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

*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”

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**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*

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*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

*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 harrisii*) 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