

## Short-Talk session 1

09:35 - 11:00 | Chairs: Shota Sakaguchi and Jiancheng Chan

### •S-1 (P-51)

**Sox1, a neural stem cell specific transcription factor, is an intermediate stage marker during the reprogramming of astrocytes into iPS cells.**

\*May Nakajima-Koyama, JoonSeong Lee and Eisuke Nishida (Graduate School of Biostudies, Kyoto University)

### •S-2 (P-41)

**Autophagy induces long-term survival during mitochondrial dysfunction in fission yeast *Schizosaccharomyces pombe***

\*Masayuki Harada and Fuyuki Ishikawa (Graduate School of Biostudies, Kyoto University)

### •S-3 (P-77)

**Metabolomic comparison of fission yeast and human red blood cells, with a focus on age-related compounds**

\*Romanas Chaleckis, Tomáš Pluskal, Ebe Masahiro, Hiroshi Kondoh and Mitsuhiro Yanagida (Graduate School of Biostudies, Kyoto University)

### •S-4 (P-35)

**Resistance to oxidative stress in nonreplicating cells**

\*Leon Rozanov, Jun Endo, Motonori Ninomiya, Yusuke Tarumoto, and Fuyuki Ishikawa (Graduate School of Biostudies, Kyoto University)

### •S-5 (P-19)

**HTLV-1 bZIP Factor Suppresses Apoptosis Through Attenuating FoxO3a Function and Affecting Localization**

\*Azusa Tanaka-Nakanishi, Jun-ichirou Yasunaga, Ken Takai, and Masao Matsuoka (Institute for Virus Research, Kyoto University)

## Short-Talk session 2

11:10 - 12:20 | Chairs: Rika Fuchiue and Michi Miura

### •S-6 (P-59)

**SAMHD1 restricts HSV-1 infection in non-dividing myeloid cells**

\*Peter Gee, Kasumi Kasai, Yuka Kanemura, Michele B. Daly, Sarah Amie, Baek Kim and Yoshio Koyanagi (Institute for Virus Research, Kyoto University)

### •S-7 (P-73)

**Analysis of IPS-1-mediated antiviral signaling.**

\*Shiori Takamatsu, Kazuhide Onoguchi, Koji Onomoto, Ryo Narita, Kiyohiro Takahasi, Fumiyoshi Ishidate, Takahiro K. Fujiwara, Mitsutoshi Yoneyama, Hiroki Kato, Takashi Fujita (Institute for Virus Research, Kyoto University)

### •S-8 (P-83)

**Novel function of SAMHD1 in innate immune response against viral infection**

\*Yuka Kanemura, Pete Gee, Hirotaka Ebina, Takashi Fujita, Yoshio Koyanagi (Institute for Virus Research, Kyoto University)

### •S-9 (P-67)

**The functional analysis of RIG-I-inducible microRNA**

\*Ryota Ouda, Koji Onomoto, Kiyohiro Takahasi, Hiroki Kato, Mitstoshi Yoneyama, Takashi Fujita (Institute for Virus Research, Kyoto University)

## Long-Talk session 1

13:30 - 15:20 | Chairs: Kansai Fukumitsu and Yuki Maeda

### •L-1 (P-31)

#### **Transcriptional controls over areal specialization of projection neurons in the cerebral cortex**

\*Luciano Custo Greig, Mollie B Woodworth, and Jeffrey D Macklis (Department of Stem Cell and Regenerative Biology, Harvard University)

### •L-2 (P-47)

#### **Activity regulates retinal connectivity without synaptic competition**

\*Haruhisa Okawa, Luca Della Santina, Gregory W Schwartz, Daniel Kerschensteiner, Fred Rieke, and Rachel O. Wong (Department of Biological Structure, University of Washington)

### •L-3 (P-13)

#### **Wiring the connection between eye and brain**

\*Austen A. Sitko, Takaaki Kuwajima, Alexandra Rebsam, Carol A. Mason (Dept. Neuroscience, Columbia University)

### •L-4 (P-7)

#### **Prostaglandin E receptor EP1 forms a complex with dopamine D1 receptor, regulates ligand binding of D1 receptors, and stimulates D1-induced cAMP production through GEJ in HEK293T cells.**

\*Aliza T. Ehrlich, Shiho Kitaoka, Tomoyuki Furuyashiki, Shuh Narumiya (Graduate School of Biostudies and Graduate School of Medicine, Kyoto University)

## Long-Talk session 2

15:40 - 17:55 | Chairs: Nozomi Kawamoto and Tokuji Tsuji

### •L-5 (P-27)

#### **A single Histidine residue in the ion binding site of mammalian ZnT transporters controls zinc vs. cadmium selectivity**

\*Hoch E, Lin W, Chai J, Hershinkel M, Fu D and Sekler I (Department of Physiology and Cell Biology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Israel.)

### •L-6 (P-69)

#### **Akirin2 as a Conserved Nuclear Factor Involved in NF- $\kappa$ B Dependent Gene Expression in Inflammation**

\*Sarang Tartej, Kazufumi Matsushita, Shizuo Akira, Osamu Takeuchi (Institute for Virus Research, Kyoto University)

### •L-7 (P-55)

#### **Sall4 interacts with transcription factors Oct-3/4 and Sox2 and occupies Oct-Sox elements in mouse embryonic stem cells**

\*Nobuyuki Tanimura, Motoki Saito, Miki Ebisuya, Eisuke Nishida, and Fuyuki Ishikawa (Graduate School of Biostudies, Kyoto University)

### •L-8 (P-3)

#### **Molecular mechanism of circadian clock and clock-mediated growth-phase transition in basal land plants, *Marchantia polymorpha***

\*Akane Kubota, Shogo Kita, Tomoaki Muranaka, Kimitsune Ishizaki, Ryuichi Nishihama, Katsuyuki T. Yamato, Tokitaka Oyama, Setsuyuki Aoki, Takayuki Kohchi (Graduate School of Biostudies, Kyoto University)

### •L-9 (P-63)

#### **Identification of Higher Plant Carbonic Anhydrases Involved in Photosynthesis**

\*Robert J. DiMario, Jennifer Quebedeaux, Kristen M. Bice, David J. Longstreth, and James V. Moroney (Department of Biological Sciences, Louisiana State University)

### Short-Talk session 3

09:30 - 11:00 | Chairs: Arika Hayashi and Suguru Asai

•S-10 (P-80)

**Caenorhabditis elegans as a screening model for biological activities of plant natural chemicals**

\*Yit-Lai Chow, Fumihiko Sato (Graduate School of Biostudies, Kyoto University)

•S-11 (P-24)

**Crystal structure of peroxisomal targeting signal-2 in complex with its receptors, Pex7p and Pex21p**

\*Dongqing Pan, Toru Nakatsu, Hiroaki Kato (Graduate School of Pharmaceutical Sciences, Kyoto University)

•S-12 (P-44)

**SeeDB: an aqueous optical clearing agent for imaging intact fluorescence and morphology in the mouse brain**

\*Meng-Tsen Ke, Satoshi Fujimoto, and Takeshi Imai (Graduate School of Biostudies, Kyoto University)

•S-13 (P-2)

**High-speed atomic force microscopy combined with inverted optical fluorescent microscopy**

\*Aiko Yoshida, Yuki Suzuki, Nobuaki Sakai, Akira Yagi, Yoshitsugu Uekusa, Yuka Imaoka, Shuichi Ito, Koichi Karaki and Kunio Takeyasu (Graduate School of Biostudies, Kyoto University)

•S-14 (P-74)

**Imaging of intracellular ATP dynamics in single apoptotic cells**

\*Shu-ichiro Sakamoto, Akira Kakizuka, and Hiromi Imamura (Graduate School of Biostudies, Kyoto University)

### Short-Talk session 4

11:10 - 12:20 | Chairs: Naoko Funatsu and Hiroki Fuyushiba

•S-15 (P-48)

**Reconstitution of multicellular patterns that are driven by Delta-Notch signaling**

\*Mitsuhiro Matsuda, Makito Koga, Eisuke Nishida and Miki Ebisuya (Graduate School of Biostudies, Kyoto University)

•S-16 (P-10)

**The role of Scribble in regulating Ephexin4-RhoG signaling pathway**

\*Kohei Harada, Manabu Negishi, Hironori Katoh (Graduate School of Biostudies, Kyoto University)

•S-17 (P-64)

**Characterization of PCTK1 as a Novel Regulator for Spindle Orientation**

\*Sayaka Iwano, Shigeru Matsumura, Ayaka Satou, Masaki Wakabayashi, Yasushi Ishihama and Fumiko Toyoshima (Institute for Virus Research, Kyoto University)

•S-18 (P-32)

**A nucleolar scaffold protein, WDR46, determines the granular compartmental localization of nucleolin and DDX21**

\*Kei Murata, Yuya Hirai, Emilie Louvet, Masahiro Kumeta and Kunio Takeyasu (Graduate School of Biostudies, Kyoto University)

### **Long-Talk session 3**

13:30 - 15:20 | Chairs: Toshifumi Ishiguro and Chih Fang Tien

#### •L-10 (P-68)

#### **Vaccine Strategies for HIV: Using the SIV macaque model to improve existing vaccines and test novel candidates**

\*Shari Gordon, Melvin Doster, Monica Vaccari, Namal Liynage, Poonam Pegu, Rhonda Kines, Marjorie Guroff, Christopher Buck, Douglas Lowy, Georgia D Tomaras, Guido Ferrari, Nancy Miller, David Venzon, Donald M. Stablein, John Schiller and Genoveffa Franchini (Animal Models and Retroviral Vaccines Section, National Cancer Institute)

#### •L-11 (P-84)

#### **Analyses of Japanese macaques naturally infected with simian T-cell leukemia virus type 1**

\*Michi Miura, Junko Tanabe, Kenji Sugata, Tiejun Zhao, Guangyong Ma, Paola Miyazato, Jun-ichiro Yasunaga, Masao Matsuoka (Institute for Virus Research, Kyoto University)

#### •L-12 (P-14)

#### **Novel approach to population sequencing uncovers mutational landscape of an RNA virus**

\*Ashley Acevedo and Raul Andino (Department of Microbiology and Immunology, University of California, San Francisco)

#### •L-13 (P-54)

#### **Functional role of Pumilio in RLRs-mediated IFN induction**

\*Ryo Narita, Hiroki Kato and Takashi Fujita (Institute for Virus Research, Kyoto University)

### **Long-Talk session 4**

15:40 - 17:55 | Chairs: Kei Murata and Fukumitsu Kansai

#### •L-14 (P-6)

#### **Cytokine secretion by CD4+ T cells at the immunological synapse requires Cdc42-dependent local actin remodeling but not MTOC polarity**

\*Armelle Bohineust, Karine Chemin, Stéphanie Dogniaux, Marie Turret, Sarah Guégan, Francesc Miro, and Claire Hivroz (Institut Curie, Centre de Recherche, Pavillon Pasteur, Paris, France)

#### •L-15 (P-38)

#### **Modeling the Endosomal Escape of Cell-Penetrating Peptides Using a Transmembrane pH Gradient**

\*Fatemeh Madani, Rania Abdo, Staffan Lindberg, Hisaaki Hirose, Ülo Langel, Shiroh Futaki and Astrid Gräslund (Department of Biochemistry and Biophysics, Arrhenius Laboratories, Stockholm University, Sweden)

#### •L-16 (P-20)

#### **Ligand mobility modulates immunological synapse formation and T cell activation**

\*Chih-Jung Hsu, Wan-Ting Hsieh, Abraham Waldman, Fiona Clarke, Eric S. Huseby, Janis K. Burkhardt and Tobias Baumgart (Department of Chemistry, University of Pennsylvania)

#### •L-17 (P-28)

#### **Essential roles of K63-linked polyubiquitin binding proteins, TAB2 and TAB3, in B cell activation via MAPKs.**

\*Daisuke Ori, Hiroki Kato, Hideki Sanjo, Sarang Tartey, Takashi Mino, Shizuo Akira and Osamu Takeuchi (Institute for Virus Research, Kyoto University)

#### •L-18 (P-58)

#### **RNA surveillance factors direct facultative heterochromatin formation in fission yeast**

\*Sanki Tashiro, Tomohiro Asano, Junko Kanoh, and Fuyuki Ishikawa (Graduate School of Biostudies, Kyoto University)