#### Posters

# P01-A

# The Role of Wnt5a in the morphogenesis of the vertebrate body plan

Rieko Ajima (National Institute of Genetics, Japan)

# P02-A

# Regulation and scaling of developmental time during Drosophila embryogenesis

Christopher Amourda (National University of Singapore, Singapore)

### P03-B

# Morphogenesis of nanometer scale porous extracellular matrix on the insect olfactory sensilla

Toshiya Ando (RIKEN Center for Developmental Biology, Japan)

# P04-B

Sexual dimorphism in 20-hydroxyecdysone hormone levels controls sexual dimorphic butterfly wing patterns

Shivam Bhardwaj (National University of Singapore, Singapore)

### P05-A

A genetic signature of flightlessness evolution in the Galapagos Cormorant (Phalacrocorax harrisi) revealed by predictive genomics

Alejandro Burga (UCLA, USA)

### P06-A

# Embryonic attenuated Wnt/ $\beta$ -catenin signal defines niche location and long-term stem cells in hair follicle

Ting Chen (National Institute of Biological Sciences, Beijing (NIBS), China)

### P07-B

# Study the role of zona pellucida domain (ZPD) proteins in apical extracellular matrix during epithelial morphogenesis and wound healing

Wei-Chen Chu (RIKEN Center for Developmental Biology, Japan)

### P08-B

### Variations in Drosophila wing imaginal disc growth curves

Carmen M A Coelho (Centre for Human Genetics, India)

### P09-A

# Cortical instability drives actin pattern formation and positioning in biological tubes

Bo Dong (Ocean University of China, China)

# P10-A

# PolyQ regulates organ size and development of non-neuronal tissue in *Drosophila melanogaster*

Sandeep Kumar Dubey (Banaras Hindu University, India)

# P11-B

Lats kinases determine the size of the atrium by controlling the number of anterior second heart field progenitors in zebrafish

Hajime Fukui (National Cerebral and Cardiovascular Center, Japan)

# P12-B

# In vitro 3D culturing platform with Omni-directional imaging device

Masaya Hagiwara (Osaka Prefecture University, Japan)

# P13-A

# Allometry of spindle morphology during embryogenesis in *Caenorhabditis elegans*

Yuki Hara (Yamaguchi University, Japan)

# P14-A

# Adaptive cellular behavior for homeostatic radial size in proliferating tube

Tsuyoshi Hirashima (Kyoto University, Japan)

# P15-B

Adaptive significance of critical weight for metamorphosis in holometabolous insects Ken-ichi Hironaka (Osaka University, Japan)

# P16-B

# The planarian *Dugesia japonica* as a new model animal to understand molecular mechanisms underlying stable body proportioning

Kazutaka Hosoda (Kyoto University, Japan)

# P17-A

# Functional analysis of COUP-TFII during tympanic ring development

Wen-Hsin Hsu (Institute of Biochemistry and Molecular Biology, Taipei)

# P18-A

# Bamboo wisdom: What determines the internode spacings in wild bamboo?

Mie lizuka (University of Yamanashi, Japan)

# P19-B

# Muscle patterning is regulated by Scleraxis positive tendon cells

Masafumi Inui (National Research Institute for Child Health and Development, Japan)

# P20-B

# Somite scaling - wave vs gradient-

Kana Ishimatsu (Harvard Medical School, USA)

# P21-A

### Lats1 suppresses centrosome overduplication by modulating the stability of Cdc25B

Yorika Kato (Research Institute for Microbial Diseases, Osaka University, Japan)

# P22-A

# Sorcin in the epiphyseal growth plate

Mariko Kawai (OsakaDental University, Japan)

# P23-B

# Comprehensive monitoring of the cell-cell contact between newborn cells and its neighbors in the developing mammalian brain

Takumi Kawaue (Nagoya University Graduate School of Medicine, Japan)

# P24-B

**Coordination of progenitor specification and growth in the developing spinal cord** Anna Kicheva (IST Austria, Austria)

# P25-A

**Directed mesenchymal growth and epithelial remodeling shape the tracheal tube** Keishi Kishimoto (RIKEN Center for Developmental Biology, Japan)

# P26-A

# DNA replication machinery is required for development in Drosophila

Hidetsugu Kohzaki (Shumei University, Japan)

### P27-B

# Monoamine signals that control differentiation and proliferation of pancreatic beta cells Shoen Kume (Tokyo Institute of technology, Japan)

# P28-B

# Sequence informatics for evolution-aware life science studies

Shigehiro Kuraku (RIKEN Center for Life Science Technologies, Japan)

# P29-A

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

Hirohisa Kyogoku (RIKEN Center for Developmental Biology, Japan)

# P30-A

Angelman syndrome protein Ube3a regulates synaptic growth and endocytosis by inhibiting BMP signaling in *Drosophila* 

Wenhua Li (Chinese Academy of Sciences, China)

# P31-B

# Live imaging reveals dynamics of core Hippo pathway component Yorkie during epithelial development

Samuel Alexander Manning (Peter MacCallum Cancer Centre, Australia)

# P32-B

Regulation of growth and axial elongation morphogenesis in P19C5 embryoid bodies: an in vitro gastrulation model for detecting teratogenic agents

Yusuke Marikawa (University of Hawaii, USA)

# P33-A

# Growth control by a Fat signaling , Approximated, in Drosophila

Hitoshi Matakatsu (The University of Chicago, USA)

# P34-A

### Towards understanding sexual size dimorphism in Drosophila larvae

Kristina Mathews (University of Zurich, Switzerland)

# P35-B

### Organ size regulation in Zebrafish laterality organ

Takaaki Matsui (NAIST, Japan)

### P36-B

# Morphology and transcriptome of phenotypic plasticity in the Hokkaido Salamander (*Hynobius retardatus*)

Masatoshi Matsunami (Hokkaido University, Japan)

### P37-A

# 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)

### P38-A

# Metabolic reorganization that supports growth of mouse embryos during the mid-gestation stage

Hidenobu Miyazawa (Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan)

### P39-B

# Reconstructing 3D deformation dynamics for epithelial sheet morphogenesis from limited cell data

Yoshihiro Morishita (RIKEN Quantitative Biology Center, Japan)

### P40-B

# HOX gene *Antp* in the visceral mesoderm regulates size of the midgut chambers in *Drosophila* embryo

Ryutaro Murakami (Yamaguchi University, Japan)

# P41-A

#### Dopamine regulates body size in C. elegans

Takashi Nagashima (The University of Tokyo, Japan)

# P42-A

# Signaling relay and feedback mechanisms control nutrient-dependent production of an insulin-like peptide for Drosophila body growth

Takashi Nishimura (RIKEN Center for Developmental Biology, Japan)

# P43-B

# Regulation of pharynx size by apical and basal extracellular matrices in C. elegans

Kiyoji Nishiwaki (Kwansei Gakuin University, Japan)

# P44-B

# 3D mapping and 4D imaging unveiled the size and positional regulation of developing neuroepithelial bodies following airway branching morphogenesis

Masafumi Noguchi (RIKEN Center for Developmental Biology, Japan)

### P45-A

# Morphological diversity of seminal receptacles in genus Drosophila

Tatsuhiko Noguchi (National Defense Medical College, Japan)

### P46-A

# Mechanical control of epithelial invagination by the cell-to-cell propagation of ERK activity

Yosuke Ogura (RIKEN Center for Developmental Biology, Japan)

### P47-B

### Ensuring robust control of organ size by "cell-turnover" in Drosophila

Shizue Ohsawa (Kyoto University, Japan)

# P48-B

# On the origin of vertebrate somites

Takayuki Onai (RIKEN, Japan)

# P49-A

### Cellular dynamics in somitogenesis

Agnieszka Malgorzaa Piatkowska (UCL, UK)

# P50-A

# Mechanical coupling to extra-embryonic tissues controls cell shape and tissue dynamics during morphogenesis of the zebrafish laterality organ

Eduardo Andrés Pulgar (Anatomy and Developmental Biology Program, University of Chile, Chile)

### P51-B

Shape regulation in zebrafish posterior body development by cell cycle phase-dependent cellular flow, revealed by live-imaging and mathematical analyses

Takashi Saitou (Ehime University, Japan)

### P52-B

# Coupling of growth to nutritional status: the role of the CCHamide-2 peptide hormone in *Drosophila melanogaster*

Hiroko Sano (Institute of Life Science, Kurume University, Japan)

# P53-A

### Multidimensional allometry of the Drosophila embryonic hindgut

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

### P54-A

Lateral inhibition-induced pattern formation controlled by the size and geometry of the cell Sungrim Seirin Lee (Hiroshima University, Japan)

### P55-B

# Theoretical study of scaling of Dorsal-Ventral patterning in Xenopus embryo

Tatsuo Shibata (RIKEN Quantitative Biology Center, Japan)

### P56-B

### Three-dimensional morphogen signaling controls Drosophila wing morphogenesis

Osamu Shimmi (University of Helsinki, Finland)

### P57-A

Oscillatory control of Delta-like1 in cell interactions regulates dynamic gene expression and tissue morphogenesis

Hiromi Shimojo (iCeMS, Kyoto University, Japan)

### P58-A

# Caspase drives wing disc growth via cell number regulation to ensure the robust determination of bilateral symmetry in *Drosophila* wing size

Natsuki Shinoda (The University of Tokyo, Japan)

### Р59-В

*Drosophila melanogaster* microbiota affects host systemic growth, maturation rate and organ proportions upon chronic undernutrition

Maura Strigini (IGFL - ENS de Lyon, France)

### P60-B

### Morphogenetic factors required for soldier-caste differentiation in a termite

Yasuhiro Sugime (Hokkaido University, Japan)

# P61-A

### Epithelial tumors originate in tumor hotspots, a tissue-intrinsic microenvironment

Yoichiro Tamori (National Institute of Genetics, Japan)

# P62-A

### Mechanisms that balance neuronal subtype production in the cerebral cortex

Kenichi Toma (RIKEN Center for Developmental Biology, Japan)

### P63-B

Molecular profiling of microenvironments that define the compartmentalized architecture of the hair follicle stem cell niche

Ko Tsutsui (RIKEN Center for Developmental Biology, Japan)

# P64-B

The molecular basis of distinct dietary responses to nutrient balances for animal growth between *Drosophila* generalist and specialist species

Tadashi Uemura (Kyoto University, Japan)

### P65-A

An unbiased interspecies genetic screen for nutritional factor(s) in yeast affecting *Drosophila* larval development

Yuuki Takahashi (Graduate School of Biostudies, Kyoto University, Japan)

### P66-A

A statistical analysis of standard organ weights and their changes during the post-mortem interval using forensic autopsy cases (2)

Yosuke E. Usumoto (Yokohama City University, Japan)

### P67-B

Antagonism between Gdf6a and retinoic acid pathways controls timing of retinal neurogenesis and growth of the eye in zebrafish

Leonardo Valdivia (University College London, UK)

### P68-B

### A molecular basis of mammalian cell size control

Kazuo Yamamoto (Nagasaki University School of Medicine, Japan)

### P69-A

Nano-scale clusters of heparan sulfate and heparosan attached to Glypicans have distinct roles for signaling and diffusion of Wnt in *Xenopus* 

Takayoshi Yamamoto (The University of Tokyo, Japan)

### P70-A

Wnt proteins serve as directional cues for the Par-complex polarity and the *Drosophila* nervous tissue growth

Shigeki Yoshiura (RIKEN Center for Developmental Biology, Japan)

# P71-B

# Segmental border is defined by Ripply2-mediated Tbx6 repression independent of Mesp2

Wei Zhao (National Institute of Genetics, Japan)