P-01	Exploration of novel kinesin-targeted anticancer drugs using yeast-based
	platform

Fara Difka Afdilla (Hiroshima University, Japan)

# P-02 Redesigning Human Intelligence: A Pharmacological and Computational Approach to Evolving Human Cortical Organoids

Hiroto Akuta (Hiroshima University, Japan)

#### P-03 Generation of natural and synthetic hypo-immunogenic human iPS cells

Jonathan Arias (VU EMBL partnership institute for gene editing technologies, Lithuania)

### P-04 ERRγ as a Metabolic Gene in the Specification of Acid-Pumping Gastric Cells

Sumimasa Arimura (Baylor College of Medicine, USA)

#### P-05 Artificial kinetochore beads establish a biorientation-like state in the spindle

Kohei Asai (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-06 Generating patient-derived lung normal and tumour organoids from different cells of origin and with different mutational background

VIttorio Barbe (The Francis Crick Institute, UK)

#### P-07 A many-species view of genomic architecture reveals general rules

Rory Thomas Cerbus (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-08 Directing the cellular and molecular mechanisms of inflammation to drive heart

regeneration in adult zebrafish

Shuk Han Cheng (City University of Hong Kong, Hong Kong)

#### P-09 WITHDRAWN

### P-10 Systemic aberrant sympathetic neurogenesis driven by Schwann cell precursors

and its role in neurocristopathy

Hideki Enomoto (Kobe University Graduate School of Medicine, Japan)

### P-11 Transient reprogramming induces DNA methylation age reduction in human

fibroblasts

Qi Fang (Center for iPS Cell Research and Application (CiRA), Kyoto University, Japan)

#### P-12 Radiation-induced stem cell competition in intestinal organoids

Yuki Fujimichi (Central Research Institute of Electric Power Industry (CRIEPI), Japan)

P-13	Compensatory mechanism under choline deficiency in Drosophila melanogaster
	Yuka Fujita (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-14 Gene-scale *in vitro* reconstitution reveals direct control of chromatin architecture by histone acetylation patterns

Yohsuke Fukai (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-15 Mathematical modeling of yolk granule motion in early *Drosophila* embryos Motohiro Fujiwara (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-16 Generation of bladder organoids from adult mouse urothelium

Mizuki Fukuda (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-17 Dietary Availability Acutely Influences Puberty Onset via a Hypothalamic Neural Circuit

Teppei Goto (RIKEN Center for Biosystems Dynamics Research, Japan)

#### P-18 Assessment of clonal variations in mitochondrial DNA of human iPSCs

Karen Kai-Lin Hwang (Kyoto University, Japan)

#### P-19 Mechanism of nuclear condensate miscibility

Shoma Inoue (The University of Tokyo, Japan)

### P-20 Systemic aberrant sympathetic neurogenesis driven by Schwann cell precursors and its role in neurocristopathy

Keisuke Ito (Kobe University, Japan)

#### P-21 SSBD: Global sharing of bioimaging data

Hiroya Itoga (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-22 Cdh2 as a Hes7 downstream target regulates presomitic mesodermal cell differentiation by supporting FGF signaling

Xueqi Jia (RIKEN Center for Brain Sciences, Japan)

#### P-23 Phase transition in colocalization of multiple Brownian particles

Takahiro Kanazawa (The University of Tokyo / RIKEN Center for Biosystems Dynamics Research, Japan)

P-24	Post-blood meal amino acid metabolism for egg maturation in the yellow fever
	mosquito, <i>Aedes aegypti</i>

Yusuke Kato (RIKEN Center for Biosystems Dynamics Research, Japan)

# P-25 Multiple Sources of Wnt Secretion Cooperatively Regulate Sensory Cell Specification and Organization during Cochlear Development Ippei Kishimoto (Stanford University, USA)

### P-26 Function and regulatory mechanism of organismal homeostasis by dietary zinc restriction

Souto Kitazawa (RIKEN Center for Biosystems Dynamics Research, Japan)

# P-27 The transcription factor Chronophage/BCL11A/B promotes intestinal stem cell proliferation and endocrine differentiation

Jerome Korzelius (University of Kent, UK)

#### P-28 Syrian hamster pluripotent stem cells for kidney organoid induction

Dat Dien Le (RIKEN Center for Biosystems Dynamics Research, Japan)

#### P-29 SKIP

### P-30 Basement membrane components construct tissue environment to maintain hair follicle niche fibroblasts as mesenchymal aggregates

Hiroki Machida (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-31 Prediction of cell fates during embryogenesis based on geometry and topology Sangwon Lee (The University of Tokyo, Japan)

# P-32 Mitochondrial dynamics in gastrulation: Insights into morphogenesis and disease Somya Madan (Indian Institute of Science Education and Research (IISER) Pune, India)

### P-33 Functional analysis of asynchronous Hes1 oscillations in the neural tube formation

Yuki Maeda (RIKEN Center for Brain Science, Japan)

### P-34 Decoding Hes1 oscillations in proliferating neural stem cells during embryonic neurogenesis

Taimu Masaki (RIKEN Center for Brain Sciences, Japan)

P-35	Dynamic cell proliferation control coupled with intestinal stem cell differentiation
	Shuji Matsuguchi (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-36 Dopamine and Acetylcholine dynamics regulate sequential transitions in male sexual behaviors

Ai Miyasaka (University of Tsukuba, Japan)

#### P-37 A model for periodic patterning of tracheal cartilage rings

Masahito Mori (The University of Tokyo, Japan)

#### P-38 The Signaling Buffering System that Ensures Lifelong Maintenance of Intestinal

#### (S6-2) Stem Cells

May Nakajima-Koyama (Center for iPS Cell Research and Application (CiRA), Kyoto University, Japan)

### P-39 Self-organized periodic patterning driven by Wnt-responding chondrocytes Shogo Nakayama (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-40 Quantitative characterization of torpor-associated behaviors in mice Akinobu Ohba (Nagoya University Graduate School of Medicine, Japan)

### P-41 Investigation of the Mechanism of Maintaining Amino Acid Homeostasis by Excretion in *Drosophila*

Ayano Oi (RIKEN Center for Biosystems Dynamics Research, Japan)

#### P-42 WITHDRAWN

## P-43 EMS mutagenesis screen to explore mechanisms of the newly identified cell death, erebosis in the Drosophila midgut

Rahul Parit (RIKEN Center for Biosystems Dynamics Research, Japan)

#### P-44 ECM as a driver and responder of tissue aging

Eleanor Sheekey (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-45 Transcriptomic Cell Type Atlas in the Thermoregulatory Brain Centers of Syrian Hamsters, a Hibernation Model

Haruaki Sato (RIKEN Center for Biosystems Dynamics Research, Japan)

#### P-46 Does Sleep Arise from the Trajectory of Neuronal States?

(S1-4) Shoi Shi (University of Tsukuba, Japan)

### P-47 Comparison of patient tissue- to pluripotent stem cell-derived epithelial organoids

Noah Shroyer (Cincinnati Children's Hospital, USA)

### P-48 Large Scale Generation of Luminogenic Functional Intestinal Spheroids in Microcapsules Using Droplet-Microfluidics

Pooja Shukla (The University of Tokyo, Japan)

#### P-49 Interactive training-based AI image analysis tool for 3D cell tracking

Ko Sugawara (RIKEN Center for Biosystems Dynamics Research, Japan)

## P-50 Tubular Structure Formation of Bovine Uterine Glands under 3D *In Vitro* Culture Systems

Yosuke Sugino (Okayama University, Japan)

### P-51 Harnessing endogenous stem cells for tissue regeneration in congenital organ deficits

Mukhamad Sunardi (Kobe University Graduate School of Medicine, Japan)

### P-52 Single-cell CRISPR-activation screen identifies hepatic maturation regulators with zonal resolution

Atsuhiro Taguchi (Chiba University Graduate School of Medicine, Japan)

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# P-54 Learning of maternal behaviors facilitated by a frontal cortical circuit to dopamine system

Gen-ichi Tasaka (RIKEN Center for Biosystems Dynamics Research, Japan)

# P-55 Stereochemistry of lysophospholipid diastereomers determines growth cone attraction and repulsion mediated by GPR55 in a potential biased agonism mechanism

Yuji Tatsumi (Kyoto University Graduate School of Biostudies, Japan)

## P-56 Transcriptomic Landscape of Microglia in Mouse Models of Social Dysfunction and Oxytocin-Mediated Recovery

Masafumi Tsurutani (RIKEN Center for Biosystems Dynamics Research, Japan)

P-57	Emergent Tissue Morphogenesis in Limb Development: A Synergy of 2.5D, 3D
	Cultures and Mathematical Modeling

Rio Tsutsumi (Kyoto University, Japan)

#### P-58 Brainstem Neurons Orchestrating Multiple Thermogenic Pathways

Shuntaro Uchida (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-59 Canonical WNT signaling is the major factor of prostate progenitor differentiation in embryonic prostate development

Wataru Uno (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-60 Development and applications of FMODB: a quantum chemical database for biomolecular interactions

Chiduru Watanabe (RIKEN Center for Biosystems Dynamics Research, Japan)

# P-61 Neurotensin-expressing Sympathetic Preganglionic Neurons Delineate Specific Sympathetic Outflow Regulating Kidney and White Adipose Tissue

Serika Yamada (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-62 Optogenetic actin network assembly on lipid bilayer uncovers the network density-dependent functions of actin-binding proteins

Kei Yamamoto (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-63 Timely spindle bipolarization suppresses incorrect kinetochore-microtubule attachment during meiosis I in mouse oocyte

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

## P-64 Spatiotemporal measurement of pericyte-endothelium interaction and vascular morphogenesis dynamics via microvessel-on-a-chip platform

Hedele Zeng (Institute of Industrial Science, The University of Tokyo, Japan)

### P-65 Designing protein-based artificial kinetochores as microtubule decoys to prevent meiotic errors

Yuanzhuo Zhou (RIKEN Center for Biosystems Dynamics Research, Japan)

### P-66 Establishment of a hiPSC-derived liver-on-a-chip for personalized drug metabolism studies

Isabel Tamargo-Rubio (University Medical Center Groningen, The Netherlands)