

第 41 回日本基礎老化学会大会
および第 9 回東京理科大学 TR センターシンポジウム
タイムテーブル

5/31 (木)	
9:00 ~ 10:45	一般口演 1 ~中枢神経①/ Central Nervous System ①~
11:00 ~ 12:30	一般口演 2 ~代謝①/ Metabolism ①~
12:30 ~ 13:30	ランチタイム
13:30 ~ 14:45	一般口演 3 ~細胞傷害・酸化ストレス/ Cellular Damage and Oxidative Stress ~
15:00 ~ 16:45	一般口演 4 ~個体老化と細胞老化/ Organismal Aging and Cellular Senescence ~
17:00 ~ 18:30	理事会
6/ 1 (金)	
9:00 ~ 10:45	一般口演 5 ~中枢神経②/ Central Nervous System ②~
11:00 ~ 12:30	一般口演 6 ~代謝②/ Metabolism ②~
12:30 ~ 13:30	ランチタイム、評議員会
13:30 ~ 14:45	一般口演 7 ~運動器/ Bone, Joint and Skeletal Muscle ~
15:00 ~ 15:40	招待講演 1 / Invited Lecture 1 (Dr. John M. Denu)
15:45 ~ 17:05	日韓老化学会合同シンポジウム 1 / Japan-Korea Joint Symposium 1
17:20 ~ 18:40	日韓老化学会合同シンポジウム 2 / Japan-Korea Joint Symposium 2
19:00 ~ 20:30	基礎老化学会懇親会 / Reception (The Society for Biomedical Gerontology)
6/ 2 (土)	
9:00 ~ 10:30	一般口演 8 ~炎症・免疫/ Inflammation and Immunity ~
10:45 ~ 12:30	一般口演 9 ~トランスレーショナルリサーチ/ Translational Research ~
12:30 ~ 13:30	ランチタイム
13:30 ~ 15:00	ポスターセッション / Poster Session
15:00 ~ 15:40	招待講演 2 / Invited Lecture 2 (Dr. Rafael de Cabo)
15:40 ~ 16:20	招待講演 3 / Invited Lecture 3 (Dr. Yoichiro Iwakura)
16:30 ~ 17:30	総会
17:45 ~ 19:15	合同懇親会 / Joint Reception (All Participants)

5月31日(木)

9:00 ~ 10:45 一般口演 ~中枢神経①/ Central Nervous System ①~

座長：津田 玲生 (国立長寿医療研究センター)

遠藤 昌吾 (東京都健康長寿医療センター)

1. O-01

Cholinergic regulation of olfactory processing

°Sae UCHIDA, Yoshie ITO, Fusako KAGITANI

Department of Autonomic Neuroscience, Tokyo Metropolitan Institute of Gerontology

2. O-02

Transcriptome analysis by use of CAGE-seq in young and old cultured neurons

°Kiyohito MURAI, Gen MATSUMOTO, Nozomu MORI

Department of Anatomy and Neurobiology, Nagasaki University School of Medicine

3. O-03/Y

A neurophysiological study of age-related motor impairment

°Ritsuko INOUE¹, Sakura NAKAUCHI¹, Mayumi TAKAHASHI², Masami MIURA¹

Research Team for Aging Neuroscience, Tokyo Metropolitan Institute of Gerontology (TMIG)¹, Research Team for Functional Biogerontology, TMIG²

4. O-04

Effects of short fragments derived from amylin receptor antagonist AC253 on hippocampal synaptic plasticity

°Ryoichi KIMURA¹, Rania SOUDY², Wen FU², David WESTAWAY², Jack JHAMANDAS²

Tokyo University of Science, Yamaguchi¹, University of Alberta²

5. O-05

Phorbol Ester Inhibits Inclusion Formation and Accelerates Neurite Growth in Neuronal Cells

Yasuko TOKUNAGA, Masami MOMONAKA, Kaoru HAYASHIDA, °Naoki HAYASHIDA

Yamaguchi University School of Medicine

6. O-06/Y

The effect of tocotrienols on short- and long-term high-fat diet-treated mice

°Yugo KATO¹, Masashi SHIRAI¹, Yoshinori AOKI², Taisuke KOIKE², Koji FUKUI¹

Molecular Cell Biology Laboratory, Department of Bioscience and Engineering Shibaura institute of technology¹, Mitsubishi-chemical foods corporation²

7. O-07

Analysis of neuronal dysfunction mechanism common to dementia and age-related deafness

°Leo TSUDA, Ryunosuke MINAMI, Young-Mi LIM

Laboratory of Animal Models of Aging, National Center for Geriatrics and Gerontology

10:45 ~ 11:00 休憩

11:00 ~ 12:30 一般口演 ~代謝①/ Metabolism ①~

座長：大澤 郁朗 (東京都健康長寿医療センター研究所)

小林 正樹 (東京理科大学)

1. O-08/Y

Effect of trans-resveratrol and other NAD⁺-regulating compounds on the human IDH1 gene

promoter activity

○Yuki NAKANO, Yuka IINUMA, Fumiaki UCHIUMI

Department of Gene Regulation, Faculty of Pharmaceutical Sciences, Tokyo University of Science

2. O-09/Y

Effect of Kampo medicine “Daisaikoto” on fat accumulation in ovariectomized mice treated with a high-fat diet

○Naoto KIFUKU¹, Junji AKAKI¹, Tetsuya ARAI¹, Hiroo YAMASAKI¹

Central R&D Laboratory, Kobayashi Pharmaceutical Co., Ltd.¹

3. O-10

WDR6 knock down affects LC3 expression in mammarian cell: possible involvement in the autophagy pathway

○Yoshihisa OHATA¹, ZI WANG¹, Yukari WATANABE¹, Shoko NISHIZONO², Toshimitsu KOMATSU³, Isao SHIMOKAWA³, Takuya CHIBA¹

Waseda University¹, Sojo University², Nagasaki University³

4. O-11

Localization of CREG1 in brown adipose tissue of mice under distinct thermal conditions

○Michihiro HASHIMOTO, Yuki ENDO, Tamaki TAKEUCHI, Hitoshi YAMASHITA

Chubu University

5. O-12

GADD34 suppresses fatty acid synthesis through regulation of insulin signaling

○Naomi NISHIO¹, Tadao HASEGAWA¹, Ken-ich ISOBE²

Department of Bacteriology, Graduate School of Medical Sciences, Nagoya City University¹. Department of Food Science and Nutrition, Faculty of Human Life and Environmental Sciences, Nagoya Woman's University²

6. O-13

Influence of high glucose on circadian rhythm in human and mouse endothelial cells

○Morihiko MAEDA¹, Yoshimi NIWA², Tsuyoshi HIROTA², Toshio HAYASHI¹

Graduate School of Medicine School of Health Sciences, Nagoya University¹, Institute of Transformative Bio-Molecules, Nagoya University²

12:30 ~ 13:30 ランチタイム

13:30 ~ 14:45 一般口演 ~細胞傷害・酸化ストレス / Cellular Damage and Oxidative Stress ~

座長：高橋 良哉（東邦大学）

福井 浩二（芝浦工業大学）

1. O-14

Activation of heat shock factor in the liver of rats during aging

Keiko ODERA, ○Ryoya TAKAHASHI

Department of Biochemistry, Faculty of Pharmaceutical Sciences, Toho University

2. O-15

Making a mammal more resistant to aging damage

○Petr GRUZ¹, Masatomi SHIMIZU², Ayako DAIKO³, Haruka TAKAHASHI³, Kei-ichi SUGIYAMA¹, Masamitsu HONMA¹

National Institute of Health Sciences¹, Tokyo Healthcare University², Seitoku University³

3. O-16

Proteomic alterations in the human aortic media with aging: Deposition of MFGE8, elevation of oxidative damages, and imbalance of actin and actin-related proteins

○Yuri MIURA¹, Hiroki TSUMOTO¹, Machiko IWAMOTO¹, Yuya YAMAGUCHI², Yurie SOEJIMA², Tosifusa TODA¹, Tomio ARAI³, Akihiko HAMAMATSU³, Tamao ENDO¹, Motoji SAWABE²

Tokyo Metropolitan Institute of Gerontology¹, Tokyo Medical and Dental University², Tokyo Metropolitan Geriatric Hospital³

4. O-17

A Txn1 missense mutation damages multiple organs

○Iori OHMORI¹, Tomoji MASHIMO², Mamoru OUCHIDA³, Kyoko YAMASHITA⁴, Shinya TOYOKUNI⁴

Okayama University Graduate School of Education¹, Osaka University², Graduate School of Medicine Okayama University³, Nagoya University⁴

5. O-18/Y

Vancomycin-induced nephrotoxicity in mice during aging

○Masaki TAKIGAWA^{1,2}, Toshihiro ISHII³, Yoshiko MORI^{1,2}, Akihito ISHIGAMI¹

Tokyo Metropolitan Institute of Gerontology¹, Tokyo Metropolitan Geriatric Hospital², Toho University³

14 : 45 ~ 15 : 00 休憩

15 : 00 ~ 16 : 45 一般口演 ~ 個体老化と細胞老化 / Organismal Aging and Cellular Senescence ~

座長：石神 昭人（東京都健康長寿医療センター研究所）

定家 真人（東京理科大学）

1. O-19

Search for definitive senescence biomarkers in naturally-aged mice

○Noboru OGISO¹, Kaori MUGURUMA¹, Satomi TAKANO¹, Kohei TOMITA², Kazumichi YAMAGUCHI², Naomi MATSUI³, Mitsuo MARUYAMA³

Laboratory of Experimental Animals, National Center for Geriatrics and Gerontology¹, KAC Corporation², Department of Mechanism of Aging, National Center for Geriatrics and Gerontology³

2. O-20

Telomere dynamics of human diploid cell strains at chromosome level: Lesson from iPS cells (Second report)

○Naoshi ISHIKAWA, Masashi TOYODA, Toshiyuki ISHIWATA

Research Team for Geriatric Pathology, Tokyo Metropolitan Institute of Gerontology

3. O-21

A zebrafish model for studying involvement of epigenetic drift in aging

○Norimasa IWANAMI^{1,2}, Michael SCHORPP², Thomas BOEHM²

National Center for Geriatrics and Gerontology¹, Max Planck Institute of Immunobiology and Epigenetics², Germany

4. O-22/Y

Comprehensive single-cell transcriptome analysis of aging-related genes in rat hepatocytes

○Yuta DOSHIDA^{1,3}, Tomoko FUNAKOSHI¹, Shinichi HASHIMOTO², Sadahiro IWABUCHI², Toshiro AIGAKI³, Akihito ISHIGAMI¹

Tokyo Metropolitan Institute of Gerontology¹, Kanazawa University², Tokyo Metropolitan University³

5. O-23

Senescence-dependent alveolar factor promotes metastatic lung cancer in mice

°Kaori KOMODA¹, Ryuta MIKAWA¹ and Masataka SUGIMOTO^{1,2}

National Center for Geriatrics and Gerontology¹, Nagoya University²

6. O-24

Cell-based screen for altered nuclear phenotypes to reveal the nuclear events regulating cellular senescence

°Mahito SADAIE

Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science

7. O-25

Cellular Senescence and Renal Disease -Experiment of Radiation Nephropathy in Rats-

°Sae ARATANI^{1,2}, Masako TAGAWA², Shinya NAGASAKA², Yukinao SAKAI¹, Akira SHIMIZU², Shuichi TSURUOKA¹

Department of Nephrology, Graduate School of Medicine, Nippon Medical School, Tokyo, Japan¹, Department of Analytic Human Pathology, Nippon Medical School, Japan²

6月1日(金)

9:00 ~ 10:45 一般口演 ~中枢神経②/ Central Nervous System ②~

座長: 森 望 (長崎大学)

堀田 晴美 (東京都健康長寿医療センター研究所)

1. O-26

Recovery from spatial memory deficits and increase of cerebral glucose uptake in cilostazol-administered aged mice

○Shuichi YANAI¹, Tetsuro TAGO², Jun TOYOHARA², Tomoko ARASAKI¹, Shogo ENDO¹

Aging Neuroscience Research Team, Tokyo Metropolitan Institute of Gerontology¹, Research Team for Neuroimaging, Tokyo Metropolitan Institute of Gerontology²

2. O-27/Y

Analysis of learning induced insulin signaling in the hippocampal synapses of diabetic model mice

○Hirobumi TADA¹, Akinori TOKUNAGA¹, Daisuke TANOKASHIRA¹, Moe IMAI¹, Mana KASHIWADA¹, Tamiko SAJI¹, Akiko TAGUCHI¹

Department of Integrative Aging Neuroscience, National Center for Geriatrics and Gerontology¹

3. O-28

Age-Related Tau Pathology in Cynomolgus Monkey brain

○Nobuyuki KIMURA¹, Kentaro ENDO², Hiromi KONDO², Eijiro ADACHI², Nobuhiro SHIMOZAWA³, Yasuhiro YASUTOMI³, Toshiki UCHIHARA^{2,4,5}

National Center for Geriatrics and Gerontology¹, Tokyo Metropolitan Institute of Medical Science², Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition³, Tokyo Medical and Dental University⁴, Nitobe-Memorial Nakano General Hospital⁵

4. O-29

OPA1 mediates age-associated and coenzyme Q-responsive regulation of complex IV activity in brain mitochondria

○Mayumi TAKAHASHI¹, Ikuroh OHSAWA¹, Takuji SHIRASAWA², Kazuhide TAKAHASHI¹

Tokyo Metropolitan Institute of Gerontology¹, Shirasawa Anti-Aging Institute²

5. O-30

Reactive oxygen species induce neurite degeneration in neuroblastoma cells

○Koji FUKUI¹, Naoki YOSHIDA¹, Yuta SAITO¹, Saki NAKAMURA¹

Shibaura Institute of Technol¹

6. O-31

Insulin resistance induces global behavioral abnormalities in Alzheimer's model mice

○Naotaka IZUO¹, Nobuhiro WATANABE², Yoshihiro NODA², Harumi HOTTA², Takahiko SHIMIZU¹

Graduate School of Medicine, Chiba University¹, Tokyo Metropolitan Institute of Gerontology²

7. O-32/Y

Age-related changes in inhibitory mechanisms for micturition contraction of the urinary bladder originating from the skin in rats

○Nobuhiro WATANABE, Kaori IIMURA, Harue SUZUKI, Harumi HOTTA

Department of Autonomic Neuroscience, Tokyo Metropolitan Institute of Gerontology

10:45 ~ 11:00 休憩

11:00 ~ 12:30 一般口演 ~代謝②/ Metabolism ②~

座長：内海 文彰（東京理科大学）

山下 均（中部大学）

1. O-33/Y

Administration of H₂O prevents vascular aging at arch of aorta in LDL receptor-deficient mice

○Masumi IKETANI¹, Kanako SEKIMOTO^{1,2}, Masaki KOMATSU^{1,2}, Mayumi TAKAHASHI¹, Hideo KAWAGUCHI², Ritsuko KANEKO², Ikuroh OHSAWA¹

Tokyo Metropolitan Institute of Gerontology¹, Toyo University²

2. O-34

Functional analysis of E3 ubiquitin ligase Wwp1 in mouse white adipose tissue

○Shunsuke HOSHINO¹, Masaki KOBAYASHI¹, Yoshikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Sciences¹, Translational Reserch Center, Research Institute for Science and Technology², Tokyo University of Science

3. O-35

Lipoproteins comprise at least 10 different classes in rats containing unique proteins as the primary component

○Tomokazu KONISHI¹, Yoko TAKAHASHI²

Akita Pref. Univ.¹, National Agriculture and Food Research Organization²

4. O-36/Y

Transcriptional regulation of Fgf21 and Pgc-1 α by calorie restriction

○Seira UTA¹, Namiki FUJI¹, Masaki KOBAYASHI^{1,2}, Yoshikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Science¹, Translational Reserch Center², Tokyo University of Sciences

5. O-37

The role of Prefoldin 6 on intestinal homeostasis in *Drosophila melanogaster*

○Lucas TRINDADE and Kazutaka AKAGI

National Center for Geriatrics and Gerontology

6. O-38/Y

Dietary restriction improves intestinal cellular fitness to enhance gut barrier function and lifespan in *D. melanogaster*

○Kazutaka AKAGI¹, Kenneth A. WILSON², Subhash D. KATEWA², Mauricio ORTEGA², Jesse SIMMONS², Subir KAPURIA², Amit SHARMA², Heinrich JASPER², Pankaj KAPAHI²

National Center for Geriatrics and Gerontology¹, Buck Institute for Research on Aging²

12:30 ~ 13:30 ランチタイム、評議員会

13:30 ~ 14:45 一般口演 ~運動器/ Bone, Joint and Skeletal Muscle ~

座長：清水 孝彦（千葉大学）

細山 徹（国立長寿医療研究センター）

1. O-39

Effects of aging and caloric restriction in WWP1 expression in skeletal muscle

○Kumi MIURA¹, Masaki KOBAYASHI^{1,2}, Yoshikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Sciences¹, Translational Research Center, Research Institute for Science and technology², Tokyo University of Science

2. O-40/Y

The reason why bone resorption of periodontitis prolong

°Keiichi KANAYAMA, Hirotsugu MORINAGA, Toshiaki SHIBUTANI

Asahi University school of Dentistry

3. O-41/Y

Apple procyanidins promote proteoglycan biosynthesis associated with PGC-1 α -mediated mitochondrial biogenesis in chondrocytes

°Isao MASUDA^{1,2,3}, Masato KOIKE^{1,4}, Shohei NAKASHIMA^{2,3}, Yu MIZUTANI², Yusuke OZAWA¹, Kenji WATANABE¹, Hidetoshi NOJIRI⁴, Koichi SASHIHARA², Koutaro YOKOTE¹ & Takahiko SHIMIZU¹

Chiba University Graduate School of Medicine¹, Asahi Group Holdings, Ltd.², Asahi Calpis Wellness Co., Ltd.³, Juntendo University Graduate School of Medicine⁴

4. O-42

ERK plays a crucial role in maintaining muscle stem/progenitor cell pool

°Tohru HOSOYAMA, Naohiro HASHIMOTO

National Center for Geriatrics and Gerontology, Department of Regenerative Medicine

5. O-43

Age-related DNA methylation changes are accelerated in regenerated tissues

°Nobuyoshi SHIMODA¹, Madoka IKEMOTO-UEZUMI²

National Center for Geriatrics and Gerontology¹, Tokyo Metropolitan Institute of Gerontology²

14 : 45 ~ 15 : 00 休憩

15 : 00 ~ 15 : 40 招待講演 1 / Invited Lecture 1

Chairperson: Yoshikazu Higami (Tokyo University of Science)

Sirtuin 3- and Diet- Mediated Regulation of Mitochondrial Function During Aging

Dr. John M. Denu

(University of Wisconsin)

15 : 40 ~ 15 : 45 休憩

15 : 45 ~ 17 : 05 日韓合同シンポジウム 1 / Japan-Korea Joint Symposium 1

Chairpersons: Mitsuo Maruyama (National Center for Geriatrics and Gerontology)

Ki-Sun Kwon (Korea Research Institute of Bioscience and Biotechnology)

1. OJK-01

Senescent Budding Yeast Cell

Cheol-Koo Lee

Division of Biotechnology, College of Life Sciences and Biotechnology, Korea University

2. OJK-02

Novel Effects of Extrinsic Factors on Skin Homeostasis

°Dong Wook Shin

Amorepacific R&D Center

3. OJK-03/Y

Novel Mediators for Caloric Restriction-associated Metabolic Remodeling in White Adipose Tissue

○Masaki Kobayashi^{1,2}, Yoshikazu Higami^{1,2}

Faculty of Pharmaceutical Sciences, Tokyo University of Science¹, Translational Research Center, Tokyo University of Science²

4. OJK-04/Y

Sexual dimorphism in the effect of NPY deficiency linked to fat metabolism

○Seongjoon Park, Toshimitsu Komatsu, Ryoichi Mori, Isao Shimokawa

Department of Pathology, Graduate School of Biomedical Sciences, Nagasaki University

17:05 ~ 17:20 休憩

17:20 ~ 18:40 日韓合同シンポジウム2 / Japan-Korea Joint Symposium 2

Chairpersons: Keiichi Higuchi (Shinshu University)

Cheol-Koo Lee (Korea University)

1. OJK-05

The role of miRNA in senescence-induced arrest of proteoglycan biosynthesis and osteoarthritis development

Jin-Hong Kim

Seoul National University, Department of Biological Sciences

2. OJK-06

Longevity Regulation by RNA Quality Control through Nonsense-Mediated mRNA Decay in *C. elegans*

○Seung-Jae V. Lee

Department of Life Sciences, Pohang University of Science and Technology

3. OJK-07/Y

APOE2 promotes longevity; a clinical and preclinical assessment

○Mitsuru SHINOHARA^{1,2}, John D. FRYER², & Guojun BU²

National Center for Geriatrics and Gerontology¹, & Mayo Clinic, Jacksonville, FL, USA²

4. OJK-08

Anti-inflammatory effect of water-soluble Soy Isoflavones on murine macrophage cells and murine colitis model

○Sang-Eun Kim¹, Mitsuo Maruyama¹

Department of Mechanism of Aging, National Center for Geriatrics and Gerontology

6月2日(土)

9:00 ~ 10:30 一般口演 ~炎症・免疫 / Inflammation and Immunity ~

座長：磯濱 洋一郎 (東京理科大学)
森 亮一 (長崎大学)

1. O-44/Y

The analysis of molecular mechanisms underlying inflammatory reactions in chronological skin aging

○Koichiro KAWAGUCHI¹, Daijiro SUGIYAMA², Mitsuo MARUYAMA¹

Department of Mechanism of Aging, National Center for Geriatrics and Gerontology Research Institute¹, Daiichi-Sankyo Healthcare²

2. O-45

Role of C/EBP α -miR-223-Interleukin-6 secretion pathway at Staphylococcus aureus-infected wound sites

○Ryoichi MORI, Toshimitsu KOMATSU, Seongjoon PARK, Isao SHIMOKAWA

Department of Pathology, Nagasaki University School of Medicine

3. O-46

Contribution of Zizimin2/3 to the age-related defect in B-1a cells as a source of anti-pneumococcal immunoglobulin M

○Akihiko SAKAMOTO¹, Akinori TAKAOKA², Mitsuo MARUYAMA¹

National Center for Geriatrics and Gerontology¹, Hokkaido University²

4. O-47/Y

Analysis of influenza virus replication and related host immune response in aged mice

○Keiichi TANIGUCHI^{1,2}, Akihiko SATO¹, Takao SHISHIDO¹, Ryu YOSHIDA¹, Keita MATSUNO^{2,3}, Masatoshi OKAMATSU², Yoshihiro SAKODA^{2,3}

Shionogi & Co., Ltd.¹, Hokkaido University², Global Institution for Collaborative Research and Education³

5. O-48/Y

Goreisan inhibits vascular endothelial cell migration and angiogenesis

○Kazuhito MURAKAMI¹, Ichiro HORIE¹, Yoichiro ISOHAMA¹

Tokyo University of Science¹

6. O-49/Y

Role of myeloid-derived suppressor cells in pathophysiology and effect of glucocorticoid in asthmatic mice

○Seira UNAGAMI¹, Yuri KOZAKAI¹, Ichiro HORIE¹, Yoichiro ISOHAMA¹

Tokyo University of Science¹

10:30 ~ 10:45 休憩

10:45 ~ 13:30 一般口演 ~トランスレーショナルリサーチ / Translational Research ~

座長：土谷 智史 (長崎大学)
山越 貴水 (国立長寿医療研究センター)

1. O-50/Y

Positive response of the human TP53 gene promoter to various compounds that up-regulate NAD⁺/NADH ratio in HeLa S3 cells

○Daisuke SUDO, Maiko TANAKA, , Fumiaki UCHIUMI

Department of Gene Regulation, Faculty of Pharmaceutical Sciences, Tokyo University of Science

2. O-51

A sialo-oligosaccharides rich mucin-like molecule is specifically detected in the submandibular glands of aged mice

○Mayu IIDA¹, Yu-ki MATSUNO², Atsushi WATANABE¹, Mitsuo MARUYAMA¹, Akihiko KAMEYAMA², ○Kimi YAMAKOSHI¹

¹National Center for Geriatrics and Gerontology (NCGG), ²National Institute of Advanced Industrial Science and Technology (AIST)

3. O-52

Reconstruction of the extracellular matrix and alpha-gal antigens in the rat lung scaffold reseeded using human vascular and adipogenic stromal cells

○Yasumasa HASHIMOTO, Tomoshi TSUCHIYA, Ryouichiro DOI, Tomohiro OBATA, Naoto MATSUO, Go HATACHI, Keitaro MATSUMOTO, Takuro MIYAZAKI, Takeshi NAGAYASU

Department of Surgical Oncology, Nagasaki University Graduate School of Biomedical Sciences

4. O-53/Y

Effect of Kampo medicine “Bofutsushosan” on fat accumulation in aged mice treated with a high-fat diet

○Junji AKAKI¹, Tetsuya ARAI¹, Hiroo YAMASAKI¹, Kiyofumi NINOMIYA², Toshio MORIKAWA²

Central R&D Laboratory, Kobayashi Pharmaceutical Co., Ltd.¹, Pharmaceutical Research and Technology Institute, Kindai University²

5. O-54

Oral intake of sulforaphane (broccoli sprout) on androgen in middle aged male: a randomized, placebo-controlled, pilot trial

Mari SASAKI¹, ○Shohei SHINOZAKI¹, Kentaro SHIMOKADO¹

Department of Geriatrics and vascular medicine, Tokyo Medical and Dental University Graduate School of Medicine¹

6. O-55

Sulfoquinovosyl-acylpropandiol is a novel radiosensitizer in a malignant mesothelioma mouse model

○Eiko INAMASU¹, Tomoshi TSUCHIYA¹, Katsuya MATUSUDA², Kengo SAKAGUCHI³, Fumio KAJIWARA³, Koichi TOMOSHIGE¹, Ayako SATO¹, Akiko FUKUDA¹, Keitaro MATSUMOTO¹, Takuro MIYAZAKI¹, Go HATACHI¹, Ryoichiro DOI¹, Masahiro NAKASHIMA², and Takeshi NAGAYASU¹

Division of Surgical Oncology, Department of Surgery, Nagasaki University Graduate School of Biomedical Science¹, Department of Tumor and Diagnostic Pathology, Atomic Bomb Disease Institute, Nagasaki University², Faculty of Science and Technology, Department of Applied Biological Science³

7. O-56

Ingestion of green tea with lowered caffeine reduced stress and improved sleep quality

○Keiko UNNO¹, Shigenori NODA¹, Yohei KAWASAKI¹, Hiroshi YAMADA¹, Akio MORITA², Kazuaki IGUCHI¹, Yoriyuki NAKAMURA¹

University of Shizuoka¹, Shizuoka University²

12 : 30 ~ 13 : 30 ランチタイム

13 : 30 ~ 15 : 00 ポスターセッション / Poster Session

1. P-01/Y

Analysis of mitochondrial activation mechanism in adipocytes by caloric restriction

○Kanari TAKI¹, Masaki KOBAYASHI^{1,2}, Yoshikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Science¹, Translational Reserch Center, Reserch Institute for Science and Technology², Tokyo University of Science

2. P-02/Y

High expression of GLO I gene in human basal-like breast cancer contributes to the survival of ALDH1 positive CSCs

○Shoma TAMORI^{1,4}, Yuka NOZAKI^{1,4}, Hitomi MOTOMURA^{1,4}, Keiko SATO^{2,4}, Tsugumichi SATO^{1,4}, Kouji YAMAMOTO^{4,5}, Ryo ABE³, Ryoko TAKASAWA¹, Sei-ichi TANUMA¹, Kazunori AKIMOTO^{1,4}

Faculty of Pharmaceutical Sciences¹, Faculty of Science and Technology², Research Institute for Biochemical Sciences³, Translational Research Center, Research Institute for Science& Technology, Tokyo University of Science, Chiba, Japan⁴, Osaka City University Graduate School of Medicine, Osaka, Japan⁵

3. PJK-01

Expression of the methionine sulfoxide reductase lost during evolution extends Drosophila lifespan in a methionine-dependent manner

○Byung Cheon Lee

College of Life Sciences and Biotechnology Korea University

4. P-03/Y

The effect of decreasing activity of cathepsin L on adipocytes

○Misako SAKURAI¹, Masaki KOBAYASHI^{1,2}, Yoshikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Science¹, Translational Research Center, Research Institute for Science and Technology², Tokyo University of Science

5. P-04/Y

Combination of TNIIIA2 peptide and retinoid decomposes Myc oncoproteins based on β 1 integrin activation

○Manabu SASADA^{1,2}, Kazuki OTSUKA¹, Shunsuke SAKAI¹, Takuya IYODA^{1,2}, Yoichiro ISOHAMA^{1,2}, Fumio FUKAI^{1,2}

Faculty of Pharmaceutical Sciences, Tokyo University of Science¹, Translational research center, Tokyo University of Science²

6. P-05/Y

Co-expression of PKC λ and GLOI correlates with poor clinical outcome in breast cancer

○Hitomi MOTOMURA^{1,5}, Shoma TAMORI^{1,5}, Yuka NOZAKI^{1,5}, Ryoko TAKASAWA¹, Sei-ichi TANUMA¹, Yohei MIYAGI⁴, Yoji NAGASHIMA³, Koji YAMAMOTO^{5,6}, Keiko SATO^{2,5}, Kazunori AKIMOTO^{1,5}

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7. PJK-02

Myelin Basic Protein Citrullination, a Hallmark of Central Nervous System Demyelination, in Prion Pathogenesis

○Eun-Kyoung Choi

Dept. of Biomedical Gerontology, Laboratory of Cellular Aging and Neurodegeneration, Ilsong Institute of Life Science, Hallym University

8. P-06/Y

Correlation between c-Met and ALDH1 contributes to the survival of ALDH1 positive CSCs in breast cancer

○ Yuka NOZAKI^{1,4}, Shoma TAMORI^{1,4}, Keiko SATO^{2,4}, Yasushi HARA³, Ryo ABE³, Ryoko TAKASAWA¹, Atsushi YOSHIMORI⁵, Nariyoshi SHINOMIYA⁶, Sei-ichi TANUMA¹ and Kazunori AKIMOTO^{1,4}

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9. P-07/Y

Cytostatic effect of caffeine alone or in combination with cisplatin against triple negative breast cancer cell

○ Megumi SAITO, Yohei KAWANO, Moe NOHARA, Kanae UEHARA, Takao AOYAMA

Tokyo University of Science

10. P-08/Y

Taurine is an amino acid with the ability to activate autophagy in adipocytes

○ Masaki KOBAYASHI^{1,2}, Hiroki KANEKO¹, Yuhei MIZUNOE^{1,2}, Maho YOSHIDA¹, Masato IMAE³, Yoshikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Sciences, Tokyo University of Science¹, Translational Research Center, Tokyo University of Science² Taisho Pharmaceutical Co., Ltd.³

11. PJK-03

Novel PPAR α/γ dual agonist shows neuroprotective effects against Parkinson's disease model

○ Jaewon Lee

College of Pharmacy, Pusan National University

12. P-09/Y

Analysis of pharmacological relationship between a Japanese Kampo Kamikihito on oxytocin receptors

○ Yuki YOSHIDA^{1,2}, Kanako MIYANO², Yuji OMIYA³, Yoshikazu HIGAMI¹, Yasuhito UEZONO²

Laboratory of Molecular Pathology and Metabolic Disease, Faculty of Pharmaceutical Sciences, Tokyo University of Science¹, Division of Cancer Pathophysiology, National Cancer Center Research Institute², Tsumura Research Laboratories, Tsumura and Co³

13. P-10/Y

Characterization of the human MCM4 gene promoter and its response to trans-resveratrol

○ Monami KUSAKA, Marie TANAKA, Fumiaki UCHIUMI

Department of Gene Regulation, Faculty of Pharmaceutical Sciences, Tokyo University of Science

14. PJK-04

MicroRNA differentially expressed during skeletal muscle aging

○ Ki-Sun Kwon

Aging Research Center, Korea Research Institute of Bioscience and Biotechnology (KRIBB)

15. P-11

Development of Doxorubicin-loaded Liposome-modified Mesenchymal Stem Cells for Cancer Therapy

○ Yukiya TAKAYAMA¹, Kosuke KUSAMORI¹, Hidemasa KATSUMI², Toshiyasu SAKANE³, Akira YAMAMOTO², Makiya NISHIKAWA¹

Tokyo University of Science¹, Kyoto Pharmaceutical University², Kobe Pharmaceutical University³

16. P-12

Influence of WWP1 on antioxidant function in obese adipose tissue

○ Kazuhiro FURUYA¹, Masaki KOBAYASHI¹, Yosikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Sciences¹, Translational Reserch Center, Research Institute for Science and Technology², Tokyo University of Science

17. PJK-05

Intestinal microbes shorten host lifespan through increased intestinal permeability in *Drosophila melanogaster*

○ Kyung-Jin Min

Dept of Biological Sciences, Inha University, Incheon, Korea

18. P-13/Y

Function of autoantibodies against aquaporin-5 detected in Sjögren's syndrome patient's sera

○ Shinichi MUROI¹, Hiromu HONMA¹, Misae HATA¹, Ichiro HORIE¹, Yoichiro ISOHAMA¹

Tokyo University of Science¹

19. P-14/Y

The mechanisms of lysosomal dysfunction in white adipose tissue of short-term high-fat diet model

○ Natsumi MIZUSHIMA¹, Masaki KOBAYASHI^{1,2}, Yoshikazu HIGAMI^{1,2}

Faculty of Pharmaceutical Sciences¹, Translational Research Center, Research Institute for Science and Technology², Tokyo University of Science

20. P-15/Y

Interaction between IL-13 and IL-17A is involved in steroid-resistant mucus production in asthmatic model mice

○ Hikaru UENO¹, Wataru MACHIDA¹, Ichiro HORIE¹, Yoichiro ISOHAMA¹

Tokyo University of Science¹

21. PJK-06

Learning is Reduced in Aged Flies without Sensory Defects

○ Joong-Jean Park

Department of Physiology, College of Medicine, Korea University

15 : 00 ~ 15 : 40 招待講演2 / Invited Lecture 2

Chairperson: Isao Shimokawa (Nagasaki University)

Caloric restriction and Aging; An update from the NIA

Rafael de Cabo

National Institutes of Health

15 : 40 ~ 16 : 20 招待講演3 / Invited Lecture 3

Chairperson: Dr. Chiharu Nishiyama (Tokyo University of Science)

The role of Dectin-1-IL-17F axis in the homeostasis of the intestinal immune system

Yoichiro Iwakura

Tokyo University of Science