

## February 27<sup>th</sup> (Tue)

### Alumni Session

**9:30 - 10:00 Registration**

**10:00 - 10:05 Opening Remarks**

#### 10:05 - 11:25 Alumni session

##### **Talk 1: Miki Ebisuya**

Making developmental mechanisms (and making failures)

##### **Talk 2: Akane Kubota**

Plant responses and research life regulated by circadian clock

**11:25 - 12:40 Lunch**

#### 12:40 - 14:00 Alumni session

##### **Talk 3: Ayako Fukunaka**

My science and career ~From zinc biology to adipobiology~

##### **Talk 4: Itaru Imayoshi**

Toward understanding brain development, maturation, and plasticity

#### 14:10 - 15:30 Alumni session

##### **Talk 5: Ryota Ouda**

The regulation of innate immunity ~From signaling to histone modification~

##### **Talk 6: Eiji Yoshihara**

Metabolic reprogramming in generation of mature pancreatic islets

#### 15:40 - 16:40 Panel Discussion

## February 28<sup>th</sup> (Wed)

### Short-Talk & Poster Session

**9:30 - 10:00 Registration**

**10:00 - 10:05 Opening Remarks**

#### 10:05 - 11:10 Short-Talk session 1

##### **S-1 Ana C. Davila**

Functional prediction of antibody using machine learning

##### **S-2 Yoshitsuna Itagaki**

Live-cell analysis of actin network by high-speed atomic force microscopy

##### **S-3 Taka-aki Takeda**

Zinc deficiency causes a delay in hydrolysis of extracellular adenine nucleotides

##### **S-4 Daiki Kitamura**

Exploring the universal feedback mechanism of gene expression regulation.

#### 11:20 - 12:25 Short-Talk session 2

##### **S-5 Yahiro Mukai**

Evaluation of function of an endogenous bornavirus-like element in miniopterus bats

##### **S-6 Fabian Hia**

Exploring the RNA regulational landscape via codon optimality

##### **S-7 Sho Miyamoto**

A functional vRNA-vRNA interaction important for incorporation of influenza A virus HA segment into virions

##### **S-8 Hidemasa Suzuki**

Genetic analysis with the liverwort *Marchantia polymorpha* reveals an essential role of auxin signaling in the three-dimensional body plan, an invention of land plants

**12:25 - 14:00 Lunch and Poster Set Up**

#### 14:00 - 15:20 Short-Talk session 3

##### **S-9 Tianhui Liu**

Functional mitochondria are crucial for the cell survival of fission yeast under chronic low-dose stress

##### **S-10 Haonan Bao**

Long non-coding RNAs expressed in the locus of *BONOBO*, a master regulator for sexual organ development in *Marchantia polymorpha*

##### **S-11 Nobumasa Soda**

Skeletal abnormalities in mice with constitutively activated MDA5

##### **S-12 Yoshifumi Asakura**

H3.3-specific histone chaperone Hira is required for mammalian cellular stress response including cellular mobility

##### **S-13 iGEM Kyoto (Yu Do, Koki Yoshimoto, Akiko Fukuda, Ayaka Soda, Ikumi Tsuzuki)**

The attempt to kill pine-wood nematodes by feeding RNAi

**15:20 - 15:50 Coffee Break**

#### 15:50 - 16:55 Short-Talk session 4

##### **S-14 Shota Shimizu**

Gain of function of MDA5 in CD11c-expressing cells is sufficient to induce lupus-like nephritis

##### **S-15 Marina Matsumiya**

ES cell-derived presomitic mesoderm-like tissues for analysis of synchronized oscillations in the segmentation clock

##### **S-16 Merve Bilgic**

Progression of temporal pattern of neural stem cells during complex brain formation

##### **S-17 Wenhui Piao**

Role of lysosome on transition between active and quiescent neural stem cells in adult mice brain

#### 17:00 - 18:00 Poster session (odd number)

#### 18:00 - 19:00 Poster session (even number)

## March 1<sup>st</sup> (Thu)

### Long-Talk Session

**9:30 - 9:45 Registration**

#### 9:45 - 11:30 Long-Talk session 1

##### **L-1 Yuya Sanaki**

Hyperinsulinemia abrogates tumor-suppressive cell competition

##### **L-2 Ainhua Perez-Garijo**

Signaling by apoptotic cells: dying cells break their silence.

##### **L-3 Marco Tognetti**

Deciphering the signaling network landscape of breast cancer to enable personalized medicine

##### **L-4 Sha Tim Wai**

Prepackaged nonstructural protein 1 of Influenza A virus supports ribonucleoprotein import into the nucleus

#### 11:40 - 13:25 Long-Talk session 2

##### **L-5 Alexandros Vardakis**

Feeding RuBisCO with CO<sub>2</sub>: Modifying chloroplast carbonic anhydrase activities in *Arabidopsis thaliana* for introducing an algal-based carbon concentrating mechanism

##### **L-6 Rui Sun**

Functional analysis of gibberellin-related diterpenes in the basal land plant *Marchantia polymorpha*

##### **L-7 Olivia Rivera**

ZnT2 regulates vesicle acidification and biogenesis to drive lactation and post-lactation mammary gland remodeling

##### **L-8 Kaori Watanabe**

Differential TGFβ/Activin signaling activity underlies distinct adaptive responses to nutrient balances between generalist and specialist *Drosophila* species

**13:25 - 14:40 Lunch**

#### 14:40 - 16:25 Long-Talk session 3

##### **L-9 Jorge Hernández-García**

A likely ancestral role of DELLA proteins in the coordination of stress and developmental processes

##### **L-10 Akihiro Shimba**

Glucocorticoids drive diurnal oscillation in T cell distribution and response by inducing interleukin-7 receptor and chemokine receptor CXCR4

##### **L-11 Xian Hu**

High spatial and temporal resolution observation of vinculin recruitment on talin dimers

##### **L-12 Markus Mund**

Systematic nanoscale analysis of endocytosis links efficient vesicle formation to patterned actin nucleation

**16:25 - 16:55 Coffee Break**

#### 16:55 - 18:40 Long-Talk session 4

##### **L-13 Takao Ito**

The Yorkie/YAP and Ras-driven tumorigenesis via cellular senescence inhibition

##### **L-14 Caroline Vissers**

Temporal control of mammalian cortical neurogenesis by m<sup>6</sup>A mRNA methylation

##### **L-15 Ikumi Oomoto**

m<sup>6</sup>A RNA modification is essential for mammalian neuronal development

##### **L-16 Masaki Nakano**

ATP maintenance via two types of ATP regulators mitigates pathological phenotypes in mouse models of Parkinson's disease