

Poster Presentation

P01

“Revealing the Forces that Pattern the Pluripotent Inner Mass of the Mammalian Embryo”

Yanina Alvarez (European Molecular Biology Laboratory Australia, Australia)

P02

“Remodeling of Glial Assembly in *Drosophila* Brain During Metamorphosis”

Takeshi Awasaki (Kyorin University School of Medicine, Japan)

P03

“Force Microscopy Developed for Screening Studies on Cultured Cells”

Shinji Deguchi (Nagoya Institute of Technology, Japan)

P04

“Colocalization of RhoGAP Restricts the Size of Pulsatile Actomyosin Foci in *C. elegans* Embryos”

Masashi Fujita (RIKEN Quantitative Biology Center, Japan)

P05

“Transport cells act dynamically to build the spiculous sponge skeleton”

Noriko Funayama (Kyoto University, Japan)

P06

“Lateral Root Development is Constrained by Cell Wall of Surrounding Mature Cells in *Arabidopsis*”

Tatsuaki Goh (Kobe University, Japan)

P07

“Long-Range Force Transmission Driving Tissue Invagination Revealed Through Optogenetic Modulation of Cell Contractility”

Giorgia Guglielmi (European Molecular Biology Laboratory, Germany)

P08

“Probing the cell-cell junctional tension at different state of cell oscillation”

Yusuke Hara (National University of Singapore, Singapore)

P09

“Sequential contraction and localized exchange of apical junctions drives unidirectional zippering and neural tube closure in a simple chordate”

Hidehiko Hashimoto (University of Chicago, USA)

P10

“Measuring force between cells during development by FRET”

Yutaro Hori (The University of Tokyo, Japan)

Yusuke Mii (National Institute for Basic Biology, Japan)

P11

“ “Push-Pull” Molecular Functions of C-cadherin on Rac1 Control Cell Migration and Contact Inhibition of Locomotion”

Takehiko Ichikawa (The University of Pittsburgh, USA)

P12

“Subcellular localization and domain analysis of the Golgi kinase Four-jointed”

Hiroyuki Ishikawa (Chiba University, Japan)

P13

“Systematic Profiling of Spatiotemporal Tissue and Cellular Stiffness in the Developing Brain”

Misato Iwashita (Kawasaki Medical School, Japan)

P14

“Mechanics of Epithelial Invagination: Morphogenetic Forces and the Architectural Preference of Tissues”

Takefumi Kondo (RIKEN Center for Developmental Biology, Japan)

P15

“On the mechanics of epithelial fold patterns in the mouse oviduct”

Hiroshi Koyama (National Institute for Basic Biology, Japan)

P16

“Left-right Asymmetric Planar Cell Polarity Controls Directional Collective Cell Migration in Epithelial Morphogenesis.”

Erina Kuranaga (RIKEN Center for Developmental Biology, Japan)

P17

“Manipulation of Gene Expression by Infrared Laser Heat Shock and Its Application to the Study of Tracheal Development in *Drosophila*”

Guangxia Miao (RIKEN Center for Developmental Biology, Japan)

P18

“Modeling Cell-cell interaction and Random Cell Movement in collective migration of MDCK cells”

Takashi Miura (Kyushu University Graduate School of Medicine, Japan)

P19

“Microrheology in cells under dual feedback control”

Daisuke Mizuno (Kyushu University, Japan)

P20

“Epithelial Cell Differentiation and Morphological Change Initiate Epiboly Movements in Zebrafish Gastrulation”

Hitoshi Morita (Institute of Science and Technology Austria, Austria)

P21

“Novel template of spindle orientation with membrane invagination in ascidian epidermis”

Takefumi Negishi (National Institute for Basic Biology, Japan)

P22

“A negative feedback loop of Nrarp provides robustness to the somite segmentation clock”

Yasuhide Nitanda (Nara Institute of Science and Technology, Japan)

P23

“Vertex Model for Simulating Mechanics-based Multicellular Dynamics in 3D”

Satoru Okuda (RIKEN Center for Developmental Biology, Japan)

P24

“Invasive Migration Of Drosophila Macrophages During Embryogenesis”

Aparna Ratheesh (The Institute of Science and Technology Austria, Austria)

P25

“Collective migration of epithelial cells induced by left-right asymmetrical cell intercalation”

Katsuhiko Sato (RIKEN Center for Developmental Biology, Japan)

P26

“Filopodia-Mediated Fibrillar Adhesion and Vascular Constriction Facilitate Patterned Deposition of Fibronectin Pillars that Bridge Somites and the Endoderm”

Yuki Sato (Kyushu University, Japan)

P27

“Quantitative Lightsheet Microscopy”

Timothy Saunders (National University of Singapore, Singapore)

P28

“Testicular Development In Relation To Plasma Sex Steroid Dynamics In Male Golden Mahseer, *Tor putitora* (Hamilton, 1822)”

Neetu Shahi (The Directorate of Coldwater Fisheries Research, India)

P29

“Roles of Seven-pass Transmembrane Cadherin Celsr1 in Multi-ciliated Epithelial Cells of the Mouse Oviduct”

Dongbo Shi (National Institute for Basic Biology, Japan)

P30

“Septins control contractile forces during collective cell movement”

Asako Shindo (Nagoya University, Japan)

P31

“Mechanism of Pseud stratified Neuroepithelium maintenance”

Tomoyasu Shinoda (Nagoya University Graduate School of Medicine, Japan)

P32

“Tissue Force Coupling Drives Collective Cell Migration and Large-Scale Tissue Flow in Zebrafish”

Michael Smutny (Institute of Science and Technology Austria, Austria)

P33

“Non-uniform Cell Junctional Tension Governs Anisotropic Apical Constriction of Delaminating *Drosophila* Neuroblasts”

Zijun Sun (Mechanobiology Institute, National University of Singapore, Singapore)

P34

“Periodic Actomyosin Contractility Contributes to Convergence Movements in Zebrafish Neurulation”

Makoto Suzuki (National Institute for Basic Biology, Japan)

P35

“Jigsaw Puzzle Pattern in the Epidermal Cell Wall of Leaves”

Hisako Takigawa-Imamura (Kyushu University, Japan)

P36

“Anisotropic stress orients remodeling of mammalian limb bud ectoderm”

Hirotao Tao (The Hospital for Sick Children, Canada)

P37

“Nectins and Cadherins Cooperatively Regulate Mosaic Cellular Patterning in the Olfactory Epithelium”

Hideru Togashi (Graduate School of Medicine, Kobe University, Japan)

P38

“Stiffness of feeder cells and differentiation”

Kaoru Uesugi (Osaka University, Japan)

P39

“Local Increase In Mechanical Tension Shape Compartment Boundaries By Biasing Cell Intercalations”

Daiki Umetsu (RIKEN Center for Developmental Biology, Japan)

P40

“Cadherin-dependent filopodia control preimplantation embryo compaction.”

Melanie White (European Molecular Biology Laboratory Australia, Australia)

P41

“Dachsous-dependent Polarization of Spiny-legs is Critical for Determining Planar Cell Polarity Orientation in *Drosophila*”

Masakazu Yamazaki (Akita University Graduate School of Medicine, Japan)

P42

“Quantitative analysis of three-dimensional dynamics of epithelial cells in *Drosophila* tracheal invagination”

Maeda Takuya (RIKEN Center for Developmental Biology, Japan)

P43

“Non-proliferative Epithelial Remodeling Is Involved In Tracheal Growth At The Late Developmental Stage”

Keishi Kishimoto (RIKEN Center for Developmental Biology, Japan)

P44

“Spatio-Temporal Evolution of Mechanical Properties of Extracellular Matrix of Hydra Magnipapillata”

Mariam Veschgini (University of Heidelberg, Germany)

P45

“Self-formation of Optic-cup Patterning and Tissue Elasticity”

Nozomu Takata (RIKEN Center for Developmental Biology, Japan)