

Tokyo 2018
Cell and Developmental Biology Meeting

第70回日本細胞生物学会 第51回日本発生生物学会 合同大会
Joint Annual Meeting of JSDB 51st and JSCB 70th
Cosponsored by the Asia Pacific Developmental Biology Network

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Tokyo 2018

Cell and Developmental Biology Meeting

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Joint Annual Meeting of JSDB 51st and JSCB 70th

Cosponsored by the Asia Pacific Developmental Biology Network

2018. 6. 5 (Tue) ~ 8 (Fri)

Tower Hall Funabori, Tokyo

タワーホール船堀 (東京都江戸川区)

Organizers Akihiro Harada (Osaka Univ)
Shigeo Hayashi (RIKEN CDB)

Program Book

Special Lectures

Yoshinori Ohsumi (Tokyo Institute of Technology)

2016 Nobel Prize in Physiology or Medicine

Plenary Lectures

Pietro De Camilli (Yale University, USA)

Dennis Discher (University of Pennsylvania, USA)

Thomas Lecuit (IBDM, France)

Clifford Tabin (Harvard Medical School, USA)



<https://confit.atlas.jp/jsdbjsdb2018>

Welcome to the Joint Annual Meeting of 70th JSCB and 51st JSDB in Tokyo !

Dear colleagues,

Welcome to the Joint Annual Meeting of 70th JSCB and 51st JSDB co-sponsored by Asia-Pacific Developmental Biology Network to be held on June 5-8 at the Funabori Tower Hall, Tokyo, JAPAN, 2018. This is the fourth joint meeting between these societies and held for the first time in six years since the last joint meeting. Many members of both societies might have been looking forward to attending this joint meeting.

For the Joint Annual Meeting, distinguished speakers have been invited from the United States, Europe, and Asia, and will describe recent exciting developments covering the topics of cell and developmental biology. In particular, Prof. Yoshinori Ohsumi, the Nobel Laureate for his discovery of autophagy in 2016 and a longstanding contributor of JSCB, will give a special lecture for this meeting.

Besides the talks from invited speakers, our program has richer contents than usual meetings, which include Young Scientist Award, Poster Awards, and the joint mixer of young scientists of JSDB and JSCB on June 5. We expect this meeting will provide you with the opportunity to meet and interact with the leading scientists and researchers from different fields, as well as friends, colleagues, and exhibitors.

On behalf of the Organizing Committee, we sincerely hope that this joint meeting will enhance creative interaction among cell biologists and developmental biologists to open the new era of exciting biology.

With best wishes,

Akihiro Harada
Department of Cell Biology,
Graduate School of Medicine,
Osaka University

Shigeo Hayashi
Laboratory for Morphogenetic Signaling,
RIKEN Center for Biosystems Dynamics
Research

Conference Chairs of the Joint Annual Meeting

Organizing Committee

JSCB Chairperson:	
Akihiro Harada	Osaka University
Members:	
Shigenobu Yonemura	Tokushima University, RIKEN Center for Biosystems Dynamics Research
Miho Ohsugi	University of Tokyo
Yoshihiro Yoneda	National Institute of Biomedical Innovation
Eisuke Mekada	Osaka University
Atsushi Kumanogoh	Osaka University
Yoshinori Ohsumi	Tokyo Institute of Technology

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Mikiko Tanaka	Tokyo Institute of Technology
Hiroshi Hamada	RIKEN Center for Biosystems Dynamics Research
Hideyuki Okano	Keio University
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Kwan-Wok Choi	Korea Advanced Institute of Science and Technology, Korea
Jeff Shyh Jye Lee	National Taiwan University, Taiwan
Bo Gao	Hong Kong University, Hong Kong
Mahendra Sonawane	Tata Institute of Fundamental Research, India
Jun-An Chen	Institute of Molecular Biology, Academia Sinica, Taiwan

Poster Sessions

P1-001 ~ P1-174 are Poster Award candidate.

Discussion 1: June 6 (Wed) 14:00-15:00 for odd number posters
15:00-16:00 for even number posters

- P1-001** *Protogenin* regulates *Homeobox* gene expression in P19 cells through the Wnt signaling
○Yu-Sheng Hung¹, Wei-Chih Kuo¹, Chieh-Yu Chen², Wei-Yi Chen², Jenn-Yah Yu¹, Ming-Ji Fann¹ (Department of Life Sciences and Institute of Genome Sciences, National Yang-Ming University, Taipei 112, Taiwan¹, Institute of Biochemistry and Molecular Biology, National Yang-Ming University, Taipei 112, Taiwan²)
- P1-002** Analysis of target genomic regions of DNA methyltransferase3aa (Dnmt3aa) in zebrafish
○Masaki Shirai¹, Kazuya Takayama¹, Ikumi Taya¹, Nobuyoshi Shimoda², Yutaka Kikuchi¹ (Department of Biological Science, Graduate School of Science, Hiroshima University¹, Department of Regenerative Medicine, National Institute for Longevity Sciences, National Center for Geriatrics and Gerontology²)
- P1-003** Targeted *in vivo* epigenome editing of H3K27me3
○Hiroto S Fukushima, Hiroyuki Takeda, Ryohei Nakamura (University of Tokyo)
- P1-004** Regulation of a pan-neural *Sox2* enhancer D1
○Hideaki Iida¹, Masanori Uchikawa², Hisato Kondoh¹ (Department of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo University¹, Graduate School of Frontier Biosciences, Osaka University²)
- P1-005** **The role of nucleoporin NUP58 during division**
○Hartono Hartono¹, Masaharu Hazawa^{1,3}, Firli Rahmah Primula Dewi¹, Akiko Kobayashi¹, Mahmoud Shaaban Mohamed¹, Richard W. Wong^{1,2,3} (Laboratory of Molecular Cell Biology, Division of Natural System, Graduate School of Natural Science and Technology (NST), Kanazawa University, Japan.¹, WPI Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, Kanazawa, Ishikawa, Japan.², Cell-Bionomics Research Unit, Innovative Integrated Bio-Research Core, Institute for

Frontier Science Initiative, Kanazawa University, Kanazawa, Ishikawa, Japan.³⁾

P1-006

An oncogenic role of Tpr in Ependymoma

○Firli Rahmah Primula Dewi¹, S Jiapaer², M Hazawa^{3,1,4}, H Sabit², A Kobayashi¹, H Hartono¹, M Nakada², R Wong^{1,3,4} (Division of Natural System, Institute of Natural Science and Technology, Kanazawa University, Japan¹, Department of Neurosurgery, Graduate School of Medical Science, Kanazawa University², Cell-Bionomics Research Unit, Institute for Frontier Science Initiative, Kanazawa University, Japan.³, World Premiere Institute (WPI)- NanoLSI, Kanazawa University, Japan.⁴)

P1-007

Unique and cooperative limb specific enhancers regulate *Fgf10* expression

○Tomohiro Takenaka¹, Chisa Andoh¹, Yo-ichi Shiraishi¹, Shiori Yamamoto¹, Tatsuya Takemoto², Shinichi Hayashi², Reiko Ajima³, Yumiko Saga³, Atsushi Kuroiwa¹ (Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ¹, IAMS, Tokushima Univ², Division of Mammalian Development, National Institute of Genetics³)

P1-008

A genetic screen of X-chromosomal genes that are required for the left-right asymmetric development of *Drosophila* embryonic gut.

○Chinami Maeda (Student in Osaka University)

P1-009

A genetic screen based on a mirror-image mutant condition in *Drosophila* to identify genes required for the formation of default left-right asymmetry

○Yukako Inoue, Takeshi Sasamura, Mikiko Inaki, Kenji Matsuno (Osaka University)

**P1-010
(YSA-10)**

Octopamine - Matrix metalloproteinase signaling regulates germline stem cell proliferation in female *Drosophila melanogaster*

○Yuto Yoshinari¹, Tomotsune Ameku¹, Shu Kondo², Yuko Shimada-Niwa³, Hiromu Tanimoto⁴, Ryusuke Niwa^{5,6} (Graduate School of Life and Environmental Sciences, University of Tsukuba, Japan¹, Genetic Strains Research Center, National Institute of Genetics, Japan², Life Science Center of Tsukuba Advanced Research Alliance, University of Tsukuba, Japan³, Graduate School of Life Sciences, Tohoku university, Japan⁴, Faculty of Life and Environmental Sciences, University of Tsukuba, Japan⁵, PRESTO, Japan Science and Technology Agency, Japan⁶)

- P1-011
(WS11-07)** Impact of temperature conditions on mouse spermatogenesis revealed by testicular organ culture
○Kodai Hirano^{1,2}, Yuta Nonami^{1,2}, Yoshiaki Nakamura^{1,2}, Takuya Sato^{3,4}, Takehiko Ogawa^{3,4}, Shosei Yoshida^{1,2} (Division of Germ Cell Biology, National Institute for Basic Biology, National Institutes of Natural Sciences¹, Department of Basic Biology, School of Life Science, Graduate University for Advanced Studies (SOKENDAI)², Laboratory of Proteomics, Institute of Molecular Medicine and Life Science, Yokohama City University Association of Medical Science³, Department of Urology, Yokohama City University Graduate School of Medicine⁴)
- P1-012** CDK-dependent nuclear accumulation of Alp7/TACC promotes the assembly of the radial array of microtubules in meiosis I.
○Yutaka Shirasugi, Masamitsu Sato (Dept. of Life Sci. and Med. Bio-Sci., Sch. of Adv. Sci. & Eng., Waseda Univ.)
- P1-013** DRC7 is a conserved component of dynein regulatory complex and required for sperm flagellum formation and male fertility in mice
○Akane Morohoshi^{1,2}, Haruhiko Miyata², Keisuke Shimada², Kaori Nozawa², Takafumi Matsumura^{2,3}, Masahito Ikawa^{1,2,3} (Graduate School of Medicine, Osaka University, Osaka, Japan¹, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan², Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan³)
- P1-014
(SWS-03)** Decision mechanism for the second polar body in mouse oocytes
○Takaya Totsuka¹, Miho Ohsugi^{1,2} (Department of Biological Sciences, Graduate school of Science, The University of Tokyo¹, Department of Life and Cognitive Sciences, College of Arts and Science, The University of Tokyo²)
- P1-015** Analysis of granulosa cell progenitor differentiation during primordial follicle formation in mice
○Kurumi Fukuda¹, Yuzuru Kato^{1,2}, Yumiko Saga^{1,2} (The Graduate University for Advanced Studies (SOKENDAI), School of Life Science, Department of Genetics, Division of Mammalian Development¹, National Institute of Genetics²)
- P1-016
(WS11-03)** To explore the feminizing genes mediated by SMAD4 in germ cell
○Ryuki Shimada, Yumiko Saga (Division of Mammalian Development, NIG)

- P1-017** Structural association between mouse NANOS and DND1 RNA binding proteins
 ○Danelle Wright^{1,2}, Yumiko Saga^{1,2} (SOKENDAI¹, Natl. Inst. of Genetics²)
- P1-018 (YSA-01)** Insulin promotes tumorigenesis by abrogating cell competition
 ○Yuya Sanaki, Daisuke Kizawa, Tatsushi Igaki (Kyoto Univ.)
- P1-019** Prox1 controls the timing of cell cycle exit of cerebellar granule cell precursors through the mitosis-dependent suppression of a cell cycle related gene.
 ○Satoshi Miyashita¹, Yusuke Seto², Tomoo Owa¹, Shinichiro Taya¹, Yoshiya Kawaguchi², Mikio Hoshino¹ (National Center of Neurology and Psychiatry¹, Univ. of Kyoto²)
- P1-020** Nuclear transport system caused by disease-specific Karyopherin alternation
 ○Kie Sakai¹, Mazaharu Hazawa^{1,2,3}, Akiko Kobayashi², Richard Wong^{1,2,3} (Cell-Bionomics Unit, Innovative Integrated Bio research Core, Institute for Frontier Science Initiative, Kanazawa University, Ishikawa, Japan¹, Laboratory of Molecular Cell Biology, School of Natural System, Institute of Science and Engineering, Kanazawa University, Ishikawa, Japan², WPI Nano Life Science Institute, Kanazawa University, Kakuma-machi, Kanazawa, Japan³)
- P1-021** Effect of the overexpression of connexin isoforms on HeLa cell proliferation
 ○Toshiki Saito, Mikako Saito (Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology)
- P1-022 (YSA-07)** Tumor progression driven by polyploid giant cells in *Drosophila*
 ○Bojie Cong, Shizue Ohsawa, Tatsushi Igaki (Laboratory of Genetics, Graduate School of Biostudies, Kyoto University)
- P1-023** Lineage analysis of roof plate cells during the development of mouse spinal cord
 ○Yudai Hatakeyama^{1,2}, Takuma Shinozuka^{1,2}, Yusuke Mii^{1,2}, Shinji Takada^{1,2} (SOKENDAI¹, NIBB²)
- P1-024** Phosphorylation of Shank3 by Rho-Kinase regulates surface translocation of NMDA and AMPA receptors in PSD.
 ○Rijwan Uddin Ahammad, Yasuhiro Funahashi, Md. Omar Faruk, Emran

Hossen, Koza Kaibuchi (Nagoya University, Graduate School of Medicine, Department of Cell Pharmacology)

- P1-025** The amplitude of cell enlargement in Class II CCE is regulated by the amount of IBA-derived Auxin
○Hiromitsu Tabeta¹, Mariko Asaoka¹, Kazuki Takahashi¹, Shizuka Gunji², Hirokazu Tsukaya^{3,4}, Ali Ferjani¹ (Dept. of Biol., Tokyo Gakugei Univ.¹, Unit. Grad. Sch. of Edu., Tokyo Gakugei Univ.,², Dept. of Biol. Sci., Grad. Sch. of Sci., The Univ. of Tokyo³, Okazaki Inst. for Integr. Biosci., Natl. Inst. of Nat. Sci.⁴)
- P1-026 (WS02-02)** Ribonucleotide threshold to induce p53 damage pathway during embryonic development in mouse
○Ryo Uehara, Naushaba Hasin, Kiran Sakhuja, Susana M Cerritelli, Robert J Crouch (Division of Intramural Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health)
- P1-027 (WS02-08)** Caspase drives *Drosophila* wing growth independent of apoptosis to ensure the bilateral symmetry of wing size
○Natsuki Shinoda¹, Takahiro Chihara², Akiko Koto¹, Masayuki Miura¹ (The Univ. of Tokyo¹, Hiroshima Univ.²)
- P1-028 (WS14-07)** Peroxisomes govern mitochondrial dynamics and the mitochondrial-dependent apoptotic pathway
○Hideaki Tanaka, Yukiko Gotoh, Tomohiko Okazaki (University of Tokyo, Pharmaceutical Science, Molecular Biology)
- P1-029 (WS03-10)** Ca²⁺ Signaling Response after Mechanical Stimulation of Single Immotile Cilium in Mammalian Node.
○Takanobu A Katoh¹, Katsutoshi Mizuno², Hiroshi Hamada², Takayuki Nishizaka¹ (Department of Physics, Gakushuin University¹, Center for Developmental Biology, Riken²)
- P1-030 (WS03-09)** The conserved Cep57-pericentrin module organizes PCM expansion and centriole engagement
○Koki Watanabe, Daiju Kitagawa (National Institute of Genetics)
- P1-031** A BLOC-3 component HPS4 regulates melanogenesis through activation of Rab32/38, but independent of Rab9A.
○Yuta Ohishi, Riko Kinoshita, Soujiro Marubashi, Morié Ishida, Mitsunori

Fukuda (Lab. of Membr. Trafficking Mech., Grad. Sch. of Life Sci., Tohoku Univ.)

- P1-032** Optogenetic manipulation of intracellular localization of melanosomes
○Kazuki Kousaka¹, Ryosuke Tadokoro¹, Takanori Akaiwa¹, Yoshiko Takahashi^{1,2} (Department of Zoology, Graduate School of Science, Kyoto University¹, AMED Core Research for Evolutional Science and Technology (AMED-CREST), Japan Agency for Medical Research and Development (AMED)²)
- P1-033** Genetic regulation of centriole elongation by microtubules polymerizing- and depolymerizing-factors in *Drosophila* premeiotic spermatocytes
○Tsuyoshi Shoda, Yuki Asano, Yoshihiro H Inoue (Insect Biomedical Research Center, Kyoto Institute of Technology, Kyoto, Japan)
- P1-034** Rab7 knockout unveiled regulated autolysosome maturation induced by glutamine starvation
○Yoshihiko Kuchitsu, Yuta Homma, Naonobu Fujita, Mitsunori Fukuda (Lab. of Membr. Trafficking Mech., Grad. Sch. of Life Sci., Tohoku Univ.)
- P1-035 (SWS-04)** IRE1 α -XBP1 pathway regulates oxidative proinsulin folding in pancreatic β cells.
○Yuichi Tsuchiya¹, Michiko Saito¹, Hiroshi Kadokura², Jun-ichi Miyazaki³, Fumi Tashiro³, Yusuke Imagawa⁴, Takao Iwawaki⁵, Kenji Kohno¹ (NAIST, Bioscience¹, Tohoku Univ., Institute of Multidisciplinary Research for Advanced Materials², Osaka Univ., Division of Stem Cell Regulation Research³, Osaka International Cancer Institute, Department of Molecular and Cellular Biology⁴, Kanazawa Med. Univ., Division of Cell Medicine⁵)
- P1-036** The specific amino acid sequence of LAMP-1 is responsible for FUT9-dependent Lewis X modification.
○Taiki Saito¹, Hirokazu Yagi¹, Chu-Wei Kuo², Kay-Hooi Khoo², Koichi Kato^{1,3} (Graduate school of Pharmaceutical Sciences, Nagoya City University¹, Institute of Biological Chemistry, Academia Sinica², Exploratory Research Center on Life and Living Systems, National Institutes of Natural Sciences³)

- P1-037** The role of an Na,K-ATPase in spatiotemporal regulation of Ras-PI3K signaling and endocytosis
○Sayaka Kashiwagi, Yoichiro Fujioka, Kosui Horiuchi, Aya O Satoh, Prabha Nepal, Aiko Yoshida, Sarad Paudel, Asuka Nanbo, Yusuke Ohba (Department of Cell Physiology, Graduate School of Medicine, Hokkaido University)
- P1-038** A mitochondrial outer membrane protein is involved in the regulation of Ras-PI3K signaling-mediated endocytosis
○Aya O Satoh, Yoichiro Fujioka, Kosui Horiuchi, Prabha Nepal, Sayaka Kashiwagi, Aiko Yoshida, Mari Fujioka, Sarad Paudel, Asuka Nanbo, Yusuke Ohba (Dept. Cell Physiol., Fac. Med. and Grad. Sch. Med. Hokkaido Univ.)
- P1-039** Two isoforms of Rab11 regulator LMTK1, similar and dissimilar cellular functions of LMTK1A and LMTK1B
○Ran Wei¹, Hironori Nishino¹, Keisuke Komaki¹, Mineko Tomomura², Kanae Ando¹, Shin-ichi Hisanaga¹ (Univ. of Tokyo Metropolitan ¹, Univ. of Meikai²)
- P1-040 (SWS-05)** The small GTPase Rab10 regulates the formation of tubular endosomes through its novel effectors KIF13A/B
○Kan Etoh, Mitsunori Fukuda (Lab. of Membr. Trafficking Mech., Grad. Sch. of Life Sci., Tohoku Univ.)
- P1-041** Interaction of WDR60 intermediate chain with TCTEX1D2 light chain of the dynein-2 complex is crucial for ciliary protein trafficking
Yuki Hamada, ○Yuta Tsurumi, Yohei Katoh, Kazuhisa Nakayama (Graduate School of Pharmaceutical Sciences, Kyoto University)
- P1-042 (SWS-06)** Analysis of lysosomal biogenesis pathway using novel ratiometric probe.
○Shunsuke Ishii¹, Akira Matsuura², Eisuke Itakura² (Graduate School of Science and Engineering, Chiba University¹, Graduate School of Science, Chiba University²)
- P1-043** Overexpression of MORN2 enhances LC3-associated phagocytosis in macrophages
○Maya Morita, Mayu Kajie, Kiyotaka Hatsuzawa (Division of Molecular Biology, School of Life Sciences, Faculty of Medicine, Tottori University)

- P1-044** Analysis of N-myristoylated Rab5b mediated trafficking pathway in *Plasmodium falciparum*
 ○Izumi Kitazono^{1,2}, Tomohiro Hirai¹, Kisaburo Nagamune^{1,2}, Tomoyoshi Nozaki³, Yumiko Saito-Nakano¹ (Department of Parasitology, National Institute of Infectious Diseases, Tokyo, Japan¹, Department of Biological Sciences, Graduate School of Life and Environmental Sciences, University of Tsukuba, Ibaraki, Japan², Department of Biomedical Chemistry, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan³)
- P1-045** 4-Phenylbutyrate suppresses the unfolded protein response without restoring protein folding in *Saccharomyces cerevisiae*
 ○Thanh Chi Mai, Yukio Kimata (Nara Institute of Science and Technology)
- P1-046** The Nem1/Spo7–Pah1/lipin axis is required for both macroautophagy and microautophagy induction after TORC1 inactivation
 ○Muhammad Arifur Rahman, Md. Golam Mostofa, Takashi Ushimaru (Graduate School of Science and Technology, Shizuoka University)
- P1-047 (WS03-04)** Crag/Rab10/Ehbp1 regulate basolateral transport of Na⁺K⁺ATPase in *Drosophila* photoreceptors
 ○Yuka Ochi, Yuri Nakamura, Takunori Satoh, Akiko K. Satoh (Division of Life Science, Graduate School of Integral Arts and Science, Hiroshima University)
- P1-048 (WS03-08)** Trafficking of ciliary GPCRs mediated by the BBSome depends on its interaction with the IFT-B complex
 ○Shohei Nozaki, Yohei Katoh, Kazuhisa Nakayama (Graduate School of Pharmaceutical Sciences, Kyoto University)
- P1-049** rDNA condensation is required for nucleophagy after TORC1 inactivation in budding yeast
 ○Md. Golam Mostofa, Muhammad Arifur Rahman, Takashi Ushimaru (Shizuoka University, Shizuoka, Japan)
- P1-050** Syntaxin 11 mediates the stimulation-dependent Toll-like receptor 4 trafficking in macrophages
 ○Daiki Kinoshita, Maya Morita, Masashi Tsunematsu, Chiye Sakurai, Kiyotaka Hatsuzawa (Div. Molecular Biol., Sch. of Life Sci., Faculty of Med., Tottori Univ.)

- P1-051** A 3D modeling of Golgi stacks in giantin knockdown cells
○Takuto Shakuno¹, Mitsuko Hayashi-Nishino², Kunihiko Nishino², Ayano Satoh¹ (Okayama University¹, Institute of Scientific and industrial Research, Osaka University²)
- P1-052** Intra- and extracellular functions of the ER-resident protein VAP in *Drosophila*
○Kosuke Kamemura¹, Chun-an Chen², Misako Okumura¹, Sayaka Sekine³, Daichi Kamiyama⁴, Masayuki Miura², Takahiro Chihara¹ (Grad Sch of Sci, Hiroshima Univ¹, Grad Sch of Pharm Sci, Univ of Tokyo², CDB, RIKEN³, Dept Cell Biol, Univ of Georgia⁴)
- P1-053** Ubiquitin-specific protease 8 suppresses collagen secretion by deubiquitinating Sec31
○Kohei Kawaguchi, Akinori Endo, Toshiaki Fukushima, Masayuki Komada (Cell Biology Center, Institute of Innovative Research, Tokyo Institute of Technology)
- P1-054** Promoter analysis of GALNT18 and GALNT5 regulated by Golgi stress response of mucin pathway
○Jamaludin Mohamad Ikhwan, Kanae Sasaki, Mai Taniguchi, Hirotada Kawamura, Sadao Wakabayashi, Hiderou Yoshida (University of Hyogo)
- P1-055** Rab5-independent vacuolar formation by Rab7 in budding yeast
○Hiroki Shimamura¹, Tie Kawada¹, Makoto Nagano¹, Junko Y. Toshima², Jiro Toshima¹ (Department of Biological Science and Technology, Tokyo University of Science¹, School of Health Sciences, Tokyo University of Technology²)
- P1-056** Polarized localization of the phospholipid flippase ATP11C isoform at the plasma membrane
Masahiro Takayama, ○Hiroki Inoue, Kazuhisa Nakayama, Hiroyuki Takatsu, Hye-Won Shin (Graduate School of Pharmaceutical Sciences, Kyoto University)
- P1-057** N- or C-terminal cytoplasmic regions of class 5 and class 6 P4-ATPases are responsible for their subcellular localization.
○Sayuri Okamoto, Tomoki Naito, Kazuhisa Nakayama, Hiroyuki Takatsu, Hye-Won Shin (Graduate School of Pharmaceutical Sciences, Kyoto University)

- P1-058 (WS03-06)** Synapse Elimination Triggered by BMP4 Exocytosis and Presynaptic BMP Receptor Activation
○Takahito Higashi, Shinji Tanaka, Tadatsune Iida, Shigeo Okabe (Tokyo Univ. Schol of Medicine)
- P1-059** Analysis of the role of PI4P and organelle contact site in prospore membrane extension during sporulation of budding yeast
○Tsuyoshi S. Nakamura¹, Kenji Muneshige¹, Yasuyuki Suda², Hiroyuki Tachikawa¹ (Dep. Appl. Biol. Chem, Grad. Sch. of Agri. and Life Sci., The Univ. of Tokyo¹, Maj. Med. Sci., Grad. Sch. of Comprehensive Human Sci., Univ., of Tsukuba²)
- P1-060** Requirement of PtdIns (4)P metabolism by PI4 kinase and phosphatase during receptor-mediated endocytosis
○Masahiro Suwazono¹, Wataru Yamamoto¹, Kaito Aoshima¹, Hiroshi Shimamura¹, Makoto Nagano¹, Junko Y Toshima^{2,1}, Jiro Toshima¹ (Department of Biological Science and Technology, Tokyo University of Science¹, School of Health Sciences, Tokyo University of Technology²)
- P1-061** Cooperative function of yeast Rab6/Ypt6 and V-ATPase in the endocytic recycling pathway
○Yuka Noma¹, Haruka Yamashita¹, Takumi Sato¹, Makoto Nagano¹, Junko Y Toshima², Jiro Toshima¹ (Department of Biological Science and Technology, Tokyo University of Science¹, School of Health Sciences, Tokyo University of Technology²)
- P1-062** Regulation of transport of endocytic vesicles through actin cytoskeleton by yeast Eps15-like protein Pan1p
○Ippo Ogura¹, Nao Yoshida¹, Hiroki Shimamura¹, Makoto Nagano¹, Junko Y Toshima², Jiro Toshima¹ (Department of Biological Science and Technology, Tokyo University of Science¹, School of Health Sciences, Tokyo University of Technology²)
- P1-063** Involvement of COPI-coated vesicle in protein sorting from the endosome to the Golgi in yeast
○Tsuyumi Masuda¹, Haruka Yamashita¹, Hiromu Kobayashi¹, Makoto Nagano¹, Junko Y Toshima², Jiro Toshima¹ (Department of Biological Science and Technology, Tokyo University of Science¹, School of Health Sciences, Tokyo University of Technology²)

- P1-064
(WS14-03)** Autophagosome-ER contact visualized by a novel ER-phagy receptor
○Haruka Chino^{1,2}, Tomohisa Hatta³, Tohru Natsume³, Noboru Mizushima¹
(epartment of Biochemistry and Molecular Biology, Graduate School and Faculty of Medicine, The University of Tokyo¹, Department of Respiratory Medicine, The University of Tokyo², Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology (AIST)³)
- P1-065** Requirement of Pan1p complex for recruitment of actin filaments to endocytic site
○Mariko Enshoji¹, Nao Yoshida¹, Hiroki Shimamura¹, Makoto Nagano¹, Junko Y Toshima², Jiro Toshima¹ (Department of Biological Science and Technology, Tokyo University of Science¹, School of Health Sciences, Tokyo University of Technology²)
- P1-066** Distinct roles for the Rho-family GTPases in yeast actin-mediated endocytosis
○Ikumi Katsumata¹, Eriko Kashimura¹, Ayaka Ozawa¹, Makoto Nagano¹, Junko Y Toshima², Jiro Toshima¹ (Department of Biological Science and Technology, Tokyo University of Science¹, School of Health Sciences, Tokyo University of Technology²)
- P1-067
(WS06-06)** Exploring the molecular pathways leading to bipolar spindle formation
○Takashi Toda, Masaki Okazaki, Tomoaki Yamauchi, Yusuke Yamada, Tomoki Kawakami, Yasuhiro Teratani, Mitsuki Oishi, Masashi Yukawa (Department of Molecular Biotechnology, Graduate School of Advanced Sciences of Matter, Hiroshima University)
- P1-068
(WS06-05)** A novel link between ploidy level and centrosome homeostasis in human somatic cells
○Kan Yaguchi, Takahiro Yamamoto, Ryota Uehara (Grad. Sch. of Life Sci., Hokkaido Univ.)
- P1-069** Locally extruded Syntaxin4 abrogates E-cadherin function and activates Smad signals, contributing to asymmetric mammary epithelial morphogenesis
○Yuina Hirose, Yohei Hirai (Graduate School of Science and Technology, Kwansai Gakuin University)

- P1-070 (WS01-08)** Cdc42-FMNL3 mediated constitutive actin regrowth underneath plasma membrane underlies the repetitive nature of membrane blebs
 ○Kana Aoki¹, Shinsuke Sato¹, Seiichi Uchida³, Yoh Iwasa², Junichi Ike-nouchi^{2,4} (Grad. Sch. Systems Life Sciences, Kyushu University¹, Dept. Biol, Kyushu University², Dept. Advanced Information technology, Kyushu University³, AMED-PRIME, Japan Agency for Medical Research and Development⁴)
- P1-071** Analysis of dynamins function during cytokinesis in *Dictyostelium* cells
 ○Koushirou Fujimoto¹, Go Itoh², Shinya Miyagishima³, Shigehiko Yumura¹ (Grad. Sch. of Med., Yamaguchi University¹, Grad. Sch. of Med., Akita University², Symbio. and cell evol. lab., Natl. inst. of genetics³)
- P1-072** Organization of microtubules in small intestinal crypt cells
 ○Yuto Mitsuhashi¹, Mika Toya^{1,2}, Masatoshi Takeichi², Masamitsu Sato¹ (Department of Life Science and Medical Bioscience, Graduate School of Advanced Science and Engineering, Waseda University¹, RIKEN Center for Developmental Biology²)
- P1-073** Functional linkage between the γ -tubulin ring complex and Alp7/TACC in microtubule nucleation
 ○Mana Katsuyama, Tomonari Sunaga, Masamitsu Sato (Department of Life Science and Medical Bioscience, Graduate School of Advanced Science and Engineering, Waseda University)
- P1-074** Functional analysis of fission yeast CLASP in assembling pre-anaphase spindle
 ○Hirohisa Ebina¹, Liang Ji², Masamitsu Sato^{1,2} (Dept. of Life Science and Medical Bioscience, Graduate School of Advanced Science and Engineering, Waseda Univ.¹, Dept. of Biophysics and Biochemistry, Graduate School of Science, Univ. of Tokyo²)
- P1-075** *Drosophila* Dcp2 and moesin mediate the *oskar* mRNA anchoring and transporting complexes
 ○Yi Mei Lee¹, Ming-Der Lin², Chu-Ya Cheng¹, Yi-Lu Tian¹, Chih-Chieh Lu¹, Po-Hsun Chiang¹, Jin-Yu Deng¹, Wei-Hong Shen¹, Jen-Ho Cheng¹, Chao-Han Chen¹, Mei-Ling Wu¹, Ching-Jin Chang³, Tze-Bin Chou¹ (Institute of Molecular and Cellular Biology, College of Life Sciences, National Taiwan University, Taiwan¹, Department of Molecular Biology and

Human Genetics, Tzu-Chi University, Taiwan², Institute of Biological Chemistry, College of Life Sciences, National Taiwan University, Taiwan³)

- P1-076** Prestin, a membrane-based voltage-driven motor, is not the sole member of the SLC26 family that can sense voltage.
○Makoto F Kuwabara¹, Koichiro Wasano², Satoe Takahashi², Justin Bodner³, Tomotaka Komori¹, Sotaro Uemura¹, Jing Zheng², Tomohiro Shima¹, Kazuaki Homma² (Dep. of Biol. Sci., Grad Sch. of Sci., The Univ. of Tokyo¹, Feinberg Sch. of Med., Northwestern Univ.², DePaul Univ.³)
- P1-077** Differential function of myosin IIA and IIB in cytokinesis of human immortalized fibroblasts
○Kei Yamamoto¹, Kohei Otomo², Tomomi Nemoto², Seiichiro Ishihara³, Hisashi Haga³, Yota Murakami^{1,4}, Masayuki Takahashi^{1,4} (Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ.¹, Res. Inst. for Elect. Sci., Hokkaido Univ.², Fac. of Adv. Life Sci., Hokkaido Univ.³, Fac. of Sci., Hokkaido Univ.⁴)
- P1-078** PCP factors are differentially involved in polarity establishment of ciliary orientation and cell elongation in the mouse oviduct.
○Fumiko Usami^{1,2}, Dongbo Shi^{2,3}, Kagayaki Kato⁴, Toshihiko Fujimori^{1,2} (Dept. of Basic Biol., School of Life Sci., SOKENDAI¹, Div. of Embryology, NIBB², COS, Heidelberg Univ³, Imaging Science, CNSI⁴)
- P1-079 (WS12-03)** The dynamic self-patterning of Plk4 regulates centriole duplication.
○Shohei Yamamoto, Daiju Kitagawa (The University of Tokyo)
- P1-080 (WS06-01)** Jaw1/LRMP has a role in maintaining nuclear shape via interaction with SUN proteins
○Takuma Kozono¹, Kazuko Tadahira², Wataru Okumura¹, Nao Itai², Miwa Tamura-Nakano³, Taeko Dohi⁴, Takashi Tonozuka², Atsushi Nishikawa^{1,2} (Department of Food and Energy Systems Science, Graduate School of Bio-Applications Systems Engineering, Tokyo University of Agriculture and Technology¹, Division of Applied Biological Chemistry, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology², Communal Laboratory, Research Institute, National Center for Global Health and Medicine³, Department of Gastroenterology, Research Center for Hepatitis and Immunology, Research Institute, National Center for Global Health and Medicine⁴)

- P1-081** Functional analysis of a ciliate specific actin-related protein, tArap, localized in cilia of *Tetrahymena thermophila*
○Minori Hagita, Kota Fujito, Osamu Numata, Kentaro Nakano (Univ. of Tsukuba)
- P1-082 (WS12-09)** Dynamics of the Par complex clusters during the cell-autonomous polarization and asymmetric division in the reconstruction system
○Kalyn Kawamoto^{1,2}, Shigeki Yoshiura², Fumio Matsuzaki^{1,2} (Grad. Sch. of Bio., Kyoto University¹, RIKEN CDB²)
- P1-083 (WS06-04)** The yeast centriole-less centrosome reveals an ancestral role for the pericentrin in centriole biogenesis and integrity
○Daisuke Ito, Monica Bettencourt-Dias (Instituto Gulbenkian de Ciencia)
- P1-084** Establishment of a PCP-dependent apical microtubule network in tracheal MCCs.
○Shogo Nakayama¹, Elisa Herawati², Maki Takagishi³, Tomoki Nishida⁴, Kanako Inoue⁵, Takayuki Torisawa⁶, Toshinori Namba⁷, Shuji Ishihara⁷, Hiroo Tanaka¹, Tomoki Yano¹, Atsushi Tamura¹, Kazuhiro Oiwa⁶, Masahide Takahashi⁷, Sachiko Tsukita¹ (Dept. of Bio Sci., Grad. Sch. of Medicine., Osaka University¹, Faculty of Mathematics and Natural Sciences, Universitas Sebelas Maret², Dept. of Pathology., Grad. Sch. of Medicine., Univ. of Nagoya³, Japan Textile Products Quality and Technology Center⁴, Research Center for Ultra-High Voltage Electron Microscopy, Osaka University⁵, Nat. Inst. of Information and Communications Technology., Advance ICT Research Institute⁶, Dept. of Basic Science., Grad. Sch. of Arts and Sciences., Univ. of Tokyo⁷)
- P1-085 (WS01-10)** Super-resolution live imaging of supercellular circumferential actin cable formation during tracheal tubulogenesis
○Sayaka Sekine, Mustafa Sami, Housei Wada, Shigeo Hayashi (RIKEN Center for Biosystems Dynamics Research)
- P1-086** Visualizing multiple inter-organelle contact sites using split-GFP system
○Yuriko Kakimoto¹, Shinya Tashiro¹, Rieko Kojima¹, Toshiya Endo², Yasushi Tamura¹ (Department of Material and Biological Chemistry, Faculty of Science, Yamagata University¹, Faculty of Life Sciences, Kyoto Sangyo University²)
- P1-087** Guanylate binding protein-1-mediated epithelial barrier in human

salivary gland duct epithelium

○Takumi Konno¹, Ken-ichi Takano², Yakuto Kanoko², Takuya Kakuki², Kazuaki Nomura², Ryoto Yajima², Akito Kakiuchi², Takayuki Kohno¹, Tet-suo Himi², Takashi Kojima¹ (Department of Cell Science, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine.¹, Department of Otolaryngology, Sapporo Medical University School of Medicine.²)

P1-088
(WS15-05)

Functional roles of Rho-GEF PLEKHG4B in the formation of adherens junctions

○Komaki Ninomiya, Kensaku Mizuno, Kazumasa Ohashi (Laboratory of Molecular and Cellular Biology, Graduate School of Life Sciences, Tohoku University)

P1-089
(WS04-02)

Plasma membrane of cell-ECM adhesion region possesses lipid raft-like lipid composition.

○Kodai Minoura¹, Takafumi Ichikawa¹, Tomohiro Ohmachi¹, Yasuhisa Kimura¹, Kazumitsu Ueda^{1,2}, Noriyuki Kioka¹ (Div. of App. Life Sci., Grad. Sch. of Agriculture, Kyoto Univ.¹, iCeMS, Kyoto Univ.²)

P1-090

Isolation of the focal adhesions using sonication

○Masakazu Shibahara¹, Kodai Minoura¹, Takafumi Ichikawa¹, Yasuhisa Kimura¹, Kazumitsu Ueda^{1,2}, Noriyuki Kioka^{1,2} (Div. of App. Life Sci., Grad. Sch. of Agriculture, Kyoto Univ.¹, iCeMS, Kyoto Univ.²)

P1-091

Effects of dipotassium glycyrrhizate (GK2) on keratinocyte barrier function.

○Fumika Tanaka, Yohei Hirai (Graduate School of Science and Technology, Kwansei Gakuin University)

P1-092
(WS04-05)

Iterative relay of epidermal growth factor receptor signaling regulates epithelial invagination via a wave of cellular contractility

○Yosuke Ogura¹, Fu-Lai Wen², Mustafa M. Sami¹, Tatsuo Shibata², Shigeo Hayashi¹ (Laboratory for Morphogenetic Signaling, RIKEN Center for Biosystems Dynamics Research¹, Laboratory for Physical Biology, RIKEN Center for Biosystems Dynamics Research²)

P1-093

Cancelled

- P1-094
(WS15-06)** Functional analysis of alpha-catenin on coordinated epithelial morphogenesis
 ○Ryosuke Nishimura¹, Masahiro Takeda², Hiromi Miyoshi^{2,3}, Yutaka Yamagata², Shigenobu Yonemura^{1,4} (Grad. Sch. of Med. Sci., Tokushima Univ.¹, RIKEN CAP², Grad. Sch. Sys. Desn., Tokyo Metropolitan Univ.³, RIKEN CLST⁴)
- P1-095
(WS04-06)** ERK activation waves mediated by intercellular mechanical signaling during collective cell migration
 ○Naoya Hino^{1,2}, Michiyuki Matsuda^{1,3}, Tsuyoshi Hirashima³ (Lab. of Bioimaging and Cell Signaling, Grad. Sch. of Biostudies, Kyoto Univ.¹, JSPS Research Fellow², Dept. of Path. and Biol. of Diseases, Grad. Sch. of Med., Kyoto Univ.³)
- P1-096** HSP47 stabilizes folding intermediates of procollagen which are unstable at body temperature
 ○Kazunori Fujii¹, Yuki Taga², Shinya Ito³, Shunji Hattori², Kazuhiro Nagata³, Takaki Koide¹ (Graduate School of Advanced Science and Engineering, Waseda University¹, Nippi Research Institute of Biomatrix², Institute for Protein Dynamics, Kyoto Sangyo University³)
- P1-097** Dynamic expression analysis of Cx30.3 in ES cell microenvironment
 ○Naruwa Tokunaga, Mikako Saito (Dept. Biotechnol. and Life Sci., Tokyo Univ. of Agricul. and Technol.)
- P1-098** Expression analysis of connexin gene family in mouse hepatic cells
 ○Ryota Kishi, Haruka Masui, Mikako Saito (Dept. Biotechnol. and Life Sci., Tokyo Univ. of Agricul. and Technol.)
- P1-099** Effects of microenvironment on the connexin expression behavior in mouse melanoma cells
 ○Tomoko Sasai, Mikako Saito (Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology)
- P1-100** Smad signaling and ROS are involved in the “noise-cancelling system” of Wnt/ β -catenin signaling.
 ○Shohei Ogamino¹, Yuki Akieda¹, Jumpei Nogami², Yasuyuki Ohkawa², Tohru Ishitani¹ (Integrated Signal. Sys., IMCR, Gunma Univ.¹, Div. of Transcriptomics., MIB, Kyushu Univ.²)

- P1-101 (WS15-01)** Roles of membrane lipids in the formation of tight junction
 ○Kenta Shigetomi¹, Junichi Ikenouchi^{2,3} (Graduate school of System Life Sciences, Kyushu University¹, Department of Biology, Faculty of Sciences, Kyushu University², AMED-PRIME³)
- P1-102** Tight junctional cingulin organizes the apical intermediate filaments.
 ○Yuki Nakao¹, Hiroo Tanaka¹, Tomohiro Tamura¹, Shogo Nakayama¹, Akira Yamamoto¹, Tomoaki Mizuno¹, Hatsuho Kanoh^{1,2}, Atsushi Tamura¹, Tomoki Yano¹, Sachiko Tsukita¹ (Laboratory of Biological Science, Graduate School of Frontier Biosciences and Graduate School of Medicine, Osaka University, Osaka, Japan.¹, Graduate School of Biostudies, Kyoto University, Kyoto, Japan.²)
- P1-103** Neural specific kinase promotes early neural development in *Xenopus* embryos
 ○Regina Putri Virgiri¹, Nusrat Jahan¹, Maya Okada¹, Kimiko Takebayashi-Suzuki¹, Hitoshi Yoshida¹, Makoto Nakamura¹, Hajime Akao¹, Fatchiyah Fatchiyah², Naoto Ueno³, Atsushi Suzuki¹ (Amphibian Research Center, Grad. Sch. of Sci., Hiroshima Univ., Japan¹, Dept. of Biol., Fac. of Math. and Nat. Sci., Brawijaya Univ., Indonesia², Div. of Morphogenesis, NIBB, Japan³)
- P1-104** The mechanism about the growth of collagen crystal involved with fin skeletal development.
 ○Junpei Kuroda¹, Atsuko H Iwane², Shigeru Kondo¹ (Osaka university, FBS¹, Riken, Quantitative Biology Center²)
- P1-105** Functional study of Yin Yang 1 in mouse mid-hindbrain development
 ○Xiaonan Dong¹, Kin Ming Kwan^{1,2,3} (School of Life Sciences, The Chinese University of Hong Kong, Hong Kong, China¹, Centre for Cell and Developmental Biology, The Chinese University of Hong Kong, Hong Kong, China², Partner State Key Laboratory of Agrobiotechnology (CUHK), The Chinese University of Hong Kong, Hong Kong, China³)
- P1-106** Development of Left-Right Asymmetric Structure in the *Drosophila* Brain
 ○So Sakamura¹, Fuyu Hsu², Ann-Shyn Chiang², Kenji Matsuno¹ (Graduate School of Frontier Biosciences, Osaka University¹, Institute of Biotechnology, National Tsing Hua University²)

- P1-107** Fat2 controls formation of cerebellar neural circuits in zebrafish
 ○Ryuji Dohaku¹, Miki Takeuchi², Takashi Shimizu^{1,2}, Masahiko Hibi^{1,2}
 (Graduate School of Science, Nagoya university, Nagoya, Japan¹, Bioscience and Biotechnology center, Nagoya University, Nagoya, Japan²)
- P1-108 (WS07-05)** Twisting movement of plant leaf: Genetic analysis and 3D observation
 ○Yuta Otsuka¹, Ken Haga², Tatsuya Sakai³, Hirokazu Tsukaya^{1,4} (Grad. Sch. Sci., Univ. Tokyo¹, Dept. Hum. Sci. Com. Edu., NIT², Grad. Sch. Sci. Tech., Niigata Univ.³, OIIB, NINS⁴)
- P1-109 (WS05-06)** 3D Cell behavior in zebrafish somite morphogenesis
 ○Yue Tong¹, Harunobu Kametani¹, Atsuko Shimada¹, Masakazu Akiyama², Yasuhiro Inoue³, Hiroyuki Takeda¹ (Dept. of Biol. Sci., Univ. of Tokyo¹, RIES, Hokkaido Univ.², IFLMS, Kyoto Univ.³)
- P1-110** Zebrafish *pou5f3*, an *Oct4*-type class-V POU gene, is involved in neurogenesis in the caudal neural tube.
 ○Tatsuya Yuikawa, Masaaki Ikeda, Sachiko Tsuda, Kyo Yamasu (Div. Life Sci., Grad. Sch. Sci. Eng., Saitama Univ.)
- P1-111** TGF- β signal regulates gut bending in the sea urchin embryo
 ○Haruka Suzuki, Shunsuke Yaguchi (University of Tsukuba, Shimoda Marine Research Center)
- P1-112** Molecular mechanisms that control development of the inferior olive nucleus neurons in zebrafish
 ○Tsubasa Itoh¹, Miki Takeuchi^{1,2}, Marina Sakagami¹, Kazuhide Asakawa³, Koichi Kawakami³, Takashi Shimizu^{1,2}, Masahiko Hibi^{1,2} (Grad. School of Science, Nagoya University¹, Bioscience and Biotechnology Center, Nagoya University², National Institute of Genetics³)
- P1-113 (SWS-07)** *Sbno1* is involved in growth of axon and dendrites of the cortical neurons
 ○Iroha Yamamoto¹, Fuzuki Inoguchi¹, Satoru Yamagishi², Kosuke Taki¹, Leanne Delaney³, Carina Hanashima⁴, Hayato Naka-Kaneda¹, Yu Katsuyama¹ (Shiga University of Medical Science¹, Hamamatsu University School of Medicine², Dalhousie University³, Waseda University⁴)
- P1-114** Setting up a new model system to uncover the molecular mechanisms regulating totipotency in sponges: definition of precise stages

of gemmule formation, an asexual reproduction system

○Masumi Okawa, Risa Murakami, Noriko Funayama (Dept. Biophysics, Graduate School of Science, Kyoto Univ.)

- P1-115 (WS07-02)** The dynamic epithelial transition of developing trachea unveiled by single cell RNA-seq
○Hirofumi Kiyokawa, Mitsuru Morimoto (Riken CDB)
- P1-116** Amniogenic somatopleural cells: a novel origin of cardiovascular development
○Yuka Haneda¹, Rieko Asai^{1,2}, Yasunobu Uchijima¹, Akashi Taguchi¹, Takahide Kohro³, Satoshi Ishishita⁴, Yoichi Matsuda⁴, Youichiro Wada¹, Sachiko Miyagawa-Tomita^{1,5}, Hiroki Kurihara¹ (Univ. of Tokyo¹, Univ. of California², Jichi Med. Univ.³, Nagoya Univ.⁴, Yamazaki Gakuen Univ.⁵)
- P1-117 (SWS-08)** The contribution of parasympathetic Remak ganglia to establish the peristalsis in chicken embryos
○Yuuki Shikaya, Tadayoshi Watanabe, Ryosuke Tadokoro, Yuta Takase, Yoshiko Takahashi (Department of Zoology, Graduate School of Science, Kyoto University)
- P1-118** Characterization of *narigoma*, a regulator of anterior gut left-right asymmetry in *Drosophila melanogaster*
○Yi-Ting Lai¹, Tomoki Ishibashi¹, Mitsutoshi Nakamura¹, Katsushi Yamaguchi², Shuji Shigenobu², Kenji Matsuno¹ (Department of Biological Sciences, Osaka University¹, NIBB Core Research Facilities, National Institute for Basic Biology²)
- P1-119** Hippo-mediated morphogenetic robustness during *Drosophila* wing development
○Yayoi Wada, Shizue Ohsawa, Tatsushi Igaki (Laboratory of Genetics, Graduate School of Biostudies, Kyoto University)
- P1-120** Finding a novel structure, amniotic collar, involved in the amnion and the pericardial cavity formation in the chicken embryo.
○Nao Yamaguchi, Kimiko Fukuda (Tokyo Metropolitan University)
- P1-121** Development of the horn primordia of *Rhinoceros beetle*
○Haruhiko Adachi¹, Hiroki Gotoh², Keisuke Matsuda³, Shigeru Kondo¹ (Osaka university, FBS¹, Nagoya university, Bioagri. Sci², Osaka university, Med³)

- P1-122** Proximity biotin labeling-based identification of proteins interacting with *Drosophila* MyosinID, which switches the chirality of cells and organs.
 ◦Ryota Mori, Yusuke Kamei, Satoshi Kuwana, Kenji Matsuno (Department of Biological Sciences, Osaka University)
- P1-123 (WS05-11)** Roles of a transcription factor 19A in the osteoblast development of sternum
 ◦Mao Kuriki¹, Fuminori Sato¹, Kenta Sumiyama², Koichi Kawakami³, Atsuko Sehara-Fujisawa¹ (IFLMS., Univ of Kyoto¹, RIKEN², NIG³)
- P1-124 (WS05-04)** Involvement of heparan sulfate in the regulation of Nodal signaling range in *Xenopus* for the generation of left-right asymmetry
 ◦Takafumi Ikeda, Takayoshi Yamamoto, Masanori Taira (Dept. of Biol. Scis., Grad. Sch. of Sci., Univ. of Tokyo)
- P1-125** A novel role of *Numb* prevents embryo from twisting though the inhibition of Notch signaling
 ◦Elzava Yuslimatin Mujizah¹, Satoshi Kuwana¹, Kenjiroo Matsumoto³, Takuma Gushiken¹, Martin Baron², Kenji Matsuno¹ (Department of Biological Sciences, Graduate School of Science, Osaka University¹, Faculty of Biology, Medicine and Health, University of Manchester², Complex Carbohydrate Research Center, University of Georgia³)
- P1-126** Ecdysone-inducible *polished rice* gene is essential for cell fate decision and tubular fusion of dorsal branches in *Drosophila* tracheogenesis.
 ◦Yuki Taira¹, Housei Wada², Shigeo Hayashi², Yuji Kageyama^{1,3} (Department of Biology, Graduate School of Science, Kobe University¹, RIKEN, Center for Developmental Biology², Biosignal Research Center, Kobe University³)
- P1-127** NFκB controls dorsal-ventral patterning of vertebrate embryos through negative regulation of Wnt/β-catenin signaling
 ◦Juqi Zou^{1,2,3}, Satoshi Anai^{2,3}, Takamasa Masuda³, Satoshi Ota³, Tohru Ishitani^{1,3} (Division of Integrated Signaling Systems, Department of Molecular Medicine, IMCR, Gunma Univ.¹, Graduate School of Medical Sciences, Faculty of Medical Sciences, Kyushu Univ.², MIB, Kyushu Univ.³)

- P1-128** The role of histone demethylase LSD1 in the development of hematopoietic stem cells in zebrafish
 ○Junya Tamaoki¹, Isao Kobayashi², Makoto Kobayashi¹ (University of Tsukuba¹, Kanawaza University²)
- P1-129** Molecular mechanism for the layer and column-specific targeting by controlling filopodial extension in the *Drosophila* visual system.
 ○Hiroki Takechi, Satoko Hakeda Suzuki, Takashi Suzuki (Tokyo Institute of Technology)
- P1-130** Identification of Hox target genes involved in regulating the region-specific patterning and growth of cartilage
 ○Shiori Yamamoto¹, Yuji Uchida¹, Tomomi Ohtani¹, Yoichi Shiraishi¹, Nayuta Yakushiji-Kaminatsui², Erika Nozaki¹, Atsushi Kuroiwa¹ (Nagoya Univ.¹, EPFL²)
- P1-131** Arrangement of collagen fibers determines the fin bone structure in Zebrafish
 ○Hibiki Nakagawa, Toshihiro Aramaki, Junpei Kuroda, Shigeru Kondo (Graduate School of Frontier Biosciences, Osaka University)
- P1-132** Role of rotational collective cell migration in somite morphogenesis
 ○Harunobu Kametani, Yue Tong, Atsuko Shimada, Hiroyuki Takeda (The Univ. of Tokyo)
- P1-133** Autoregulatory loop of *tbx6* enables the Ripply-dependent posterior shift of the expression domains of *tbx6* transcription and Tbx6 protein in the zebrafish presomitic mesoderm
 ○Hiroyuki Ban¹, Daisuke Yokota¹, Shiori Otsuka¹, Hirofumi Kinoshita¹, Yuuri Fujino¹, Taijiro Yabe², Hiroki Ovara¹, Ayaka Izuka¹, Kagari Akama¹, Daichi Kage¹, Kyo Yamasu¹, Shinji Takada², Akinori Kawamura¹ (Div. of Life Sci., Grad. Sch. of Sci. and Eng., Saitama Univ.¹, Okazaki Inst. Integ. Biosci., Nat. Inst. Nat. Sci.²)
- P1-134 (WS05-09)** Physical characteristics of epithelium during limb morphogenesis
 ○Kazuki Kawamura¹, Makoto Ono¹, Atsushi Kuroiwa¹, Yoshihiro Morishita², Takayuki Suzuki¹ (Nagoya University¹, Quantitative Biology Center²)

- P1-135** Excess pyrophosphate in plant tissues triggers developmental defects cell-autonomously
 ○Shizuka Gunji¹, Gorou Horiguchi^{2,3}, Hirokazu Tsukaya^{4,5}, Ali Ferjani^{1,6} (Unite. Grad. Sch. of Educ., Tokyo Gakugei Univ.¹, Dept. of Life Sci., Coll. of Sci., Rikkyo Univ.², Res. Centr. for Life Sci., Coll. of Sci., Rikkyo Univ.³, Dept. of Biol. Sci., Grad. Sch. of Sci. The Univ. of Tokyo⁴, Okazaki Inst. for Integr. Biosci., Natl. Inst. of Nat. Sci.⁵, Dept. of Biol., Tokyo Gakugei Univ.⁶)
- P1-136** Gene knock-out analysis of a segmentation gene *even-skipped* in the cricket *Gryllus bimaculatus*
 ○Yu-ki Nakamura¹, Ko-hei Kawamoto¹, Sayuri Tomonari², Takahito Watanabe³, Yoshiyasu Ishimaru³, Taro Mito³, Sumihare Noji⁴ (Graduate School of Advanced Technology and Science, Univ. of Tokushima¹, Center for Technical Support, Univ. of Tokushima², Graduate School of Bioscience and Bioindustry, Univ. of Tokushima³, Univ. of Tokushima⁴)
- P1-137 (WS08-07)** Roles of lysosomes in embryonic neural stem/progenitor cells
 ○Naoya Yuizumi, Yujin Harada, Daichi Kawaguchi, Shohei Furutachi, Yukiko Gotoh (Lab. of Molecular Biology, Department of Pharmaceutical Sciences, The Univ. of Tokyo)
- P1-138** A new method to recapitulate paraxial mesoderm development and model fibrodysplasia ossificans progressiva with iPS cells
 ○Taiki Nakajima¹, Mitsuaki Shibata¹, Megumi Nishio², Sanae Nagata¹, Cantas Alev¹, Hidetoshi Sakurai¹, Junya Toguchida^{1,3,2}, Makoto Ikeya¹ (Center for iPS Cell Research and Application, Kyoto University, Japan¹, Department of Tissue Regeneration, Institute for Frontier Medical Sciences, Kyoto University, Japan², Department of Orthopedic Surgery, Graduate School of Medicine, Kyoto University, Japan³)
- P1-139** Akhirin, a secreted molecule of von Willebrand factor A superfamily, plays role on neurogenic niches in mouse brain
 ○Mohammad Badrul Anam, Shah Adil Ishtiyag Ahmad, Naofumi Ito, Kunimasa Ohta (Department of Developmental Neurobiology, Kumamoto University)
- P1-140** Prolyl Isomerase Pin1 Is Required Sperm Production by Promoting Mitosis Progression of Spermatogonial Stem Cells
 ○Atsuko Suzuki¹, Yuki Kamo¹, Chiyoko Uchida², Kenshiro Hara¹, Taka-

fumi Uchida¹ (Tohoku Univ.¹, Fukushima Univ.²)

- P1-141** Sphere formation and characterization of mesenchymal and epithelial cells isolated from human hair follicle
○Toshiki Yachi, Hiroaki Kitamura, Tokuro Iwabuchi (Tokyo Univ. of Technol.)
- P1-142 (WS15-10)** T-SNARE Protein Syntaxin-4 as a Possible Regulator of Human Stem Cell Pluripotency
○Thassya Obata, Yohei Hirai (Department of Biomedical Chemistry, Graduate School of Science and Technology, Kwansei Gakuin University)
- P1-143 (WS08-08)** Causal link between epimorphin and E-cadherin in regulation of keratinocyte differentiation
○Noriko Tachibana, Yohei Hirai (Department of Biomedical Chemistry, Graduate School of Science and Technology, Kwansei Gakuin University)
- P1-144** Transcriptome analysis of lung epithelial cells and fibroblasts during alveologenesis revealed fibroblast-epithelial interactions and key regulators of alveolar epithelial cells type 2
○Kazushige Shiraishi, Shigeyuki Shichino, Satoshi Ueha, Kouji Matsu-shima (Dept. Mol. Prev. Med., Univ. of Tokyo)
- P1-145** Establishing pluripotent stem cell lines from undifferentiated cells in the newborn *Dnd1* mutant testis.
○Yuri An, Yasuhisa Matsui (Cell Resource Center for Biomedical Research, Institute of Development, Aging and Cancer, Tohoku University)
- P1-146** Functions of the p57 imprinted allele in mouse neocortical development
○Yui Imaizumi, Tomoyuki Watanabe, Shohei Furutachi, Daichi Kawaguchi, Yukiko Gotoh (Graduate School of Pharmaceutical Sciences, The University of Tokyo)
- P1-147 (SWS-09)** The Novel G-protein coupled receptor GPR17 is the Negative Feedback Loop component of the Sonic Hedgehog Pathway in the Neural Tube Development
○Atsuki Yatsuzuka, Akiko Hori-Nishi, Minori Kadoya, Noriaki Sasai (Nara Institute of Science and Technology)

- P1-148** Tsukushi affects hippocampal neurogenesis in mouse brain
 ○Shah Adil Ishtiyag Ahmad, Mohammad Badrul Anam, Naofumi Ito, Kunimasa Ohta (Department of Developmental Neurobiology, Graduate School of Life Sciences, Kumamoto University, 1-1-1 Honjo, Kumamoto, Japan.)
- P1-149** High cell density suppresses BMP4-induced differentiation of human pluripotent stem cells to produce macroscopic spatial patterning in a unidirectional perfusion culture chamber
 ○Minh Nguyen Tuyet Le¹, Shota Tashiro¹, Yuta Kusama¹, Eri Nakatani¹, Mika Suga², Miho K Furue², Taku Satoh³, Shinji Sugiura³, Toshiyuki Kanamori³, Kiyoshi Ohnuma¹, Yoshikatsu Tobaru¹ (Nagaoka University of Technology¹, Laboratory of Stem Cell Cultures, National Institutes of Biomedical Innovation, Health and Nutrition, 7-6-8 Saito-Asagi, Ibaraki, Osaka 567-0085, Japan², Research Center for Stem Cell Engineering, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba Central 4, 1-1-1 Higashi, Tsukuba, 5 Ibaraki 305-8562, Japan³)
- P1-150 (WS08-01)** Intravital imaging reveals a role of ERK activity in migration of myoblasts during muscle regeneration.
 ○Yumi Konagaya¹, Michiyuki Matsuda^{1,2}, Kenta Terai¹ (Laboratory of Bioimaging and Cell Signaling Graduate School of Biostudies, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan¹, Department of Pathology and Biology of Diseases, Graduate School of Medicine, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan²)
- P1-151** Precise regulation of neuron-specific Notch signal is required for neuronal differentiation and locomotive behavior.
 ○Shun Fukagawa, Takamasa Mizoguchi, Miku Iihama, Michi Fukada, Xuehui Song, Motoyuki Itoh (Univ. of Chiba)
- P1-152 (WS13-10)** Elucidation of the expansion-to-neurogenic phase transition in neocortical neural progenitor cells
 ○Naohiro Kuwayama, Yusuke Kishi, Yurie Nishiumi, Yukiko Gotoh (Faculty of pharmaceutical science, The university of Tokyo)
- P1-153** Identification of master regulator genes for hepatocyte differentiation in de-differentiated fat (DFAT) cells
 ○Reiko Hagiwara, Yoshinao Oki, Koichiro Kano (College of Bioresource Sciences, Nihon University)

- P1-154 (WS08-09)** Cytological and transcriptomic analyses on adventitious bud formation from the epidermis in cultured stem segments of *Torenia fournieri*.
 ○Hatsune Morinaka¹, Akihito Mamiya¹, Akitoshi Iwamoto², Hiroaki Tamaki¹, Takamasa Suzuki³, Yoshikatsu Sato⁴, Momoko Ikeuchi⁵, Akira Iwase⁵, Keiko Sugimoto⁵, Tetsuya Higashiyama⁴, Munetaka Sugiyama¹ (Univ. Tokyo¹, Tokyo Gakugei Univ.², Chubu Univ.³, Nagoya Univ.⁴, Riken⁵)
- P1-155 (WS17-01)** Warburg-like metabolism coordinates FGF and Wnt signaling in the vertebrate embryo
 ○Masayuki Oginuma, Yukiko Harima, Olivier Pourquie (Harvard Medical School, Brigham and Women's Hospital, Gunma University Institute for Molecular and Cellular Regulation)
- P1-156** Rubicon negatively regulates adipogenesis in 3T3-L1 cells.
 ○Junji Fukumori^{1,2}, Tadashi Yamamuro², Shotaro Saita², Tsuyoshi Kawabata³, Tamotsu Yoshimori² (Faculty of Medicine, Osaka University¹, Department of Genetics, Graduate School of Medicine, Osaka University², Department of Stem Cell Biology, Atomic Bomb Disease Institute, Nagasaki University³)
- P1-157** The analysis of the effect of cell dynamics on Delta-Notch interaction during retinal angiogenesis
 ○Toshiki Oguma¹, Tomoyasu Shinoda², Shuntaro Ogura³, Akiyoshi Uemura³, Takaki Miyata², Philip K. Maini⁴, Takashi Miura¹ (Kyushu Univ.¹, Nagoya Univ.², Nagoya City Univ.³, WCMB, Univ. of Oxford⁴)
- P1-158 (WS16-03)** Mathematical analysis of orixate phyllotaxis
 ○Takaaki Yonekura¹, Akitoshi Iwamoto², Hironori Fujita³, Munetaka Sugiyama¹ (Univ. Tokyo¹, Tokyo Gakugei Univ.², Natl. Inst. Basic Biol.³)
- P1-159** Pericyte coverage of endothelial cells: in vitro experiments and computational modeling
 ○Kei Sugihara¹, Saori Sasaki², Akiyoshi Uemura³, Satoru Kidoaki², Takashi Miura^{1,4} (Univ. of Kyushu Sch. of Med. Sci.¹, Univ. of Kyushu Inst. of Mat. Chem. and Eng.², Nagoya City Univ. Sch. of Med. Sci.³, JST CREST⁴)
- P1-160** A computational methodology for spatiotemporal reconstruction of gene expression in early development of zebrafish

○Yasuhiro Kojima, Hisanori Kiryu (Graduate School of Frontier Sciences, The University of Tokyo)

P1-161 Molecular Mechanisms of Phospholipase C $\delta 1$ in Colorectal Cancer Cells

○Shiori Kubota, Shinobu Asada, Reiko Satow, Kiyoko Fukami (Tokyo University of Pharmacy and Life Sciences, Laboratory of Genome and Biosignals)

P1-162 Oncogenic Ras and p53 mutations cooperate to prime the initial step of tumorigenesis.

○Yukinari Haraoka^{1,2}, Yuki Akieda¹, Tohru Ishitani^{1,2} (Division of Integrated Signaling Systems, Department of Molecular Medicine, Institute for Molecular and Cellular Regulation, Gunma University¹, Graduate School of Medical Sciences, Faculty of Medical Sciences, Kyushu University²)

P1-163 Pathology of MAB21L2 R51C in early eye development

○Long Hei Chan, Yanjiang Guo, King Lau Chow (Hong Kong University of Science and Technology)

P1-164 (WS17-06) Subcellular localization and functional analyses of *Drosophila* *SLC25A46*, mitochondrial diseases causing gene.

○Kojiro Suda, Hideki Yoshida, Masamitsu Yamaguchi (Kyoto Institute of Technology)

P1-165 Temperature preference of cave and surface populations of *Astyanax mexicanus*

○Julius Tabin¹, Ariel Aspiras¹, Brian Martineau¹, Misty Riddle¹, Alex Haro², Johanna Kowalko⁴, Richard Borowsky³, Nicolas Rohner⁵, Cliff Tabin¹ (Harvard University¹, US Geological Survey², New York University³, Iowa State University⁴, Stowers Institute⁵)

P1-166 (YSA-02) Morphological novelty in the vertebrate limb created by the water-to-land transition

○Ingrid Rosenburg Cordeiro¹, Kaori Kabashima¹, Haruki Ochi², Keiji Munakata¹, Chika Nishimori¹, Mara Laslo³, James Hanken³, Mikiko Tanaka¹ (Tokyo Institute of Technology¹, Yamagata University², Harvard University³)

P1-167 Evolutionary cooperativity between mating position and rotation of

male genitalia in Diptera

○Momoko Inatomi¹, Chisako Sakuma², Hiroataka Kanuka², Kenji Matsuno¹
(Osaka Univ.¹, The Jikei Univ. Sch. of Med.²)

P1-168
(SWS-11)

The Role of Retinoic Acid Singalling in Starfish Metamorphosis

○Shumpei Yamakawa, Yoshiaki Morino, Masanao Honda, Hiroshi Wada
(Graduate School of Life and Environmental Sciences, University of Tsukuba)

P1-169

Increased number of spiralian TALE homeobox genes in bivalve lineage and evolution of cell fate segregation program in the early development

○Supanat Phuangphong, Jumpei Tsunoda, Hiroshi Wada, Yoshiaki Morino
(University of Tsukuba)

P1-170

3D cell shape recognition using AI

○Mustafa M. Sami, Takuya Maeda, Shigeo Hayashi (Laboratory for Morphogenetic Signaling, RIKEN Center for Biosystems Dynamics Research, 2-2-3 Minatojima-minamimachi, Chuo-ku, Kobe, Hyogo, Japan)

P1-171
(WS09-04)

A novel genome-integrating vector system for cell and developmental biology studies

○Takuma Kumamoto¹, Raphaëlle Barry¹, Samuel Tozer¹, Franck Maurinot¹, Célia Vaslin², Mickaël Le¹, Stéphane Nedelec², Karine Loulier¹, Jean Livet¹ (Sorbonne Université, INSERM, CNRS, Institut de la Vision¹, Sorbonne Université, INSERM, Institut du Fer à Moulin²)

P1-172
(WS09-10)

Non-labeled cancer cell analysis in anhydrous condition using CMOS biosensor integrated circuit (IC) with 20/60/120-GHz oscillator arrays

○Shojiro Kikuchi¹, Mika Sawada¹, Tetsuhito Suzuki², Keiichiro Shiraga³, Takeshi Matsui³, Takeshi Mitsunaka⁴, Masafumi Yamanoue⁴, Yuichi Ogawa² (Institute for Advanced Medical Science, Hyogo College of Medicine¹, Graduate School of Agriculture, Kyoto University², RIKEN Center for Integrative Medical Sciences³, Sharp Corporation, Electronic Components and Devices BU⁴)

P1-173

Rapid clearing and labeling of mouse cochlea by modified Sca/eS enable exhaustive analysis of hair cell

○Shinji Urata, Tadatsune Iida, Yu Mizushima, Chisato Fujimoto, Yu Matsumoto, Tatsuya Yamasoba, Shigeo Okabe (The University of Tokyo)

P1-174
(WS09-06)

Optical measurement of neuronal activity in zebrafish brain by genetically encoded voltage indicators

○Kanoko Okumura¹, Hiroaki Miyazawa¹, Kanae Hiyoshi¹, Kazuhiro Maruyama¹, Hisaya Kakinuma², Ryunosuke Amo², Hitoshi Okamoto², Kyo Yamasu¹, Sachiko Tsuda^{1,3} (Graduate School of Science and Engineering, Saitama University¹, Riken Brain Science Institute², Research and Development Bureau, Saitama University³)

Discussion 2: June 7 (Thu) 13:50-14:50 for odd number posters
14:50-15:50 for even number posters

- P2-001** Single-Cell Gene Expression Analysis with Vertical Flow Array Chips
○Kiyomi Taniguchi, Tomoyuki Sakai, Masataka Shirai (Hitachi, Ltd. Research & Development Group)
- P2-002 (SWS-01)** LINC complex component, SUN1 play a role in the Golgi complex organization without nesprins
Taizo Matsumoto¹, Yu Nishioka², Mari Isobe³, Satoshi Kametaka³, Hiroshi Kimura⁴, Nariaki Matsuura², ○Miki Hieda^{1,2} (Ehime Prefectural University of Health Sciences¹, Osaka University, Graduate School of Medicine and Health Sciences², Nagoya University Graduate School of Medicine³, Tokyo Institute of Technology, Institute of Innovative Research⁴)
- P2-003 (WS10-03)** Molecular basis of kinetochore recruitment of the RZZ complex and its roles in the establishment of bi-orientation during mitosis in human cells
○Masanori Ikeda, Kozo Tanaka (Department of Molecular Oncology, Institute of Development, Aging and Cancer, Tohoku University)
- P2-004** Significance of Hey1 transcription factor in pharyngeal arch artery formation and regulatory mechanisms of its expression during embryonic development
○Yusuke Watanabe^{1,2}, Toshiharu Fukayama¹, Shuhei Ishii^{1,2}, Taiki Uemoto^{1,2}, Masahide Fujita¹, Yoshie Isomoto³, Yuji Arai³, Atsushi Kubo⁴, Hiroyuki Yamagishi⁵, Osamu Nakagawa^{1,2} (Department of Molecular Physiology, National Cerebral and Cardiovascular Center Research Institute¹, Nara Medical University Graduate School of Medical Sciences², Laboratory of Animal Experiment and Medicine Management, National Cerebral and Cardiovascular Center Research Institute³, Department of Developmental Neurobiology, Institute of Development Aging and Cancer, Tohoku University⁴, Department of Pediatrics, Keio University School of Medicine⁵)
- P2-005** Requirement for p53 in intra-nuclear dynamics of the K27-trimethylated histone H3 during DNA replication
○Tsukasa Oikawa, Yuki Shino, Suguru Kurosawa, Yasuhito Onodera, Yutaro Otsuka, Ari Hashimoto, Hisataka Sabe (Dept. Molecular Biology,

Grad. Sch. Med. Hokkaido Univ.)

- P2-006** Contribution of nuclear pore complex to DNA damage-induced sister chromatid cohesion through promoting SUMOylation of cohesin
○Yukako Oma, Yuki Orihara, Daisuke Takahashi, Tatsunori Konishi, Masahiko Harata (Lab. Mol. Biol., Grad. Sch. Agric. Sci., Tohoku Univ.)
- P2-007** The wild-type *Xenopus laevis* is an asymptomatic carrier of aniridia-like *pax6* mutations
○Yui Iwata¹, Mikio Tanouchi¹, Takeshi Igawa¹, Kiyoko Sakagami², Haruki Ochi³, Hajime Ogino¹ (Amph. Res. Center, Hiroshima Univ.¹, Dept. Ani-Bio., Nagahama Inst. of Bio-Sci. Tech.², Fac. Med., Yamagata Univ.³)
- P2-008 (SWS-02)** Nuclear transport system responds in a multistep mechanism depending on temperature rises
○Yutaka Ogawa, Naoko Imamoto (Cellular Dynamics Laboratory, RIKEN)
- P2-009 (WS10-01)** How to measure absolute quantity of tRNAs.
Akihisa Nagai, Kouhei Mori, Yuma Shiomi, ○Tohru Yoshihisa (Graduate School of Life Science, University of Hyogo)
- P2-010** Cytoplasmic Deadenylase Ccr4 is Required for Translational Repression of Puf5 mRNA targets in the Stationary Phase in *Saccharomyces cerevisiae*
○Long-Duy Duong¹, Yasuyuki Suda^{1,2}, Kenji Irie¹ (Department of Molecular Cell Biology, Graduate School of Comprehensive Human Sciences and Faculty of Medicine, University of Tsukuba, Tsukuba, Japan¹, Live Cell Super-resolution Imaging Research Team, RIKEN Center for Advanced Photonics, Wako, Saitama, Japan²)
- P2-011** Assembly of nuclear envelope-like structures around artificial beads in living cells
○Shouhei Kobayashi¹, Takako Koujin¹, Tomoko Kojidani^{1,2}, Hiroko Osakada¹, Chie Mori¹, Yasushi Hiraoka^{1,3}, Tokuko Haraguchi^{1,3} (Adv. ICT Res. Inst. Kobe, NICT¹, Japan Women's University², Grad. Sch. Frontier BioSciences, Osaka Univ.³)
- P2-012** Wave generation mediated by Hedgehog signaling and its target gene: A key link between axis specification and segmentation
○Yasuko Akiyama-Oda^{1,2}, Hiroki Oda² (Osaka Medical College¹, JT Bio-

history Research Hall²)

- P2-013** Identification of the X-linked germ cell specific miRNAs (XmiRs) and their functions
○Hiromitsu Ota, Yumi Matsuoka, Yasuhisa Matsui (Institute of Development, Aging and Cancer, Tohoku University)
- P2-014** Regulatory mechanisms of serotonin-enhanced hyperactivation in hamster sperm
○Masakatsu Fujinoki (Department of Physiology, Dokkyo Medical University)
- P2-015 (WS11-06)** Regulatory mechanisms and biological significance of metabolic shift in mouse primordial germ cell development
○Yohei Hayashi^{1,2,3}, Keiko Tanaka^{1,4}, Kei Otsuka¹, Masayuki Ebina^{5,6}, Kaori Igarashi⁷, Asuka Takehara¹, Mitsuyo Matsumoto^{5,8}, Akio Kanai⁷, Kazuhiko Igarashi^{3,5,8}, Tomoyoshi Soga⁷, Yasuhisa Matsui^{1,2,3,8} (Cell Resource Center for Biomedical Research, Institute of Development, Aging and Cancer (IDAC), Tohoku University¹, Graduate School of Life Sciences, Tohoku University², The Japan Agency for Medical Research and Development-Core Research for Evolutional Science and Technology (AMED-CREST)³, Department of Obstetrics and Gynecology, Tohoku University Hospital⁴, Department of Biochemistry, Tohoku University School of Medicine⁵, Department of Integrative Genomics, Tohoku Medical Megabank Organization (ToMMO), Tohoku University School of Medicine⁶, Institute for Advanced Biosciences, Keio University⁷, Center for Regulatory Epigenome and Diseases, Tohoku University School of Medicine⁸)
- P2-016 (WS11-04)** RSK-MASTL pathway delays meiotic exit in mouse zygotes to ensure paternal chromosome stability
○Shou Soeda^{1,2}, Kaori Yamada-Nomoto³, Miho Ohsugi² (Okinawa Institute of Science and Technology¹, Graduate School of Arts and Sciences, The University of Tokyo², Faculty of Medicine, Toyama University³)
- P2-017 (WS11-05)** Identification of a new maternal factor involved in germ cell formation in the *Drosophila* embryos
Takashi Yoshitani^{1,2,4}, Hirono Kina^{1,2,4}, Tsubasa Tanaka^{1,2,3}, Kazuko Hanyu-Nakamura¹, ○Akira Nakamura^{1,2,3} (Institute of Molecular Embryology and Genetics, Kumamoto University¹, School of Pharmacy, Kumamoto Uni-

versity², Graduate School of Pharmaceutical Sciences, Kumamoto University³, Equal contribution⁴)

- P2-018** Six1 and Six4 regulate the number of germ cell progenitors in mice
Yasuka L Yamaguchi¹, Kiyoshi Kawakami², Ryuichi Nishinakamura³,
○Sato-mi S Tanaka¹ (Kumamoto Health Science Univ.¹, Jichi Med. Univ.²,
Kumamoto Univ.³)
- P2-019**
(WS11-02) Blockage of sperm Ca²⁺-permeable channels involves the maintenance of its quality for fertilization in the newt, *Cynops pyrrhogaster*.
○Akihiko Watanabe¹, Eriko Takayama-Watanabe², Nanae Makino¹ (Biol. Div., Fac. of Sci., Yamagata Univ.¹, Inst. of Arts and Sci., Yamagata Univ.²)
- P2-020** Differences in developmental process causing morphological diversity of seminal receptacles among Drosophildae species.
○Tatsuhiko Noguchi (National Defense Medical College)
- P2-021** The chromodomain protein MRG-1 is required for global transcriptional repression in the primordial germ cells in *C. elegans*.
○Takashi Miwa¹, Teruaki Takasaki², Kunio Inoue¹, Hiroshi Sakamoto¹ (Dept. of Biol., Grad. Sch. of Sci., Kobe Univ.¹, Fac. of Pharm., Kindai Univ.²)
- P2-022** The translocation of avian primordial germ cells into vascular tissue occurs prior to vascular network formation
○Hidetaka Murai, Minami Shibuya, Koji Tamura, Daisuke Saito (Tohoku University)
- P2-023** Cadherin-7 enhances Sonic Hedgehog signaling by preventing Gli3 repressor formation during neural tube patterning
○Rie Kawano¹, Kunimasa Ohta², Giuseppe Lupo³ (Department of Medical Oncology and Hematology, Oita University Faculty of Medicine, Oita, Japan¹, Division of Developmental Neurobiology, Graduate School of Life Sciences, Kumamoto University, Kumamoto, Japan², Department of Chemistry, Sapienza University of Rome, Rome, Italy³)
- P2-024** Naringenin inhibited migration and invasion of glioblastoma cells via multiple mechanisms
Shih-Ming Chen, Kuan-Yi Wang, ○Li-Sung Hsu (Institute of Biochemistry, Microbiology, and Immunology, Chung Shan Medical University)

- P2-025
(WS02-06)** Snail interacts with FoxO to modulate JNK-dependent cell death in *Drosophila*
 ◦Chenxi Wu^{1,2} (College of Chinese Medicine, North China University of Science and Technology, China¹, School of Life Science and Technology, Tongji University, China²)
- P2-026** Why established cell lines require passage to maintain infinite life span?
 ◦Tomoyuki Tajima, Yoshifusa Kondo (Ichikawa-Clinic)
- P2-027
(WS02-03)** PLEKHN1 promotes apoptosis by enhancing Bax/Bak hetero-oligomerization through the interaction with Bid in human colon cancer
 ◦Sei Kuriyama (Akita University)
- P2-028** GRP78 is involved in endothelin B receptor signaling
 ◦Yuichi Mazaki¹, Tsunehito Higashi¹, Takahiro Horinouchi¹, Ari Hashimoto², Shigeru Hashimoto³, Jin-Min Nam⁴, Yasuhito Onodera² (Dept. Cell. Pharm., Grad. Sch. Med., Hokkaido Univ.¹, Dept. Mol. Biol., Grad. Sch. Med., Hokkaido Univ.², Dept. Immunol. Reg., iFRec, Osaka Univ.³, GSQ, GI-CoRE, Hokkaido Univ.⁴)
- P2-029
(WS02-11)** Crosstalk between JNK and p38 kinase generates cell-to-cell variation in JNK activity dynamics and determines a cell fate decision
 ◦Haruko Miura^{1,2}, Michiyuki Matsuda^{2,3}, Kazuhiro Aoki^{1,4} (Div. Quant. Biol., OIIB, NIBB, NINS¹, Lab. Bioimaging Cell Signal., Grad. Sch. Biostudies, Kyoto Univ.², Dept. Pathol. Biol. Dis., Grad. Sch. Med., Kyoto Univ.³, Dept. Basic Biol., Sch. Life Sci., SOKENDAI⁴)
- P2-030** RIPK1 Functions as a pH-Sensing Kinase that Regulates TNF-induced Cell Death
 ◦Kenta Moriwaki (Dept of Cell Biology, Osaka Univ. Grad. Sch. of Med.)
- P2-031** Cancelled.
- P2-032** Oligomerization-based assembly restricts Wnt protein diffusion
 ◦Ritsuko Takada¹, Yusuke Mii¹, Elena Krayukhina², Chan-Gi Park³, Yasushi Sako³, Susumu Uchiyama², Shinji Takada¹ (NIBB, NINS¹, Osaka Univ.², RIKEN³)
- P2-033
(WS02-07)** Multiplexed live cell imaging reveals a distinct role of ERK and Akt activity in cell cycle progression.

○Gembu Maryu^{1,3}, Michiyuki Matsuda^{1,2}, Kazuhiro Aoki³ (Graduate school of Biostudies, Kyoto University¹, Graduate School of Medicine, Kyoto University², Division of Quantitative Biology, National Institute of Basic Biology³)

- P2-034** Development of FRET-based biosensors for measuring tyrosine kinase activity in living cells
○Mari Fujioka, Yoichiro Fujioka, Aya O Satoh, Prabha Nepal, Sayaka Kashiwagi, Aiko Yoshida, Sarad Paudel, Asuka Nanbo, Yusuke Ohba (Dept. Cell Physiol., Fac. Med. and Grad. Sch. Med. Hokkaido Univ.)
- P2-035** Genetic analysis of cell death-mediated robust coordination of tissue growth in *Drosophila*
○Yukiko Inui, Shizue Ohsawa, Tatsushi Igaki (Graduate School of Biostudies, Kyoto University)
- P2-036 (WS02-04)** The cell-type specific functions of an ER modulating factor, Pecanex in Notch and Wnt signaling pathways
○Tomoko Yamakawa, Kenji Matsuno (Osaka University)
- P2-037** Mechanism that fluid flow establishes left-right asymmetric decay of *Cerl2* mRNA
○Katsura Minegishi, Hiroshi Hamada (RIKEN)
- P2-038** PI3,5P₂-dependent localizaiton of Sch9 to vacuolar membranes contributes to selective regulation of TORC1-Sch9 signaling upon stress in *Saccharomyces cerevisiae*
Eigo Takeda, ○Akira Matsuura (Grad. Sch. of Sci., Chiba Univ.)
- P2-039** Nanoscale morphological analysis of primary cilia and ciliary pocket using scanning ion-conductance microscopy
○Yuanshu Zhou¹, Masaki Saito², Takafumi Miyamoto¹, Takeshi Fukuma^{1,3}, Yasufumi Takahashi^{1,3,4} (Division of Electrical Engineering and Computer Science, Kanazawa University¹, Department of Molecular Pharmacology, Tohoku University Graduate School of Medicine², WPI-NanoLSI, Kanazawa University³, JST-PRESTO⁴)
- P2-040 (WS02-05)** ER-resident BH3-only protein, BNip1, is a safe guard that limits the upper threshold of vesicular transport
○Yuko Nishiwaki, Kimberlie Ward, Ichiro Masai (Okinawa Institute of Science and Technology)

- P2-041** p53-dependent apoptosis eliminates surplus and/or less-fit cells from epiblast in embryonic stem cell chimeras.
Yuki Yuri, Masakazu Hashimoto, Yusuke Takenoshita, Hiroshi Sasaki (Osaka University, Graduate School of Frontier Biosciences)
- P2-042 (WS02-09)** Composite regulation of ERK activity dynamics underlying tumor-specific traits in the intestine
Masamichi Imajo¹, Yu Muta^{2,3}, Michiyuki Matsuda^{1,3} (Lab. Bioimag. Cell Signal., Grad. Sch. of Biostud., Kyoto Univ.¹, Dept. Gastroenterol. Hepatol., Grad. Sch. of Med., Kyoto Univ.², Dept. Pathol. Biol. Dis., Grad. Sch. of Med., Kyoto Univ.³)
- P2-043** Crumbs and Xpd regulate mitotic motor kinesin-5 for chromosome segregation in *Drosophila*
Jihyun Hwang¹, Linh Thuong Vuong², Kwang-Wook Choi¹ (Korea Advanced Institute of Science and Technology¹, Icahn School of Medicine at Mount Sinai, New York, U.S.A.²)
- P2-044** Recruitment of SH3YL1 to mitochondrial membrane during cell death
Toshiki Itoh, Hikaru Yamamoto (Kobe University, Biosignal Research Center)
- P2-045** Function of the Iron-sulfur Cluster Assembly Protein Cia1 in Growth Regulation in *Drosophila*
Jean Jung¹, Eunbyul Yeom², Kwang-Wook Choi¹ (Korea Advanced Institute of Science and Technology¹, Korea Research Institute of Bioscience and Biotechnology²)
- P2-046** Adaptor function of a calcium-binding protein ALG-2 in doxorubicin-induced apoptosis
Kanakano Mori, Ryuta Inukai, Terunao Takahara, Masatoshi Maki, Hideki Shibata (Grad. Sch. of Bioagric. Sci., Nagoya Univ.)
- P2-047** Uncovering a novel and distinctive mode of atypical cell death that is induced by non-thermal atmospheric pressure plasma
Kazufumi Nomura¹, Chiaki Ishinada¹, Keiichiro Hyakutake¹, Hiromasa Tanaka², Masaru Hori², Takuya Suemoto¹, Ko Eto³ (Dept. of Biol. Sci, Fac. of Sci., Kumamoto univ.¹, Institute of Innovation for Future Society, Nagoya Univ.², Dept. of Biol. Sci., Grad. Sch. of Sci. Tech., Kumamoto Univ.³)

- P2-048** Extract from a Philippine Endemic Plant Reverses Cancer Multidrug Resistance
 ○Regina Joyce E. Ferrer, Sonia D. Jacinto (Institute of Biology, University of the Philippines - Diliman)
- P2-049** Isolate from a Philippine Endemic Plant Exhibits Cytotoxic Activity Against Human Colorectal Cancer (HCT-116) Cells
 ○Jeff Deloso Dela Cruz, Sonia D. Jacinto (Mammalian Cell Culture Laboratory - Institute of Biology, University of the Philippines Diliman)
- P2-050** Nuclear envelope localization of PIG-B is essential for GPI-anchor synthesis in *Drosophila*
 ○Miki Yamamoto-Hino¹, Eri Katsumata¹, Emiko Suzuki², Yusuke Maeda³, Taroh Kinoshita³, Satoshi Goto¹ (Dept. of Life Sci., Rikkyo Univ.¹, NIG², RIMD., Osaka Univ.³)
- P2-051** DENND1A, but not DENND1B or DENND1C, regulates podocalyxin trafficking in epithelial cysts
 ○Riko Kinoshita, Yuta Homma, Mitsunori Fukuda (Lab. of Membr. Trafficking Mech., Grad. Sch. of Life Sci., Tohoku Univ.)
- P2-052 (WS14-06)** Physical modeling for mitochondrial shape and size regulation
 ○Masashi Tachikawa (Riken)
- P2-053** Functional analysis of a SNARE protein SNAP23 in mouse brain development.
 ○Masataka Kunii, Shin-ichiro Yoshimura, Akihiro Harada (Dept. of Cell Biol., Grad. Sch. of Med., Osaka Univ.)
- P2-054** The Role of tubulin in the regulation of endocytosis mediated by Ras-PI3K signaling
 ○Sarad Paudel, Yoichiro Fujioka, Aya O. Satoh, Mari Fujioka, Kosui Horiuchi, Prabha Nepal, Sayaka Kashiwagi, Aiko Yoshida, Asuka Nanbo, Yusuke Ohba (Department of Cell Physiology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan)
- P2-055** Regulation of the expression and function of YIPF proteins at the Golgi apparatus
 Shaheena Shaik², Shiho Osako², Shusuke Ijiri¹, Soonthornsit Jeerawat^{2,3},
 ○Nobuhiro Nakamura^{1,2} (Fac Life Sci, Kyoto Sangyo Univ¹, Div Life Sci, Grad Sch, Kyoto Sangyo Univ², Dept Preclin Appl Animal Sci, Fac Vet,

Mahidol Univ³)

- P2-056** Essential components of Transamidase complex (TAC) for formation of large assembly
○Tatsuro Sato, Seri Takaki, Miki Yamamoto-Hino, Satoshi Goto (Rikkyo University)
- P2-057 (WS03-02)** Phosphorylation of TANGO1 regulates localization and function of ER exit sites
○Miharu Maeda¹, Toshiaki Katada², Kota Saito¹ (Dept. of Biol. Informatics and Experimental Therapeut., Grad. Sch. of Medicine, Akita Univ.¹, Faculty of Pharmacy, Musashino Univ.²)
- P2-058** Membrane vesiculation by ANKHD1 protein regulates enlargement of the early endosome.
○Manabu Kitamata, Kyoko Hanawa-Suetsugu, Kohei Maruyama, Shiro Suetsugu (Grad. Sch. of Biol. Sci., Nara Inst of Sci. Tech., Japan)
- P2-059 (WS03-03)** Endosomal Q-SNARE Syntaxin 7 specifies a subpopulation of recycling synaptic vesicles preferentially responsive to high frequency stimulation
○Yasunori Mori¹, Yugo Fukazawa², Shigeo Takamori¹ (Doshisha Univ.¹, Fukui Univ.²)
- P2-060** Role of inner mitochondrial membrane proteins in the regulation of endocytosis mediated by Ras-PI3K signaling
○Prabha Nepal, Yoichiro Fujioka, Aya O. Satoh, Kosui Horiuchi, Sarad Paudel, Sayaka Kashiwagi, Aiko Yoshida, Mari Fujioka, Asuka Nanbo, Yusuke Ohba (Department of Cell Biology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan)
- P2-061** Characterization of the novel inhibitor for protein secretion
○Ayano Satoh¹, Hideyuki Suzuki¹, Mitsuko Hayashi-Nishino², Kunihiko Nishino², Yuta Nishina¹ (Okayama University¹, Institute of Scientific and Industrial Research, Osaka University²)
- P2-062** AGC family kinase 1 participates in trogocytosis but not in phagocytosis in *Entamoeba histolytica*
Som Iata², ○Kumiko Tsukui¹, Tomoyoshi Nozaki³ (Natl. Inst. Infect. Dis.¹, Jawaharlal Nehru Univ.², Univ. of Tokyo³)

- P2-063** Intracellular transport pathways of lactoferrin-GFP in intestinal epithelial cells
Asuka Nagae¹, Daita Nadano¹, Tsukasa Matsuda¹, Hiroyuki Wakabayashi², Koji Yamauchi², Fumiaki Abe², [○]Kenzi Oshima¹ (Nagoya University, Graduate School of Bioagricultural Sciences¹, Morinaga Milk Industry Co., Ltd., Food Ingredients & Technology Institute²)
- P2-064** The nuclear transport factor importin $\alpha 4$ is involved in normal male fertility and brain development in mouse
[○]Yoichi Miyamoto¹, Taichi Itou², Makiko Morita², Masahiro Nagai², Mitsuho Sasaki¹, Tetsuji Moriyama³, Kate L Loveland⁴, Yoshihiro Yoneda¹, Takatoshi Hikida², Masahiro Oka¹ (Natl Inst. of Biomed. Innov., Health and Nutr.¹, Osaka Univ.², Univ. of Fukui³, Hudson Inst. of Med Res.⁴)
- P2-065** 4D imaging of membrane traffic in the neuronal growth cone
[○]Takuro Tojima, Akihiko Nakano (RIKEN Center for Advanced Photonics)
- P2-066** Reconstitution of membrane tethering mediated by human Rab-family small GTPases in a chemically defined system
[○]Joji Mima (IPR, Osaka Univ.)
- P2-067** EHBP1L1 binds CD2AP
[○]Shin-ichiro Yoshimura, Akihiro Harada (Osaka Univ.)
- P2-068** Live-cell imaging of antitrypsin Z-variant polymer inclusion
[○]Seisuke Arai, Takahisa Suzuki, Ikuo Wada (Dep. Cell Sci., Fukushima Med. Univ.)
- P2-069 (WS03-12)** Exophilin-8/MyRIP/Slac2C assembles secretory granules for exocytosis in the actin cortex via interaction with RIM-BP2 and myosin-VIIa
[○]Kohichi Matsunaga¹, Fushun Fan¹, Hao Wang¹, Ray Ishizaki¹, Eri Kobayashi¹, Hiroshi Kiyonari³, Yoshiko Mukumoto³, Katsuhide Okunishi¹, Tetsuro Izumi^{1,2} (Laboratory of Molecular Endocrinology and Metabolism, Department of Molecular Medicine, Institute for Molecular and Cellular Regulation¹, Research Program for Signal Transduction, Division of Endocrinology, Metabolism and Signal Research, Gunma University Initiative for Advanced Research², Animal Resource Development Unit, and Genetic Engineering Team, RIKEN Center for Life Science Technologies³)

- P2-070** Rab11-mediated regulation of cell-surface MHC-II on dendritic cells
 ◦Kazuyuki Furuta, Yuka Satoh, Mahiro Kuroda, Satoshi Tanaka (Okayama Univ. Grad. Sch. Med., Dent., Pharmac. Sci.)
- P2-071** Determine which ArfGAPs regulate secretory granule formation of Von Willebrand Factor
 ◦Yoko Shiba, Asano Watanabe (Faculty of Sci. and Eng. Iwate University)
- P2-072** Conserved overlapping coding frame regulates two type of XBP1 functions
 ◦Masaaki Koike, Kenji Kohno (Nara Institute of Science and Technology (NAIST))
- P2-073 (WS14-09)** Lemur kinase 1 (LMTK1) regulates dendritic spine formation negatively through Rab11 GAP
 Hironori Nishino¹, Akiko Asada¹, Taro Saito¹, Kanae Ando¹, Mineko Tomomura², Mitsunori Fukuda³, ◦Shin-ichi Hisanaga¹ (Tokyo Metropolitan University¹, Meikai University², Tohoku University³)
- P2-074** Subcompartmental localization of the Golgi kinase Four-jointed in Drosophila cells
 ◦Hiroyuki O. Ishikawa, Takuya Okada, Atsuya Nakazawa, Yoko Keira (Chiba Univ.)
- P2-075** Studies on phagocytic uptake of yeast spores
 ◦Hideki Nakanishi¹, Qin Wang¹, Yang Yan¹, Xiao-Dong Gao¹, Hiroyuki Tachikawa² (Jiangnan Univ.¹, Univ. of Tokyo²)
- P2-076 (WS10-08)** The CLIP-cohibin system promotes nucleophagy after TORC1 inactivation in yeast
 Golam Md. Mostofa, Arifur Muhammad Rahman, ◦Takashi Ushimaru (Graduate School of Science and Technology, Shizuoka University)
- P2-077 (WS14-04)** Elucidating the mechanism of selective mitochondrial fusion by OPA1 and cardiolipin
 ◦Tadato Ban, Naotada Ishihara (Dept. of Protein Biochem., Inst. of Life Science, Kurume Univ.)
- P2-078** Phosphorylated SNAP-23 at Ser95 by IκB kinase 2 negatively regulates FcR-mediated phagosome maturation in macrophages
 ◦Chiye Sakurai¹, Ikuo Wada², Kiyotaka Hatsuzawa¹ (Div. Molecular Biol.,

Sch. of Life Sci., Faculty of Med., Tottori Univ.¹, Dept. Cell Sci., Inst. Biomed. Sci., Sch. of Med., Fukushima Med. Univ.²)

- P2-079**
(WS03-07) Regulation of localization and function of syntaxin 17 by 14-3-3 epsilon
Kengo Yoshinaga¹, Kohei Arasaki¹, Naoshi Dohmae², [○]Mitsuo Tagaya¹
(Tokyo Univ. of Pharm. & Life Sci.¹, RIKEN CSRS²)
- P2-080** Molecular mechanisms of *Streptococcus pneumoniae*-targeted selective autophagy via Golgi-resident Rab41 and Nedd4-1 mediated K63-linked ubiquitination
[○]Michinaga Ogawa¹, Naoki Takada¹, Sayaka Shizukuishi¹, Isei Tanida², Mitsunori Fukuda³, Makoto Ohnishi¹ (Department of Bacteriology I, National Institute of Infectious Diseases¹, Department of Cell Biology and Neuroscience, Graduate School of Medicine, Juntendo University², Laboratory of Membrane Trafficking Mechanisms, Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University³)
- P2-081** Visualisation of protein transport between the endoplasmic reticulum and the Golgi complex
[○]Hitoshi Hashimoto, Seisuke Arai, Ikuo Wada (Fukushima Medical University)
- P2-082** GGA2 supports cell growth by sustaining EGFR expression in cancer cells
[○]Takefumi Uemura, Satoshi Waguri (Fukushima Medical University)
- P2-083** Mysterin, the moyamoya disease gene, is a regulator of cellular fat metabolism.
[○]Daisuke Morito¹, Munechika Sugihara², Shiori Ainuki², Yoshinobu Hirano³, Kazutoyo Ogino³, Akira Kitamura⁴, Hiromi Hirata³, Kazuhiro Nagata^{1,2} (Institute for Protein Dynamics, Kyoto Sangyo University¹, Faculty of Life Sciences, Kyoto Sangyo University², College of Science and Engineering, Aoyama Gakuin University³, Faculty of Advanced Life Science, Hokkaido University⁴)
- P2-084**
(WS14-08) Visualization of GPI-anchored proteins sorting in the ER
[○]Kazuo Kurokawa¹, Atsuko Ikeda², Koichi Funato², Manuel Muñiz³, Akihiko Nakano¹ (Riken RAP¹, Hiroshima Univ.², Univ. of Seville³)

- P2-085
(WS14-05)** Degradation pathway mediated by the two AAA-ATPase Msp1 and Cdc48 for the mistargeted tail-anchored proteins on the mitochondrial outer membrane
 ○Shunsuke Matsumoto¹, Kunio Nakatsukasa², Yasushi Tamura³, Masatoshi Esaki⁴, Toshiya Endo¹ (Kyoto sangyo univ.¹, Nagoya city univ.², Yamagata univ.³, Kumamoto univ.⁴)
- P2-086
(WS10-09)** Analysis of the proteoglycan pathway of the mammalian Golgi stress response that regulates the transcription of glycosylation enzymes for proteoglycans
 ○Mai Taniguchi, Ryota Komori, Chiho Okuda, Ryuya Tanaka, Kanae Sasaki, Sadao Wakabayashi, Hiderou Yoshida (University of Hyogo)
- P2-087
(WS03-01)** Regulation mechanism of the phosphatidylserine flippase ATP11C
 Hiroyuki Takatsu, Masahiro Takayama, Kazuhisa Nakayama, ○Hye-Won Shin (Graduate School of Pharmaceutical Sciences, Kyoto University)
- P2-088** Proteomic mapping of ER-Golgi contact sites identifies the V-ATPase subunit ATP6V0A2 as a potential regulator of cargo processing during CARTS biogenesis
 ○Yuichi Wakana¹, Mutsumi Tateishi¹, Rei Okuma¹, Chiaki Watanabe¹, Masato Taoka², Mitsuo Tagaya¹ (Tokyo Univ. of Pharm. & Life Sci.¹, Tokyo Metropolitan Univ.²)
- P2-089
(WS14-01)** Identification of cAMP-dependent protein kinase A as a novel selective substrate for autophagy
 ○Yoshitaka Kurikawa¹, Koji L. Ode², Hiroki R. Ueda^{2,3}, Noboru Mizushima¹ (Dept. of Mol. Biol., Grad. Sch. of Med, Univ. of Tokyo¹, Dept. of Sys. Pharm., Grad. Sch. of Med, Univ. of Tokyo², QBiC, RIKEN³)
- P2-090** Src in endosomal membranes promotes secretion of exosomes and tumor progression
 ○Chitose Oneyama^{1,2}, Tomoya Hikita¹, Atsushi Kuwahara¹ (Dept. of Cellular Regulation, Aichi Cancer Ctr. Res. Inst.¹, JST, PRESTO²)
- P2-091
(WS03-11)** Involvement of actin dynamics in the endocytic process revealed by fast-scanning atomic force microscopy
 ○Aiko Yoshida¹, Nobuaki Sakai³, Yoshitsugu Uekusa³, Shige H Yoshimura², Yusuke Ohba¹ (Univ. of Hokkaido¹, Kyoto Univ.², Olympus Co.³)

- P2-092** Endosomal phosphatidylserine is critical for the YAP signalling pathway in proliferating cells
 ○Kojiro Mukai¹, Tatsuyuki Matsudaira¹, Hiroyuki Arai^{1,2}, Tomohiko Taguchi^{1,3} (Department of Health Chemistry, Graduate School of Pharmaceutical Sciences, the University of Tokyo¹, AMED-CREST², AMED-PRIME³)
- P2-093** Functional characterization of SPG12 in C2C12 myoblast
 Kazuki Takagaki, Makoto Morinaga, Mari Isobe, ○Satoshi Kametaka (Nagoya University Graduate School of Medicine)
- P2-094** Functional characterization of a novel cilia-related gene, *Hoatzin*, unveils the presence of distinct, tissue-specific mechanisms for motile ciliogenesis
 ○Keishi Narita¹, Hiroaki Nagatomo², Sen Takeda¹ (Department of Anatomy and Cell Biology, Faculty of Medicine, University of Yamanashi¹, Center for Life Science Research, University of Yamanashi²)
- P2-095** The molecular mechanism of cell polarity in various cell types
 ○Akihiro Harada (Osaka University)
- P2-096** De novo synthesis of phosphatidylcholine and autophagic membrane formation
 ○Yuta Ogasawara, Toyoshi Fujimoto (Department of Anatomy and Molecular Cell Biology, Nagoya University Graduate School of Medicine)
- P2-097 (WS01-03)** Albatross/BBF1 integrates centrosome dynamics
 ○Akihito Inoko¹, Tomoki Yano², Tatsuo Miyamoto³, Shinya Matsuura³, Tohru Kiyono⁴, Naoki Goshima⁵, Masaki Inagaki¹, Yuko Hayashi¹ (Division of Biochemistry, Aichi Cancer Center Research Institute¹, Laboratory of Biological Science, Graduate School of Frontier Biosciences and Graduate School of Medicine, Osaka University², Department of Genetics and Cell Biology, Research Institute for Radiation Biology and Medicine, Hiroshima University³, Division of Carcinogenesis and Cancer Prevention, National Cancer Center Research Institute⁴, Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology⁵)
- P2-098** The role of cytoplasmic proteins on cell polarity formation of asymmetric cell division
 Tomohiro Nakahara¹, ○Sungrim Seirin-Lee^{1,2} (Hiroshima University¹, JST

PRESTO²)

- P2-099 (WS01-09)** Mechanism of Catalytic Microtubule Depolymerization via KIF2-tubulin Transitional Conformation
○Tadayuki Ogawa¹, Shinya Saijo², Nobutaka Shimizu², Xuguang Jiang¹, Nobutaka Hirokawa¹ (Department of Cell Biology and Anatomy, University of Tokyo, Graduate School of Medicine¹, Photon Factory, Institute of Materials Structure Science, High Energy Accelerator Research Organization²)
- P2-100** Change in Shape Fluctuation and Migration of Human Gastric Cells Induced by Cancer Progression
○Akihisa Yamamoto^{1,2}, Yusuke Sakamaki², Tatsuaki Tsuruyama^{1,3}, Motomu Tanaka^{2,4,5} (Center for Anatomical, Pathological and Forensic Medical Researches, Graduate School of Medicine, Kyoto University¹, Institute for Integrated Cell-Material Sciences, Kyoto University², Department of Drug Discovery Medicine, Graduate School of Medicine, Kyoto University³, Institute for Physical Chemistry, University of Heidelberg⁴, Center for Integrative Medicine and Physics, Institute for Advanced Study, Kyoto University⁵)
- P2-101 (WS06-07)** KIF2A regulates the development of dentate granule cells and post-natal hippocampal wiring
○Noriko Homma^{1,2}, Ruyun Zhou^{2,4}, Muhammad Imran Naseer³, Adeel G Chaudhary³, Mohammed H Al-Qahtani³, Nobutaka Hirokawa^{2,3} (National College of Nursing¹, Graduate School of Medicine, University of Tokyo², Center of Excellence in Genomic Medicine Research, King Abdula University³, Jichi Medical School⁴)
- P2-102** Dynamics of Actin and Actin-binding Proteins during Wound Repair in *Dictyostelium* Cells
○Md. Shahabe Uddin Talukder, Shigehiko Yumura (Dep. Life Sci., Grad. Sch. of Sci. Tech. for Innov., Yamaguchi University.)
- P2-103** The novel concept of the functional disorders and diseases caused by cell polarity mis-regulation.
○Masa-aki Nakaya (Yokohama City University, Assistant Professor)
- P2-104** A new concept of cytokinesis D in *Dictyostelium* cells
○Yuki Tanaka¹, Yusuke Morimoto², Masahiro Ueda³, Shigehiko Yumura¹ (Grad. Sch. of Sci. and Tech. for Innov., Yamaguchi University¹, Grad.

Sch. of Comp. Sci. and Sys. Engr., Kyusyu inst. of Tech², Grad. Sch. of Sci., Osaka University³)

- P2-105** A ring and belt-like pattern formation of actin filament by interacting with myosin *in vitro*
○Kentaro Ozawa¹, Hirotaka Taomori¹, Itsuki Kunita², Shigeru Sakurazawa³, Hajime Honda¹ (Dept. Bioeng., Nagaoka Univ. Tech.¹, Univ. Ryukyus², Future Univ. Hakodate³)
- P2-106** Dynamics of cell membrane during cell division
○Masahito Tanaka^{1,3}, Go Itoh², Keisuke Okita¹, Shigehiko Yumura¹ (Dep. Life Sci., Grad. Sch. of Sci. Tech. for Innov., Yamaguchi University.¹, Grad. Sch. of Med., Akita University.², Research Fellow of Japan Society for the Promotion of Science.³)
- P2-107** Apparent mass of actin filaments decreased upon their interaction with myosin measured by QCM
○Kaho Yokomuro¹, Syouta Takamori¹, Kazuya Soda¹, Takashi Ishiguro², Hajime Honda¹ (Dep. of Bioeng., Nagaoka Univ. Tech.¹, Taiyo Yuden Co., Ltd.²)
- P2-108 (WS01-04)** Super-resolution imaging of primary cilia by expansion microscopy
○Yohei Katoh¹, Shuhei Chiba², Kazuhisa Nakayama¹ (Grad. Sch. of Pharm. Sci., Kyoto Univ.¹, Grad. Sch. of Med., Osaka City Univ.²)
- P2-109** Preprophase band formation and establishment of actin-depleted zone in onion root tip cells under conditions inhibiting nuclear cycle progression
○Yoshiki Otsuka, Tomonori Nakai, Daisuke Yamauchi, Yoshinobu Mineyuki (University of Hyogo)
- P2-110** Rif small GTPase mediates Ror1 signaling to induce filopodia formation and invasion of lung adenocarcinoma cells
○Michiru Nishita¹, Ikumi Nishikaku¹, Eri Yoshida¹, Hiroshi Shibuya², Kunio Matsumoto³, Yasuhiro Minami¹ (Grad. Sch. Med., Kobe Univ.¹, Med. Res. Inst., Tokyo Med. and Dent. Univ.², Cancer Res. Inst., Kanazawa Univ.³)
- P2-111** Visualization of configurational fluctuation of single actin filaments in solution by FRET
○Ayumu Suzuki¹, Ryota Mashiko¹, Ryusei Ebata¹, Hirotaka Ito¹, Ryoki

Ishikawa², Kenji Kamimura³, Hajime Honda¹ (Nagaoka University of Technology¹, Gunma. Pref. Col. of Health. Sci², Dep. of Elec. Cont. Eng., Nat. Ins. of Tech., Nagaoka. Col³)

- P2-112** Does giraffe kinesin move faster than mouse?
○Taketoshi Kambara¹, Yasushi Okada^{1,2} (RIKEN¹, Univ. of Tokyo²)
- P2-113** Physical and functional interaction of formin Fhod3 with sarcomeric proteins in the heart
Sho Matsuyama^{1,2}, Yohko Kage¹, Noriko Fujimoto², Tomoki Ushijima², Hideki Sumimoto², ○Ryu Takeya¹ (Univ. of Miyazaki¹, Kyushu Univ. Grad. Sch. of Med. Sci.²)
- P2-114** Estradiol disrupts epithelial cell integrity through the translocation of LSR from tricellular contacts
○Takayuki Kohno, Takumi Konno, Takashi Kojima (Dept. Cell Sci., Res. Inst. Frontier Med., Sapporo Med. Univ.)
- P2-115** Role of the coiled-coil region of MTCL1 for its microtubule-regulating activity
○Natsuki Kobayashi, Atsushi Suzuki (Yokohama City University Graduate School of Medical Life Science)
- P2-116** Left-right asymmetric nuclear migration in the visceral muscles breaks lateral symmetry of the embryonic gut in *Drosophila*
○Dongun Shin¹, Yoshitaka Morishita¹, Mototsugu Eiraku², Takeshi Sasamura¹, Mikiko Inaki¹, Kenji Matsuno¹ (Department of Biological Science, Osaka University¹, Institute for Frontier Life and Medical Sciences, Kyoto University²)
- P2-117** Uncovering the physiological function of MTCL2 in mouse cerebellar Purkinje cells
○Tomoko Satake, Atsushi Suzuki (Mol. Cell Biol. Labo., Grad. Sch. of Med. Life Sci., Yokohama City Univ.)
- P2-118** Visualization of Cargo transport of hippocampal neuron by developing scanning ion conductance microscopy and confocal microscopy hybrid system
○Yasufumi Takahashi¹, Hiroki Higashi¹, Takafumi Miyamoto¹, Yuanshu Zhou¹, Yuri Korchev^{1,2}, Takashi Fukuma¹ (Kanazawa university¹, Imperial college london²)

- P2-119** Re-verification of the physiological function of TBCD
 ◦Hiroyuki Eguchi, Tomoko Satake, Atsushi Suzuki (Yokohama City University, Graduate School of Medical Science)
- P2-120** Relationship between actin dynamics and an aggregate-formation process in *Xenopus* oocyte cytoplasmic droplet
 ◦Naoki Noda, Issei Mabuchi (The University of Tokyo)
- P2-121** Nonmuscle myosin II suppresses microtubule growth by supporting actin polymerization
 ◦Yuta Sato¹, Keiju Kamijo², Yota Murakami^{1,3}, Masayuki Takahashi^{1,3} (Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ.¹, Div. of Anat. and Cell Biol., Fac. of Med., Tohoku Med. and Pharm. Univ.², Dept. of Chem., Fac. of Sci., Hokkaido Univ.³)
- P2-122 (WS06-09)** Cytoplasmic streaming controls organelle positioning during the oocyte-to-embryo transition in the *C. elegans* zygote
 ◦Kenji Kimura¹, Akatsuki Kimura^{1,2} (Cell Arch. Lab., Natl. Inst. of Genet.¹, Dept. of Genet., SOKENDAI²)
- P2-123** AGAP1, an Arf GTPase-activating protein, is a novel binding partner of FilGAP.
 ◦Koji Tsutsumi¹, Yoh Nakamura¹, Yusuke Kitagawa¹, Yurina Suzuki¹, Yoshio Shibagaki², Seisuke Hattori², Yasutaka Ohta¹ (Div. Cell Biol., Dep. of BioSci., Sch. of Sci., Kitasato Univ.¹, Div. Biochem., Sch. of Phrma. Sci., Kitasato Univ.²)
- P2-124** Visualization of ciliary Calcium influx that initiate mouse Left-Right asymmetry
 ◦Katsutoshi Mizuno, Kei Shiozawa, Hiroshi Hamada (RIKEN)
- P2-125 (YSA-06)** The balance between the mother centrosome associated kinesin KIF-C motor and Eg5 determines the timing of centrosome separation at mitotic onset
 ◦Shoji Hata, Marko Panic, Ana Pastor Peidro, Elmar Schiebel (ZMBH, Universitat Heidelberg)
- P2-126 (WS01-05)** Single actin filaments observation revealed that Latrunculin A depolymerizes actin filaments in addition to sequestering actin monomers
 ◦Ikuko Fujiwara¹, Mark E. Zweifel², Naomi Courtemanche², Thomas D. Pollard³ (Frontier Research Institute for Materials Science, Nagoya Insti-

tute of Technology, Gokiso, Showa-ku, Nagoya, 466-8555, Japan¹, Department of Genetics, Cell Biology and Development, University of Minnesota, Minneapolis, MN 55455, USA², Department of Molecular Cellular and Developmental Biology, Yale University, PO Box 208103, New Haven, CT 06520-8103 USA³)

- P2-127** The role of ABCA1 in the regulation of cell migration.
○Shiho Ito¹, Noriyuki Kioka¹, Kazumitsu Ueda^{1,2} (Div. Appl. Life Sci., Grad. Sch. of Agric., Kyoto Univ.¹, iCeMS, Kyoto Univ.²)
- P2-128 (YSA-08)** Mechanisms of the spindle bipolarity establishment in human acentrosomal cells
○Takumi Chinen, Shohei Yamamoto, Koki Watanabe, Daiju Kitagawa (Department of Molecular Genetics, National institute of genetics)
- P2-129 (WS12-05)** A cell-size dependent polarity mechanism revealed by high-throughput imaging analysis of migrating cells
○Akihiko Nakajima¹, Motohiko Ishida², Ayaka Matsumoto³, Satoshi Sawai^{1,2} (Research Center for Complex Systems Biology, the University of Tokyo¹, Graduate School of Arts and Sciences, the University of Tokyo², Faculty of Science, the University of Tokyo³)
- P2-130 (WS06-08)** MTCL2 is a new member of microtubule-crosslinking proteins
Masateru Miki, Sonoko Mizuno, Tomoko Satake, ○Atsushi Suzuki (Yokohama City Univ. Graduate school of Medical Life Science)
- P2-131** TRIOBP Regulates of the localization of molecules in the inner ear hair cell
○Shin-ichiro Kitajiri¹, Tomoko Kita², Raj K Ladher³, Shin-ichi Usami¹ (Shinshu University School of Medicine, Japan¹, Kyoto University Graduate School of Medicine, Japan², TIFR-National Center for Biological Sciences, India³)
- P2-132** MDCK cyst rotation as a model of ductal or acinous cancer cell collective invasion
○Etsuko Kiyokawa, Takehiko Ichikawa, Eishu Hirata (Kanazawa Medical University)
- P2-133** A microtubule-dynein tethering complex regulates the axonemal inner dynein *f* (I1)
○Tomohiro Kubo¹, Yuqing Hou², Deborah Cochran², George Witman²,

Toshiyuki Oda¹ (University of Yamanashi Medical School¹, University of Massachusetts Medical School²)

- P2-134** Single molecule dynamics of Myosin-ID dictating chiral behaviors of *Drosophila* cells
○Sosuke Utsunomiya¹, Takeshi Sasamura¹, Yukihiro Miyanaga², Masahiro Ueda², Kenji Matsuno¹ (Grad. Sch. Sci., Osaka Univ.¹, Grad. Sci. Front. Biosci., Osaka Univ.²)
- P2-135** Characterization of a novel ciliary protein, TTC18
○Noritoshi Shamoto¹, Keishi Narita¹, Toshiyuki Oda², Sen Takeda¹ (Univ. Yamanashi, Facul. Med., Dept. Anat. Cell Biol.¹, Dept Anat. Struct. Biol.²)
- P2-136 (WS12-02)** Self-organization of actin filaments of the same polarity by myosin
Kohei Yoshimura¹, Nobuyoshi Koie¹, Yuichi Hiratsuka², ○Kohji Ito¹ (Chiba University¹, JAIST²)
- P2-137** ACF7, an actin-microtubule crosslinking protein, stably associates with postsynaptic sites
○Yutaro Kashiwagi^{1,2}, Shigeo Okabe^{1,2} (Grad. Sch. Med., Univ. of Tokyo¹, CREST, JST²)
- P2-138** Different compositions of TRIOBP isoforms on the stereocilia rootlet: one continuously uniform actin cytoskeleton structure.
○Tatsuya Katsuno¹, Keisuke Ohta², Makoto Ikeya³, Kazuya Ono^{4,1}, Juichi Ito^{1,5}, Shin-ichiro Kitajiri^{1,6} (Dept. of Otolaryngology - Head and Neck Surgery Kyoto University Hospital¹, Div. of Microscopic & Dev. Anatomy, Dep. of Anatomy, Med. Kurume University², Dept. of Life Science Frontiers, CiRA, Kyoto University³, Lab. of Mol. Biol., NIDCD/NIH⁴, Shiga Med. CTR. Res. Institute⁵, Dep. of Hearing Implant Sciences, Med. Shinshu University⁶)
- P2-139** Analysis in regulatory mechanism of microtubule structures during ascidian 1st cell cycle
○Toshiyuki Goto¹, Kazumasa Kanda², Haruka Yagi¹, Takahito Nishikata² (FIRST, Grad. Konan Univ.¹, FIRST, Konan Univ.²)
- P2-140** Spatial relationship between microglia and synapse stability studied by in vivo imaging
○Shinji Tanaka, Tadatsune Iida, Shigeo Okabe (Dept. Cellular Neurobiology, Grad. Sch. Medicine, Univ. of Tokyo)

- P2-141**
(WS12-07) Gamma-tubulin ring complex-specific components are required for nuclear positioning in the *C. elegans* gonad
○Nami Haruta, Chihiro Uchiyama, Asako Sugimoto (Grad.Sch.Life Sci., Tohoku University)
- P2-142**
(WS06-02) Shootin1b is involved in chemosensing and mechanosensing of migrating dendritic cells
○Kentarou Baba, Mizuki Sakai, Yasuna Higashiguchi, Naoyuki Inagaki (Graduate School of Biological Sciences, Nara Institute of Science and Technology)
- P2-143** Lasp-2 in Focal Complex in Chicken Primary Fibroblasts
○Asako G Terasaki¹, Sayaka Yamamoto¹, Nan Yamagata¹, Ayako Nakayama¹, Satoshi Machida¹, Junko Suzuki¹, Hiroyuki Nakagawa² (Chiba University¹, Fukuoka University²)
- P2-144** Temperature dependent accumulation in *Chlamydomonas*
Masaya Sekiguchi, Satoshi Kurosawa, ○Megumi Yoshida, Kenjiro Yoshimura (Shibaura Inst.Tech.)

Discussion 3: June 8 (Fri) 13:45-14:45 for odd number posters
14:45-15:45 for even number posters

- P3-001** Immunolocalization of protease-activated receptors in sinus endothelial cells of the spleen
○Kiyoko Uehara (Fukuoka Univ.)
- P3-002 (YSA-04)** AIP1 and cofilin ensure a resistance to tissue tension and promote directional cell rearrangement in the *Drosophila* wing
○Keisuke Ikawa, Kaoru Sugimura (iCeMS, Kyoto Univ.)
- P3-003** Contribution of mechanosensor channel Piezo1 to the lymphatic vascular development
○Keiko Nonomura^{1,2}, Viktor Lukacs², Stuart M Cahalan², Akemi Kanie¹, Ardem Patapoutian², Toshihiko Fujimori¹ (National Institute for Basic Biology¹, The Scripps Research Institute²)
- P3-004** Mutual activation of Claudin-6 and Src family kinases triggers epithelial differentiation via RAR γ phosphorylation
○Kotaro Sugimoto, Naoki Ichikawa-Tomikawa, Korehito Kashiwagi, Tomohito Higashi, Hideki Chiba (Basic Pathology, Fukushima Medical University)
- P3-005** The role of apical extracellular matrix in force balance during flight muscle development in *Drosophila*
○Wei-Chen Chu, Xiaorei Sai, Shigeo Hayashi (Lab. for Morphogenetic Signaling, RIKEN CDB)
- P3-006 (WS04-01)** The noise-cancelling system supporting precise Wnt/ β -catenin signaling-mediated vertebrate tissue patterning
○Yuki Akieda, Shohei Ogamino, Hironobu Furuie, Shizuka Ishitani, Tohru Ishitani (Lab of Integ Signal Sys, Dept of Mol Med, IMCR, Gunma Univ.)
- P3-007** Determination of protein composition at epithelial cell-cell junctions by CRISPR/Cas9-mediated fluorescent protein knockin
○Shusaku Kurisu, Shigenobu Yonemura (Tokushima Univ. Grad. School of Biomedical Sciences)
- P3-008 (WS15-03)** Regulation of intercellular junction growth by apical tricellular junctions
○Hiroyuki Uechi, Daiki Umetsu, Erina Kuranaga (Laboratory for Histoge-

netic Dynamics, Graduate School of Life Sciences, Tohoku University)

- P3-009** Angulin-1 regulates vertical elongation of tricellular tight junction by interacting with ZO-1.
○Taichi Sugawara^{1,2}, Mikio Furuse^{1,2} (Div. Cell Struct., NIPS¹, Dep. Physiol. Sci., Sch. Life Sci., SOKENDAI (The Grad. Univ. for Advanced Studies)²)
- P3-010** Revisiting functions of ZP family proteins in ECM morphogenesis
○Yuki Itakura, Wei-Chen Chu, Aki Hayashi, Xiaorei Sai, Shigeo Hayashi (RIKEN BDR)
- P3-011** Traction force microscopy analysis of LEM migration in *Xenopus*
○Raj Rajeshwar Malinda, Naoto Ueno (National Institute for Basic Biology, Japan)
- P3-012** Unexpectedly wide-range cell-cell contact via Delta-presenting lamellipodia-like protrusions in the mouse neuroepithelium
○Takumi Kawae¹, Yugo Fukazawa², Takaki Miyata¹ (Univ. of Nagoya¹, Univ. of Fukui²)
- P3-013 (WS15-02)** ZO family proteins regulate epithelial polarity independent of Tight Junction strand assembly
○Tetsuhisa Otani^{1,2}, Mikio Furuse^{1,2} (National Institute for Physiological Sciences¹, Graduate University for Advanced Studies (SOKENDAI)²)
- P3-014 (WS15-04)** A *Drosophila* Toll-like receptor family protein prevents cell mixing through homophilic adhesion during epithelial morphogenesis
○Daiki Umetsu, Norihiro Iijima, Erina Kuranaga (Tohoku University, Graduate School of Life Sciences)
- P3-015 (WS04-07)** The role of MAP kinase pathway in response to mechanical force during *Xenopus* embryogenesis
○Noriyuki Kinoshita¹, Yutaka Hashimoto^{1,2}, Cristea M Ileana², Naoto Ueno¹ (Dept. of Dev. Biol., NIBB¹, Dept. of Mol. Biol. Princeton Univ.²)
- P3-016** Bone marrow endothelial cells induce immature and mature B cell egress in response to erythropoietin
○Takeshi Ito^{1,2}, Nagahiro Minato², Yoko Hamazaki^{1,2} (Center for iPS Cell Research and Application (CiRA), Laboratory of Immunobiology, Graduate School of Medicine, Kyoto University¹, Department of Immunology

and Cell Biology, Graduate School of Medicine, Kyoto University²)

- P3-017** Grip and slip of L1-CAM on adhesive substrates direct growth cone haptotaxis
○Kouki Abe¹, Hiroko Katsuno¹, Michinori Toriyama¹, Kentarou Baba¹, Tomoyuki Mori², Toshio Hakoshima², Yonehiro Kanemura³, Rikiya Watanabe⁴, Naoyuki Inagaki¹ (Syst. Neurobiol. Med., Grad. Sch. of Bio. Sci., NAIST¹, Struct. Biol., Grad. Sch. of Bio. Sci., NAIST², Regen. Med., Inst. for Clin. Res., Osaka Nat. Hosp., Nat. Hosp. Org.³, Dept. of App. Chem., Grad. Sch. of Eng., Univ. of Tokyo⁴)
- P3-018** Myosin-dependent actin stabilization as revealed by single-molecule speckle (SiMS) analysis of actin turnover
○Sawako Yamashiro^{1,2}, Soichiro Tanaka³, Laura M McMillen⁴, Daisuke Taniguchi², Dimitrios Vavylonis⁴, Naoki Watanabe^{1,2} (Laboratory of Single-Molecule Cell Biology, Kyoto University Graduate School of Biostudies¹, Department of Pharmacology, Kyoto University Graduate School of Medicine², Laboratory of Single-Molecule Cell Biology, Tohoku University Graduate School of Life Sciences³, Department of Physics, Lehigh University, Bethlehem, PA, USA⁴)
- P3-019** Stiff substrates enhance the nuclear localization of activating transcription factor 5 via calcium ion in pancreatic cancer cells
○Akihiro Nukuda¹, Seiichiro Ishihara², Hisashi Haga² (Division of Life Science, Graduate School of Life Science, Hokkaido University¹, Department of Advanced Transdisciplinary Sciences, Faculty of Advanced Life Science, Hokkaido University²)
- P3-020** Premigratory neurons mechanically limit interkinetic nuclear migration to secure progenitor cells' apical cytogenesis
Yuto Watanabe, Takumi Kawaue, ○Takaki Miyata (Nagoya University Graduate School of Medicine)
- P3-021** The expression pattern of neuronal intermediate filament α -internexin in the chicken developing pineal gland
○Chen Ming Hao, Wei Hao Peng, Chung Liang Chien (Graduate Institute of Anatomy and Cell Biology, College of Medicine, National Taiwan University, Taipei, Taiwan)
- P3-022**
(WS05-07) Noise-Resistant Developmental Reproducibility in Vertebrate Somite Formation

○Naoki Honda¹, Dini WK Sari², Ryutaro Akiyama², Shin Ishii¹, Yasumasa Bessho², Takaaki Matsui² (Kyoto University¹, Nara Institute of Science and Technology²)

P3-023 Comparison of the 3-D patterns of the parasympathetic nervous system in the lung at late developmental stages between mouse and chicken

○Ryo Nakamura¹, Tadayoshi Watanabe¹, Yuta Takase^{1,2}, Etsuo A Susaki^{3,4,5}, Hiroki R Ueda^{3,4}, Ryosuke Tadokoro¹, Yoshiko Takahashi^{1,6} (Department of Zoology, Graduate School of Science, Kyoto University¹, Mathematics-based Creation of Science Program (MACS), Graduate School of Science, Kyoto University², Department of Systems Pharmacology, Graduate School of Medicine, The University of Tokyo³, Laboratory for Synthetic Biology, RIKEN Quantitative Biology Center (QBiC)⁴, PRESTO, Japan Science and Technology Agency⁵, AMED Core Research for Evolutional Science and Technology (AMED-CREST), Japan Agency for Medical Research and Development (AMED)⁶)

P3-024 Appearance of a chiral structure in cardiac looping

○Hisao Honda^{1,2}, Takaya Abe³, Toshihiko Fujimori^{3,4} (Kobe University Graduate School of Medicine¹, RIKEN CDB², RIKEN Center for Life Science Tech³, NIBB⁴)

P3-025 Repression of Dlx1/2 signaling by *Nolz-1/Znf503* is required for parcellation of the striatal complex into dorsal and ventral striatum

Shih-Yun Chen¹, Kuan-Ming Lu¹, Hsin-An Ko¹, Ting-Hao Huang¹, Janice Hsin-Jou Hao¹, Yu-Ting Yan², Sunny Li-Yun Chang³, Sylvia Evans⁴, ○Fu-Chin Liu¹ (National Yang-Ming Univ.¹, Academia Sinica², China Medical University³, University of California San Diego⁴)

P3-026 SOX2-dependent determination of tissue identities in the foregut

(WS07-04)

○Machiko Teramoto¹, Ryo Sugawara¹, Atsushi Kuroiwa², Yasuo Ishii³, Hisato Kondoh¹ (Faculty of Life Sciences, Kyoto Sangyo University¹, Division of Biological Science, Graduate School of Science, Nagoya University², Department of Biology, School of Medicine, Tokyo Women's Medical University³)

P3-027 Control of whole body shape by a single constituent of the apical ECM in *Drosophila melanogaster*

(WS07-07)

○Reiko Tajiri, Haruhiko Fujiwara, Tetsuya Kojima (Graduate School of

Frontier Sciences, the University of Tokyo)

- P3-028
(WS13-07)** A Screening for the new regulatory pathway of the floor plate differentiation
○Minori Kadoya, Noriaki Sasai (Nara Institute of Science and Technology)
- P3-029** Branching pattern and morphogenesis of medusa tentacles in the jellyfish, *Cladonema pacificum*
Akiyo Fujiki, Ayaki Nakamoto, ○Gaku Kumano (Asamushi Research Center for Marine Biology, Graduate School of Life Sciences, Tohoku University)
- P3-030
(WS05-10)** Epidermal regulation of bone patterning through the development and regeneration of osteoblasts in the zebrafish scale
Miki Iwasaki¹, Junpei Kuroda², Koichi Kawakami³, ○Hironori Wada¹ (Kitasato University¹, Osaka University², National Institute of Genetics; SOKENDAI³)
- P3-031** Lymphatic vascular development in the craniofacial region of embryonic mice – Migration of lymphatic endothelial cells from cardinal veins into mandibular arches –
○Yuji Taya, Kaori Sato, Youichi Shirako, Yuuichi Soeno (Department of Pathology, The Nippon Dental University School of Life Dentistry at Tokyo)
- P3-032
(WS13-06)** Differential adhesion of N-cadherin in columnar unit organization in the *Drosophila* brain
○Makoto Sato, Olena Trush, Chuyan Liu (Kanazawa University)
- P3-033
(WS13-03)** Quantitative analysis of tissue and cellular dynamics during optic vesicle formation
○Daisuke Ohtsuka, Yoshihiro Morishita (RIKEN Quantitative Biology Center)
- P3-034** Morphological and immunohistochemical analysis of the early formation of the avian sternal keel
○Kengo Buma, Yoshiko Takahashi (Department of Zoology, Graduate School of Science, Kyoto University)
- P3-035** Verification of nodal flow sensing models in the mouse embryo.

Atsushi Taniguchi, [○]Shigenori Nonaka (National Institute for Basic Biology)

P3-036 Keratan sulfate produces “water bags” in embryos
(WS07-09) [○]Yuuri Yasuoka (Marine Genomics Unit, OIST)

P3-037 Role of axonal transport of Reelin in layer and neural circuit formation in the cerebellum and the optic tectum
(WS13-01) Takayuki Nimura¹, Takuto Hayashi¹, Miki Takeuchi², Tsubasa Itoh¹, Vincenzo Di Donata³, Filippo Del Bene³, Takashi Shimizu^{1,2}, [○]Masahiko Hibi^{1,2} (Graduate School of Science, Nagoya University¹, Bioscience and Biotechnology Center, Nagoya University², Institut Curie³)

P3-038 A long noncoding RNA regulates *Drosophila* axon guidance during embryogenesis
[○]Sachi Inagaki¹, Ntsuki Nakamura², Masanao Sato³, Mitsutaka Kadota⁴, Sean D Keeley⁴, Shigehiro Kuraku⁴, Yuji Kageyama^{1,2} (Biosignal Research Center, Kobe University¹, Department of Biology, Graduate School of Science, Kobe University², School of Agriculture, Hokkaido University³, CLST, RIKEN⁴)

P3-039 Transcriptome analysis of the cardiac neural crest reveals a *MAFB* gene regulatory subcircuit
[○]Saori Tani-Matsuhana^{1,2}, Kunio Inoue², Marianne E. Bronner¹ (Division of Biology and Biological Engineering, California Institute of Technology¹, Department of Biology, Graduate school of Science, Kobe University²)

P3-040 The N143T mutation in mouse Fibroblast growth factor 9 leads to wider long bones
[○]Masayo Harada, Keiichi Akita (Tokyo Medical and Dental Univ.)

P3-041 Establishment of assessment system for genitalia-specific enhancer during genital tubercle development
[○]Shoko Matsushita¹, Kentaro Suzuki¹, Tetsuya Sato², Shinjiro Hino³, Daiki Kajioka¹, Alvin Acebedo¹, Mitsuyoshi Nakao³, Mikita Suyama², Gen Yamada¹ (Wakayama Medical University¹, Kyushu University², Kumamoto University³)

P3-042 Molecular mechanisms for the positioning of somite boundaries in zebrafish

○Taijiro Yabe, Shinji Takada (National Institute for Basic Biology (NIBB))

P3-043 Identification of a type of collagen-expressing cells that probably connect spicules to construct skeleton in freshwater sponge *E. fluviatilis*

○Sota Takagi, Noriko Funayama (Dept. of biophysics, Grad. school of science, Kyoto Univ.)

P3-044 Elasticity-based boosting of neuroepithelial nucleokinesis via indirect energy transfer from mother to daughter

○Tomoyasu Shinoda¹, Arata Nagasaka¹, Yasuhiro Inoue², Ryo Higuchi³, Yoshiaki Minami³, Kagayaki Kato⁴, Makoto Suzuki⁵, Takefumi Kondo⁶, Takumi Kawae¹, Kanako Saito¹, Naoto Ueno⁵, Yugo Fukazawa⁷, Masaharu Nagayama³, Takashi Miura⁸, Taiji Adachi², Takaki Miyata¹ (Dept. anatomy and cell biology, Nagoya University Graduate school of Medicine¹, Dept. Biosystem Science, Institute for Frontier Life and Medical Science, Kyoto University², Research Institute for Electronic Science, Hokkaido University³, Dept. Imaging Science, Center for Novel Science Initiatives, National Institute for Basic Biology⁴, Div. Morphogenesis, National Institute for Basic Biology⁵, Laboratory for Morphogenetic Signaling, RIKEN Center for Developmental Biology⁶, Div. Cell Biology and Neuroscience, Faculty of Medical Sciences, University of Fukui⁷, Dept. Anatomy and Cell Biology, Graduate School of Medical Sciences, Kyushu University⁸)

P3-045 Modulation of Shh signaling is involved in intervertebral disc/vertebral body (IVD/VB) patterning and resegmentation of neural arches in mouse vertebral column formation

○Yu Takahashi¹, Yukuto Yasuhiko¹, Eriko Ikeno¹, Jun Kanno², Yoko Hirabayashi¹ (National Institute of Health Sciences¹, Japan Bioassay Research Center²)

P3-046 (WS13-04) Roof plate cells dramatically elongate and promote the proliferation of neural progenitors by secreting Wnt proteins in the mouse spinal cord

○Takuma Shinozuka^{1,2,3}, Ritsuko Takada^{1,2}, Shosei Yoshida^{2,3}, Shigenobu Yonemura^{4,5}, Shinji Takada^{1,2,3} (OIIB¹, NIBB², SOKENDAI³, RIKEN CLST⁴, Tokushima Univ.⁵)

- P3-047** Collective cell rearrangement in visceral endoderm during the A-P axis formation in a mouse embryo
 ○Go Shioi¹, Hideharu Hoshino², Takaya Abe^{1,3}, Hiroshi Kiyonari^{1,3}, Kazuki Nakao^{4,1}, Yasuhide Furuta^{1,3}, Toshihiko Fujimori^{1,5}, Shinichi Aizawa² (Genetic Engineering Team, RIKEN CLST¹, Laboratory for Vertebrate Body Plan, RIKEN CDB², Animal Resource Development Unit, RIKEN CLST³, Laboratory of Animal Resources, CDBIM, Univ. of Tokyo⁴, Division of Embryology, NIBB⁵)
- P3-048** A knockout mouse model reveals a critical role of Af10-dependent H3K79 methylation in midfacial development
 Honami Ogoh¹, Kazutsune Yamagata⁴, Tomomi Nakao¹, Lisa L. Sandell², Ayaka Yamamoto¹, Aiko Yamashita¹, Naomi Tanga¹, Mai Suzuki¹, Takaya Abe³, Issay Kitabayashi⁴, Toshio Watanabe¹, ○Daisuke Sakai⁵ (Nara Women's University, Graduate School of Humanities and Science¹, University of Louisville, School of Dentistry², RIKEN Center for Life Science Technologies³, National Cancer Center Research Institute⁴, Doshisha University, Graduate School of Brain Science⁵)
- P3-049** miR-9 misexpression causes upregulation of *Robo3* specifically in the branchial and visceral motor neurons in chick embryo
 ○Katsuki Mukaigasa, Chie Sakuma, Hiroyuki Yaginuma (Fukushima Med. Univ.)
- P3-050** Intercellular interaction between the somite cells and the somatic mesoderm cells in vitro: a model of rib formation
 ○Kaoru Matsutani, Hirohiko Aoyama (Department of Anatomy & Developmental Biology, Graduate School of Biomedical & Health Sciences, Hiroshima University)
- P3-051 (WS05-05)** Two types of heparan sulfate differently modulates BMP distribution and signalling
 ○Takayoshi Yamamoto^{1,2}, Yusuke Mii³, Yuta Otsuka¹, Masanori Taira¹ (Dept. of Biol. Scis., Grad. Sch. of Sci., Univ. of Tokyo¹, Dept. of Life Scis., Grad. Sch. of Arts and Scis., Univ. of Tokyo², National Institute for Basic Biology³)
- P3-052** The preplate stream: neurons generated earliest in the pallium migrate ventrally to mechanically bend radial fibers and expand the neocortex.

○Kanao Saito, Takaki Miyata (Univ. of Nagoya, Medicine. Dept. Anatomy and Cell Biology.)

- P3-053**
(WS05-08) Resynchronization dynamics of the zebrafish segmentation clock
○Koichiro Uriu (Kanazawa University)
- P3-054** *Six1* regulates initial knot formation and lingual-labial asymmetry in developing mouse incisors
○Masanori Takahashi, Kiyoshi Kawakami (Division of Biology Center for Molecular Medicine Jichi Medical University)
- P3-055** Atypical leading front cells in the amniotic membrane
○Yuki Sato (Graduate School of Medical Sciences, Kyushu University, Japan)
- P3-056** Cell Budding During Endothelial to Hematopoietic Transition is Regulated by Aquaporin Water Channels
○Mugiho Shigematsu, Chie Tamura, Yuki Sato (Graduate School of Medical Sciences, Kyushu University, Japan)
- P3-057** Difference in the amount of the atypical cadherin Dachous between migrating cells coordinates the direction of collective cell migration
○Masaki Arata^{1,3}, Kaoru Sugimura², Toshihiko Fujimori^{3,4}, Tadashi Uemura¹ (Graduate School of Biostudies, Kyoto University¹, Institute for Integrated Cell-Material Sciences (WPI-iCeMS), Kyoto University², Division of Embryology, National Institute for Basic Biology (NIBB)³, Department of Basic Biology, School of Life Science, SOKENDAI⁴)
- P3-058** Possible involvement of *ouro* genes in disappearance of brachial sac skin during *Xenopus* metamorphosis
○Izumi Ishimori, Yumi Izutsu (Graduate School of Science and Technology, Niigata University)
- P3-059** Identification of Wnt5a downstream targets during early development in mouse
○Rieko Ajima, Yumiko Saga (National Institute of Genetics)
- P3-060** Estrogen promotes the fallopian tube epithelial multiciliogenesis through estrogen receptor β
○Maobi Zhu, Tomohiko Iwano, Sen Takeda (Univ. of Yamanashi, Dept. of Anatomy, Lab of Cell biology)

- P3-061** Elongation of posterior dorsal tissue prepared from human induced pluripotent stem cells
○Hiromasa Ninomiya (Nagoya Univ)
- P3-062** Shootin1b-mediated cell adhesion and actin dynamics for the fore-brain separation
○Takunori Minegishi, Saori Fujiwara, Wataru Yoshida, Naoyuki Inagaki (Grad. Sch. Biol. NAIST, Nara)
- P3-063** Framework of a gene regulatory network establishing pattern of regional differentiation of the midgut of *Drosophila* embryo
Saki Kamioka, Kenta Fujimoto, Izumi Tanoue, Yuichi Yoshimura, Lily Shimooka, Yumiko Harada, ○Ryutaro Murakami (Dept Biol, Grad Sch Sci Tech for Innov, Yamaguchi University)
- P3-064** Developmental mechanisms change for morphological transition from midline single to paired bilateral status in ventral fins
○Gembu Abe¹, Kinya G Ota², Koji Tamura¹ (Graduate School of Life Sciences, Tohoku University, Japan¹, Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan²)
- P3-065** Plant flowering stem cracking: A model case towards understanding stem organogenesis and integrity
Mao Ooe¹, ○Mariko Asaoka¹, Shizuka Gunji², Gorou Horiguchi^{3,4}, Hirokazu Tsukaya^{5,6}, Ali Ferjani^{1,2} (Tokyo Gakugei Univ., Dept. of Biol.¹, Tokyo Gakugei Univ., United Grad. Sch. Education², Rikkyo Univ., Dept. of Life Sci.³, Rikkyo Univ., Res. Center for Life Sci.⁴, The University of Tokyo, Grad. Sch. of Sci.⁵, Okazaki Inst. for Inter. Biosci., NIBB⁶)
- P3-066** Analysis of intracellular calcium dynamics and its functional implication at leading edge mesoderm during *Xenopus* gastrulation
○Kentarō Hayashi^{1,2,3}, Takamasa S Yamamoto¹, Naoto Ueno^{1,3} (NIBB¹, Univ. of Kyoto², Graduate University for Advanced Studies (SOKENDAI)³)
- P3-067** Metabolic control of skeletal muscle regeneration
○Shimpei Hori, Fuminori Sato, Atsuko Sehara-Fujisawa (Department of Growth Regulation, Institute for Frontier Life and Medical Sciences, Kyoto University)
- P3-068** Investigation of the mechanism of mesoderm development of human

iPSCs using Single-cell RNA sequence

○Wei Zhao, Minoru Takasato (Riken Center for Developmental Biology)

P3-069
(WS08-10)

Coordinated regulation of the dorsal-ventral and anterior-posterior patterning of *Xenopus* embryos by the BTB/POZ zinc finger protein Zbtb14

Kimiko Takebayashi-Suzuki, Misa Uchida, ○Atsushi Suzuki (Amphibian Research Center, Hiroshima University)

P3-070

Direct conversion of mouse somatic cells into neural crest cells.

○Tsutomu Motohashi¹, Norito Kawamura¹, Natsuki Watanabe¹, Naoki Goshima², Takahiro Kunisada¹ (Dep. of Tissue & Organ Development, Regeneration & Advanced Med. Sci., Grad. Sch. of Med., Gifu Univ.¹, Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology²)

P3-071
(WS08-06)

Aberration of the Soluble protein Tsukushi leads alteration of adult neurogenesis resulting lateral ventricle expansion with neuronal disease.

○Naofumi Ito^{1,2,3}, M. Asrafuzzaman Riyadh^{1,3}, Ayako Ito¹, Shah Adil Ishtiyaq Ahmad^{1,2,3,4}, Mohammad Badrul Anam^{1,2,3}, Yonehiro Kanemura^{5,6}, Yohei Shinmyo⁷, Felemban Athary Abdulhaleem M.^{1,9}, Jun Hatakeyama¹⁰, Hiroshi Kiyonari¹¹, Kenji Shimamura¹⁰, Yoshiko Takahashi^{12,13}, Kazunobu Sawamoto^{14,8}, Kunimasa Ohta^{1,2,3,13} (Department of Developmental Neurobiology, Graduate School of Life Sciences, Kumamoto University¹, Program for Leading Graduate Schools “HIGO Program”, Kumamoto University², Stem Cell-Based Tissue Regeneration Research and Education Unit, Kumamoto University³, Department of Biotechnology and Genetic Engineering, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh⁴, Division of Regenerative Medicine, Institute for Clinical Research⁵, Department of Neurosurgery, Osaka National Hospital, National Hospital Organization⁶, Department of Medical Neuroscience, Graduate School of Medical Sciences, Kanazawa University⁷, Department of Developmental and Regenerative Biology, Nagoya City University Graduate School of Medical Sciences⁸, Department of Biology, Faculty of Applied Science, Umm Al-Qura University, 21955, Makkah, Saudi Arabia.⁹, Department of Brain Morphogenesis, Institute of Molecular Embryology and Genetics, Kumamoto University¹⁰, Animal Resource Development Unit and 12Genetic Engineering Team, RIKEN Center for Life

Science Technology¹¹, Department of Zoology, Graduate School of Science, Kyoto University.¹², AMED Core Research for Evolutional Science and Technology (AMED-CREST), Japan Agency for Medical Research and Development (AMED).¹³, Division of Neural Development and Regeneration, National Institute for Physiological Sciences.¹⁴)

P3-072 Serum Replacement and Rho kinase (ROCK) inhibitor, Y-27632 were essential for the monolayer culture of mouse embryonic submandibular gland epithelial cells in serum-free medium.

○Akiko Sekimata^{1,2}, Yumi Suina², Chiaki Homma², Yuko Aso², Shiho Yagihashi², Masayuki Sekimata³ (Division of Theoretical Nursing and Genetics, Graduate School of Medical Science Yamagata University¹, Division of Theoretical Nursing and Genetics, School of Medicine Yamagata University², Radioisotope Research Center, Fukushima Medical University School of Medicine³)

P3-073 Cell clusters formation by ribosome is reproducible with rabbit cornea cells

○Yuichi Goto, Natsuki Kawano, Yosuke Nishimura, Yushin Nakagawa (Kumamoto Prefectural Uto Junior and Senior High School)

P3-074
(WS13-09) A heat-shock mediated multi-color labeling of the enteric neural crest cells for analyzing the patterns of their migration, division and differentiation in zebrafish gut.

Mai Kuwata¹, ○Masataka Nikaido¹, Koichi Kawakami², Kohei Hatta¹ (Grad. Sch. of Life Sciences, Univ. of Hyogo¹, Div. of Molecular and Developmental Biology, National Institute of Genetics²)

P3-075 Can newts normalize misposition of proximal to distal levels during limb regeneration?

○Takashi Takeuchi, Kazuki Koriyama, Risa Sakagami, Toshinori Hayashi (School of Life Sciences, Faculty of Medicine, Tottori University)

P3-076 Derivation and Characterization of Putative Embryonic Stem Cells Isolated from Taiwan Country Chicken Blastoderms

○Chalothon Amporn, Chien-Kai Wang, Pin-Chi Tang (Department of Animal Science, National Chung Hsing University)

P3-077
(WS15-08) Twinning: Embryonic Regeneration by Relocalization of the Spemann Organizer in *Xenopus*

○Yuki Moriyama¹, Edward M. De Robertis^{2,3}, Akimasa Fukui¹ (Chuo Uni-

versity¹, Howard Hughes Medical Institute², University of California, Los Angeles³)

- P3-078** Redundant functions of Mitf/Tfec family transcription factors regulate melanocyte development in medaka
○Hisashi Hashimoto¹, Tetsuaki Kimura², Motohiro Miyadai¹, Yusuke Nagao³, Robert N Kelsh³, Kiyoshi Naruse², Masahiko Hibi¹ (Biol Biotech Ctr, Nagoya Univ.¹, NIBB², Univ. of Bath³)
- P3-079 (WS11-09)** Tead-Yap activity in inner cell mass promotes naïve pluripotency and its variation triggers cell competition to establish high quality epiblast
○Masakazu Hashimoto, Yusuke Takenoshita, Yuki Yuri, Hiroshi Sasaki (Osaka University)
- P3-080 (WS08-04)** Positional information DOES exit within cells of a single fin ray during zebrafish regeneration
○Atsushi Kawakami, Eri Shibata (Tokyo Inst. Technology)
- P3-081 (WS11-10)** Making chimera with non-rodent PSCs by overexpressing *BCL2*
○Hideki Masaki¹, Tomoyuki Yamaguchi¹, Hiromitsu Nakauchi^{1,2} (Institute of Medical Science, University of Tokyo¹, Institute for Stem Cell Biology and Regenerative Medicine, Department of Genetics, Stanford University School of Medicine, Stanford²)
- P3-082** Innate immunity signaling pathways promote leg regeneration in the cricket
○Tetsuya Bando¹, Misa Okumura¹, Mayuko Hagiwara¹, Yoshimasa Hamada¹, Taro Mito², Sumihare Noji², Hideyo Ohuchi¹ (Department of Cytology and Histology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University¹, Division of Bioscience and Bioindustry, Graduate School of Technology, Industrial and Social Sciences, Tokushima University²)
- P3-083** The transplantation of the retinal precursor cells into the adult *Drosophila* retina
○Satoko Hakeda-Suzuki, Takahisa Suzuki, Keita Oochi, Takashi Suzuki (School of Life Science and Technology, Tokyo Institute of Technology)
- P3-084** Control of beta cell heterogeneity and identity by Wnt4
○Keiichi Katsumoto¹, Siham Yennek¹, Dror Sever¹, Ajuna Azad¹, Jingdong

Shan², Seppo Vainio², Anne Botton¹ (Novo Nordisk Foundation Center for Stem Cell Biology, The Center for Stem Cell Biology (Danstem), University of Copenhagen, Denmark¹, Department of Medical Biochemistry and Molecular Biology, University of Oulu, Finland²)

- P3-085** Migration of Endoderm and Mesoderm Derived from Human Induced Pluripotent Stem Cells during Human Gastrulation Stage
○Kenshiro Maruyama, Shota Miyazaki, Kiyoshi Ohnuma (Nagaoka University of Technology)
- P3-086** Axial stem cell regulation during mouse axis formation
○Shinichi Hayashi, Tatsuya Takemoto (Embryology, Institute of Advanced Medical Sciences, Tokushima University)
- P3-087** Loss-of-function and rescue analyses revealed that the immune T cells are necessary for degeneration of *Xenopus* tail tissues
○Haruka Kobayashi, Yumi Izutsu (Graduate School of Science and Technology, Niigata University, Japan)
- P3-088** Transdifferentiation of cells during rapid regeneration of amputated multicellular bodies of social amoebae
○Kurato Mohri, Ryodai Tanaka, Seido Nagano (Department of Bioinformatics, College of Life Sciences, Ritsumeikan University)
- P3-089** Involvement of systemic signaling in size regulation of regenerating fin
○Toshiaki Uemoto, Gembu Abe, Koji Tamura (Graduate School of Life Sciences, Tohoku University)
- P3-090 (WS13-08)** Region-specific requirement of floor plate-derived sonic hedgehog regulating specification of the ventral cell fates
○Jun Motoyama (Doshisha University)
- P3-091** Role of islet-1-expressing cells during heart regeneration in *Xenopus laevis*
Saki Umezawa, ○May Kanagawa, Tsutomu Kinoshita (Rikkyo University)
- P3-092** Srf destabilizes cell identity
○Takashi Ikeda¹, Takuya Yamamoto¹, Akitsu Hotta¹, Yasuhiro Yamada^{1,2}, Shinji Masui¹, Keisuke Okita¹ (Kyoto Univ.¹, The Univ. of Tokyo²)
- P3-093** N-cadherin supports FGFR1 stability and subsequent activation of

MEK/ERK dependent pluripotency on mouse epiblast stem cell

○Toshiyuki Takehara, Takeshi Teramura, Yuta Onodera, Kanji Fukuda (Kindai University Faculty of Medicine)

P3-094
(WS08-05)

TRAF6-mediated NF- κ B is essential for the differentiation of intestinal M cells

○Takashi Kanaya¹, Sayuri Sakakibara¹, Toshiro Sato², Takashi Kobayashi³, Hiroshi Ohno¹ (Laboratory for Intestinal ecosystem, RIKEN-IMS¹, Department of Gastroenterology, Keio Univ.², Department of Infectious Diseases Control, Faculty of Medicine, Oita Univ.³)

P3-095

Meis1 Coordinates Cerebellar Granule Cell Development by Regulating Pax6 Transcription, BMP Signaling and Atoh1 Degradation.

○Tomoo Owa¹, Shinichiro Taya¹, Satoshi Miyashita¹, Tomoki Nishioka², Ryo Goitsuka⁴, Takuro Nakamura³, Kozo Kaibuchi², Mikio Hoshino¹ (Dept of Biochemistry and Cellular Biology National Institute of Neuroscience NCNP¹, Dept. of Cell Pharmacology, School of Medicine, Nagoya Univ², Department of Carcinogenesis, Japanese Foundation for Cancer Research³, Division of Development & Aging, Research Institute for Biological Sciences, Tokyo University of Science⁴)

P3-096
(WS15-09)

Developmental origin and induction processes of hair follicle stem cells

○Ritsuko Morita¹, Noriko Sanzen¹, Tetsutaro Hayashi², Mana Umeda², Mika Yoshimura², Itoshi Nikaido², Takaya Abe³, Hiroshi Kiyonari^{3,4}, Yasuhide Furuta^{3,4}, Hironobu Fujiwara¹ (Laboratory for Tissue Microenvironment, RIKEN CDB¹, Bioinformatics Research Unit, RIKEN ACCC², Animal Resource Development Unit, Division of Bio-Function Dynamics Imaging, RIKEN CLST³, Genetic Engineering Team, Division of Bio-Function Dynamics Imaging, RIKEN CLST⁴)

P3-097

A novel cell-based assay system for monitoring the cell-cell fusion process during myotube formation

○Mari Isobe¹, Mitsunori Fukuda², Kenshin Komata¹, Satoshi Kametaka¹ (Nagoya University Graduate School of Medicine¹, Tohoku University Graduate School of Life Sciences²)

P3-098

Differential gene expressions between joint and non-joint blastemas/stumps in frog

○Haruka Matsubara, Takeshi Inoue, Ei Kakuta, Kiyokazu Agata (Depart-

ment of Life Science, Gakushuin University)

- P3-099** Hypothermic signal is involved in the induction of cell differentiation via the cold-shock protein RBM3
○Daiki Hamasuna¹, Ryota Nogami¹, Ko Eto² (Dept. of Biol. Sci, Fac. of Sci., Kumamoto univ.¹, Dept. of Biol. Sci., Grad. Sch, of Sci. Tech., Kumamoto Univ.²)
- P3-100** The development of non-FRET ratiometric ATP indicator “QUEEN-37C” for measurement of absolute ATP concentration in single cells
○Hideyuki Yaginuma¹, Yasushi Okada^{1,2} (QBiC, RIKEN¹, Dept of Phys, Grad Sch Sci, The Univ of Tokyo²)
- P3-101** Lifespan extension and ECM remodeling by dual oxidase-mediated ROS signaling
○Hiroyuki Sasakura¹, Hiroki Moribe², Kazuto Ikemoto³, Ikue Mori⁴, Kosei Takeuchi¹ (Department of Medical Biology, Aichi Medical University¹, Department of Biology, Kurume University School of Medicine², Niigata Research Laboratory, Mitsubishi Gas Chemical Company Inc.³, Neuroscience Institute and Group of Molecular Neurobiology, Graduate School of Science, Nagoya University⁴)
- P3-102** Effects of nutritional signal in the timer system to determine prepupal period in *Drosophila melanogaster*
○Hitoshi Ueda, Haruka Nishida, Mayu Nakanishi (Okayama University)
- P3-103 (WS17-04)** Fluorescence temperature imaging reveals a potential role of mitochondrial pH changes in initiating brown adipocytes activation
○Madoka Suzuki^{1,2}, Yoshie Harada¹ (Inst. for Protein Res., Osaka Univ.¹, PRESTO, JST²)
- P3-104** A Novel Probe for Measuring the Activity of Non-Selective Autophagy
○Wataru Mori, Hideaki Morishita, Ikuko Koyama-Honda, Noboru Mizushima (Dept. of Mol. Biol., Grad. Sch. of Med., Univ. of Tokyo)
- P3-105** Notch signaling regulates expression of glycolytic genes during development
○Misato Yamaki, Shuhei Kuwabara, Huiqing Yu, Motoyuki Itoh (Graduate School of Pharmaceutical Sciences, Chiba University)

- P3-106** Tissue elongation and pattern formation of cells induced by isotropic expansion of a field
 ○Hiroshi Koyama^{1,2}, Toshihiko Fujimori^{1,2} (Division of Embryology, National Institute for Basic Biology, Japan¹, SOKENDAI (The Graduate University for Advanced Studies), Japan²)
- P3-107 (WS16-04)** Information transmission of insulin signal transduction based on live-cell sensing and information theoretic approach
 ○Katsuyuki Kunida^{1,2}, Shinsuke Uda³, Takumi Wada², Haruki Inoue⁴, Shinya Kuroda^{2,4} (Laboratory of Computational Biology Graduate School of Biological Sciences, Nara Institute of Science and Technology¹, Department of Biological Sciences, Graduate School of Science, University of Tokyo², Division of Integrated Omics, Research Center for Transomics Medicine, Medical Institute of Bioregulation, Kyushu University³, Department of Computational Biology and Medical Sciences, Graduate school of Frontier Sciences, University of Tokyo⁴)
- P3-108** Competition for space controlled by apoptosis-induced change of local epithelial topology
 ○Alice Tsuboi¹, Daiki Umetsu², Shizue Ohsawa³, Yukari Sando³, Erina Kuranaga², Tatsushi Igaki³, Koichi Fujimoto¹ (Osaka univ.¹, Tohoku univ.², Kyoto univ.³)
- P3-109** Elucidating pathogenesis of congenital myopathy caused by defective membrane remodeling
 Kenshiro Fujise, Kaho Seyama, Yasuka Yamashita, Hiroshi Yamada, Kohji Takei, ○Tetsuya Takeda (Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University)
- P3-110 (SWS-10)** A PI3K-derived peptide inhibits clathrin-independent endocytosis and influenza virus infection
 ○Yoichiro Fujioka, Aya O Satoh, Kosui Horiuchi, Mari Fujioka, Sarad Paudel, Asuka Nanbo, Yusuke Ohba (Dept. Cell Physiol., Fac. Med. and Grad. Sch. Med. Hokkaido Univ.)
- P3-111 (WS17-05)** Early-life exposure to low-dose oxidants can increase longevity via microbiome remodelling in *Drosophila*
 ○Fumiaki Obata^{1,2}, Clara O. Fons², Alex P. Gould² (The University of Tokyo¹, The Francis Crick Institute²)
- P3-112** Reactivation of *polr1c* restores the ethmoid plate structure in zebra-

ish Type 3 Treacher Collins Syndrome model

○Ka Fai William Tse (Kyushu University)

P3-113

The role of F-actin binding protein *COTLI* in mitochondrial fission

○Gijeong Kim^{1,2}, Jeonghyun Kim^{1,2}, Eun-Hee Ko^{1,2}, Seon-Yong Jeong^{1,2}, Eunkuk Park¹ (Ajou University School of Medicine, Department of Medical Genetics¹, Department of Biomedical Sciences, Ajou University Graduate School of Medicine, Suwon, Republic of Korea.²)

P3-114

Identification of *MKRN3* variants in Korean girls with central precocious puberty

○Eun-Hee Ko^{1,2}, Hae Sang Lee³, Hyun-Seok Jin⁴, Jeonghyun Kim^{1,2}, Gijeong Kim^{1,2}, Seulbi Park^{1,2}, Mi Ran Jo^{1,2}, Dowan Kim^{1,2}, Eun Young Kim^{2,5}, Seon-Yong Jeong^{1,2}, Jin Soon Hwang³ (Ajou University School of Medicine, Department of Medical Genetics¹, Department of Biomedical Sciences, Ajou University Graduate School of Medicine, Suwon, Korea², Department of Pediatrics, Ajou University School of Medicine, Suwon, Korea³, Department of Biomedical Laboratory Science, College of Life and Health Sciences, Hoseo University, Asan, Korea⁴, Department of Brain Science, Ajou University School of Medicine, Suwon, Korea⁵)

P3-115

Effects of Kukoamine B on bone formation and resorption in ovariectomized mice

○Seulbi Park^{1,2}, Jeonghyun Kim^{1,2}, Moon-Chang Kim¹, Subin Yeo³, Yoonjoong Yong³, Jung-a Yang³, Gijeong Kim^{1,2}, Eun-Hee Ko^{1,2}, Eunkuk Park^{1,3}, Seon-Yong Jeong^{1,2,3} (Ajou University School of Medicine, Department of Medical Genetics¹, Department of Biomedical Sciences, Ajou University Graduate School of Medicine, Suwon 16499, Republic of Korea², Nine B Company, Daejeon 34121, Republic of Korea³)

P3-116

Identification of *UBAP2* as a novel susceptibility gene for postmenopausal osteoporosis

○Mi Ran Jo^{1,2}, Jeonghyun Kim^{1,2}, Bo-Young Kim³, Eunkuk Park¹, Mun-Chang Kim¹, Yong-Jun Choi⁴, Bom-Taeck Kim⁵, Hyung-Min Ji⁶, Ye-Yeon Won⁶, Yoon-Sok Chung⁴, Hyun-Seok Jin⁷, Seon-Yong Jeong^{1,2} (Ajou University School of Medicine, Department of Medical Genetics¹, Department of Biomedical Sciences, Ajou University Graduate School of Medicine, Suwon, Republic of Korea², Division of Intractable Disease, Center for Biomedical Sciences, National Institute of Health, Korea Centers for Disease Control & Prevention, Cheongju, Republic of Korea³, Department

of Endocrinology and Metabolism, Ajou University School of Medicine, Suwon, Republic of Korea⁴, Department of Family Practice and Community Health, Ajou University School of Medicine, Suwon, Republic of Korea⁵, Department of Orthopaedic Surgery, Ajou University School of Medicine, Suwon, Republic of Korea⁶, Department of Biomedical Laboratory Science, College of Life and Health Sciences, Hoseo University, Asan, Republic Korea⁷)

- P3-117 (WS17-07)** Molecular commonalities between auditory hair cells and neurons in the study of age-related neuronal disorder
○Leo Tsuda, Ryunosuke Minami, Young-Mi Lim (National Center for Geriatrics and Gerontology)
- P3-118** Safety Assessment of Lentiviral Gene Delivery in Intravesical Therapy
Pei-Fung Wu¹, Ching-Wen Liu², Yu-Fen Hung³, Tsan-Jung Yu⁴, ○Li-Ching Chang^{5,6} (Dept. of Kinesiology, Health and Leisure Studies, National Univ. of Kaohsiung¹, School of Pharmacy, Kaohsiung Medical Univ.², Dept. of Occupational Therapy, I-Shou Univ.³, Dept. of Urology, E-Da Hospital and I-Shou Univ.⁴, School of Medicine, I-Shou Univ.⁵, Dept. of Pharmacy, E-Da Hospital and I-Shou Univ.⁶)
- P3-119** Study on the relationship between neural gene expression and dedifferentiation in early stage of carcinogenesis
○Shunya Hozumi, Hiroya Katayama, Jia Zeyuan, Yutaka Kikuchi (Dept. of Biol. Sci., Grad. Sch. of Sci., Hiroshima Univ.)
- P3-120** Analysis of severe fibrosis in submandibular gland tissue of patients with IgG4-related disease
○Ryoto Yajima¹, Kenichi Takano¹, Akito Kakiuchi¹, Takumi Konno², Takayuki Kohno², Tetsuo Himi¹, Takashi Kojima² (Department of Otolaryngology, Sapporo Medical University School of Medicine¹, Department of Cell Science, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine²)
- P3-121 (WS17-08)** HNRNPLL is a novel metastasis suppressor of colorectal cancer, and modulates alternative splicing of *CD44* during epithelial-mesenchymal transition
○Masahiro Aoki, Keiichiro Sakuma (Aichi Cancer Center Research Institute)

- P3-122 (WS17-09)** Dynamamin 2 mutation in Charcot-Marie-Tooth disease disturbs reorganization of actin cytoskeleton in glomerular podocyte
 ◦Kohji Takei¹, Natsuki Wakita¹, The Mon La¹, Kento Sumida¹, Moin Saleem², Tetsuya Takeda¹, Hiroshi Yamada¹ (Okayama University¹, Bristol University²)
- P3-123** CD2AP, a risk factor of late-onset Alzheimer's disease, regulates the endosomal trafficking and degradation of APP
 ◦Kotaro Furusawa¹, Mitsunori Fukuda², Shin-ichi Hisanaga¹ (Department of Biological Sciences, Graduate School of Science, Tokyo Metropolitan University¹, Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University²)
- P3-124** Intracellular localization of glycolipid-anchored protein sorting receptor in the early secretory pathway of protozoan parasite.
 ◦Coh-ichi Nihei¹, Masayuki Nakanishi², Masakatsu Shibasaki¹ (BIKA-KEN¹, Matsuyama Univ.²)
- P3-125** Metabolomics of colorectal cancer using ambient ionization-mass spectrometry
 ◦Kentaro Yoshimura¹, Tomohiko Iwano¹, Hisashi Johno¹, Takahiro Domoto², Toshinari Minamoto², Sen Takeda¹ (University of Yamanashi¹, Kanazawa University²)
- P3-126** ILC2s in the stomach are induced by commensal bacteria and protect from pathogenic infection
 ◦Naoko Satoh¹, Yasutaka Motomura², Kazuyo Moro², James Di Santo³, Hitomi Mimuro⁴, Hiroshi Ohno¹ (RIKEN IMS Intestinal Ecosystem¹, RIKEN IMS Innate Immune Systems², Unit of Innate Immunity, Institut Pasteur³, Division of Bacteriology, Department of Infectious Diseases Control, Institute of Medical Science, The University of Tokyo⁴)
- P3-127 (WS16-05)** Inhibitory signal on FGF-mediated *Msx1* induction in the mandibular arch may contribute to the diversification of heterodont dentition among mammals.
 ◦Yoshio Wakamatsu¹, Shiro Egawa², Yukari Terashita³, Noriko Osumi¹, Hiroshi Kawasaki³, Koji Tamura², Kunihiko Suzuki⁴ (Tohoku Univ., Grad. Sch. Med.¹, Tohoku Univ., Grad. Sch. Life Sci.², Kanazawa Univ., Grad. Sch. Med.³, Nihon Univ. Sch. Dent. Matsudo⁴)
- P3-128** The neural tube formed by secondary neurulation provides innerva-

tions to the organs that were acquired after the aquatic-to-terrestrial changes during vertebrate evolution

○Eisuke Shimokita¹, Yoshiko Takahashi² (Department of Anatomy and Cell Biology Institute of Biomedical Sciences Tokushima University Graduate School¹, Department of Zoology Graduate School of Science Kyoto University²)

P3-129
(WS16-08) Constrained variation of floral organ arrangement in basal eudicots: a correlation with species diversity of the organ number.

○Koichi Fujimoto, Miho S. Kitazawa (Osaka University)

P3-130 Developmental compartments within the autopod.
Yuki Sugiura, Ayumi Tadokoro, Keiichi Kitajima, Gembu Abe, ○Koji Tamura (Graduate School of Life Sciences, Tohoku University)

P3-131
(WS16-06) Heterochrony in initiation of *Gdf11* expression specifies unique hindlimb positioning through coordination of *Hox* gene expression in tetrapods

○Takayuki Suzuki¹, Yoshiyuki Matsubara¹, Hikaru Kasahara¹, Tatsuya Hirasawa², Shiro Egawa³, Ayumi Hattori⁴, Takaya Suganuma¹, Yuhei Kohara¹, Tatsuya Nagai¹, Koji Tamura³, Shigeru Kuratani², Atsushi Kuroiwa¹ (Nagoya Univ.¹, RIKEN², Tohoku Univ.³, IDAC⁴)

P3-132
(WS16-09) Tissue-specific regulation of *yellow* gene expression in *Bombyx mori*

○Takao K Suzuki¹, Shigeyuki Koshikawa², Isao Kobayashi¹, Keiro Uchino¹, Hideki Sezutsu¹ (National Agriculture and Food Research Organization (NARO)¹, Hokkaido University²)

P3-133 The hypomorphic mutations hidden in the allotetraploid genome of *Xenopus laevis*

○Mikio Tanouchi¹, Haruki Ochi², Akane Kawaguchi³, Takeshi Igawa¹, Yui Iwata¹, Kiyo Sakagami⁴, Hagime Ogino¹ (Amph. Res. Center, Hiroshima Univ.¹, Fac. Med., Yamagata Univ.², Res. Inst. Mol. Path., Vienna Biocenter³, Dept. Ani-Bio., Nagahama Inst. of Bio-Sci. Tech.⁴)

P3-134
(WS16-10) Evolution of larval skeletogenic mechanism: developmental system drift in echinoderm

○Atsuko Yamazaki, Yoshiaki Morino, Hiroshi Wada (University of Tsukuba)

P3-135 Expression and functional analysis of type X collagen during osteo-

genesis in amniotes

Norisuke Yokoyama, [○]Masaki Takechi, Sachiko Iseki (Tokyo Medical and Dental University)

P3-136 Quantitative analysis for cellular dynamics in *C. elegans* embryogenesis

[○]Yusuke Azuma, Shuichi Onami (RIKEN)

P3-137 Probing the local membrane environment of the human insulin receptor

[○]Miwa Umebayashi¹, Luc Reymond², Satoko Takemoto⁴, Hideo Yokota⁴, Mayya Sundokova⁵, Kai Johnsson³, Howard Riezman¹ (University of Geneva¹, EPFL², Max Planck Institute for Medical Research Heidelberg³, RIKEN⁴, EMBL Monterotondo⁵)

P3-138 (WS09-08) Optical control of cell signaling by the genetically-encoded PhyB-PIF system

[○]Youichi Uda^{1,2}, Michiyuki Matsuda^{1,3}, Kazuhiro Aoki² (Department of Pathology and Biology of Diseases, Graduate School of Medicine, Kyoto University¹, Division of Quantitative Biology, Okazaki Institute for Integrative Bioscience, National Institute for Basic Biology, National Institutes of Natural Sciences², Laboratory of Bioimaging and Cell Signaling, Graduate School of Biostudies, Kyoto University³)

P3-139 (WS09-03) Quantitative control of mitochondria transfer between live single cells using a microfluidic device toward mtDNA editing

[○]Ken-Ichi Wada, Kazuo Hosokawa, Yoshihiro Ito, Mizuo Maeda (RIKEN)

P3-140 Designable RNA-binding protein for live-cell imaging and manipulation of authentic RNAs

[○]Akira Takai¹, Yasushi Okada^{1,2} (QBiC, RIKEN¹, Univ. of Tokyo²)

P3-141 The generation of transchromosomal mice using intracytoplasmic sperm injection and somatic cell nuclear transfer

[○]Yuki Yoshimura¹, Yasuhiro Kazuki^{2,3}, Mitsuo Oshimura³, Takeshi Takahashi¹ (Central Institute for Experimental Animals¹, Department of Biomedical Science, Graduate School of Medical Science, Institute of Regenerative Medicine and Biofunction, Tottori University², Chromosome Engineering Research Center, Tottori University³)

- P3-142** A simple and accurate construction of TALEs and its applications
○Kazuho Ikeda, Yoko Terahara, Yasushi Okada (RIKEN, QBiC)
- P3-143 (WS09-05)** Measurement of caveolin-1 densities in the cell membrane for quantification of caveolar deformation after exposure to hypotonic membrane tension
Masashi Tachikawa², ○Shiro Suetsugu¹ (Nara Institute of Science and Technology¹, Theoretical Biology Laboratory, RIKEN²)
- P3-144 (WS09-09)** Partially hydrated and markedly destructured hydrogen-bond network of intracellular water investigated with terahertz spectroscopy
○Keiichiro Shiraga¹, Takeshi Matsui¹, Mika Sawada², Shojiro Kikuchi², Tetsuhito Suzuki³, Takeshi Mitsunaka⁴, Masafumi Yamanoue⁴, Yuichi Ogawa³ (RIKEN Center for Integrative Medical Sciences¹, Institute for Advanced Medical Science, Hyogo College of Medicine², Graduate School of Agriculture, Kyoto University³, Electronic Components and Devices BU., Sharp Corporation⁴)
- P3-145** Gene knockout and phenotypic analyses of *Xenopus laevis weel1b* gene, a negative regulator of cell cycle, by CRISPR/Cas9 method
○Minoru Watanabe^{1,2}, Ryutaro Tanaka², Miyu Yoshida², Satoshi Yoshitome³, Nobuaki Furuno⁴, Nobushige Nakajo⁵ (Inst. Lib. Arts Sci., Tokushima Univ.¹, Fac. Integr. Arts Sci., Tokushima Univ.², Dept. Environ. Sci., Int. Coll. Arts Sci., Fukuoka Women's Univ.³, Div. Embryol., Amphi. Res. Ctr., Hiroshima Univ.⁴, Dept. Biol., Grad. Sch. Sci., Kyushu Univ.⁵)
- P3-146** KANPHOS Platform: A comprehensive database for kinase-associated neural phosphorylation signaling
○Mutsuki Amano¹, Junichiro Yoshimoto², Takayuki Kannon³, Tomoki Nishioka¹, Shiro Usui⁴, Kozo Kaibuchi¹ (Nagoya University, Graduate School of Medicine¹, NAIST, Graduate School of Information Science², Kanazawa University, Institute of Medical, Pharmaceutical and Health Sciences³, RIKEN, Neuroinformatics Japan Center⁴)
- P3-147** Imaging of intracellular temperature in Neuron-like PC12 cell
○Yoshie Harada¹, Taishu Akiyama^{1,2}, Masaki Kinoshita², Hisashi Tadakuma¹, Kohki Okabe^{3,4} (Institute for Protein Research¹, Graduate School of Biostudies, Kyoto University², Graduate School of Pharmaceutical Sciences, The University of Tokyo³, PRESTO, JST⁴)
- P3-148** Development of a new fluorescent probe for visualization of open

chromatin structure in living cells

○Daisuke Ino¹, Kazuho Ikeda¹, Yasushi Okada^{1,2} (Laboratory for Cell Polarity Regulation, QBIC, RIKEN¹, Department of Physics, Graduate School of Science, The University of Tokyo²)

P3-149
(WS09-02)

Depletion of autophagy receptor p62/SQSTM1 enhances the efficiency of gene delivery in mammalian cells

○Hidesato Ogawa¹, Megumi Tsuchiya¹, Takako Koujin², Chie Mori², Hiroko Osakada², Shouhei Kobayashi², Yasushi Hiraoka^{2,1}, Tokuko Hara-guchi^{1,2} (Osaka Univ.¹, NICT²)

P3-150

The HiBiT protein quantitation system facilitates determination of antibody affinities under immunoprecipitation conditions

Deshani C. Ranawakage, Takuya Takada, ○Yusuke Kamachi (Kochi University of Technology)

P3-151

Developing a novel fluorescent cross-correlation spectroscopy for applications of the maturation of fluorescent proteins and the efficiency of kinesin dimerization

○Kazunari Mouri¹, Yasushi Okada^{1,2} (RIKEN¹, Univ. Tokyo, Grad. Sch. Sci., Dept. Phys.²)

P3-152

Development of live imaging technique for collagen fiber.

○Yoshihiro Miwa, Junko Kijima Tanaka, Yumi Mori, Tomoki Sakasai, Seiya Mizuno, Masafumi Muratani, Fumihiro Sugiyama, Satoru Takahashi (University of Tsukuba)

P3-153

Attempt to make a breakthrough for live imaging of cells or proteins, and for gene functional analysis, in sponges by establishing a method for gene introduction

○Tomonori Mukai, Noriko Funayama (Dept. Biophysics, Graduate School of Science, Kyoto Univ.)

P3-154

Investigation of postsynaptic signaling using novel phosphoproteomic approach

○Md Imrul Hasan Chowdhury, Tsuboi Daisuke, Kozo Kaibuchi (Department of Cell Pharmacology, Graduate school of Medicine, Nagoya University)

P3-155

The 4th National BioResource Project of *Xenopus tropicalis*

○Takeshi Igawa¹, Akihiko Kashiwagi¹, Keiko Kashiwagi¹, Ichiro Tazawa¹,

Nobuaki Furuno¹, Haruki Ochi², Takashi Kato³, Tsukasa Mori⁴, Hajime Ogin¹ (Amphibian Research Center, Hiroshima University¹, School of Medicine, Yamagata University², Faculty of Education and Integrated Arts and Sciences & Graduate School of Advanced Science and Engineering, Waseda University³, College of Bioresource Sciences, Nihon University⁴)