KEY Forum in Developmental Biology and Regenerative Medicine -Supported by Global COE and IMEG, Kumamoto University

Venue: 100th Anniversary Memorial Hall, Kumamoto University

September 8 (Thursday), 2011

- Registration $8:00\sim$
- 9:00-9:05 Opening Remarks Shinji Harada, The Trustee and Vice President
- Session I Organogenesis (Chairperson: Gen Yamada, Hiroshi Sasaki)
- 9:05-9:30 Hideaki Tanaka (Kumamoto University) "Chemorepulsive axon guidance cue, draxin, and its receptors"
- 9:30-9:55 Ryuichi Nishinakamura (Kumamoto University) "Nephron progenitors in the embryonic kidney"
- 9:55-10:20 Jordan Kreidberg (Harvard Medical School) "The maintenance of kidney progenitor cells"

Break

(Chairperson: Toshio Suda, Hideaki Tanaka)

- 10:40-11:05 Nicholas Barker (Institute of Medical Biology (IMB)) "Lgr5 Stem Cells in Self-Renewal and Cancer"
- 11:05-11:30 Shoen Kume (Kumamoto University)"Signals involved in guiding ES cells to differentiate into pancreatic beta cells"
- 11:30-11:55 Taro Toyoda (Kyoto University) "Generation of pancreatic beta cells from human ES/iPS cells: Towards regenerative therapy for diabetes"

Poster & Lunch

12:00-14:00 (with Sandwich)

Session II Tissue Stem Cells (Chairperson: Kenji Shimamura, Yuichi Oike)

- 14:00-14:25 Hideki Enomoto (RIKEN) "Neurovascular congruency is required for the development of the enteric nervous system"
- 14:25-14:50 Tetsuya Taga (Tokyo Medical and Dental University) "External cues and intrinsic properties regulating neural stem cell fate"
- 14:50-15:15 Takashi Nagasawa (Kyoto University) "Bone Marrow Niches for Hematopoietic Stem and Progenitor Cells"
- 15:15-15:40 Toshio Suda (Keio University) "Glycolytic Metabolism of Hematopoietic Stem Cells"

Break

(Chairperson: Shoen Kume, Tetsuya Taga)

- 16:00-16:25 Takatsune Shimizu (Keio University) "Establishment and characterization of mouse osteosarcoma stem cells"
- 16:25-16:45 Chia-Ning Shen (Academia Sinica)"Pancreatic cell plasticity and its role in islet repairing and carcinogenesis"
- 16:45-17:05 Keiko Muguruma (RIKEN) "Neural induction and self-organization in three-dimensional ES cell culture"

September 9 (Friday), 2011

Registration $8:30\sim$

Session III	Development / Epigenetics
	(Chairperson: Takashi Nagasawa, Takumi Era)
9:00-9:25	Atsuko Sehara-Fujisawa (Kyoto University) "A Role of ADAM8 in the Onset of Blood Circulation"
9:25-9:50	Taiji Adachi (Kyoto University) "Multiscale Biomechanics of Actin Cytoskeleton in Migrating Cells: From Cells to Molecules"
9:50-10:10	Satoru Mochida (Kumamoto University) "Reciprocal Inhibition System between PP2A and CDK"
10:10-10:35	John Yu (Academia Sinica) "Stem cells and cancer, from the perspective of glycomics analysis"

Break

(Chairperson: Hitoshi Niwa, Hideyuki Okano)

- 10:55-11:20 Hiroyuki Sasaki (Kyushu University)"Role of small RNAs in shaping the epigenome of germ cells for genome defense and imprinting"
- 11:20-11:45 Mitsuyoshi Nakao (Kumamoto University) "Epigenetic cell regulation and deregulation by chromatin factors"
- 11:45-12:10 Alice L. Yu (Academia Sinica)"Phosphoproteomic and glycomic analysis of breast cancer stem cell"

Poster & Lunch

12:10-14:10 (with Sandwich)

Session IV Pluripotent Stem Cells & Regenerative Medicine (Chairperson: Minetaro Ogawa, Mitsuyoshi Nakao)

- 14:10-14:35 Hitoshi Niwa (RIKEN) "Pluripotency-associated transcription factor network"
- 14:35-15:00 Hiroshi Sasaki (Kumamoto University) "Mechanisms of position-dependent cell fate specification in preimplantation mouse embryos"
- 15:00-15:35 Minoru S. H. Ko (National Institute on Aging (NIH)) "Network analysis of pluripotency and immortality"

Break

(Chairperson: Ryuichi Nishinakamura, John Yu)

- 15:55-16:30 Shinya Yamanaka (Kyoto University) "Induction of Pluripotency by Defined Factors"
- 16:30-16:55 Yutaka Hanazono (Jichi Medical University)"The Generation of Naive Porcine Induced Pluripotent Stem Cells"
- 16:55-17:20 Hideyuki Okano (Keio University) "Regeneration of the damaged CNS using reprogrammed fibroblasts"
- 17:20-17:25 Concluding Remarks Shoen Kume, Global COE Program Director

Reception (FORICO)