

KUCM-YUCM-YUCD-NIPS joint symposium

Date: March 29- 30, 2023

Venue: Okazaki Conference Center, Okazaki, Japan (On site only)

Theme: "Basic and Translational Research in Biomedical Science"

Program:

[[[Mar 29 (Wed)]]]

AM 8:30- (Lobby)

Registration

AM 9:00- AM 9:15 (Rm1)

Opening remarks

Professor Junichi Nabekura (NIPS, Director General)

Professor Im Joo Rhyu (KUCM, Director of BK21 program at KUCM)

Professor Jeon Soo Shin (YUCM, Director of BK21 program at YUCM)

Professor Hee-Jin Kim (YUCD, Director of BK21 program at YUCD)

AM 9:15- AM 11:55 (Rm1)

Regular session (R1) (25 min including 5 min Q)

Chair: Im Joo Rhyu (KUCM)

Hosung Jung (YUCM2)

Department of Anatomy, YUCM

mRNA transport, translation, and decay in adult mammalian central nervous system axons

Hyun Jung Kim (KUCM3)

Department of Anatomy, KUCM

Single-cell transcriptomics reveals the mechanism of glioblastoma evolution

Hiroaki Wake (NIPS1)

Division of Multicellular Circuit Dynamics, NIPS

Toward understanding multicellular circuit dynamics

(10 min: physiological break)

Hee-Jin Kim (YUCD1)

Department of Oral Biology, YUCD

New horizon in clinical anatomy - Usage of the ultrasonography and its strength and flaw

Il-Joo Cho (KUCM4)

Department of Biomedical Science, KUCM

Microsystems for neural Interface

Eunee Lee (YUCM8)

Department of Anatomy, YUCM

Reduced neural discrimination of social target in the mPFC of the animal models with social dysfunction

AM 12:00- 12:10 (outside)

Group photo

AM 12:10- 13:10 (Rm2 & Rm3)

Lunchtime for discussion and information exchange

PM 13:10- PM 14:25 (Rm1)

Regular session (R2) (25 min including 5 min Q)

Chair: Jeon Soo Shin (YUCM)

June-Yong Lee (YUCM6)

Department of Microbiology and Immunology, Laboratory of Tissue Immune Microenvironment, YUCM

ROR α enforces stability of the T-helper-17 cell effector program

Ji-Hwan Ryu (YUCM7)

Severance Biomedical Science Institute, YUCM

Distinctive CD39+CD9+ lung interstitial macrophages suppress Th17-mediated neutrophilic asthma

Rie Hasebe (NIPS4)

Division of Molecular Neuroimmunology, NIPS (Murakami Lab, Project Assoc Prof)

The Gateway Reflex: a novel neuro-immune crosstalk regulating tissue specific inflammatory diseases

(15 min: physiological break)

PM 14:40- PM 16:25 (Rm1)

Young researchers & PhD students session (Y1 Rm1) (15 min including 5 min Q)

Chair: Yumiko Yoshimura (NIPS)

Mingguang Cui (KUCM13)

Department of Anatomy, KUCM (Dongmin Lee Lab, PhD student)

LAUNCHER: A single-component, light-assisted uncaging switch for endoproteolytic release

Hiromi Ueda (NIPS8)

Section of Multiphoton Neuroimaging, NIPS (Murakoshi Lab, PhD student)

Molecular mechanisms for metaplasticity in dendritic spines of hippocampal neurons

Mariko Yamamoto (NIPS6)

Division of Visual Information Processing, NIPS (Yoshimura Lab, Post Doc)

Neuronal activity regulates the enhancement of the connections between fast-spiking interneurons and pyramidal neurons in mouse visual cortex

Yongbo Seo (KUCM15)

Department of Biomedical Science, KUCM (Hae-Chul Park Lab, PhD student)

CSF mediated radial glial activation induces CNS regeneration in injured spinal cord

Eunju Park (YUCM16)

Department of Physiology, YUCM (Yoonhee Jin Lab, PhD student)

The three-dimensional culture model of endometrium

Seung Ju Seo (YUCM15)

Department of Physiology, YUCM (Yoonhee Jin Lab, PhD student)

Reconstitution of 3D microenvironment for improving cardiac maturation

Seung-Jun Lee (YUCD 4)

Department of Oral Biology, YUCD (Jung Lab, PhD student)

The role of MAST4 on spermatogonial stem cell self-renewal during spermatogenesis

PM 14:40- PM 16:25 (Rm2)

Young researchers & PhD students session (Y1 Rm2) (15 min including 5 min Q)

Chair: Yoonhee Jin (YUCM)

Bo Kyung Yoon (YUCM12)

Department of Biochemistry and Molecular Biology, YUCM

1C metabolism as a therapeutic target of chemo-resistant gastric cancer

So Young Kim (YUCM20)

Department of Microbiology, YUCM (Jeon-Soo Shin Lab, PhD student)

The role of nuclear PD-L1 in senescent cancer cells

Jiwon Park (KUCM10) department name revised

Department of Biomedical Science, KUCM (Jee Hoon Roh Lab, PhD student)

Meningeal lymphatic drainage in Alzheimer's disease and ageing

Jaeho Lee (YUCM18)

Department of Anatomy, YUCM (Young-Min Hyun Lab, PhD student)

Investigation of the role of NLRP3 inflammasome during neutrophil infiltration to the inflamed mouse brain

Kanae Ogasawara (NIPS9)

Division of Cerebral Integration, NIPS (Sadato Lab, PhD student)

Neural substrates of performance failure under psychological pressure using a 7T-fMRI

Makoto Hagihara (NIPS12)

Division of Neural Dynamics, NIPS (Kitajo Lab, PhD student)

Gamma-band phase synchronization mediating visual information integration between the cerebral hemispheres

Yujin Kim (KUCM16)

Department of Biomedical Science, KUCM (Il-Joo Cho Lab, PhD student)

Long-term wireless neural activity monitoring system with wireless power transfer

(15 min physiological break)

PM 16:40- PM 18:20 (Rm1)

Regular session (R3) (25 min including 5 min Q)

Chair: Yoshihiro Kubo (NIPS)

Jee Hoon Roh (KUCM2)

Departments of Physiology and Neurology (Adjunct), KUCM

Recent updates on therapeutics of Alzheimer's disease

Suhyun Kim (KUCM6)

Department of Biomedical Science, KUCM

A de novo mutation of an ATP1A3 gene and its functional role in a patient with rapid-onset dystonia-parkinsonism

Akiyuki Nishimura (NIPS3)

Division of Cardiocirculatory Signaling, NIPS (Nishida Lab, Project Assoc Prof)

Regulation of mitochondrial energy metabolism and cardiac homeostasis by sulfur metabolism

Jinhyuk Bhin (YUCM10)

Department of Biomedical Systems Informatics, YUCM

Genetic makeup underlying anti-cancer drug response

[[[Mar 30 (Thu)]]]

AM 9:00- AM 10:40 (Rm1)

Regular session (R4) (25 min including 5 min Q)

Chair: Seok Jun Moon (YUCD)

Yong Taek Jeong (KUCM5)

Department of Pharmacology, KUCM

Osmosensory regulation of feeding behaviors via hypothalamic AgRP-expressing neurons

Takaaki Sokabe (NIPS2)

Division of Cell Signaling, NIPS (Tominaga Lab, Assoc Prof)

Differential role of rhodopsin-TRP channel cascade in multiple sensory functions

Chena Lee (YUCD3)

Department of Oral and Maxillofacial Radiology, YUCD

Salivary gland diagnosis in a perspective of biophysiological functional imaging

Hyoung-Pyo Kim (YUCM5)

Yonsei Genome Center, YUCM

Essential role of chromatin architectural protein CTCF in the three-dimensional genome organization

(10 min physiological break)

AM 10:50- PM 12:35 (Rm1)

Young researchers & PhD students session (Y2 Rm1) (15 min including 5 min Q)

Chair: Yong Take Jeong (KUCM)

Takahiko Egawa (NIPS10)

Division of Membrane Physiology, NIPS (Fukata Lab, PhD student)

Proteomic characterization of ABHD17B, a depalmitoylating enzyme, in the mouse brain

Eunhye Jeon (YUCM17)

Department of Medical Science, YUCM (Taebo Sim Lab, PhD student)

Targeted kinase degradation via the KLHDC2 ubiquitin E3 ligase

Sota Hiro (NIPS11)

Division of Biophotonics, NIPS (Nemoto Lab, PhD student)

Long-term organellar Ca²⁺ imaging of master circadian clock neurons

Hyae Rim Kang (KUCM7) first name revised

Department of Biomedical Science, KUCM (Kihoon Han Lab, PhD student)

Characterization of Cyfip2+/R87C knock-in mice modeling human West syndrome: neurological phenotypes and molecular and cellular effects of the variant in the brain

Eunha Lim (KUCM11)

Department of Anatomy, KUCM (Hyun Jung Kim Lab, PhD student)

Spatial transcriptomic approach for brain metastasis

Ji-Young Kang (YUCM22)

Division of Cardiology, YUCM (Joung Lab, Post doc)

Extracellular vesicle mediated delivery of NOX4 siRNA for targeted therapy of cardiac hypertrophy

Dasom Mun (YUCM19)

Division of Cardiology, YUCM (Joung Lab, Post Doc) replaced

Small extracellular vesicles derived from patients with persistent atrial fibrillation exacerbate arrhythmogenesis

AM 10:50- PM 12:20 (Rm2)

Young researchers & PhD students session (Y2 Rm2) (15 min including 5min Q)

Chair: Mikio Furuse (NIPS)

Jea Hwa Jang (KUCM12)

Department of Pharmacology KUCM (Yong Taek Jeong Lab, PhD student)

Single cell transcriptomic atlas of taste buds and surrounding epithelial cells in circumvallate papillae

Jiyeon Chae (YUCM21)

Department of Pharmacology, YUCM (Kim Chul Hoon Lab, PhD student)

Human taste bud organoids recapitulate in vivo cellular diversity and functionality

Soo-Ji Park (KUCM8)

Department of Physiology, KUCM (Kyoungmi Kim Lab, PhD student)

Targeted mutagenesis in mouse cells and embryos using an enhanced prime editor

Minyoung Lee (YUCM14)

Department of Pharmacology, YUCM (Hyongbum Henry Kim Lab, PhD student)

Therapeutic genome editing in humanized mouse model for adrenoleukodystrophy

Da Eun Yoon (KUCM14)

Department of Physiology, KUCM (Kyoungmi Kim Lab, PhD student)

Precise base editing without unintended Indels in human cells and mouse primary myoblasts

Chang Liu (NIPS7)

Division of Biophysics & Neurobiology, NIPS (Kubo Lab, PhD student)

Structural determinants of the direct inhibition of GIRK channels by Sigma-1R antagonist

PM 12:35- PM 12:50 (Rm1)

Closing Remarks

Professor Jeon Soo Shin (YUCM, Director of BK21 program at YUCM) - Next host

Professor Yoshihiro Kubo (NIPS, Vice Director General)

AM 12:50- 14:00 (Rm2 & Rm3)

Lunchtime for discussion, information exchange and future planning

PM 14:00-

Optional tour to NIPS Labs