

Poster Program

- P01 Retrograde Trafficking of Apical Extracellular Matrix Protein Regulates Epithelial Tube Geometry**
Bo Dong (RIKEN Center for Developmental Biology, Japan)
- P02 Lymphocyte Arrest was Induced by the Binding of Active Rap1 to Filamins**
Koko Katagiri (Kitasato University, Japan)
- P03 Multiple Mechanisms Coordinate Hole Size in Basement Membrane during Cell Invasion in *C. elegans***
Shinji Ihara (National Institute of Genetics, Japan)
- P04 siRNA Screening Reveals the Involvement of MAP7 Family in Cell Polarity**
Koji Kikuchi (Kumamoto University, Japan)
- P05 Functional Analysis of Actin-Like Cytoskeletal Protein MamK Associated with Prokaryotic Organelle Magnetosomes**
Azuma Taoka (Kanazawa University, Japan)
- P06 A Secreted Decoy of InR Antagonizes Insulin Signaling to Restrict Body Growth in *Drosophila***
Takashi Nishimura (RIKEN Center for Developmental Biology, Japan)
- P07 Time-Lapse Analyses of Melanosome-Transfer in the Developing Skin**
Ryosuke Tadokoro (Kyoto University, Japan)
- P08 Morphogen Diffusion and Mechanism of Lung Branching Morphogenesis**
Takashi Miura (Kyoto University, Japan)
- P09 Early Life Stress Induces Synaptic Instability and Molecular Changes in Somatosensory Cortex**
Yusuke Takatsuru (Gunma University, Japan)

Program

- P10 Directional Migration and Molecular Dynamics of Fast Crawling Cells in Response to Cyclic Stretching of Substratum**
Yoshiaki Iwadate (Yamaguchi University, Japan)
- P11 Different Cell Motilities Between Uni- and Multi-Cellular States**
Masatsune Tsujioka (Osaka University, Japan)
- P12 Mitotic Cell Rounding Accelerates Invagination of the *Drosophila* Tracheal Placode**
Takefumi Kondo (RIKEN Center for Developmental Biology, Japan)
- P13 Quantification of Tension in Stress Fibers in Semi-Intact Cells**
Shukei Sugita (Nagoya Institute of Technology, Japan)
- P14 Tre1 GPCR Signaling Orients Stem Cell Divisions in the *Drosophila* Central Nervous System**
Shigeki Yoshiura (RIKEN Center for Developmental Biology, Japan)
- P15 Particle Concentration in Microchannel for Cell Sorting by using Multi-Layered Capacitance Measurement Technique**
Nur Tantiyani Ali Othman (Chiba University, Japan)
- P16 Mutant-p53 Drives TGF β -induced Breast Cancer Invasiveness via Generating GEP100-Arf6-AMAP1 Pathway**
Shigeru Hashimoto (Hokkaido University, Japan)
- P17 Regional Difference in GABA_A Receptor Mediated Ca²⁺ Responses of Radially Migrating Neurons in the Mouse Embryonic Neocortex**
Tatsuro Kumada (Hamamatsu University School of Medicine, Japan)
- P18 IKK ϵ Promotes Paracrystalline Actin Bundle Assembly by Protecting Singed/Fascin from PKC-dependent Inhibitory Phosphorylation**
Tetsuhisa Otani (RIKEN Center for Developmental Biology, Japan)
- P19 DOCK8 is a Cdc42 Activator Critical for Interstitial Dendritic Cell Migration during Immune Responses**
Akihiko Nishikimi (Kyushu University, Japan)

- P20 Genetic Dissection of Primordial Germ Cell Migration using *CPSF6/CFIm68* Mutant Medaka (*Oryzias latipes*)**
Takao Sasado (National Institute for Basic Biology, Japan)
- P21 Nuclear Membrane Proteins Act in Transport of the Netrin Receptor, *UNC-5*, in Cell Migration in *C. elegans***
Hon-Song Kim (Kwansei-Gakuin University, Japan)
- P22 Mechanism of Formation of the “Neurula Small Waist” in the Ascidian, *Halocynthia roretzi***
Gaku Kumano (Osaka University, Japan)
- P23 Semaphorin/plexin Interactions in *Trans* and in *Cis* in *C. elegans*: Analysis using IR-LEGO Single-cell Gene Induction System**
Shin Takagi (Nagoya University, Japan)
- P24 Mechanism of Wound Closure by Constriction of the Actomyosin Ring and its Significance**
Shigenobu Yonemura (RIKEN Center for Developmental Biology, Japan)
- P25 Conditional Modulation of Excitation Action of GABA on GnRH Neurons *in Vivo* Causes Impairment of Migration**
Miho Watanabe (Hamamatsu University School of Medicine, Japan)
- P26 Irregularity in Fluctuating Signal is Required for Neuronal Symmetry Breaking**
Yuichi Sakumura (Aichi Prefectural University, Japan)
- P27 Local and Global Inhibitory Cues Define Stereotyped Synaptic Tiling in *C. elegans***
Kota Mizumoto (Stanford University, USA)
- P28 Computer-aided Measurement and Analysis of Cell Dynamics from Three-dimensional Time-lapse Video Microscopy of *Drosophila* Tracheal Invagination**
Takuya Maeda (RIKEN Center for Developmental Biology, Japan)

- P29 Cortical Excitatory Neurons become Protected from Cell Division during Neurogenesis in an Rb Family-Dependent Manner**
Itsuki Ajioka (Tokyo Medical and Dental University, Japan)
- P30 Cell-Based Mechanisms behind Angiogenic Morphogenesis**
Koichi Nishiyama (The University of Tokyo, Japan)
- P31 HTZ-1/H2A.z Maintains Cell Fates through Transcriptional Repression in an H3K27me-independent Manner**
Yukimasa Shibata (Kwansei Gakuin University, Japan)
- P32 The Cellular Cross-talks for the Germ Cell Specification in the Ascidian, *Ciona intestinalis***
Maki Shirae-Kurabayashi (Hiroshima University, Japan)
- P33 Prickle and Spiny-legs Ratio Determines the Orientation of Cellular Asymmetry Relative to the Dachsous and Four-jointed Gradients**
Masakazu Yamazaki (Akita University, Japan)
- P34 Neuronal Migration and Layer Formation in the Developing Cerebral Cortex**
Kazunori Nakajima (Keio University, Japan)
- P35 GFAP-expressing Distinctive Primary Stem Cell-like Progenitors Migrate and Form New Neurogenic Zone during Development of the Hippocampus**
Tatsunori Seki (Tokyo Medical University, Japan)
- P36 Morphometric Analysis of Tracheal Placode Invagination**
Kagayaki Kato (RIKEN Center for Developmental Biology, Japan)
- P37 Large Scale Monitoring of the Cellular Component at /near the Apical Surface of Mouse Developing Neocortex**
Tomoyasu Shinoda (Nagoya University, Japan)

- P38 Interkinetic Nuclear Migration based on Neuroepithelial-cell Elongation Ensures Brain Histogenesis through 'Crowd Control'**
Mayumi Okamoto (Nagoya University, Japan)
- P39 Nectins Regulate the Mosaic Cellular Pattern Formation in the Olfactory Epithelium**
Sayaka Katsunuma (Kobe University, Japan)
- P40 Analysis of Cell Movement in the Multicellular Tissue of *Dictyostelium discoideum* by 4D Live-imaging**
Toru Uchikawa (Osaka University, Japan)
- P41 The Neural Plate Cells can be Transformed to Bordering Epithelium of the Neural Plate**
Yasuyo Shigetani (The Jikei University School of Medicine, Japan)
- P42 The Actin-Myosin Catch Bond Assists Myosin Aggregation in a Random Actomyosin Network**
Yasuhiro Inoue (Kyoto University, Japan)
- P43 Cellular Dynamics of Collective Cell Movement during the Looping Morphogenesis of *Drosophila* Male Terminalia**
Erina Kuranaga (RIKEN Center for Developmental Biology, Japan)
- P44 Analysis of Traveling-wave Chemotaxis using a Microfluidic System**
Akihiko Nakajima (The University of Tokyo, Japan)
- P45 Single-Molecule Imaging Reveals Dynamics of CREB Transcription Factor in Living Cells**
Noriyuki Sugo (Osaka University, Japan)
- P46 The Role of Intracellular Calcium Signaling in Apical Constriction during *Xenopus* Neural Tube Closure**
Makoto Suzuki (National Institute for Basic Biology, Japan)
- P47 ErbB Signaling Regulates Generation of Neurons during Development of the Optic Tectum in Zebrafish**
Tomomi Sato (Kyoto University, Japan)

- P48 Zebrafish Pigment Patterning by Local Cell Interactions**
Hiroaki Yamanaka (Osaka University, Japan)
- P49 The Role of Receptor Phosphorylation in cAMP-induced cAMP Responses in *Dictyostelium discoideum***
Daisuke Imoto (The University of Tokyo, Japan)
- P50 Interactive Platform of Organ and Cells using Perfusion Preservation System**
Hiromichi Obara (Tokyo Metropolitan University, Japan)
- P51 Regulation of *orthodenticle* and Wnt/Cad Signaling Pathway in Anterior-Posterior Axis Patterning during Cricket Early Embryogenesis**
Taro Nakamura (Tokushima University, Japan)
- P52 RP58 Regulates the Multipolar-Bipolar Transition of Newborn Neurons in the Developing Cerebral Cortex**
Chiaki Ohtaka-Maruyama (Tokyo Metropolitan Institute of Medical Science, Japan)
- P53 Analysis of Tooth Germ Epithelium Morphogenesis by Four-dimensional Cell Tracking as a Quantitative Kinetic Analysis System**
Ritsuko Morita (Tokyo University of Science, Japan)
- P54 Real-time Cellular Imaging of T Lymphocyte Accumulation in a Mouse Asthma Model**
Akihiro Hasegawa (Yamaguchi University, Japan)
- P55 Theoretical Model for Cell Migration with Gradient Sensing and Shape Deformation**
Tatsuo Shibata (RIKEN Center for Developmental Biology, Japan)
- P56 PCP Components Interact with β -catenin Asymmetry Pathway to Regulate Asymmetric TCF Localization in the *C. elegans* Somatic Gonad**
Hitoshi Sawa (National Institute of Genetics, Japan)

- P57 Engineering Approach for the Analysis of Stress and Strain in *Xenopus Laevis* Embryo**
Takeo Matsumoto (Nagoya Institute of Technology, Japan)
- P58 A Mathematical Model of Cleavage**
Masakazu Akiyama (Hokkaido University, Japan)
- P59 On the Roles of Actin Stress Fibers on the Mechanical Environment of Nucleus in Adherent Cells**
Kazuaki Nagayama (Nagoya Institute of Technology, Japan)
- P60 Regulation of Paraxial Protocadherin by a Ubiquitin System during *Xenopus* early Development**
Noriyuki Kinoshita (National Institute for Basic Biology, Japan)
- P61 Non-autonomous Tissue Growth Regulation by Mitochondrial Dysfunction in *Drosophila***
Shizue Ohsawa (Kobe University, Japan)
- P62 Epidermal Wnt/ β -catenin Signalling Promotes Dermal Adipocyte Differentiation during Hair Follicle Morphogenesis and Adult Hair Regeneration**
Hironobu Fujiwara (RIKEN Center for Developmental Biology, Japan)
- P63 Cell Population-level Mechanical Control of Hexagonal Cell Packing**
Kaoru Sugimura (Kyoto University, Japan)
- P64 Role of Somitic Protrusions in the Collective Morphogenesis of Paraxial Tissues**
Yuki Sato (Kumamoto University, Japan)
- P65 Cohorts of PCs that Share the Same Birthdate Communicate Each Other and Form Individual Compartments in the Cerebellum**
Mitsuhiro Hashimoto (Nagoya University, Japan)
- P66 Dynamical Macro Structures Formed by a Group of Cells in Motile Cyanobacteria**
Atsuko Takamatsu (Waseda University, Japan)

Program

- P67 MRE32 RNA is Essential for Mushroom Body Morphogenesis in *Drosophila* Adult Brain**
Sachi Inagaki (Kobe University, Japan)
- P68 Quantification and Visualization of SHH Signaling Activity in the Developing Chick Limb Bud**
Takayuki Suzuki (Nagoya University, Japan)
- P69 Development of the Photoactivatable Ca²⁺ Indicator to Visualize Biological Events in Single Arbitrary Cells**
Tomoki Matsuda (The Institute of Scientific and Industrial Research, Osaka University, Japan)