

## Poster Listing

- P01-A A high-efficient reprogramming method of human somatic cells by Sendai viruses**  
Chiaki Akifuji (Center for iPS Cell Reserach and Application, Kyoto University, Japan)
- P02-A Biological significance of the osillatory dynamics of NF- $\kappa$ B for target gene expression**  
Minami Ando (Institute for Protein Research, Osaka University, Japan)
- P03-B Reverse-engineering of mechano-chemical epithelial sheet dynamics**  
Yoshifumi Asakura (Kyoto University, Japan)
- P04-B Establishment of Integration-free porcine induced neural stem cells by using sendai virus for brain organoids generation**  
Warunya Chakritbudsabong (Faculty of Veterinary Science, Mahidol University, Thailand)
- P05-A Elucidating the role of LHX2-PAX6-DACH1 axis in early human cerebellar corticogenesis using human ESC-derived 2D neural culture and 3D cortical organoids**  
Ching-Yu Chuang (Genomics Research Center, Academia Sinica, Taiwan)
- P06-A New insights on acentrosomal spindle formation from the mouse oocyte**  
Aurélien Courtois (RIKEN Center for Biosystems Dynamics Research, Japan)
- P07-B *In vivo* imaging of cancer microenvironment using fiber-bundle based micro-endoscope**  
Sally Danno (RIKEN Center for Biosystems Dynamics Research, Japan)
- P08-B Evolutionary designed mechanical networks as model systems of complex protein machinery**  
Holger Flechsig (Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, Japan)

- P09-A Toward predicting gene expression and metabolism from label free spectral imaging**  
Arno Germond (RIKEN Center for Biosystems Dynamics Research, Japan)
- P10-A Integrative platform to control and sensing microenvironment for 3D tissue reconstruction**  
Masaya Hagiwara (Osaka Prefecture University, Japan)
- P11-B Mechanical functions of eggshell in *C. elegans* development**  
Akiko Hatakeyama (RIKEN Center for Biosystems Dynamics Research, Japan)
- P12-B Noise-resistant developmental reproducibility in vertebrate somite formation**  
Naoki Honda (Kyoto University, Japan)
- P13-A Generating force in living cells at will**  
Takanari Inoue (Johns Hopkins University, USA)
- P14-A Topological transitions of epithelial surfaces**  
Keisuke Ishihara (Max Planck Institute for the Physics of Complex Systems, Germany)
- P15-B Ovol1 influences the determination and expansion of iPSC reprogramming intermediates**  
Harunobu Kagawa (Center for iPS Cell Research and Application (CiRA), Kyoto University, Japan)
- P16-B Histone tail dynamics in partially disassembled nucleosomes during chromatin remodeling**  
Takeru Kameda (Department of Mathematical and Life Sciences, Hiroshima University, Japan)
- P17-A Constructing stable 3-D cellular assembly by laser in the presence of crowding polymer without artificial scaffold**  
Takahiro Kenmotsu (Doshisha University, Japan)

- P18-A CRISPR/Cas9-mediated in vivo genome editing of *Rpe65* in a mouse model of Leber congenital amaurosis**  
Jeong Hun Kim (Seoul National University College of Medicine, South Korea)
- P19-B Long-term effects of intravitreal injection of adeno-associated virus encoding *Campylobacter jejuni* Cas9**  
Jin Hyoung Kim (Seoul National University Hospital, South Korea)
- P20-B Induced 2C expression and implantation-competent blastocyst-like cysts from primed pluripotent stem cells**  
Cody Kime (RIKEN Center for Biosystems Dynamics Research, Japan)
- P21-A A transcription factor facilitates ORC binding onto the *Saccharomyces cerevisiae* replication origin via histone acetylation**  
Hidetsugu Kohzaki (Shumei University, Japan)
- P22-A Artificial symmetry breaking: reconstruction of cell polarity in non-polar cells.**  
Kalyn Kono (RIKEN Center for Biosystems Dynamics Research, Japan)
- P23-B Single-cell frequency response of intracellular signal transduction based on live-cell active sensing and nonlinear system identification**  
Katsuyuki Kunida (Nara Institute of Science and Technology, Japan)
- P24-B SSBD: a database for sharing and reusing microscopy image and quantitative data of biological dynamics**  
Koji Kyoda (RIKEN Center for Biosystems Dynamics Research, Japan)
- P25-A Active compounds of *Moringa Oleifera* may intervene the cellular biosystem through inhibition of pro-inflammatory cytokine production in diabetes mouse model**  
Noviana Dwi Lestari (Brawijaya University, Indonesia)
- P26-A STED nanoscopy of the centrosome linker reveals a CEP68-organized, periodic rootletin network anchored to a C-Nap1 ring at centrioles**  
Xue Li (Zentrum für Molekulare Biologie der Universität Heidelberg (ZMBH), University Heidelberg, Germany)

- P27-B Droplet-based magnetic ratcheting system of sorting productive cells**  
Hiromi Miwa (University of California Los Angeles, USA)
- P28-B The role of MEX-5/6 on PAR polarity formation of asymmetric cell division**  
Tomohiro Nakahara (Hiroshima University, Japan)
- P29-A Cholinergic regulation of sleep-wake states in mice**  
Yasutaka Niwa (University of Tsukuba, IIS, Japan)
- P30-A The relationship between DNA methylation dynamics and cardiomyocyte-specific epigenetic domain formation in cardiomyocyte maturation**  
Mayumi Oda (Keio University School of Medicine, Japan)
- P31-B Generation of bladder organoids from human iPS cells**  
Kazuhiro Ofuji (RIKEN Center for Biosystems Dynamics Research, Japan)
- P32-B The zoolankton *Oikopleura dioica* from the point of view of systems biology**  
Charles Plessy (OIST, Japan)
- P33-A Intervening the dynamic system by synergistic multi-active compounds to decelerate safe aging process**  
Sapti Puspitarini (Brawijaya University, Indonesia)
- P34-A Differentiation of pig induced pluripotent stem cells into definitive endoderm and intestinal epithelial cells**  
Sasitorn Rungarunlert (Faculty of Veterinary Science, Mahidol University, Thailand)
- P35-B Role of dynamic nuclear deformation on genomic architecture reorganization**  
Sungrim Seirin-Lee (Hiroshima University, Japan)
- P36-B Control of transcriptional regulatory network facilitates direct cell reprogramming**  
Takahiro Suzuki (RIKEN Center for Integrative Medical Sciences, Japan)

- P37-A Epithelial deformations upon optogenetic control of apical constriction *in vitro***  
Núria Taberner (EMBL Barcelona, Spain)
- P38-A Tensor decomposition based unsupervised feature extraction applied to bioinformatics**  
Y-h. Taguchi (Chuo University, Japan)
- P39-B Engineering *Escherichia coli*  $\beta$ -lactamase TEM-1 variants more active under acidic conditions than at the neutral pH**  
Mihoko Takahashi (RIKEN Center for Biosystems Dynamics Research, Japan)
- P40-B Essential function of somatic cell-derived Wnt signaling in primordial follicle activation and fertility in female mice**  
Hinako M Takase (RIKEN Center for Biosystems Dynamics Research, Japan)
- P41-A Selective elimination of karyoplast mitochondrial DNA by mitophagy after mitochondrial replacement?**  
Yuko Takeda (Wellcome Centre for Mitochondrial Research, Newcastle University, UK)
- P42-A Non-contact assessment for physical and chemical properties on biosystems**  
Nobuyuki Tanaka (RIKEN Center for Biosystems Dynamics Research, Japan)
- P43-B The technological development of inducing the gene-specific DNA demethylation using the DNA-binding domain of transcription factor**  
Yuki Tanaka (RIKEN Center for Integrative Medical Sciences, Japan)
- P44-B *In vitro* reconstitution of Wolffian duct using human pluripotent stem cells**  
Junichi Taniguchi (RIKEN Center for Biosystems Dynamics Research, Japan)
- P45-A Precursor state of polarity in single epithelial cells**  
Chiao-Yu Tseng (Academia Sinica, Taipei)
- P46-A Construction of a self-replicable long RNA with two different genes in an artificial cell-like system**  
Kensuke Ueda (Graduate School of Information Science and Technology, Osaka University, Japan)

**P47-B Transcription driven phase separation in chromatin brush**

Tetsuya Yamamoto (Nagoya University, Japan)

**P48-B A role of hydroxyproline in cancer-induced organismal death in *Drosophila melanogaster***

Lynna Yang (RIKEN Center for Biosystems Dynamics Research, Japan)

**P49-A Elucidation of core processes involved in 3D spheroid/organoid formation of diverse stem cells and somatic cells**

B. Linju Yen (National Health Research Institutes, Taiwan)

**P50-A Mechanism of acentrosomal spindle bipolarization in mouse oocytes**

Shuhei Yoshida (RIKEN Center for Biosystems Dynamics Research, Japan)

**P51-B Single-cell transcriptome approach to investigate the mechanism of specifying mesoderm lineages using human iPSCs**

Wei Zhao (RIKEN Center for Biosystems Dynamics Research, Japan)