka Matsuki[2], Yuka Sekiguchi[2], Kaito Yamashiro[2],
Tsutomu Takahashi[2], Yasuyuki Fujiwara[2], Eiko Yoshida[3], Kaji Toshiyuki[4], Yo Shinoda[2]
([1]HIROO GAKUEN Senior High Sch., [2]Sch. Pharm., Tokyo Univ. Pharm. Life Sci.,
[3]CRIEPI, [4]Fac. Pharm., Tokyo Univ. Sci.)

P-096 **Aberrant activation of cellular signaling pathway by organic- and inorganic arsenicals in rat cultured cerebellar astrocytes**

◯ Takayuki Negishi[1], Daiki Yoshioka[1], Shoto Sasaki[2], Takamasa Tsuzuki[1],
Kazunori Yukawa[1]
([1]Fac. Pharm., Meijo University,
[2]Fac. Pharm., International University of Health and Welfare)

P-097 **Novel Evaluation Method for Developmental Neurotoxicity in Medaka Embryos -The Case of of Imidacloprid and Warfarin**

◯ Hotaka Kai[1], Kotoha Ueno[1], Masaya Uchida[2], Nobuaki Tominaga[2]
([1]National Institute of Technology, Suzuka Collge,
[2]National Institute of Technology, Ariake Collge.)

P-098 **Elucidation of the mechanism of hepatocyte proliferation mediated by the xenobiotic response nuclear receptor CAR through the upregulation of GADD45B**

◯ Aki Tkaeshita, Ryota Shizu, Takuomi Hosaka, Akira Ooka, Kouichi Yoshinari
(Grad. Sch. Integrated Pharmaceutical and Nutritional Sciences. Univ. Shizuoka.)

P-099 **Read-across prediction of thyroid tumors in rats using mechanism-relevant *in vitro* assay data**

Kosuke Mizuno[1], Jun-ichi Takeshita[1,2], Yu Harakawa[1], Takuomi Hosaka[1], Ryota Shizu[1], Akira Ooka[1], ◯ Kouichi Yoshinari[1]
([1]Sch Pharmaceut Sci, Univ Shizuoka, [2]AIST)

P-100 **Regional Variation in Inorganic Element Composition of Tap Water in Tokyo Wards and Its Association with Water Source Systems**

◯ Takehisa Matsukawa[1,2], Naoki Kaneko[2], Yuta Kuwahara[2], Ryunosuke Taira[2], Takuto Moriai[2], Miki Suzuki[1]
([1]Fac. Pharm., Juntendo Univ., [2]Fac. Med., Juntendo Univ.)

P-101 **Involvement of intracellular GSH in Darinaparsin-induced spindle assembly checkpoint activation**

◯ Kayoko Kita[1], Kasumi Kobayashi[1], Taro Honma[1], Kozo Yao[2], Toshihide Suzuki[1]
([1]Fac. Pharm. Sci., Teikyo Univ., [2]Solasia Pharma K. K.)

P-102 **Regulation of histone deacetylases-mediated selective induction of metallothionein-1 expression in vascular endothelial cells**

◯ Nao Yamada[1], Haruka Kondo[1], Takehiro Nakamura[2], Tomoki Kimura[2], Hiroshi Naka[3], Toshiyuki Kaji[1], Tomoya Fujie[1]
([1]Fac. Pharm., Tokyo Univ of Sci., [2]Fac. Pharm., Setsunan Univ.,
[3]Grad. Sch. Pharm., Kyoto Univ.)

P-103 **Cyclic mechanical stretching potentiates cadmium-induced toxicity in vascular endothelial cells**

◯ Sara Ogawa[1], Yukino Kasama[1], Hikaru Fujimori[2], Takato Hara[2], Chika Yamamoto[2], Toshiyuki Kaji[1], Tomoya Fujie[1]
([1]Fac. Pharm. Sci., Tokyo Univ. Sci., [2]Fac. Pharm. Sci., Toho Univ.)

P-104 **Potentiation of lead-induced toxicity in vascular endothelial cells via P2Y receptor signaling by ATP**

◯ Tomoki Okada, Lihito Ikeuchi, Kazuki Kitabatake, Mitsutoshi Tsukimoto, Toshiyuki Kaji, Tomoya Fujie
（Fac. Pharm. Sci., Tokyo Univ. Sci.）

P-105 **Induction of a metal transporter ZIP8 expression via HIF pathway in vascular endothelial cells**

◯ Junko Matsumoto, Miki Hanabusa, Tomoya Fujie, Toshiyuki Kaji
（Fac. Pharm. Sci., Tokyo Univ. Sci.）

P-106 **Cadmium induced thrombomodulin suppression via NF-κB pathway activation in vascular endothelial cells**

◯ Tsuyoshi Nakano, Haruka Tamura, Nanako Kurusu, Chika Yamamoto
（Fac. of Pharm. Sci., Toho Univ.）

P-107 **Cadmium induces hyaluronan synthase 2 via MEK–ERK pathway in cultured vascular smooth muscle cells**

◯ Takato Hara[1], Nonoka Kawamura[1], Misaki Shirai[1,2], Chika Yamamoto[1]
（[1]Fac. Pharm. Sci., Toho Univ., [2]JSPS Research Fellow）

P-108 **Physiological role of a reducing intestinal environment mediated by gut microbial supersulfides**

◯ Jun Uchiyama[1,2], Masahiro Akiyama[2]
（[1]Grad. Sch. Pharm., Keio Univ., [2]Inst. Clin. Pharmacol., Showa Med Univ.）

P-109 **Elucidating the production mechanism of supersulfides as an oxidative stress response in Gut bacteria**

◯ Maho Kotori[1,2], Jun Uchiyama[2,3], Noriko Hida[1], Masahiro Akiyama[2]
（[1]Fac. Pharm., Showa Medical Univ.,
[2]Clinical Research Institute for Clinical Pharmacology and Therapeutics, SHOWA Medical Univ.,
[3]Fac. Pharm., Keio Univ.）

P-110 **Fatty acids changes the cellular sensitivity to NF-κB activation induced by oxidative stress**

◯ Haruka Takahashi[1], Yui Sakamoto[1], Nao Hasunuma[1], Toshiyuki Oshima[1], Makoto Murakami[2], Tomofumi Fujino[1], Makio Hayakawa[1]
（[1]Sch. Pharm., Tokyo Univ. Pharm. & Life Sci., [2]Grad. Sch. Med., Univ. Tokyo）

P-111 **Lipoxytosis chemical inducers can initiate lipid peroxidation induced cell death in an iron-independent manner via the lipid oxidase Lipo1**

◯ Yuzu Kono[1], Ayaka Enomoto[1], Masaki Matsuoka[1], Tomoyasu Hirose[2], Masato Iwatsuki[2], Hirotaka Imai[1]

([1]Kitasato Univ., [2]Omora Satoshi Memorial Institute)

P-112 **The lipoxytosis executor Lipo2 translocates from the nucleus to membrane and induces cell death**

◯ Yu Fujiwara, Masaki Matsuoka, Hirotaka Imai

(Sch. Pharm. Sci., Kitasato Univ.)

P-113 **Analysis of lipid oxidation mechanism by Lipo1 using Lipo1 KO mice**

◯ Bo Chen, Shotaro Hatanaka, Masaki Matsuoka, Hirotaka Imai

(Fac. Pharm., Kitasato Univ.)

P-114 **Elution of metals from household products intended to come into direct and prolonged contact with the skin**

◯ Tsuyoshi Kawakami, Maiko Tahara, Reiji Kubota, Yoshiaki Ikarashi

(National Institute of Health Sciences)

P-115 **Analysis of the relationship between particle size and flammability of polystyrene**

◯ Yui Akiyama[1], Kazuma Higashisaka[1,2,3], Mizuki Muranaka[1], Yamato Okumura[1], Yuya Haga[1,2], Yasuo Tsutsumi[1,2,4,5,6,7]

([1]Sch. Pharm. Sci., Osaka Univ., [2]Grad. Sch. Pharm. Sci., Osaka Univ., [3]IACS., Osaka Univ., [4]Grad. Sch. Med., Osaka Univ., [5]MEI Ctr., Osaka Univ., [6]OTRI., Osaka Univ., [7]INSD., Osaka Univ.)

P-116 **Staphylococcal exoprotein Eap activates murine basophils**

◯ Hina Kiriyama[1], Rikuto Iwata[1], Chisaki Noda[1], Isamu Ogawa[1], Shigeaki Hida[1], Saotomo Itoh[1,2]

([1]Grad. Sch. Pharm. Sci., Nagoya city Univ., [2]Sch. Pharm., Aichi Gakuin Univ.)

P-117 **Role of prostacyclin synthase in chemical carcinogen-induced breast cancer**

◯ Yuka Sasaki, Suzu Kuratsuka, Shuntaro Hara

(Showa Medical Univ.)

P-118 **Functional analysis of prostaglandin terminal synthases in female reproduction**

◯ Toshiya Honsawa, Yuka Sasaki, Shuntaro Hara

(Sch. of Pharm., Showa Medical Univ.)

P-119 **Analysis of the role of long-chain acyl CoA synthetase 4-mediated lipid metabolism in lung adenocarcinoma cell activity**

◯ Yuki Tomitsuka[1], Fumihiro Ishikawa[2], Hiroshi Kuwata[1], Shuntaro Hara[1]
([1]Sch. of Pharmacy, Showa Medical Univ., [2]Center for Biotech., Showa Medical Univ.)

P-120 **Sexual maturation causes sex differences in vitamin K conversion and bioavailability**

◯ Ayuma Imasato, Shunsuke Hirashima, Takako Abe, Takashi Kimoto, Kimie Nakagawa
(Fac. Pharm., Kobegakuin Univ.)

P-121 **Activation of G protein-coupled estrogen receptor induces apoptosis in triple-negative breast cancer cells**

◯ Akina Noyama, Masatoshi Nakatsuji, Ko Fujimori
(Fac. Pharm., Osaka Med. & Pharm. Univ.)

P-122 **Pranlukast, a cysteinyl leukotriene receptor 1 antagonist, suppressed body weight gain in high-fat diet-fed mice**

◯ Masatoshi Nakatsuji[1], Toko Maehara[2], Atsushi Koike[1], Kenta Hosomi[1], Ko Fujimori[1]
([1]Fac. Pharm., Osaka Med. & Pharm. Univ., [2]Fac. Agri., Iwate Univ.)

P-123 **Maintenance of Acyl Chain Asymmetry in Membrane Phospholipids via Phospholipase A**

◯ Tsumugi Iwata[1], Hiroki Kawana[2], Yutaro Yagi[1], Nozomu Kono[1], Junken Aoki[1]
([1]Grad. Sch. Pharm. Sci., Tokyo Univ.,
[2]Grad. Sch. Science and Technology., Nara Institute of Science and Technology)

P-124 **Identification of Sulfane Sulfur–Binding Proteins Involved in Zinc Binding in the Mouse Brain**

◯ Naoki Matsumoto[1], Ryuji Tsuda[2], Yoshito Kumagai[3], Yasuhiro Shinkai[1]
([1]Sch. Life Sci., Tokyo Univ. Pharm. Life Sci.,
[2]Grad. Sch. Comprehensive Human Sci., Univ. Tsukuba,
[3]Grad. Sch. Pharm., Univ. Kyushu)

P-125 **Gut microbiome changes associated with olanzapine-induced weight gain in mice**

◯ Akira Aoki[1,2], Hiroka Nakano[1], Kana Yoshihara[1], Namie Ryokin[1], Yoshinori Okamoto[1], Hideto Jinno[1]
([1]Fac. Pharm., Meijo Univ., [2]Div. Digest. Dis., Dept. Med., UCLA)

P-126 **Inhibitory Effects of Drugs on Gut Enzyme and Docking Analysis**

◯ Kohsuke Sugiyama[1], Kensuke Sato[2,3], Maho Kotori[2,4], Ryota Nakano[4], Maiko Kusano[1], Masahiro Akiyama[2]

([1]Grad. Sch. Med, Showa Med Univ, [2]Clin. Res. Inst, Showa Med Univ, [3]Tohoku Univ, [4]Grad. Sch. Pharm, Showa Med Univ)

P-127 **Elucidation of the Nrf2-mediated mechanism suppressing cell migration and lymph node swelling in anaplastic large cell lymphoma**

◯ Mai Sasajima[1], Akira Korai[1], Sota Saito[1], Yosuke Nakazawa[1], Kenji Tago[2], Megumi Tago[1]

([1]Faculty of Pharmacy., Keio University., [2]Faculty of Medicine,. Gunma University.)

P-128 **Elucidation of the molecular mechanism underlying high sensitivity to Hydroxyurea in JAK2V617F-positive myeloproliferative neoplasms**

◯ Masaya Saito[1], Masaya Matsumoto[1], Kenji Tago[2], Megumi Tago[2]

([1]Faculty of Pharmacy, Keio University,
[2]Graduate School of Health Sciences, Gunma University)

P-129 **In immune-activated splenocytes, the expression and activity of the vitamin K converting enzyme UBIAD1 is preferentially upregulated in B cells**

◯ Yoshinori Harada, Yukie Matsui, Takashi Kimoto, Shunsuke Hirashima, Kimie Nakagawa

(Fac. Pharm., Kobe Gakuin Univ.)

P-130 **Lactation-associated changes in macrophages in the dermal layer of the mammary papilla**

◯ Yukiko Marunaka, Kei Nakayama, Hiroshi Hasegawa

(Lab. Hygienic.Sci., Kobe Pharm. Univ.)

P-131 **Transcriptomic analysis of peripheral blood following cerebral infarction**

◯ Mitsuki Daito, Mari Kondo, Kei Nakayama, Hiroshi Hasegawa

(Lab. Hyg. Sci., Kobe Pharm. Univ.)

P-132 **Machine learning-based screening and mechanism estimation of hepatic stellate cell deactivating compounds**

◯ Akira Ooka, Yusuke Totsuka, Yuna Danbara, Takuomi Hosaka, Ryota Shizu, Kouichi Yoshinari

(Sch Pharmaceut Sci, Univ Shizuoka)

P-133 **Formation and degradation mechanisms of γ-glutamyl-β-cyanoalanylglycine in human hepatocarcinoma cell line, HepG2**

◯ Tomoya Taguchi[1], Yoshikazu Yamagishi[2], Yasumitsu Ogra[3]
([1]Fac. Pharm., Chiba Univ., [2]Grad. Sch. Med. Sci., Chiba Univ.,
[3]Grad. Sch. Pharm. Sci., Chiba Univ.)

P-134 **Evaluation of the effect of amorphous silica nanoparticles on remodeling in the placenta and clarification of its mechanism**

◯ Risa Sakai[1], Kazuma Higashisaka[1,2,3], Rena Yamamoto[1], Yuya Haga[1,2],
Yasuo Tsutsumi[1,2 4,5,6,7]
([1]Sch. Pharm. Sci., Osaka Univ., [2]Grad. Sch. Pharm. Sci., Osaka Univ.,
[3]IACS., Osaka Univ., [4]Grad. Sch. Med., Osaka Univ., [5]MEI Ctr., Osaka Univ.,
[6]OTRI., Osaka Univ., [7]INSD., Osaka Univ.)

P-135 **Characterization of Extracellular Cysteine Efflux in A549 Cells**

◯ Minori Miura[1], Yoshito Kumagai[2], Yasuhiro Shinkai[1]
([1]Sch. Life Sci., Tokyo Univ. Pharm. Life Sci., [2]Grad. Sch. Pharm., Univ. Kyushu.)

P-136 **Involvement of period 3 against acetaminophen-induced hepatotoxicity in mice**

◯ Hiroki Yoshioka[1], Suo Shibata[2], Fumina Susaki[2], Satoshi Yokota[3],
Hirotaka Yamashita[2], Tohru Maeda[4], Hyogo Horiguchi[1], Nobuhiko Miura[5]
([1]Kitasato Univ. Sch. Med., [2] Fac. Pharm., Gifu Univ. Med. Sci.,
[3]Div. Cell Biol. Mol. Tox., Nat Inst Health Sci., [4]Fac. Pharm., Kinjo Gakuin Univ.,
[5]Dep. Health Sci., Yokohama. Univ. Pharm.)

P-137 **Analysis of the action of novel compounds that activate the tumor suppressor gene p53**

◯ Ryo Ito[1], Chiharu Miyajima[1], Yuya Suzuki[1], Naoki Umezawa[2], Hidetoshi Hayashi[1],
Yasumichi Inoue[1]
([1]Cell Signal., Grad. Sch. Pharm. Sci, Nagoya City Univ.,
[2]Bioorg. Chem., Grad. Sch. Pharm. Sci, Nagoya City Univ.)

P-138 **Study on the Immune Response and Safety of Drug Delivery Systems Utilizing Commensal Bacteria**

◯ Yuma Ito[1], Rio Murakami[1], Rin Oda[1], Saotomo Itoh[2], Isamu Ogawa[1],
Shun'ichiro Taniguchi[3], Shigeaki Hida[1]
([1]Grad. Sch. Pham. Sci., Nagoya City Univ., [2]Sch. Pham., Aichi Gakuin Univ.,
[3]Grad. Sch. Med. Dent., Kagoshima Univ)

P-139 **USP2 contributes to tumor progression through the deubiquitination and stabilization of TAZ**

◯ Takuto Fujiwara, Chiharu Miyajima, Hidetoshi Hayashi, Yasumichi Inoue
(Grad. Sch. Pharm. Sci., Nagoya City Univ.)

P-140 **Immune modulation by antidepressants**

◯ Haruka Mizuno, Satoshi Ishikawa, Isamu Ogawa, Shigeaki Hida
（Fac. Pharm., Nagoya City Univ.）

P-141 ***In silico*** **analysis of protein structures contributing to species differences in TRPA1 activation**

◯ Mirei Amano[1], Yoko Mori[2], Akira Aoki[1], Yoshinori Okamoto[1], Takashi Isobe[3], Susumu Ohkawara[3], Nobumitsu Hanioka[3], Toshiko Tanaka-Kagawa[3], Hideto Jinno[1]
（[1]Fac.Pharm., Meijo Univ., [2]Natl. Inst. Health Sci., [3]Yokohama Univ. Pharm.）

P-142 **Physiological analysis of ion channel inhibition by odorants**

◯ Fusao Kawai
（School of Medicine, Fujita Health University）

P-143 **Analysis of the effect of pinene on the autonomic nervous system**

◯ Fusao Kawai
（School of Medicine, Fujita Health University）

P-144 **Heart rate variability analysis of the effect of cineole on the autonomic nervous system**

◯ Fusao Kawai
（School of Medicine, Fujita Health University）

P-145 **A change-point regression approach for estimating the threshold dose (TD) from a systematic review**

◯ Yui Kuramochi, Kohsuke Hayamizu
（Yokohama Univ. Pharm.）

P-146 **Evaluation of the interaction between antihypertensive drugs and health foods**

◯ Yuri Mizuno[1], Yuuki Miyazaki[2], Yugo Uematsu[2], Fumihiko Ogata[1,2], Naohito Kawasaki[1,2]
（[1]Grad. Sch. Pharm., Kindai Univ., [2]Fac. Pharm., Kindai Univ.）

P-147 **Anti-obesity effects of heat-killed plant-derived lactic acid bacteria in 3T3-L1 adipocytes and obese mice**

◯ Atsushi Koike[1], Masatoshi Nakatsuji[1], Rikuta Shono[2], Yuko Kiyohara[2], Ko Fujimori[1]
（[1]Fac. Pharm., Osaka Med. & Pharm. Univ., [2]Miyama Co., Ltd.）

P-148 **Analysis of nobiletin in mandarin peel**

Ouga Nakatsuka, Mayuka Yamamoto, ◯ Fumitoshi Sakazaki
（Fac. Pharm., Osaka Ohtani Univ.）

P-149 **Age-related vascular endothelial barrier dysfunction and protective effects of green tea catechin**

◯ Rio Wakasugi[1], Rina Fukuda[2], Suguru Nishida[2], Kenji Suzuki[1,2],
Takako Kaneko-Kawano[1,2]
([1]Grad. Sch. Pharm., Ritsumeikan Univ., [2]Col. Pharm. Sci., Ritsumeikan Univ.)

P-150 **Improving infertility from the perspective of medicine food**

◯ Rin Endo, IJung Lee
(Yokohama University of Pharmacy)

P-151 **The intersection of Eastern and Western medicine for diarrheapredominant irritable bowel syndrome**

◯ Kenyu Susuki, IJung Lee
(Yokohama University of Pharmacy)

P-152 **Survey on the Current Situation in Postpartum Care in Japan, Taiwan and Korea**

◯ Kano Takenaka, IJung Lee
(Yokohama University of Pharmacy)

P-153 **Clinical case report of taste disorder after Coronavirus (COVID-19) Infections — Oriental medicine treatment, Herbal medicine and acupuncture**

◯ Reiko Aizawa[1,2], Chiemi Still Yoshida[3], IJung Lee[1]
([1]Grad. Sch. Yokohama Univ. Pharm., [2]Reina Dental Office,
[3]Dept. LA., JCGA)

P-154 **Survey on awareness of menopausal symptoms**

◯ Runa Ooi, IJung Lee
(Yokohama University of Pharmacy)

P-155 **Differences in the action of RA and RA-derived compound *p*-DDAP in the skin**

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