

Program

Day 1 : January 11, Thursday

- 9:00- **Registration**
- 9:50-10:00 **Opening Remarks** Hitoshi Niwa (Kumamoto University)
- 10:00-10:30 **Session I 10:00-11:45** Chair: Hitoshi Niwa
Kenneth Zaret (Perelman School of Medicine, University of Pennsylvania)
Overcoming Chromatin Barriers to Change Cell Fate
- 10:30-11:00 **Hitoshi Niwa** (Kumamoto University)
Overlapping function of klf family targets multiple transcription factors to maintain naïve pluripotency of ES cell
- 11:00-11:15 **Takahiro Adachi** (Tokyo Medical and Dental University)
Intravital imaging of cellular signaling in immune cells
- 11:15-11:30 **Takashi Kohda** (Tokyo Medical and Dental University)
A novel method for the identification of hydroxymethylcytosine and its application to the mammalian cells.
- 11:30-11:45 **Jun Hatakeyama** (Kumamoto University)
How do humans have expanded cerebral cortex?
- 11:45-12:45 **Lunch & Discussion**
- 12:45-13:15 **Session II 12:45-14:15** Chair: Kenji Shimamura
Hong Kui Deng (Peking-Tsinghua Center for Life Sciences, Peking University)
Small Molecule-induced Cell Fate Reprogramming
- 13:15-13:45 **Katsuhiko Hayashi** (Kyushu University)
Understanding of oogenesis by stem cell-based technologies
- 13:45-14:00 **Takashi Ishiuchi** (Kyushu University)
The zinc finger protein Zfp281 functions in epigenomic regulation in trophoblast stem cells to ensure proper placental development
- 14:00-14:15 **Keiichiro Ishiguro** (Kumamoto University)
A novel germ-cell specific factor responsible for initiation of meiosis
- 14:15-14:30 **Coffee Break**
- 14:30-15:00 **Session III 14:30-16:00** Chair: Keiichiro Ishiguro
Torsten Wuestefeld (Genome Institute of Singapore)
Liver regeneration and premalignant to malignant transformation of hepatocytes
- 15:00-15:30 **Minoru Ko** (Keio University School of Medicine)
What we have learned from systematic manipulation of transcription factors in mouse and human ES cells

- 15:30-15:45 **Jumpei Nogami** (Kyushu University)
Low-input Epigenomic Profiling by Chromatin Labeling
- 15:45-16:00 **Masaki Okano** (Kumamoto University)
Regulation of *de novo* DNA methylation in mouse development
- 16:00-16:15 **Coffee Break**
- Session IV 16:15-18:00** Chair: Minetaro Ogawa
- 16:15-16:45 **Hans-Reimer Rodewald** (German Cancer Research Center)
Fate mapping and endogenous barcoding of hematopoietic stem cells
- 16:45-17:15 **Toshihiko Fujimori** (National Institute for Basic Biology)
Regulation of cell differentiation during early mammalian embryogenesis
- 17:15-17:45 **Shizue Ohsawa** (Kyoto University)
Epithelial cell-turnover ensures robust coordination of tissue growth in *Drosophila*
- 17:45-18:00 **Tsubasa Tanaka** (Kumamoto University)
Roles of yolk uptake in the *Drosophila* oocyte polarization and germ plasm assembly
- Short talks selected from poster presentation 18:00-18:36** Chair: Shinjiro Hino
- 18:00-18:12 **Kazumi Hirano** (National Institute of Advanced Industrial Science and Technology)
FAD-dependent histone demethylase LSD1 is necessary for the neuronal differentiation of human neural stem cells.
- 18:12-18:24 **Kentaro Suzuki** (Wakayama Medical University)
Molecular and cellular mechanisms of androgen-driven sexually dimorphic organ formation
- 18:24-18:36 **Yuki Taira** (Kobe University)
polished rice mediates temporal ecdysone signal and is essential for coordinated development in the *Drosophila* tracheal system
- 18:45-20:30 **Poster Session & Reception**

Day 2 : January 12, Friday

- 8:30- **Registration**
- Session V 9:00-10:30** Chair: Akira Nakamura
- 9:00-9:30 **Hiroyuki Takeda** (University of Tokyo)
Deciphering the structure and epigenetics of the pluripotent genome in medaka fish
- 9:30-10:00 **Shinichi Nakagawa** (Hokkaido University)
Towards Identification of Novel Functional Long noncoding RNAs
- 10:00-10:15 **Jiyoung Lee** (Tokyo Medical and Dental University)
Epigenetic instability of imprinting regions in mouse embryonic stem cells caused by *in vitro* environments

- 10:15-10:30 **Naoki Okashita** (Tokushima University)
Elucidation of novel epigenetic regulatory mechanism of the sex-determining gene “*Sry*”
- 10:30-10:45 **Coffee Break**
- Session VI 10:45-12:15** Chair: Mitsuyoshi Nakao
- 10:45-11:15 **Takeshi Bamba** (Kyushu University)
Development of metabolic profiling methodologies by supercritical fluid chromatography/mass spectrometry
- 11:15-11:45 **Yoshifumi Yamaguchi** (University of Tokyo)
Understanding seasonal body remodeling in mammalian hibernation
- 11:45-12:15 **Yosuke Takahama** (Tokushima University)
Generation of diversity in thymic epithelial cells
- 12:15-14:00 **Lunch & Poster Session**
(13:00-14:00 Poster Session Core Time)
- Session VII 14:00-16:00** Chair: Ryuichi Nishinakamura
- 14:00-14:30 **Kiyokazu Agata** (Gakushuin University)
Evoking regenerative ability from non-regenerative animals
- 14:30-15:00 **Toshiaki Ohteki** (Tokyo Medical and Dental University)
Identification of human common monocyte progenitor, cMoP
- 15:00-15:30 **Andrew McMahon** (University of Southern California)
Generation and repair of the mammalian nephron
- 15:30-16:00 **Ryuichi Nishinakamura** (Kumamoto University)
Building the kidney from pluripotent stem cells
- 16:00-16:15 **Closing Remarks** Ryuichi Nishinakamura (Kumamoto University)