Monday, March 28 (Day 1)

9:50-10:00 Welcoming Address by RIKEN President, Hiroshi Matsumoto

Session 1: Organ Size and Shape Control 1

Chair: Shinji Takada

10:00-10:30 S1-1
Coordination of directional outgrowth and patterning by Wnt5a and Fgf signaling interaction
Yingzi Yang (National Human Genome Research Institute, NIH and Harvard School of Dental Medicine, USA)

10:30-11:00 S1-2
Regulation of muscle cell size
Mary Baylies (Sloan Kettering Institute, Memorial Sloan Kettering Cancer Center, USA)

11:00-11:20 S1-3*
Coordinated regulation of long bone growth through the integration of intrinsic and extrinsic cues
Alberto Rosello-Diez (Sloan Kettering Institute, USA)

11:20-11:50 *Coffee Break*

Session 1 (continued): Organ Size and Shape Control 2

Chair: Shinji Takada

11:50-12:20 S1-4
Genetic and physical mechanisms behind tube geometry and size control
Shigeo Hayashi (RIKEN Center for Developmental Biology, Japan)

12:20-12:50 S1-5
Mammalian tracheal tubulogenesis
Mitsuru Morimoto (RIKEN Center for Developmental Biology, Japan)

12:50-13:10 S1-6*
Sculpting organ shape by extracellular matrix stiffening
Justin Crest (University of California, Berkeley, USA)

*Selected Talks

13:10-14:00 *Lunch*

14:00-15:30 **Poster Session 1**
14:00-14:45 Presenters of Odd-numbered posters
14:45-15:30 Presenters of Even-numbered posters

Session 1 (continued): Organ Size and Shape Control 3
Chair: Shoen Kume

15:30-16:00 S1-7
Self-organized formation of complex tissues from stem cells
Mototsugu Eiraku (RIKEN Center for Developmental Biology, Japan)

16:00-16:30 S1-8
Human pluripotent stem cell-derived tissues as new models to study development and disease of the digestive tract
James Wells (Cincinnati Children's Hospital Medical Center and University of Cincinnati, USA)

16:30-17:00 S1-9
Morphogenetic mechanisms regulating jaw size evolution
Richard A. Schneider (University of California at San Francisco, USA)

17:00-17:20 *Coffee Break*

*Selected Talks

Session 2: Growth Control 1

Chair: Shoen Kume

17:20-17:50 S2-1

Role of Hippo signaling and its regulation in preimplantation mouse embryos

Hiroshi Sasaki (Osaka University, Japan)

17:50-18:10 S2-2*

A molecular basis of mammalian cell size control

Kazuo Yamamoto (Nagasaki University School of Medicine, Japan)

18:10-18:40 S2-3

Role of YAP/TAZ in cancer: Hippo signaling and beyond

Stefano Piccolo (University of Padua Medical School, Italy)

18:40-20:40 Reception at CDB Salon

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*Selected Talks

Tuesday, March 29 (Day 2)

Session 2 (continued): Growth Control 2
Chair: Yu-Chiun Wang

9:30-10:00 S2-4
YAP is essential for tissue tension to ensure vertebrate 3D body shape
Makoto Furutani-Seiki (University of Bath, UK)

10:00-10:30 S2-5
The Hippo pathway in organ growth control and regeneration
Georg Halder (VIB Center for the Biology of Disease, and KU Leuven Center for Human Genetics, University of Leuven, Belgium)

10:30-10:50 S2-6*
Differential modification defines discrete nano-scale clusters of heparan sulfate and coordinates gradient formation and signal reception of Wnt in *Xenopus* embryo
Yusuke Mii (National Institute for Basic Biology, Japan)

10:50-11:20 *Coffee Break*

Session 2 (continued): Growth Control 3
Chair: Yu-Chiun Wang

11:20-11:50 S2-7
Genetic regulation of developmental and regenerative growth
Iswar K. Hariharan (University of California, Berkeley, USA)

11:50-12:20 S2-8
A Novel Link between Hippo and Toll Receptor Signaling
Duojia Pan (Johns Hopkins University School of Medicine, Howard Hughes Medical Institute, USA)

12:20-12:40 S2-9*
Shaping and scaling mechanisms in facial chondrocranium during mouse embryonic development
Igor Adameyko (Karolinska Institutet, Sweden)

*Selected Talks

12:40-13:30 Lunch

13:30-15:30 **Poster Session 2**
13:30-14:30 Presenters of posters with category "A"
14:30-15:30 Presenters of posters with category "B"

Session 3: Scaling and Morphogenetic Control 1
Chair: Tatsuo Shibata

15:30-16:00 S3-1
Scaling of dorsal-ventral patterning by embryo size
Hidehiko Inomata (RIKEN Center for Developmental Biology, Japan)

16:00-16:20 S3-2*
The planarian *Dugesia japonica* as a new model animal to understand molecular mechanisms underlying stable body proportioning
Kazutaka Hosoda (Kyoto University, Japan)

16:20-16:40 S3-3*
Coordination of progenitor specification and growth in the developing spinal cord
Anna Kicheva (IST Austria, Austria)

16:40-17:00 *Coffee Break*

*Selected Talks

Session 3 (continued): Scaling and Morphogenetic Control 2

Chair: Tatsuo Shibata

17:00-17:30 S3-4

Investigating size control mechanisms using *Xenopus*

Rebecca Heald (University of California, Berkeley, USA)

17:30-17:50 S3-5*

Large cytoplasmic size is linked to the error-prone nature of oocytes

Hirohisa Kyogoku (RIKEN Center for Developmental Biology, Japan)

17:50-18:10 S3-6*

Multidimensional allometry of the *Drosophila* embryonic hindgut

Timothy E. Saunders (Mechanobiology Institute, National University of Singapore, Singapore)

18:10- Invited speakers go to dinner

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*Selected Talks

Wednesday, March 30 (Day 3)

Session 3 (continued): Scaling and Morphogenetic Control 3
Chair: Shigehiro Kuraku

9:30-10:00 S3-7
Oscillating signaling pathways during mouse embryo development and segment scaling
Alexander Aulehla (EMBL Heidelberg, Germany)

10:00-10:20 S3-8*
Somite scaling - wave vs gradient-
Kana Ishimatsu (Harvard Medical School, USA)

10:20-10:50 S3-9
Immune regulation of regeneration
Nadia Rosenthal (The Jackson Laboratory, USA and Imperial College London, UK)

10:50-11:20 *Coffee Break*

Session 4: Allometry in Evolution 1
Chair: Shigehiro Kuraku

11:20-11:50 S4-1
What ants teach us about mechanisms of size, growth, and allometry during development and evolution
Ehab Abouheif (McGill University, Canada)

11:50-12:10 S4-2*
Evolutionary and developmental underpinnings of insect polyphenisms
Toru Miura (Hokkaido University, Japan)

12:10-12:30 S4-3*
A genetic signature of flightlessness evolution in the Galapagos Cormorant (*Phalacrocorax harrisi*) revealed by predictive genomics
Alejandro Burga (University of California, Los Angeles, USA)

*Selected Talks

12:30-13:30 Lunch and Poster Session 3
Free discussion, all posters

Session 4: Allometry in Evolution 2
Chair: Shigeru Kuratani

13:30-14:00 S4-4
Morphological evolution by switching cell division orientation in plants
Mitsuyasu Hasebe (National Institute for Basic Biology, Japan)

14:00-14:30 S4-5
Fishing for the secrets of evolutionary change in vertebrates
David Kingsley (Howard Hughes Medical Institute and Stanford University, USA)

14:30-15:00 S4-6
Genetic mapping of complex traits in the domestic dog illuminates the sources of phenotypic variation
Elaine Ostrander (National Human Genome Research Institute, National Institutes of Health, USA)

15:00-15:10 Closing Remarks by Stefano Piccolo

*Selected Talks