

THE ROLE OF NUCLEOPORIN NUP58 DURING CELL DIVISION OHartono¹, Masaharu Hazawa^{1,3}, Firli Rahmah Primula Dewi¹, Akiko Kobayashi¹, Mahmoud Shaaban Mohamed¹ and Richard W. Wong^{1,2,3}.

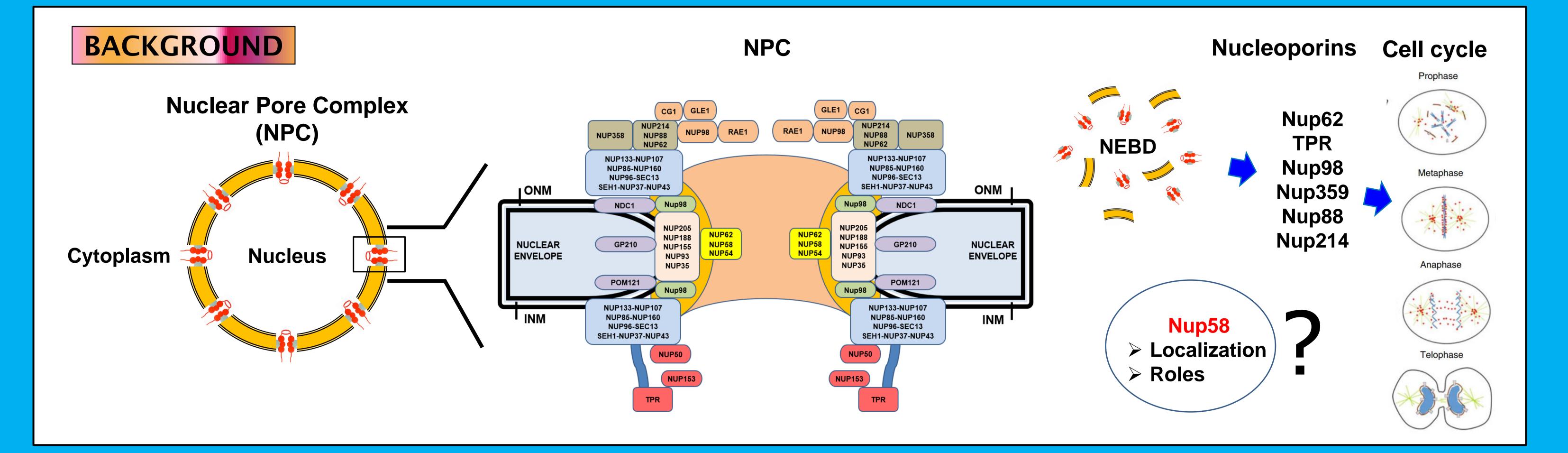
¹Laboratory of Molecular Cell Biology, Division of Natural System, Graduate School of Natural Science and Technology (NST), Kanazawa University, Japan. ²WPI Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, Kanazawa, Ishikawa, Japan. ³Cell-Bionomics Research Unit, Innovative Integrated Bio-Research Core, Institute for Frontier Science Initiative, Kanazawa University, Kanazawa, Ishikawa, Japan.

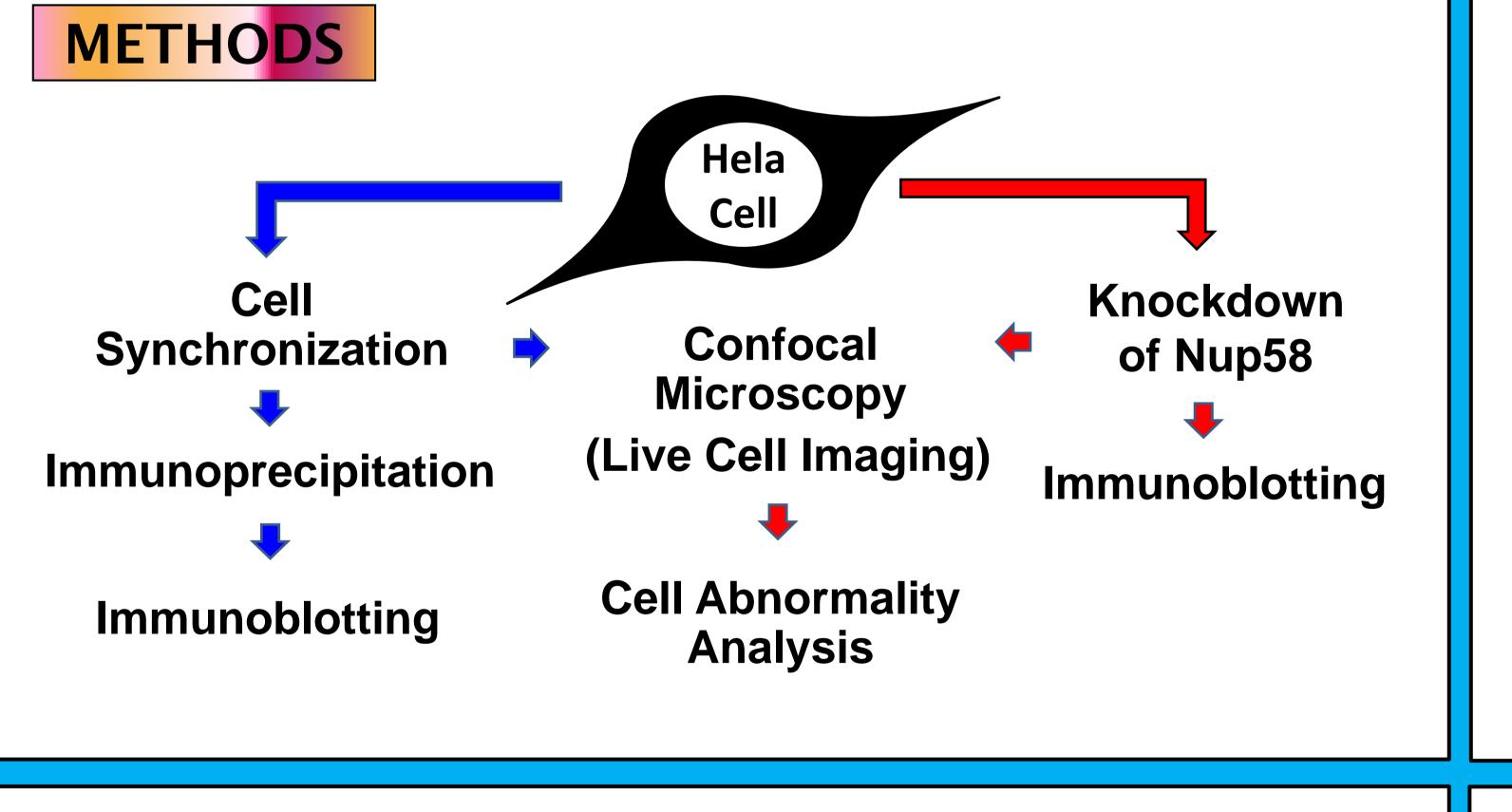
ABSTRACT

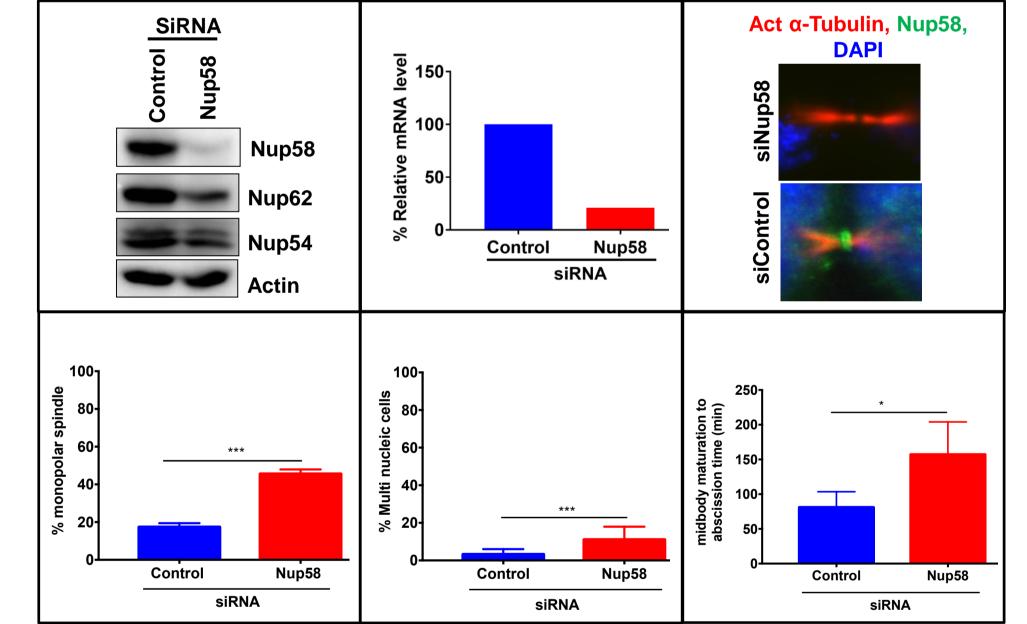
Nuclear pore complexes (NPCs) are transport channels between the nucleus and the cytoplasm. The NPCs are composed by around 30 different proteins, termed nucleoporins (Nups) and each Nup is present in multiple copies. Recently, we and others discovered that several nucleoporins play critical roles during cell division including chromosome condensation, sister chromatid cohesion, kinetochore assembly and spindle formation. Nup58 is a part of the central transport channel of the NPC, which forms a complex protein with other nucleoporins such as Nup62 and Nup54. Recently, we showed that Nup62 plays a novel role in centrosome integrity. Here, we show that Nup62 interacts with Nup58 during cell mitosis. Next, we performed

RNA interference-mediated knockdown of Nup58. Currently, we are investigating Nup58 depletion effect in cell cycle.

Keywords: NPC, Nucleoporin, Nup58, mitosis



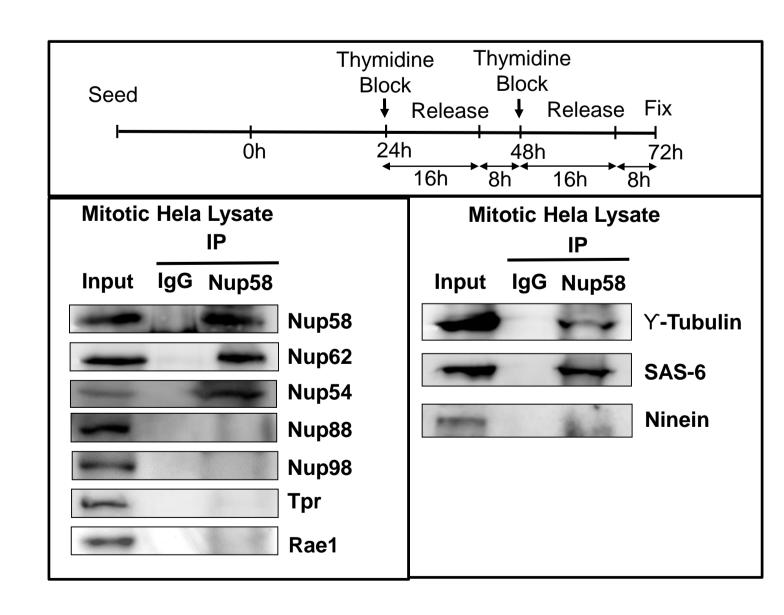


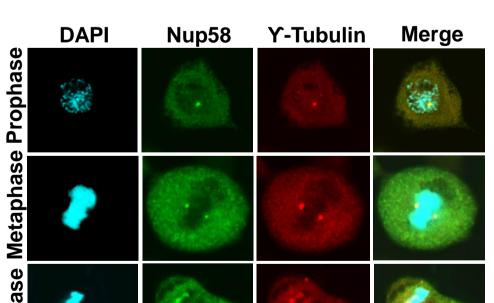


➢ siRNA-mediated knockdown of Nup58 affected Nup62 and Nup54 protein level ➢ siRNA-mediated knockdown Of induced Nup58 spindle monopolar formation, multicells nuclei and delayed cytokinesis

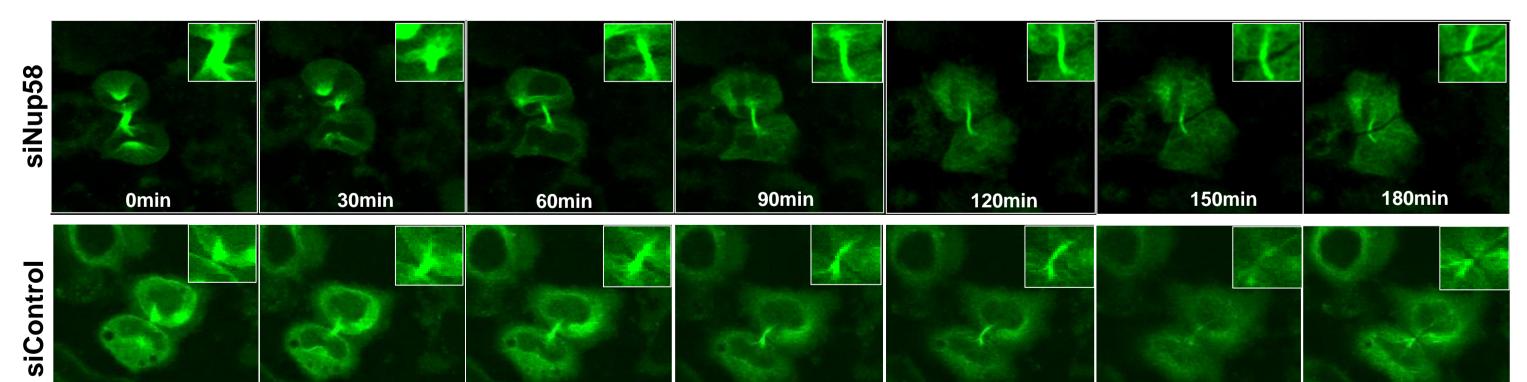
RESULTS

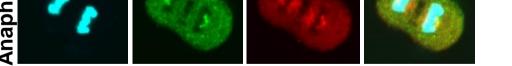
Localization and interaction of Nup58 during mitosis





Nup58 depletion induced cytokinesis delay

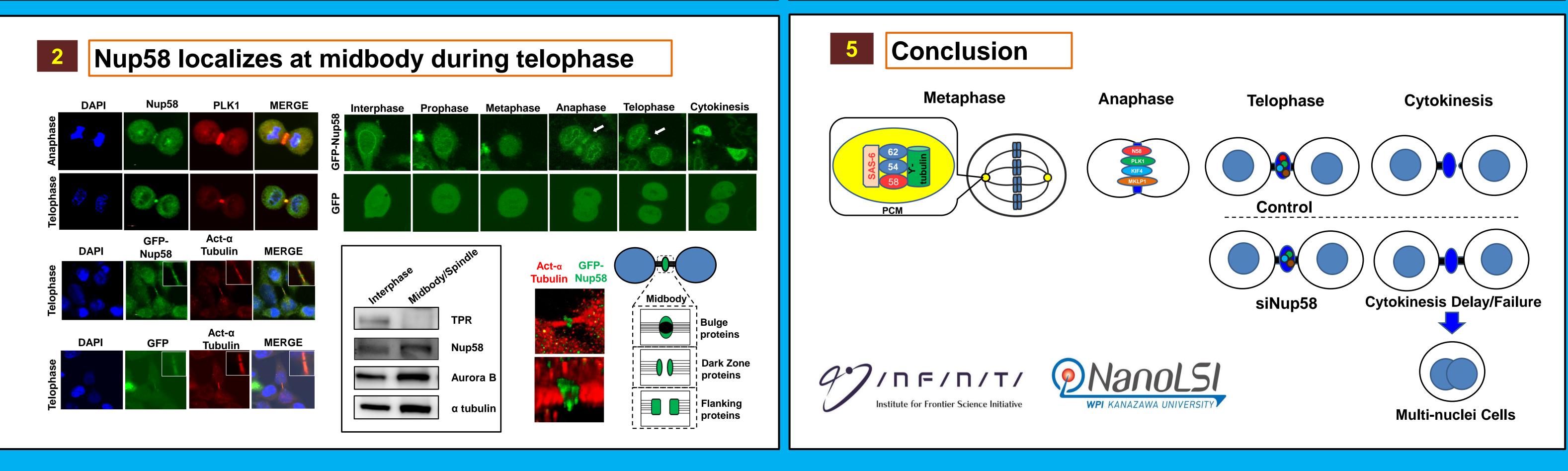




Nup58 localized to the centrosome and interacted with members of Nup62 complex and centrosome markers protein during cell mitosis

| 0min | 12min | 24min | 36min | 48min | 60min | 78min |
|------|-------|-------|-------|-------|-------|-------|
| | | | | | | |

Depletion of Nup58 on HeLa cells expressing stable GFP-α-tubulin leads to prolonged duration between mature midbody formation and final abscission



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

Name

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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

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

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)

Program Book

Special Lect

Yoshima (Constitute of Technology) 2016 Noted 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/jscbjsdb2018



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

-1-

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| 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 ^oYu-Sheng Hung¹, Wei-Chih Kuo¹, Chieh-Yu Chen², Wei-Yi Chen², Jenn-Yah Yu¹, Ming-Ji Fann¹ (Department of Life Sciences and Institute of |
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| | Genome Sciences, National Yang-Ming University, Taipei 112, Taiwan ¹ , Institute of Biochemistry and Molecular Biology, National Yang-Ming University, Taipei 112, Taiwan ²) |
| P1-002 | Analysis of target genomic regions of DNA methyltransferase3aa (Dnmt3aa) in zebrafish ^o Masaki Shirai ¹ , Kazuya Takayama ¹ , Ikumi Taya ¹ , Nobuyoshi Shimoda ² , Yutaka Kikuchi ¹ (Department of Biological Science, Graduate School of Science, Hiroshima University ¹ , Department of Regenerative Medicine, National Institute for Longevity Sciences, National Center for Geriatrics and Gerontology ²) |
| P1-003 | Targeted <i>in vivo</i> epigenome editing of H3K27me3 ^O Hiroto S Fukushima, Hiroyuki Takeda, Ryohei Nakamura (University of Tokyo) |
| P1-004 | Regulation of a pan-neural <i>Sox2</i> enhancer D1 [°] Hideaki Iida ¹ , Masanori Uchikawa ² , Hisato Kondoh ¹ (Department of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo University ¹ , Graduate School of Frontier Biosciences, Osaka University ²) |
| P1-005 | The role of nucleoporin NUP58 during division ^O Hartono Hartono ¹ , Masaharu Hazawa ^{1,3} , Firli Rahmah Primula Dewi ¹ , Akiko Kobayashi ¹ , Mahmoud Shaaban Mohamed ¹ , 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
 ^oFirli 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
 ^oTomohiro 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 ^oYukako 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* ^oYuto 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 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 Sci- ences ¹ , Department of Basic Biology, School of Life Science, Graduate University for Advanced Studies (SOKENDAI) ² , Laboratory of Pro- teomics, Institute of Molecular Medicine and Life Science, Yokohama City University Association of Medical Science ³ , Department of Urology, Yokohama City University Graduate School of Medicine ⁴) |
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| 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 ^o Akane Morohoshi ^{1,2} , Haruhiko Miyata ² , Keisuke Shimada ² , Kaori Nozawa ² , Takafumi Matsumura ^{2,3} , Masahito Ikawa ^{1,2,3} (Graduate School of Medicine, Osaka University, Osaka, Japan ¹ , Research Institute for Micro- bial Diseases, Osaka University, Osaka, Japan ² , Graduate School of Phar- maceutical Sciences, Osaka University, Osaka, Japan ³) |
| P1-014 (SWS-03) | Decision mechanism for the second polar body in mouse oocytes [°] Takaya Totsuka ¹ , Miho Ohsugi ^{1,2} (Department of Biological Sciences, Graduate school of Science, The University of Tokyo ¹ , Department of Life and Cognitive Sciences, College of Arts and Science, The University of Tokyo ²) |
| P1-015 | Analysis of granulosa cell progenitor differentiation during primor- dial follicle formation in mice [°] Kurumi Fukuda ¹ , Yuzuru Kato ^{1,2} , Yumiko Saga ^{1,2} (The Graduate Univer- sity for Advanced Studies (SOKENDAI), School of Life Science, Depart- ment of Genetics, Division of Mammalian Development ¹ , National Insti- tute of Genetics ²) |
| 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} (SOKENDAI ¹ , Natl. Inst. of Genetics ²) |
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| 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. ^o Satoshi Miyashita ¹ , Yusuke Seto ² , Tomoo Owa ¹ , Shinichiro Taya ¹ , Yoshiya Kawaguchi ² , Mikio Hoshino ¹ (National Center of Neurology and Psychiatry ¹ , Univ. of Kyoto ²) |
| P1-020 | Nuclear transport system caused by disease-specific Karyopherin alternation [°] Kie Sakai ¹ , Mazaharu Hazawa ^{1,2,3} , Akiko Kobayashi ² , Richard Wong ^{1,2,3} (Cell-Bionomics Unit, Innovetive Integrated Bio research Core, Institute for Frontier Science Initiative, Kanazawa University, Ishikawa, Japan ¹ , Laboratory of Molecular Cell Biology, School of Natural System, Institute of Science and Engineering, Kanazawa University, Ishikawa, Japan ² , WPI Nano Life Science Institute, Kanazawa University, Kakuma-machi, Kanazawa, Japan ³) |
| P1-021 | Effect of the overexpression of connexin isoforms on HeLa cell pro- liferation [°] Toshiki Saito, Mikako Saito (Department of Biotechnology and Life Sci- ence, Tokyo University of Agriculture and Technology) |
| P1-022 (YSA-07) | Tumor progression driven by polyploid giant cells in <i>Drosophila</i> [°] 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} (SOKENDAI ¹ , NIBB ²) |
| P1-024 | Phosphorylation of Shank3 by Rho-Kinase regulates surface translo- cation of NMDA and AMPA receptors in PSD. [°] Rijwan Uddin Ahammad, Yasuhiro Funahashi, Md. Omar Faruk, Emran |

Hossen, Kozo 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
^oHiromitsu 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)

ert J Crouch (Division of Intramural Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health)

- P1-029
(WS03-10)Ca2+ Signaling Response after Mechanical Stimulation of Single
Immotile Cilium in Mammalian Node.OT base of the state of

^oTakanobu 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. ^oYuta 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 ^oKazuki Kousaka¹, Ryosuke Tadokoro¹, Takanori Akaiwa¹, Yoshiko Takahashi^{1,2} (Department of Zoology, Graduate School of Science, Kyoto Uni-

versity¹, 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 ^oTsuyoshi 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 ^oYoshihiko Kuchitsu, Yuta Homma, Naonobu Fujita, Mitsunori Fukuda (Lab. of Membr. Trafficking Mech., Grad. Sch. of Life Sci., Tohoku Univ.)
- **P1-035** IRE1 α -XBP1 pathway regulates oxidative proinsulin folding in pancreatic β cells.

^oYuichi 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.
 ^oTaiki 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 ^o 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. Hok- kaido Univ.) |
| P1-039 | Two isoforms of Rab11 regulator LMTK1, similar and dissimilar cel- lular functions of LMTK1A and LMTK1B [°] Ran Wei ¹ , Hironori Nishino ¹ , Keisuke Komaki ¹ , Mineko Tomomura ² , Kanae Ando ¹ , Shin-ichi Hisanaga ¹ (Univ. of Tokyo Metropolitan ¹ , Univ. of Meikai ²) |
| P1-040 (SWS-05) | The small GTPase Rab10 regulates the formation of tubular endo- somes 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 (Gradu- ate School of Pharmaceutical Sciences, Kyoto University) |
| P1-042 (SWS-06) | Analysis of lysosomal biogenesis pathway using novel ratiometric probe. ^o Shunsuke Ishii ¹ , Akira Matsuura ² , Eisuke Itakura ² (Graduate School of Science and Engineering, Chiba University ¹ , Graduate School of Science, Chiba University ²) |
| P1-043 | Overexpression of MORN2 enhances LC3-associated phagocytosis in macrophages ^o 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 <i>Plasmodium falciparum</i> ^o Izumi Kitazono ^{1,2} , Tomohiro Hirai ¹ , Kisaburo Nagamune ^{1,2} , Tomoyoshi Nozaki ³ , Yumiko Saito-Nakano ¹ (Department of Parasitology, National Institute of Infectious Diseases, Tokyo, Japan ¹ , Department of Biological Sciences, Graduate School of Life and Environmental Sciences, University of Tsukuba, Ibaraki, Japan ² , Department of Biomedical Chemistry, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan ³) |
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| P1-045 | 4-Phenylbutyrate suppresses the unfolded protein response without restoring protein folding in <i>Saccharomyces cerevisiae</i> [°] Thanh Chi Mai, Yukio Kimata (Nara Institute of Science and Technology) |
| P1-046 | The Nem1/Spo7–Pah1/lipin axis is required for both macroautoph- agy and microautophagy induction after TORC1 inactivation ^o 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 <i>Drosophila</i> 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 ^o 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 Shakuno ¹ , Mitsuko Hayashi-Nishino ² , Kunihiko Nishino ² , Ayano Satoh ¹ (Okayama University ¹ , Institute of Scientific and industrial Research, Osaka University ²) |
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| P1-052 | Intra- and extracellular functions of the ER-resident protein VAP in <i>Drosophila</i> ^o Kosuke Kamemura ¹ , Chun-an Chen ² , Misako Okumura ¹ , Sayaka Sekine ³ , Daichi Kamiyama ⁴ , Masayuki Miura ² , Takahiro Chihara ¹ (Grad Sch of Sci, Hiroshima Univ ¹ , Grad Sch of Pharm Sci, Univ of Tokyo ² , CDB, RIKEN ³ , Dept Cell Biol, Univ of Georgia ⁴) |
| P1-053 | Ubiquitin-specific protease 8 suppresses collagen secretion by deu- biquitnating Sec31 [°] Kohei Kawaguchi, Akinori Endo, Toshiaki Fukushima, Masayuki Kom- ada (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 ^o 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 ^o Hiroki Shimamura ¹ , Tie Kawada ¹ , Makoto Nagano ¹ , Junko Y. Toshima ² , Jiro Toshima ¹ (Department of Biological Science and Technology, Tokyo University of Science ¹ , School of Health Sciences, Tokyo University of Technology ²) |
| P1-056 | Polarized localization of the phospholipid flippase ATP11C isoform at the plasma membrane Masahiro Takayama, ^O 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. ^o Sayuri Okamoto, Tomoki Naito, Kazuhisa Nakayama, Hiroyuki Takatsu, Hye-Won Shin (Graduate School of Pharmaceutical Sciences, Kyoto Uni- versity) |

| 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) |
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| P1-059 | Analysis of the role of PI4P and organelle contact site in prospore membrane extension during sporulation of budding yeast ^o Tsuyoshi S. Nakamura ¹ , Kenji Muneshige ¹ , Yasuyuki Suda ² , Hiroyuki Tachikawa ¹ (Dep. Appl. Biol. Chem, Grad. Sch. of Agri. and Life Sci., The Univ. of Tokyo ¹ , Maj. Med. Sci., Grad. Sch. of Comprehensive Human Sci., Univ., of Tsukuba ²) |
| P1-060 | Requirement of PtdIns (4)P metabolism by PI4 kinase and phospha- tase during receptor-mediated endocytosis ^o Masahiro Suwazono ¹ , Wataru Yamamoto ¹ , Kaito Aoshima ¹ , Hiroshi Shi- mamura ¹ , Makoto Nagano ¹ , Junko Y Toshima ^{2,1} , Jiro Toshima ¹ (Depart- ment of Biological Science and Technology, Tokyo University of Science ¹ , School of Health Sciences, Tokyo University of Technology ²) |
| P1-061 | Cooperative function of yeast Rab6/Ypt6 and V-ATPase in the endo- cytic recycling pathway ^o Yuka Noma ¹ , Haruka Yamashita ¹ , Takumi Sato ¹ , Makoto Nagano ¹ , Junko Y Toshima ² , Jiro Toshima ¹ (Department of Biological Science and Tech- nology, Tokyo University of Science ¹ , School of Health Sciences, Tokyo University of Technology ²) |
| P1-062 | Regulation of transport of endocytic vesicles through actin cytoskel- eton by yeast Eps15-like protein Pan1p ^o Ippo Ogura ¹ , Nao Yoshida ¹ , Hiroki Shimamura ¹ , Makoto Nagano ¹ , Junko Y Toshima ² , Jiro Toshima ¹ (Department of Biological Science and Tech- nology, Tokyo University of Science ¹ , School of Health Sciences, Tokyo University of Technology ²) |
| P1-063 | Involvement of COPI-coated vesicle in protein sorting from the endosome to the Golgi in yeast ^o Tsuyumi Masuda ¹ , Haruka Yamashita ¹ , Hiromu Kobayashi ¹ , Makoto Nagano ¹ , Junko Y Toshima ² , Jiro Toshima ¹ (Department of Biological Sci- ence and Technology, Tokyo University of Science ¹ , School of Health Sci- ences, Tokyo University of Technology ²) |

| P1-064 (WS14-03) | Autophagosome-ER contact visualized by a novel ER-phagy receptor ^O Haruka Chino ^{1,2} , Tomohisa Hatta ³ , Tohru Natsume ³ , Noboru Mizushima ¹ (epartment of Biochemistry and Molecular Biology, Graduate School and Faculty of Medicine, The University of Tokyo ¹ , Department of Respiratory Medicine, The University of Tokyo ² , Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology (AIST) ³) |
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| P1-065 | Requirement of Pan1p complex for recruitment of actin filaments to endocytic site ^o Mariko Enshoji ¹ , Nao Yoshida ¹ , Hiroki Shimamura ¹ , Makoto Nagano ¹ , Junko Y Toshima ² , Jiro Toshima ¹ (Department of Biological Science and Technology, Tokyo University of Science ¹ , School of Health Sciences, Tokyo University of Technology ²) |
| P1-066 | Distinct roles for the Rho-family GTPases in yeast actin-mediated endocytosis [°] Ikumi Katsumata ¹ , Eriko Kashimura ¹ , Ayaka Ozawa ¹ , Makoto Nagano ¹ , Junko Y Toshima ² , Jiro Toshima ¹ (Department of Biological Science and Technology, Tokyo University of Science ¹ , School of Health Sciences, Tokyo University of Technology ²) |
| P1-067 (WS06-06) | Exploring the molecular pathways leading to bipolar spindle forma- tion [°] 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, Kwansei Gakuin University) |

| P1-070 (WS01-08) | Cdc42-FMNL3 mediated constitutive actin regrowth underneath plasma membrane underlies the repetitive nature of membrane blebs [°] Kana Aoki ¹ , Shinsuke Satoi ¹ , Seiichi Uchida ³ , Yoh Iwasa ² , Junichi Ike- nouchi ^{2,4} (Grad. Sch. Systems Life Sciences, Kyushu University ¹ , Dept. Biol, Kyushu University ² , Dept. Advanced Information technology, Kyushu University ³ , AMED-PRIME, Japan Agency for Medical Research and Development ⁴) |
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| P1-071 | Analysis of dynamins function during cytokinesis in <i>Dictyostelium</i> cells [°] Koushirou Fujimoto ¹ , Go Itoh ² , Shinya Miyagishima ³ , Shigehiko Yumura ¹ (Grad. Sch. of Med., Yamaguchi University ¹ , Grad. Sch. of Med., Akita University ² , Symbio. and cell evol. lab., Natl. inst. of genetics ³) |
| P1-072 | Organization of microtubules in small intestinal crypt cells [°] Yuto Mitsuhata ¹ , Mika Toya ^{1,2} , Masatoshi Takeichi ² , Masamitsu Sato ¹ (Department of Life Science and Medical Bioscience, Graduate School of Advanced Science and Engineering, Waseda University ¹ , RIKEN Center for Developmental Biology ²) |
| P1-073 | Functional linkage between the γ -tubulin ring complex and Alp7/ TACC in microtubule nucleation $^{\circ}$ Mana Katsuyama, Tomonari Sunaga, Masamitsu Sato (Department of Life Science and Medical Bioscience, Graduate School of Advanced Sci- ence and Engineering, Waseda University) |
| P1-074 | Functional analysis of fission yeast CLASP in assembling pre-ana- phase spindle [°] Hirohisa Ebina ¹ , Liang Ji ² , Masamitsu Sato ^{1,2} (Dept. of Life Science and Medical Bioscience, Graduate School of Advanced Science and Engineer- ing, Waseda Univ. ¹ , Dept. of Biophysics and Biochemistry, Graduate School of Science, Univ. of Tokyo ²) |
| P1-075 | <i>Drosophila</i> Dcp2 and moesin mediate the <i>oskar</i> mRNA anchoring and transporting complexes ^o Yi Mei Lee ¹ , Ming-Der Lin ² , Chu-Ya Cheng ¹ , Yi-Lu Tian ¹ , Chih-Chieh Lu ¹ , Po-Hsun Chiang ¹ , Jin-Yu Deng ¹ , Wei-Hong Shen ¹ , Jen-Ho Cheng ¹ , Chao-Han Chen ¹ , Mei-Ling Wu ¹ , Ching-Jin Chang ³ , Tze-Bin Chou ¹ (Insti- tute of Molecular and Cellular Biology, College of Life Sciences, National Taiwan University, Taiwan ¹ , 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.
 ^oMakoto 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
 ^oKei 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.
 ^oFumiko 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

^oTakuma 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, tArp, localized in cilia of *Tetrahymena thermophila* ^OMinori 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
 ^OKalyn 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 ^oDaisuke Ito, Monica Bettencourt-Dias (Instituto Gulbenkian de Ciencia)

- P1-084 Establishment of a PCP-dependent apical microtubule network in tracheal MCCs.
 ^OShogo 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 ^OYuriko 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

^oTakumi Konno¹, Ken-ichi Takano², Yakuto Kanoko², Takuya Kakuki², Kazuaki Nomura², Ryoto Yajima², Akito Kakiuchi², Takayuki Kohno¹, Tetsuo 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)

- P1-089
(WS04-02)Plasma membrane of cell-ECM adhesion region possesses lipid raft-
like lipid composition.°Kodai Minoura', Takafumi Ichikawa', Tomohiro Ohmachi', Yasuhisa

Kodai Minoura', Takafumi Ichikawa', Tomohiro Ohmachi', Yasuhisa
 Kimura¹, Kazumitu 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 ^OMasakazu Shibahara¹, Kodai Minoura¹, Takafumi Ichikawa¹, Yasuhisa Kimura¹, Kazumitu 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.
 ^oFumika Tanaka, Yohei Hirai (Graduate School of Science and Technology, Kwansei Gakuin University)

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| P1-094 (WS15-06) | Functional analysis of alpha-catenin on coordinated epithelial mor- phogenesis [°] Ryosuke Nishimura ¹ , Masahiro Takeda ² , Hiromi Miyoshi ^{2,3} , Yutaka Yamagata ² , Shigenobu Yonemura ^{1,4} (Grad. Sch. of Med. Sci., Tokushima Univ. ¹ , RIKEN CAP ² , Grad. Sch. Sys. Desn., Tokyo Metropolitan Univ. ³ , RIKEN CLST ⁴) |
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| P1-095 (WS04-06) | ERK activation waves mediated by intercellular mechanical signal- ing during collective cell migration ^o Naoya Hino ^{1,2} , Michiyuki Matsuda ^{1,3} , Tsuyoshi Hirashima ³ (Lab. of Bio- imaging and Cell Signaling, Grad. Sch. of Biostudies, Kyoto Univ. ¹ , JSPS Research Fellow ² , 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 Fujii ¹ , Yuki Taga ² , Shinya Ito ³ , Shunji Hattori ² , Kazuhiro Nagata ³ , Takaki Koide ¹ (Graduate School of Advanced Science and Engi- neering, Waseda University ¹ , Nippi Research Institute of Biomatrix ² , Insti- tute for Protein Dynamics, Kyoto Sangyo University ³) |
| P1-097 | Dynamic expression analysis of Cx30.3 in ES cell microenvironment $^\circ\text{Naruwa}$ 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 sys- tem" of Wnt/β-catenin signaling. [°] Shohei Ogamino ¹ , Yuki Akieda ¹ , Jumpei Nogami ² , Yasuyuki Ohkawa ² , Tohru Ishitani ¹ (Integrated Signal. Sys., IMCR, Gunma Univ. ¹ , Div. of Transcriptomics., MIB, Kyushu Univ. ²) |

| P1-101 | Roles of membrane lipids in the formation of tight junction |
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| (WS15-01) | [°] Kenta Shigetomi ¹ , Junichi Ikenouchi ^{2,3} (Graduate school of System Life |
| | Sciences, Kyushu University ¹ , Department of Biology, Faculty of Sci- |
| | ences, Kyushu University ² , AMED-PRIME ³) |

P1-102 Tight junctional cingulin organizes the apical intermediate filaments. ^oYuki 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
 ^oRegina Putri Virgirinia¹, 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.
 ^OJunpei 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 ^oXiaonan 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 ^oSo 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 Dohaku ¹ , Miki Takeuchi ² , Takashi Shimizu ^{1,2} , Masahiko Hibi ^{1,2} (Graduate School of Science, Nagoya university, Nagoya, Japan ¹ , Bioscience and Biotechnology center, Nagoya University, Nagoya, Japan ²) |
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| P1-108 (WS07-05) | Twisting movement of plant leaf: Genetic analysis and 3D observa- tion [°] Yuta Otsuka ¹ , Ken Haga ² , Tatsuya Sakai ³ , Hirokazu Tsukaya ^{1,4} (Grad. |
| | Sch. Sci., Univ. Tokyo ¹ , Dept. Hum. Sci. Com. Edu., NIT ² , Grad. Sch. Sci. Tech., Niigata Univ. ³ , OIIB, NINS ⁴) |
| P1-109 (WS05-06) | 3D Cell behavior in zebrafish somite morphogenesis [°] Yue Tong ¹ , Harunobu Kametani ¹ , Atsuko Shimada ¹ , Masakazu Akiyama ² , Yasuhiro Inoue ³ , Hiroyuki Takeda ¹ (Dept. of Biol. Sci., Univ. of Tokyo ¹ , RIES, Hokkaido Univ. ² , IFLMS, Kyoto Univ. ³) |
| P1-110 | Zebrafish <i>pou5f3</i> , an <i>Oct4</i> -type class-V POU gene, is involved in neurogenesis in the caudal neural tube. ^o 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 |
| | ^O Tsubasa Itoh ¹ , Miki Takeuchi ^{1,2} , Marina Sakagami ¹ , Kazuhide Asakawa ³ , Koichi Kawakami ³ , Takashi Shimizu ^{1,2} , Masahiko Hibi ^{1,2} (Grad. School of Science, Nagoya University ¹ , Bioscience and Biotechnology Center, Nagoya University ² , National Institute of Genetics ³) |
| P1-113 (SWS-07) | Sbno1 is involved in growth of axon and dendrites of the cortical neurons |
| | ^O Iroha Yamamoto ¹ , Fuzuki Inoguchi ¹ , Satoru Yamagishi ² , Kosuke Taki ¹ , Leanne Delaney ³ , Carina Hanashima ⁴ , Hayato Naka-Kaneda ¹ , Yu Katsuyama ¹ (Shiga University of Medical Science ¹ , Hamamatsu University School of Medicine ² , Dalhousie University ³ , Waseda University ⁴) |
| P1-114 | Setting up a new model system to uncover the molecular mecha- nisms regulating totipotency in sponges: definition of precise stages |

| | of gemmule formation, an asexual reproduction system ^o Masumi Okawa, Risa Murakami, Noriko Funayama (Dept. Biophysics, Graduate School of Science, Kyoto Univ.) |
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| 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 Haneda ¹ , Rieko Asai ^{1,2} , Yasunobu Uchijima ¹ , Akashi Taguchi ¹ , Takahide Kohro ³ , Satoshi Ishishita ⁴ , Yoichi Matsuda ⁴ , Youichiro Wada ¹ , Sachiko Miyagawa-Tomita ^{1,5} , Hiroki Kurihara ¹ (Univ. of Tokyo ¹ , Univ. of California ² , 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 <i>narigoma</i> , a regulator of anterior gut left-right asymmetry in <i>Drosophila melanogaster</i> ^o Yi-Ting Lai ¹ , Tomoki Ishibashi ¹ , Mitsutoshi Nakamura ¹ , Katsushi Yama- guchi ² , Shuji Shigenobu ² , Kenji Matsuno ¹ (Department of Biological Sci- ences, Osaka University ¹ , NIBB Core Research Facilities, National Insti- tute for Basic Biology ²) |
| P1-119 | Hippo-mediated morphogenetic robustness during <i>Drosophila</i> 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. ^o Nao Yamaguchi, Kimiko Fukuda (Tokyo Metropolitan University) |
| P1-121 | Development of the horn primordia of <i>Rhinoceros beetle</i> ^o Haruhiko Adachi ¹ , Hiroki Gotoh ² , Keisuke Matsuda ³ , Shigeru Kondo ¹ (Osaka university, FBS ¹ , Nagoya university, Bioagri. Sci ² , Osaka univer- sity, Med ³) |

P1-122 Proximity biotin labeling-based identification of proteins interacting with Drosophila MyosinID, which switches the chirality of cells and organs. ^oRyota Mori, Yusuke Kamei, Satoshi Kuwana, Kenji Matsuno (Department of Biological Sciences, Osaka University) P1-123 Roles of a transcription factor 19A in the osteoblast development of (WS05-11) sternum ^oMao Kuriki¹, Fuminori Sato¹, Kenta Sumiyama², Koichi Kawakami³, Atsuko Sehara-Fujisawa¹ (IFLMS., Univ of Kyoto¹, RIKEN², NIG³) P1-124 Involvement of heparan sulfate in the regulation of Nodal signaling (WS05-04) range in *Xenopus* for the generation of left-right asymmetry ^oTakafumi 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 ^oElzava 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. ^oYuki 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) NFkB controls dorsal-ventral patterning of vertebrate embryos P1-127 through negative regulation of Wnt/β-catenin signaling ^OJuqi 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 hema- topoietic stem cells in zebrafish [°] Junya Tamaoki ¹ , Isao Kobayashi ² , Makoto Kobayashi ¹ (University of Tsukuba ¹ , Kanawaza University ²) |
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| P1-129 | Molecular mechanism for the layer and column-specific targeting by controlling filopodial extension in the Drosophila visual system. ^o 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 ^o Shiori Yamamoto ¹ , Yuji Uchida ¹ , Tomomi Ohtani ¹ , Yoichi Shiraishi ¹ , Nayuta Yakushiji-Kaminatsui ² , Erika Nozaki ¹ , Atsushi Kuroiwa ¹ (Nagoya Univ. ¹ , EPFL ²) |
| 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 <i>tbx6</i> enables the Ripply-dependent posterior shift of the expression domains of <i>tbx6</i> transcription and Tbx6 pro- tein in the zebrafish presomitic mesoderm ^o Hiroyuki Ban ¹ , Daisuke Yokota ¹ , Shiori Otosaka ¹ , Hirofumi Kinoshita ¹ , Yuuri Fujino ¹ , Taijiro Yabe ² , Hiroki Ovara ¹ , Ayaka Izuka ¹ , Kagari Akama ¹ , Daichi Kage ¹ , Kyo Yamasu ¹ , Shinji Takada ² , Akinori Kawamura ¹ (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 Kawamura ¹ , Makoto Ono ¹ , Atsushi Kuroiwa ¹ , Yoshihiro Mori- shita ² , Takayuki Suzuki ¹ (Nagoya University ¹ , Quantitative Biology Cen- ter ²) |

| P1-135 | Excess pyrophosphate in plant tissues triggers developmental defects cell-autonomously ^o Shizuka Gunji ¹ , 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 Tokyo ⁴ , Okazaki Inst. for Integr. Biosci., Natl. Inst. of Nat. Sci. ⁵ , Dept. of Biol., Tokyo Gakugei Univ. ⁶) |
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| P1-136 | Gene knock-out analysis of a segmentation gene <i>even-skipped</i> in the cricket <i>Gryllus bimaculatus</i> ^o Yu-ki Nakamura ¹ , Ko-hei Kawamoto ¹ , Sayuri Tomonari ² , Takahito Wata-nabe ³ , Yoshiyasu Ishimaru ³ , Taro Mito ³ , Sumihare Noji ⁴ (Graduate School of Advanced Technology and Science, Univ. of Tokushima ¹ , Center for Technical Support, Univ. of Tokushima ² , Graduate School of Bioscience and Bioindustry, Univ. of Tokushima ³ , Univ. of Tokushima ⁴) |
| P1-137 (WS08-07) | Roles of lysosomes in embryonic neural stem/progenitor cells ^O 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 ^o Taiki Nakajima ¹ , Mitsuaki Shibata ¹ , Megumi Nishio ² , Sanae Nagata ¹ , Cantas Alev ¹ , Hidetoshi Sakurai ¹ , Junya Toguchida ^{1,3,2} , Makoto Ikeya ¹ (Center for iPS Cell Research and Application, Kyoto University, Japan ¹ , Department of Tissue Regeneration, Institute for Frontier Medical Sci- ences, Kyoto University, Japan ² , Department of Orthopedic Surgery, Graduate School of Medicine, Kyoto University, Japan ³) |

- P1-139 Akhirin, a secreted molecule of von Willebrand factor A superfamily, plays role on neurogenic niches in mouse brain
 ^OMohammad Badrul Anam, Shah Adil Ishtiyaq Ahmad, Naofumi Ito, Kunimasa Ohta (Department of Developmental Neurobiology, Kumamoto University)

| | fumi Uchida ¹ (Tohoku Univ. ¹ , Fukushima Univ. ²) |
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| 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 ^o 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 ^o 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 Matsushima (Dept. Mol. Prev. Med., Univ. of Tokyo) |
| P1-145 | Establishing pluripotent stem cell lines from undifferentiated cells in the newborn <i>Dnd1</i> mutant testis. ^o Yuri An, Yasuhisa Matsui (Cell Resource Center for Biomedical Research, Institute of Development, Aging and Cancer, Tohoku Univer- sity) |
| P1-146 | Functions of the p57 imprinted allele in mouse neocortical develop- ment [°] Yui Imaizumi, Tomoyuki Watanabe, Shohei Furutachi, Daichi Kawagu- chi, 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 Feed- back 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 ^OShah Adil Ishtiyaq 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
 ^oMinh 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. ^oYumi 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.
 ^oShun 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 neo-
cortical neural progenitor cells

 ^oNaohiro Kuwayama, Yusuke Kishi, Yurie Nishiumi, Yukiko Gotoh (Fac-
ulty 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 forma- tion from the epidermis in cultured stem segments of <i>Torenia fourni-</i> <i>eri</i> . ^o Hatsune Morinaka ¹ , Akihito Mamiya ¹ , Akitoshi Iwamoto ² , Hiroaki Tamaki ¹ , Takamasa Suzuki ³ , Yoshikatsu Sato ⁴ , Momoko Ikeuchi ⁵ , Akira Iwase ⁵ , Keiko Sugimoto ⁵ , Tetsuya Higashiyama ⁴ , Munetaka Sugiyama ¹ (Univ. Tokyo ¹ , Tokyo Gakugei Univ. ² , Chubu Univ. ³ , Nagoya Univ. ⁴ , Riken ⁵) |
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| P1-155 (WS17-01) | Warburg-like metabolism coordinates FGF and Wnt signaling in the vertebrate embryo ^o 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. ^o Junji Fukumori ^{1,2} , Tadashi Yamamuro ² , Shotaro Saita ² , Tsuyoshi Kawa- bata ³ , Tamotsu Yoshimori ² (Faculty of Medicine, Osaka University ¹ , Department of Genetics, Graduate School of Medicine, Osaka University ² , Department of Stem Cell Biology, Atomic Bomb Disease Institute, Naga- saki University ³) |
| P1-157 | The analysis of the effect of cell dynamics on Delta-Notch intarac- tion during retinal angiogenesis ^o Toshiki Oguma ¹ , Tomoyasu Shinoda ² , Shuntaro Ogura ³ , Akiyoshi Uemura ³ , Takaki Miyata ² , Philip K. Maini ⁴ , Takashi Miura ¹ (Kyushu Univ. ¹ , Nagoya Univ. ² , Nagoya City Univ. ³ , WCMB, Univ. of Oxford ⁴) |
| P1-158 (WS16-03) | Mathematical analysis of orixate phyllotaxis [°] Takaaki Yonekura ¹ , Akitoshi Iwamoto ² , Hironori Fujita ³ , Munetaka Sugi- yama ¹ (Univ. Tokyo ¹ , Tokyo Gakugei Univ. ² , Natl. Inst. Basic Biol. ³) |
| P1-159 | Pericyte coverage of endothelial cells: in vitro experiments and com- putational modeling [°] Kei Sugihara ¹ , Saori Sasaki ² , Akiyoshi Uemura ³ , Satoru Kidoaki ² , 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 CREST ⁴) |
| P1-160 | A computational methodology for sptatiotemporal reconstruction of gene expression in early development of zebrafish |

| | $^{\rm O}$ Yasuhiro Kojima, Hisanori Kiryu (Graduate School of Frontier Sciences, The University of Tokyo) |
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| P1-161 | Molecular Mechanisms of Phospholipase C $\delta1$ in Colorectal Cancer Cells $^\circ$ 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. ^o Yukinari Haraoka ^{1,2} , Yuki Akieda ¹ , Tohru Ishitani ^{1,2} (Division of Inte- grated Signaling Systems, Department of Molecular Medicine, Institute for Molecular and Cellular Regulation, Gunma University ¹ , Graduate School of Medical Sciences, Faculty of Medical Sciences, Kyushu Uni- versity ²) |
| 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 <i>Drosophila SLC25A46</i> , mitochondrial diseases causing gene. [°] Kojiro Suda, Hideki Yoshida, Masamitsu Yamaguchi (Kyoto Institute of Technology) |
| P1-165 | Temperature preference of cave and surface populations of <i>Astyanax</i> <i>mexicanus</i> ^o Julius Tabin ¹ , Ariel Aspiras ¹ , Brian Martineau ¹ , Misty Riddle ¹ , Alex Haro ² , Johanna Kowalko ⁴ , Richard Borowsky ³ , Nicolas Rohner ⁵ , Cliff Tabin ¹ (Harvard University ¹ , US Geological Survey ² , New York Univer- sity ³ , Iowa State University ⁴ , Stowers Institue ⁵) |
| P1-166 (YSA-02) | Morphological novelty in the vertebrate limb created by the water-to- land transition ^o Ingrid Rosenburg Cordeiro ¹ , Kaori Kabashima ¹ , Haruki Ochi ² , Keijiro Munakata ¹ , Chika Nishimori ¹ , Mara Laslo ³ , James Hanken ³ , Mikiko Tanaka ¹ (Tokyo Institute of Technology ¹ , Yamagata University ² , Harvard University ³) |
| P1-167 | Evolutionary cooperativity between mating position and rotation of |

| | male genitalia in Diptera ^o Momoko Inatomi ¹ , Chisako Sakuma ² , Hirotaka Kanuka ² , Kenji Matsuno ¹ (Osaka Univ. ¹ , The Jikei Univ. Sch. of Med. ²) |
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| 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 Tsu- kuba) |
| P1-169 | Increased number of spiralian TALE homeobox genes in bivalve lin- eage 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 ^o Mustafa M. Sami, Takuya Maeda, Shigeo Hayashi (Laboratory for Mor- phogenetic 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 developmen- tal biology studies ^o Takuma Kumamoto ¹ , Raphaëlle Barry ¹ , Samuel Tozer ¹ , Franck Mauri- not ¹ , Célia Vaslin ² , Mickaël Le ¹ , Stephane Nedelec ² , Karine Loulier ¹ , Jean Livet ¹ (Sorbonne Université, INSERM, CNRS, Institut de la Vision ¹ , Sor- bonne Université, INSERM, Institut du Fer à Moulin ²) |
| P1-172 (WS09-10) | Non-labeled cancer cell analysis in anhydrous condition using CMOS biosensor integrated circuit (IC) with 20/60/120-GHz oscilla- tor arrays ^o Shojiro Kikuchi ¹ , Mika Sawada ¹ , Tetsuhito Suzuki ² , Keiichiro Shiraga ³ , Takeshi Matsui ³ , Takeshi Mitsunaka ⁴ , Masafumi Yamanoue ⁴ , Yuichi Ogawa ² (Institute for Advanced Medical Science, Hyogo College of Med- icine ¹ , Graduate School of Agriculture, Kyoto University ² , RIKEN Center for Integrative Medical Sciences ³ , Sharp Corporation, Electronic Compo- nents and Devices BU ⁴) |
| 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 Matsu- moto, 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

^oKanoko 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 ^oKiyomi Taniguchi, Tomoyuki Sakai, Masataka Shirai (Hitachi, Ltd. Research & Development Group) LINC complex component, SUN1 play a role in the Golgi complex P2-002 (SWS-01) organization without nesprins Taizo Matsumoto¹, Yu Nishioka², Mari Isobe³, Satoshi Kametaka³, Hiroshi Kimura⁴, Nariaki Matsuura², ^OMiki Hieda^{1,2} (Ehime Prefectural Unibersity 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 Molecular basis of kinetochore recruitment of the RZZ complex and (WS10-03)its roles in the establishment of bi-orientation during mitosis in human cells ^oMasanori 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 ^oYusuke 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) Requirement for p53 in intra-nuclear dynamics of the K27-trimethyl-P2-005 ated histone H3 during DNA replication ^oTsukasa Oikawa, Yuki Shino, Suguru Kurosawa, Yasuhito Onodera,

Yutaro Otsuka, Ari Hashimoto, Hisataka Sabe (Dept. Molecular Biology,

| | Grad. Sch. Med. Hokkaido Univ.) |
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| 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 <i>Xenopus laevis</i> is an asymptomatic carrier of aniridia- like <i>pax6</i> mutations ^o Yui Iwata ¹ , Mikio Tanouchi ¹ , Takeshi Igawa ¹ , Kiyo Sakagami ² , Haruki Ochi ³ , Hajime Ogino ¹ (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 depend- ing 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, ^O Tohru Yoshihisa (Graduate School of Life Science, University of Hyogo) |
| P2-010 | Cytoplasmic Deadenylase Ccr4 is Required for Translational Repres- sion of Puf5 mRNA targets in the Stationary Phase in <i>Saccharomyces</i> <i>cerevisiae</i> ^o Long-Duy Duong ¹ , Yasuyuki Suda ^{1,2} , Kenji Irie ¹ (Department of Molecu- lar Cell Biology, Graduate School of Comprehensive Human Sciences and Faculty of Medicine, University of Tsukuba, Tsukuba, Japan ¹ , Live Cell Super-resolution Imaging Research Team, RIKEN Center for Advanced Photonics, Wako, Saitama, Japan ²) |
| P2-011 | Assembly of nuclear envelope-like structures around artificial beads in living cells ^o Shouhei Kobayashi ¹ , Takako Koujin ¹ , Tomoko Kojidani ^{1,2} , Hiroko Osakada ¹ , Chie Mori ¹ , Yasushi Hiraoka ^{1,3} , Tokuko Haraguchi ^{1,3} (Adv. ICT Res. Inst. Kobe, NICT ¹ , Japan Women's University ² , 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 Oda ² (Osaka Medical College ¹ , JT Bio- |

history Research Hall²)

- P2-014 Regulatory mechanisms of serotonin-enhanced hyperactivation in hamster sperm ^OMasakatsu 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

^oYohei 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)

- P2-017 (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, ^OAkira Nakamura^{1,2,3} (Institute of Molecular Embryology and Genetics, Kumamoto University¹, School of Pharmacy, Kumamoto Uni-

| | versity ² , Graduate School of Pharmaceutical Sciences, Kumamoto Univer- sity ³ , Equal contribution ⁴) |
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| P2-018 | Six1 and Six4 regulate the number of germ cell progenitors in mice Yasuka L Yamaguchi ¹ , Kiyoshi Kawakami ² , Ryuichi Nishinakamura ³ , ^o Sato-mi S Tanaka ¹ (Kumamoto Health Science Univ. ¹ , Jichi Med. Univ. ² , Kumamoto Univ. ³) |
| P2-019 (WS11-02) | Blockage of sperm Ca ²⁺ -permeable channels involves the mainte- nance of its quality for fertilization in the newt, <i>Cynops pyrrhogaster</i> . ^O Akihiko Watanabe ¹ , Eriko Takayama-Watanabe ² , Nanae Makino ¹ (Biol. Div., Fac. of Sci., Yamagata Univ. ¹ , Inst. of Arts and Sci., Yamagata Univ. ²) |
| P2-020 | Differences in developmental process causing morphological diver- sity of seminal receptacles among Drosophildae species. [°] Tatsuhiko Noguchi (National Defense Medical College) |
| P2-021 | The chromodomain protein MRG-1 is required for global transcrip- tional repression in the primordial germ cells in <i>C. elegans</i> . ^o Takashi Miwa ¹ , Teruaki Takasaki ² , Kunio Inoue ¹ , Hiroshi Sakamoto ¹ (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 Kawano ¹ , Kunimasa Ohta ² , Giuseppe Lupo ³ (Department of Medical Oncology and Hematology, Oita University Faculty of Medicine, Oita, Japan ¹ , Division of Developmental Neurobiology, Graduate School of Life Sciences, Kumamoto University, Kumamoto, Japan ² , Department of Chemistry, Sapienza University of Rome, Rome, Italy ³) |
| P2-024 | Naringenin inhibited migration and invasion of glioblastoma cells via multiple mechanisms Shih-Ming Chen, Kuan-Yi Wang, [°] Li-Sung Hsu (Institute of Biochemis- try, Microbiology, and Immunology, Chung Shan Midical University) |

| P2-025 (WS02-06) | Snail interacts with FoxO to modulate JNK-dependent cell death in <i>Drosophila</i> [°] Chenxi Wu ^{1,2} (College of Chinese Medicine, North China University of Science and Technology, China ¹ , School of Life Science and Technology, Tongji University, China ²) |
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| P2-026 | Why established cell lines require passage to maintane infinite life span? [°] Tomoyuki Tajima, Yoshifusa Kondo (Ichikawa-Clinic) |
| P2-027 (WS02-03) | PLEKHN1 promotes apoptosis by enhancing Bax/Bak hetero-oligo- merization through the interaction with Bid in human colon cancer [°] Sei Kuriyama (Akita University) |
| P2-028 | GRP78 is involved in endothelin B receptor signaling ^o Yuichi Mazaki ¹ , Tsunehito Higashi ¹ , Takahiro Horinouchi ¹ , Ari Hashi- moto ² , Shigeru Hashimoto ³ , Jin-Min Nam ⁴ , Yasuhito Onodera ² (Dept. Cell. Pharm., Grad. Sch. Med., Hokkaido Univ. ¹ , Dept. Mol. Biol., Grad. Sch. Med., Hokkaido Univ. ² , Dept. Immnol. 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 varia- tion in JNK activity dynamics and determines a cell fate decision ^o Haruko Miura ^{1,2} , Michiyuki Matsuda ^{2,3} , Kazuhiro Aoki ^{1,4} (Div. Quant. Biol., OIIB, NIBB, NINS ¹ , 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., SOKENDAI ⁴) |
| 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 ^o Ritsuko Takada ¹ , Yusuke Mii ¹ , Elena Krayukhina ² , Chan-Gi Pack ³ , Yasu- shi Sako ³ , Susumu Uchiyama ² , Shinji Takada ¹ (NIBB, NINS ¹ , Osaka Univ. ² , RIKEN ³) |
| P2-033 (WS02-07) | Multiplexed live cell imaging reveals a distinct role of ERK and Akt activity in cell cycle progression. |

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| | ^o Gembu Maryu ^{1,3} , Michiyuki Matsuda ^{1,2} , Kazuhiro Aoki ³ (Graduate school of Biostudies, Kyoto University ¹ , Graduate School of Medicine, Kyoto University ² , Division of Quantitative Biology, National Institute of Basic Biology ³) |
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| P2-034 | Development of FRET-based biosensors for measuring tyrosine kinase activity in living cells ^o 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 <i>Drosophila</i> [°] 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 <i>Cerl2</i> mRNA [°] Katsura Minegishi, Hiroshi Hamada (RIKEN) |
| P2-038 | PI3,5P ₂ -dependent localizaiton of Sch9 to vacuolar membranes con- tributes to selective regulation of TORC1-Sch9 signaling upon stress in <i>Saccharomyces cerevisiae</i> 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 ^o Yuanshu Zhou ¹ , Masaki Saito ² , Takafumi Miyamoto ¹ , Takeshi Fukuma ^{1,3} , Yasufumi Takahashi ^{1,3,4} (Division of Electrical Engineering and Computer Science, Kanazawa University ¹ , Department of Molecular Pharmacology, Tohoku University Graduate School of Medicine ² , WPI-NanoLSI, Kanazawa University ³ , JST-PRESTO ⁴) |
| 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) |
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| P2-042 (WS02-09) | Composite regulation of ERK activity dynamics underlying tumor- specific traits in the intestine ^o Masamichi Imajo ¹ , Yu Muta ^{2,3} , Michiyuki Matsuda ^{1,3} (Lab. Bioimag. Cell Signal., Grad. Sch. of Biostud., Kyoto Univ. ¹ , Dept. Gastroenterol. Hepa- tol., 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 ^o Jihyun Hwang ¹ , Linh Thuong Vuong ² , Kwang-Wook Choi ¹ (Korea Advanced Institute of Science and Technology ¹ , 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 Ciao1 in Growth Regulation in Drosophila ^o Jean Jung ¹ , Eunbyul Yeom ² , Kwang-Wook Choi ¹ (Korea Advanced Insti- tute of Science and Technology ¹ , Korea Research Institute of Bioscience and Biotechnology ²) |
| P2-046 | Adaptor function of a calcium-binding protein ALG-2 in doxorubi- cin-induced apoptosis [°] Kanako 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 ^o Kazufumi Nomura ¹ , Chiaki Ishinada ¹ , Keiichiro Hyakutake ¹ , Hiromasa Tanaka ² , Masaru Hori ² , Takuya Suemoto ¹ , Ko Eto ³ (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) |
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| 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 Labo- ratory - Institute of Biology, University of the Philippines Diliman) |
| P2-050 | Nuclear envelope localization of PIG-B is essential for GPI-anchor synthesis in <i>Drosophila</i> ^o Miki Yamamoto-Hino ¹ , Eri Katsumata ¹ , Emiko Suzuki ² , Yusuke Maeda ³ , Taroh Kinoshita ³ , Satoshi Goto ¹ (Dept. of Life Sci., Rikkyo Univ. ¹ , NIG ² , RIMD., Osaka Univ. ³) |
| P2-051 | DENND1A, but not DENND1B or DENND1C, regulates podoca- lyxin trafficking in epithelial cysts [°] Riko Kinoshita, Yuta Homma, Mitsunori Fukuda (Lab. of Membr. Traf- ficking 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 ^o 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 Shaik ² , Shiho Osako ² , Shusuke Ijiri ¹ , Soonthornsit Jeerawat ^{2,3} , ^o Nobuhiro Nakamura ^{1,2} (Fac Life Sci, Kyoto Sangyo Univ ¹ , Div Life Sci, Grad Sch, Kyoto Sangyo Univ ² , Dept Preclin Appl Animal Sci, Fac Vet, |

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Fukui Univ.²)

- P2-056 Essential components of Transamidase complex (TAC) for formation of large assembly ^oTatsuro Sato, Seri Takaki, Miki Yamamoto-Hino, Satoshi Goto (Rikkyo University)
- P2-058 Membrane vesiculation by ANKHD1 protein regulates enlargement of the early endosome.
 ^oManabu 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,
- P2-060 Role of inner mitochondrial membrane proteins in the regulation of endocytosis mediated by Ras-PI3K signaling ^oPrabha 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 ^OAyano 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 lata², ^OKumiko Tsukui¹, Tomoyoshi Nozaki³ (Natl. Inst. Infect. Dis.¹, Jawajarlal Nehru Univ.², Univ. of Tokyo³)

| P2-063 | Intracellular transport pathways of lactoferrin-GFP in intestinal epi- thelial cells Asuka Nagae ¹ , Daita Nadano ¹ , Tsukasa Matsuda ¹ , Hiroyuki Wakabayashi ² , Koji Yamauchi ² , Fumiaki Abe ² , ^O Kenzi Oshima ¹ (Nagoya University, Graduate School of Bioagricultural Sciences ¹ , Morinaga Milk Industry Co., Ltd., Food Ingredients & Technology Institute ²) |
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| P2-064 | The nuclear transport factor importin α4 is involved in normal male fertility and brain development in mouse [°] Yoichi Miyamoto ¹ , Taichi Itou ² , Makiko Morita ² , Masahiro Nagai ² , Mitsuho Sasaki ¹ , Tetsuji Moriyama ³ , Kate L Loveland ⁴ , Yoshihiro Yoneda ¹ , Takatoshi Hikida ² , Masahiro Oka ¹ (Natl Inst. of Biomed. Innov., Health and Nutr. ¹ , Osaka Univ. ² , Univ. of Fukui ³ , 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-fam- ily 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 exocy- tosis in the actin cortex via interaction with RIM-BP2 and myosin- VIIa [°] Kohichi Matsunaga ¹ , Fushun Fan ¹ , Hao Wang ¹ , Ray Ishizaki ¹ , Eri Kobayashi ¹ , Hiroshi Kiyonari ³ , Yoshiko Mukumoto ³ , Katsuhide Okunishi ¹ , Tetsuro Izumi ^{1,2} (Laboratory of Molecular Endocrinology and Metabolism, Department of Molecular Medicine, Institute for Molecular and Cellular Regulation ¹ , Research Program for Signal Transduction, Division of Endocrinology, Metabolism and Signal Research, Gunma University Ini- tiative for Advanced Research ² , Animal Resource Development Unit, and Genetic Engineering Team, RIKEN Center for Life Science Technolo- gies ³) |

| 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.) |
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| 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 ^o Masaaki Koike, Kenji Kohno (Nara Institute of Science and Technology (NAIST)) |
| P2-073 (WS14-09) | Lemur kinase 1 (LMTK1) regulates dendritic spine formation nega- tively through Rab11 GAP Hironori Nishino ¹ , Akiko Asada ¹ , Taro Saito ¹ , Kanae Ando ¹ , Mineko Tomomura ² , Mitsunori Fukuda ³ , ^O Shin-ichi Hisanaga ¹ (Tokyo Metropoli- tan University ¹ , Meikai University ² , Tohoku University ³) |
| 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 Nakanishi ¹ , Qin Wang ¹ , Yang Yan ¹ , Xiao-Dong Gao ¹ , Hiroyuki Tachikawa ² (Jiangnan Univ. ¹ , Univ. of Tokyo ²) |
| P2-076 (WS10-08) | The CLIP–cohibin system promotes nucleophagy after TORC1 inac- tivation 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 ^o Tadato Ban, Naotada Ishihara (Dept. of Protein Biochem., Inst. of Life Science, Kurume Univ.) |
| P2-078 | Phosphorylated SNAP-23 at Ser95 by IkB kinase 2 negatively regu- lates FcR-mediated phagosome maturation in macrophages [°] Chiye Sakurai ¹ , Ikuo Wada ² , Kiyotaka Hatsuzawa ¹ (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) |
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| P2-079 (WS03-07) | Regulation of localization and function of syntaxin 17 by 14-3-3 epsilon Kengo Yoshinaga ¹ , Kohei Arasaki ¹ , Naoshi Dohmae ² , ^O Mitsuo Tagaya ¹ (Tokyo Univ. of Pharm. & Life Sci. ¹ , RIKEN CSRS ²) |
| P2-080 | Molecular mechanisms of <i>Streptococcus pneumoniae</i> -targeted selec- tive autophagy via Golgi-resident Rab41 and Nedd4-1 mediated K63-linked ubiquitination ^o Michinaga Ogawa ¹ , Naoki Takada ¹ , Sayaka Shizukuishi ¹ , Isei Tanida ² , Mitsunori Fukuda ³ , Makoto Ohnishi ¹ (Department of Bacteriology I, National Institute of Infectious Diseases ¹ , Department of Cell Biology and Neuroscience, Graduate School of Medicine, Juntendo University ² , Labo- ratory of Membrane Trafficking Mechanisms, Department of Develop- mental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University ³) |
| P2-081 | Visualisation of protein transport between the endoplasmic reticulum and the Golgi complex [°] Hitoshi Hashimoto, Seisuke Arai, Ikuo Wada (Fukushima Medical Uni- versity) |
| 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. ^o Daisuke Morito ¹ , Munechika Sugihara ² , Shiori Ainuki ² , Yoshinobu Hirano ³ , Kazutoyo Ogino ³ , Akira Kitamura ⁴ , Hiromi Hirata ³ , Kazuhiro Nagata ^{1,2} (Institute for Protein Dynamics, Kyoto Sangyo University ¹ , Fac- ulty of Life Sciences, Kyoto Sangyo University ² , College of Science and Engineering, Aoyama Gakuin University ³ , Faculty of Advanced Life Sci- ence, Hokkaido University ⁴) |
| P2-084 (WS14-08) | Visualization of GPI-anchored proteins sorting in the ER [°] Kazuo Kurokawa ¹ , Atsuko Ikeda ² , Koichi Funato ² , Manuel Muñiz ³ , Aki- hiko Nakano ¹ (Riken RAP ¹ , Hiroshima Univ. ² , Univ. of Seville ³) |

| P2-085 (WS14-05) | Degradation pathway mediated by the two AAA-ATPase Msp1 and Cdc48 for the mistargeted tail-anchored proteins on the mitochon- drial outer membrane ^o Shunsuke Matsumoto ¹ , Kunio Nakatsukasa ² , Yasushi Tamura ³ , Masatoshi Esaki ⁴ , Toshiya Endo ¹ (Kyoto sangyo univ. ¹ , Nagoya city univ. ² , Yamagata univ. ³ , Kumamoto univ. ⁴) |
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| P2-086 (WS10-09) | Analysis of the proteoglycan pathway of the mammalian Golgi stress response that regulates the transcription of glycosylation enzymes for proteoglycans ^o 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, ^O 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 pro- cessing during CARTS biogenesis ^o Yuichi Wakana ¹ , Mutsumi Tateishi ¹ , Rei Okuma ¹ , Chiaki Watanabe ¹ , Masato Taoka ² , Mitsuo Tagaya ¹ (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 selec- tive substrate for autophagy [°] Yoshitaka Kurikawa ¹ , Koji L. Ode ² , Hiroki R. Ueda ^{2,3} , Noboru Mizushima ¹ (Dept. of Mol. Biol., Grad. Sch. of Med, Univ. of Tokyo ¹ , Dept. of Sys. Pharm., Grad. Sch. of Med, Univ. of Tokyo ² , QBiC, RIKEN ³) |
| P2-090 | Src in endosomal membranes promotes secretion of exosomes and tumor progression [°] Chitose Oneyama ^{1,2} , Tomoya Hikita ¹ , Atsushi Kuwahara ¹ (Dept. of Cellular Regulation, Aichi Cancer Ctr. Res. Inst. ¹ , JST, PRESTO ²) |
| P2-091 (WS03-11) | Involvement of actin dynamics in the endocytic process revealed by fast-scanning atomic force microscopy [°] Aiko Yoshida ¹ , Nobuaki Sakai ³ , Yoshitsugu Uekusa ³ , Shige H Yoshimura ² , Yusuke Ohba ¹ (Univ. of Hokkaido ¹ , Kyoto Univ. ² , Olympus Co. ³) |

| P2-092 | Endosomal phosphatdylserine is critical for the YAP signalling path- way in proliferating cells [°] Kojiro Mukai ¹ , Tatsuyuki Matsudaira ¹ , Hiroyuki Arai ^{1,2} , Tomohiko Tagu- chi ^{1,3} (Department of Health Chemistry, Graduate School of Pharmaceuti- cal Sciences, the University of Tokyo ¹ , AMED-CREST ² , AMED-PRIME ³) |
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| P2-093 | Functional characterization of SPG12 in C2C12 myoblast Kazuki Takagaki, Makoto Morinaga, Mari Isobe, ^o Satoshi Kametaka (Nagoya University Graduate School of Medicine) |
| P2-094 | Functional characterization of a novel cilia-related gene, <i>Hoatzin</i> , unveils the presence of distinct, tissue-specific mechanisms for motile ciliogenesis [°] Keishi Narita ¹ , Hiroaki Nagatomo ² , Sen Takeda ¹ (Department of Anatomy and Cell Biology, Faculty of Medicine, University of Yamanashi ¹ , Center for Life Science Research, University of Yamanashi ²) |
| 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 Medi- cine) |
| P2-097 (WS01-03) | Albatross/FBF1 integrates centrosome dynamics ^o Akihito Inoko ¹ , Tomoki Yano ² , Tatsuo Miyamoto ³ , Shinya Matsuura ³ , Tohru Kiyono ⁴ , Naoki Goshima ⁵ , Masaki Inagaki ¹ , Yuko Hayashi ¹ (Divi- sion of Biochemistry, Aichi Cancer Center Research Institute ¹ , Laboratory of Biological Science, Graduate School of Frontier Biosciences and Grad- uate School of Medicine, Osaka University ² , Department of Genetics and Cell Biology, Research Institute for Radiation Biology and Medicine, Hiroshima University ³ , Division of Carcinogenesis and Cancer Preven- tion, National Cancer Center Research Institute ⁴ , Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology ⁵) |
| P2-098 | The role of cytoplasmic proteins on cell polarity formation of asym- metric cell division Tomohiro Nakahara ¹ , ^O Sungrim Seirin-Lee ^{1,2} (Hiroshima University ¹ , JST |

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 P2-099 (WS01-09)
 Mechanism of Catalytic Microtubule Depolymerization via KIF2tubulin Transitional Conformation
 ^oTadayuki 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
 ^oAkihisa 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 postnatal 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
 ^oMd. 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. ^oMasa-aki Nakaya (Yokohama City University, Assistant Professor)
- P2-104A new concept of cytokinesis D in Dictyostelium cells

 ^oYuki 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 Tech ² , Grad. Sch. of Sci., Osaka University ³) |
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| P2-105 | A ring and belt-like pattern formation of actin filament by interacting with myosin <i>in vitro</i> ^o Kentaro Ozawa ¹ , Hirotaka Taomori ¹ , Itsuki Kunita ² , Shigeru Sakurazawa ³ , Hajime Honda ¹ (Dept. Bioeng., Nagaoka Univ. Tech. ¹ , Univ. Ryukyus ² , Future Univ. Hakodate ³) |
| P2-106 | Dynamics of cell membrane during cell division ^o Masahito Tanaka ^{1,3} , Go Itoh ² , Keisuke Okita ¹ , Shigehiko Yumura ¹ (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 Yokomuro ¹ , Syouta Takamori ¹ , Kazuya Soda ¹ , Takashi Ishiguro ² , Hajime Honda ¹ (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 Katoh ¹ , Shuhei Chiba ² , Kazuhisa Nakayama ¹ (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 forma- tion and invasion of lung adenocarcinoma cells ^o Michiru Nishita ¹ , Ikumi Nishikaku ¹ , Eri Yoshida ¹ , Hiroshi Shibuya ² , Kunio Matsumoto ³ , Yasuhiro Minami ¹ (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 Suzuki ¹ , Ryota Mashiko ¹ , Ryusei Ebata ¹ , Hirotaka Ito ¹ , Ryoki |

| | Ishikawa ² , Kenji Kamimura ³ , Hajime Honda ¹ (Nagaoka University of Technology ¹ , Gunma. Pref. Col. of Health. Sci ² , Dep. of Elec. Cont. Eng., Nat. Ins. of Tech., Nagaoka. Col ³) |
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| P2-112 | Does giraffe kinesin move faster than mouse? [°] Taketoshi Kambara ¹ , Yasushi Okada ^{1,2} (RIKEN ¹ , Univ. of Tokyo ²) |
| P2-113 | Physical and functional interaction of formin Fhod3 with sarcomeric proteins in the heart Sho Matsuyama ^{1,2} , Yohko Kage ¹ , Noriko Fujimoto ² , Tomoki Ushijima ² , Hideki Sumimoto ² , ^O Ryu Takeya ¹ (Univ. of Miyazaki ¹ , 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-regulat- ing activity [°] Natsuki Kobayashi, Atsushi Suzuki (Yokohama City University Gradu- ate School of Medical Life Science) |
| P2-116 | Left-right asymmetric nuclear migration in the visceral muscles breaks lateral symmetry of the embryonic gut in <i>Drosophila</i> ^o Dongun Shin ¹ , Yoshitaka Morishita ¹ , Mototsugu Eiraku ² , Takeshi Sasamura ¹ , Mikiko Inaki ¹ , Kenji Matsuno ¹ (Department of Biological Sci- ence, Osaka University ¹ , Institute for Frontier Life and Medical Sciences, Kyoto University ²) |
| P2-117 | Uncovering the physiological function of MTCL2 in mouse cerebel- lar 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 develop- ing scanning ion conductance microscopy and confocal microscopy hybrid system [°] Yasufumi Takahashi ¹ , Hiroki Higashi ¹ , Takafumi Miyamoto ¹ , Yuanshu Zhou ¹ , Yuri Korchev ^{1,2} , Takashi Fukuma ¹ (Kanazawa university ¹ , Imperial college london ²) |

| P2-119 | Re-verification of the physiological function of TBCD [°] Hiroyuki Eguchi, Tomoko Satake, Atsushi Suzuki (Yokohama City University, Graduate School of Medical Science) |
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| P2-120 | Relationship between actin dynamics and an aggregate-formation process in <i>Xenopus</i> oocyte cytoplasmic droplet [°] Naoki Noda, Issei Mabuchi (The University of Tokyo) |
| P2-121 | Nonmuscle myosin II suppresses microtubule growth by supporting actin polymerization [°] Yuta Sato ¹ , Keiju Kamijo ² , 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 <i>C. elegans</i> zygote [°] Kenji Kimura ¹ , Akatsuki Kimura ^{1,2} (Cell Arch. Lab., Natl. Inst. of Genet. ¹ , Dept. of Genet., SOKENDAI ²) |
| P2-123 | AGAP1, an Arf GTPase-activating protein, is a novel binding partner of FilGAP. [°] Koji Tsutsumi ¹ , Yoh Nakamura ¹ , Yusuke Kitagawa ¹ , Yurina Suzuki ¹ , Yoshio Shibagaki ² , Seisuke Hattori ² , Yasutaka Ohta ¹ (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 depo- lymerizes actin filaments in addition to sequestering actin monomers [°] Ikuko Fujiwara ¹ , Mark E. Zweifel ² , Naomi Courtemanche ² , Thomas D. Pollard ³ (Frontier Research Institute for Materials Science, Nagoya Insti- |

| | tute of Technology, Gokiso, Showa-ku, Nagoya, 466-8555, Japan ¹ , Department of Genetics, Cell Biology and Development, University of Minnesota, Minneapolis, MN 55455, USA ² , Department of Molecular Cellular and Developmental Biology, Yale University, PO Box 208103, New Haven, CT 06520-8103 USA ³) |
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| P2-127 | The role of ABCA1 in the regulation of cell migration. ^o Shiho Ito ¹ , Noriyuki Kioka ¹ , 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 acen- trosomal 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-through- put imaging analysis of migrating cells [°] Akihiko Nakajima ¹ , Motohiko Ishida ² , Ayaka Matsumoto ³ , Satoshi Sawai ^{1,2} (Research Center for Complex Systems Biology, the University of Tokyo ¹ , Graduate School of Arts and Sciences, the University of Tokyo ² , Faculty of Science, the University of Tokyo ³) |
| P2-130 (WS06-08) | MTCL2 is a new member of microtubule-crosslinking proteins Masateru Miki, Sonoko Mizuno, Tomoko Satake, ^O Atsushi Suzuki (Yoko- hama City Univ. Graduate school of Medical Life Science) |
| P2-131 | TRIOBP Regulates of the localization of molecules in the inner ear hair cell ^o Shin-ichiro Kitajiri ¹ , Tomoko Kita ² , Raj K Ladher ³ , Shin-ichi Usami ¹ (Shinshu University School of Medicine, Japan ¹ , Kyoto University Gradu- ate School of Medicine, Japan ² , TIFR-National Center for Biological Sci- ences, India ³) |
| P2-132 | MDCK cyst rotation as a model of ductal or acinous cancer cell col- lective 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 Kubo ¹ , Yuqing Hou ² , Deborah Cochran ² , George Witman ² , |

| | Toshiyuki Oda ¹ (University of Yamanashi Medical School ¹ , University of Massachusetts Medical School ²) |
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| P2-134 | Single molecule dynamics of Myosin-ID dictating chiral behaviors of <i>Drosophila</i> cells ^o Sosuke Utsunomiya ¹ , Takeshi Sasamura ¹ , Yukihiro Miyanaga ² , Masahiro Ueda ² , Kenji Matsuno ¹ (Grad. Sch. Sci., Osaka Univ. ¹ , Grad. Sci. Front. Biosci., Osaka Univ. ²) |
| P2-135 | Characterization of a novel ciliary protein, TTC18 ^o Noritoshi Shamoto ¹ , Keishi Narita ¹ , Toshiyuki Oda ² , Sen Takeda ¹ (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 Yoshimura ¹ , Nobuyoshi Koie ¹ , Yuichi Hiratsuka ² , ^O Kohji Ito ¹ (Chiba University ¹ , JAIST ²) |
| P2-137 | ACF7, an actin-microtubule crosslinking protein, stably associates with postsynaptic sites ^o Yutaro Kashiwagi ^{1,2} , Shigeo Okabe ^{1,2} (Grad. Sch. Med., Univ. of Tokyo ¹ , CREST, JST ²) |
| P2-138 | Different compositions of TRIOBP isoforms on the stereocilia root- let: one continuously uniform actin cytoskeleton structure. ^O Tatsuya Katsuno ¹ , Keisuke Ohta ² , Makoto Ikeya ³ , Kazuya Ono ^{4,1} , Juichi Ito ^{1,5} , Shin-ichiro Kitajiri ^{1,6} (Dept. of Otolaryngology - Head and Neck Surgery Kyoto University Hospital ¹ , Div. of Microscopic & Dev. Anat- omy, Dep. of Anatomy, Med. Kurume University ² , Dept. of Life Science Frontiers, CiRA, Kyoto University ³ , Lab. of Mol. Biol., NIDCD/NIH ⁴ , Shiga Med. CTR. Res. Institute ⁵ , Dep. of Hearing Implant Sciences, Med. Shinshu University ⁶) |
| P2-139 | Analysis in regulatory mechanism of microtubule structures during ascidian 1st cell cycle [°] Toshiyuki Goto ¹ , Kazumasa Kanda ² , Haruka Yagi ¹ , Takahito Nishikata ² (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 Neurobiol- ogy, Grad. Sch. Medicine, Univ. of Tokyo) |
| | |

| P2-141 (WS12-07) | Gamma-tubulin ring complex-specific components are required for nuclear positioning in the <i>C. elegans</i> gonad ^o Nami Haruta, Chihiro Uchiyama, Asako Sugimoto (Grad.Sch.Life Sci., Tohoku University) |
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| P2-142 (WS06-02) | Shootin1b is involved in chemosensing and mechanosensing of migrating dendritic cells ^o 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 ^o Asako G Terasaki ¹ , Sayaka Yamamoto ¹ , Nan Yamagata ¹ , Ayako Nakayama ¹ , Satoshi Machida ¹ , Junko Suzuki ¹ , Hiroyuki Nakagawa ² (Chiba Univer- sity ¹ , Fukuoka University ²) |
| P2-144 | Temperature dependent accumulation in <i>Chlamydomonas</i> Masaya Sekiguchi, Satoshi Kurosawa, ^O 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 endothe- lial 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 <i>Drosophila</i> wing [°] Keisuke Ikawa, Kaoru Sugimura (iCeMS, Kyoto univ.) |
| P3-003 | Contribution of mechanosensor channel Piezo1 to the lymphatic vas- cular development [°] Keiko Nonomura ^{1,2} , Viktor Lukacs ² , Stuart M Cahalan ² , Akemi Kanie ¹ , Ardem Patapoutian ² , Toshihiko Fujimori ¹ (National Institute for Basic Biology ¹ , The Scripps Research Institute ²) |
| P3-004 | Mutual activation of Claudin-6 and Src family kinases triggers epi- thelial differentiation via RARγ 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 <i>Drosophila</i> [°] 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 signal- ing-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 $^{\circ}$ 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. ^o Taichi Sugawara ^{1,2} , Mikio Furuse ^{1,2} (Div. Cell Struct., NIPS ¹ , 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 <i>Xenopus</i> [°] 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 Kawaue ¹ , Yugo Fukazawa ² , Takaki Miyata ¹ (Univ. of Nagoya ¹ , Univ. of Fukui ²) |
| P3-013 (WS15-02) | ZO family proteins regulate epithelial polarity independent of Tight Junction strand assembly ^o Tetsuhisa Otani ^{1,2} , Mikio Furuse ^{1,2} (National Institute for Physiological Sciences ¹ , Graduate University for Advanced Studies (SOKENDAI) ²) |
| P3-014 (WS15-04) | A <i>Drosophila</i> Toll-like receptor family protein prevents cell mixing through homophilic adhesion during epithelial morphogenesis ^o 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 <i>Xenopus</i> embryogenesis ^o Noriyuki Kinoshita ¹ , Yutaka Hashimoto ^{1,2} , Cristea M Ileana ² , Naoto Ueno ¹ (Dept. of Dev. Biol., NIBB ¹ , 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 Minato ² , Yoko Hamazaki ^{1,2} (Center for iPS Cell Research and Application (CiRA), Laboratory of Immunobiology, Gradu- ate School of Medicine, Kyoto University ¹ , 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
 ^oKouki 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
 ^oSawako 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 ^OAkihiro 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, ^OTakaki Miyata (Nagoya University Graduate School of Medicine)
- P3-021 The expression pattern of neuronal intermediate filament αinternexin in the chicken developing pineal gland ^oChen 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

^oNaoki 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 ^oRyo 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, Mathematicsbased 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 structue in cardiac looping ^OHisao 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, ^OFu-Chin Liu¹ (National Yang-Ming Univ.¹, Academia Sinica², China Medical University³, University of California San Diego⁴) SOX2-dependent determination of tissue identities in the foregut P3-026 (WS07-04) ^oMachiko 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
(WS07-07)Control of whole body shape by a single constituent of the apical
ECM in Drosophila melanogaster
°Reiko Tajiri, Haruhiko Fujiwara, Tetsuya Kojima (Graduate School of

Frontier Sciences, the University of Tokyo)

- P3-029 Branching pattern and morphogenesis of medusa tentacles in the jellyfish, *Cladonema pacificum* Akiyo Fujiki, Ayaki Nakamoto, ^OGaku 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, ^OHironori 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 –
 ^oYuji Taya, Kaori Sato, Youichi Shirako, Yuuichi Soeno (Department of Pathology, The Nippon Dental University School of Life Dentistry at Tokyo)

- P3-034 Morphological and immunohistochemical analysis of the early formation of the avian sternal keel ^oKengo 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, $^{\odot}\mbox{Shigenori}$ Nonaka (National Institute for Basic Biology) |
|---------------------|---|
| P3-036 (WS07-09) | Keratan sulfate produces "water bags" in embryos [°] Yuuri Yasuoka (Marine Genomics Unit, OIST) |
| P3-037 (WS13-01) | Role of axonal transport of Reelin in layer and neural circuit forma- tion in the cerebellum and the optic tectum Takayuki Nimura ¹ , Takuto Hayashi ¹ , Miki Takeuchi ² , Tsubasa Itoh ¹ , Vin- cenzo Di Donata ³ , Filippo Del Bene ³ , Takashi Shimizu ^{1,2} , ^O Masahiko Hibi ^{1,2} (Graduate School of Science, Nagoya University ¹ , Bioscience and Biotechnology Center, Nagoya University ² , Institut Curie ³) |
| P3-038 | A long noncoding RNA regulates <i>Drosophila</i> axon guidance during embryogenesis ^o Sachi Inagaki ¹ , Ntsuki Nakamura ² , Masanao Sato ³ , Mitsutaka Kadota ⁴ , Sean D Keeley ⁴ , Shigehiro Kuraku ⁴ , Yuji Kageyama ^{1,2} (Biosignal Research Center, Kobe University ¹ , Department of Biology, Graduate School of Science, Kobe University ² , School of Agriculture, Hokkaido University ³ , CLST, RIKEN ⁴) |
| P3-039 | Transcriptome analysis of the cardiac neural crest reveals a <i>MAFB</i> gene regulatory subcircuit [°] Saori Tani-Matsuhana ^{1,2} , Kunio Inoue ² , Marianne E. Bronner ¹ (Division of Biology and Biological Engineering, California Institute of Technology ¹ , Department of Biology, Graduate school of Science, Kobe University ²) |
| P3-040 | The N143T mutation in mouse Fibroblast growth factor 9 leads to wider long bones $^{\circ}$ Masayo Harada, Keiichi Akita (Tokyo Medical and Dental Univ.) |
| P3-041 | Establishment of assessment system for genitalia-specific enhancer during genital tubercle development [°] Shoko Matsushita ¹ , Kentaro Suzuki ¹ , Tetsuya Sato ² , Shinjiro Hino ³ , Daiki Kajioka ¹ , Alvin Acebedo ¹ , Mitsuyoshi Nakao ³ , Mikita Suyama ² , Gen Yamada ¹ (Wakayama Medical University ¹ , Kyushu University ² , Kuma- moto University ³) |
| 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. fluvia-tilis* ^oSota Takagi, Noriko Funayama (Dept. of biophysics, Grad. school of science, Kyoto Univ.)

Elasticity-based boosting of neuroepithelial nucleokinesis via indi-P3-044 rect energy transfer from mother to daughter ^oTomoyasu Shinoda¹, Arata Nagasaka¹, Yasuhiro Inoue², Ryo Higuchi³, Yoshiaki Minami³, Kagayaki Kato⁴, Makoto Suzuki⁵, Takefumi Kondo⁶, Takumi Kawaue¹, 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 ^oYu 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
 ^oTakuma 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 Shioi ¹ , Hideharu Hoshino ² , Takaya Abe ^{1,3} , Hiroshi Kiyonari ^{1,3} , Kazuki Nakao ^{4,1} , Yasuhide Furuta ^{1,3} , Toshihiko Fujimori ^{1,5} , Shinichi Aizawa ² (Genetic Engineering Team, RIKEN CLST ¹ , Laboratory for Vertebrate Body Plan, RIKEN CDB ² , Animal Resource Development Unit, RIKEN CLST ³ , Laboratory of Animal Resources, CDBIM, Univ. of Tokyo ⁴ , Division of Embryology, NIBB ⁵) |
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| P3-048 | A knockout mouse model reveals a critical role of Af10-dependent H3K79 methylation in midfacial development Honami Ogoh ¹ , Kazutsune Yamagata ⁴ , Tomomi Nakao ¹ , Lisa L. Sandell ² , Ayaka Yamamoto ¹ , Aiko Yamashita ¹ , Naomi Tanga ¹ , Mai Suzuki ¹ , Takaya Abe ³ , Issay Kitabayashi ⁴ , Toshio Watanabe ¹ , ^O Daisuke Sakai ⁵ (Nara Wom- en's University, Graduate School of Humanities and Science ¹ , University of Louisville, School of Dentistry ² , RIKEN Center for Life Science Tech- nologies ³ , National Cancer Center Research Institute ⁴ , Doshisha Univer- sity, Graduate School of Brain Science ⁵) |
| P3-049 | miR-9 misexpression causes upregulation of <i>Robo3</i> 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 & Devel- opmental 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 Mii ³ , Yuta Otsuka ¹ , Masanori Taira ¹ (Dept. of Biol. Scis., Grad. Sch. of Sci., Univ. of Tokyo ¹ , Dept. of Life Scis., Grad. Sch. of Arts and Scis., Univ. of Tokyo ² , National Institute for Basic Biology ³) |
| P3-052 | The preplate stream: neurons generated earliest in the pallium migrate ventrally to mechanically bend radial fibers and expand the neocortex. |

| | $^{\rm O}$ Kanako Saito, Takaki Miyata (Univ. of Nagoya, Medicine. Dept. Anatomy and Cell Biology.) |
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| 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 ^o Masanori Takahashi, Kiyoshi Kawakami (Division of Biology Center for Molecular Medicine Jichi Medical University) |
| РЗ-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 ^o Mugiho Shigematsu, Chie Tamura, Yuki Sato (Graduate School of Medi- cal Sciences, Kyushu University, Japan) |
| P3-057 | Difference in the amount of the atypical cadherin Dachsous between migrating cells coordinates the direction of collective cell migration ^o Masaki Arata ^{1,3} , Kaoru Sugimura ² , Toshihiko Fujimori ^{3,4} , Tadashi Uemura ¹ (Graduate School of Biostudies, Kyoto University ¹ , Institute for Integrated Cell-Material Sciences (WPI-iCeMS), Kyoto University ² , Divi- sion of Embryology, National Institute for Basic Biology (NIBB) ³ , Department of Basic Biology, School of Life Science, SOKENDAI ⁴) |
| P3-058 | Possible involvement of <i>ouro</i> genes in disappearance of brachial sac skin during <i>Xenopus</i> metamorphosis [°] Izumi Ishimori, Yumi Izutsu (Graduate School of Science and Technol- ogy, Niigata University) |
| P3-059 | Identification of Wnt5a downstream targets during early develop- ment 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) |
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| 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 <i>Drosophila</i> embryo Saki Kamioka, Kenta Fujimoto, Izumi Tanoue, Yuichi Yoshimura, Lily Shimooka, Yumiko Harada, ^O 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 ^o Gembu Abe ¹ , Kinya G Ota ² , Koji Tamura ¹ (Graduate School of Life Sci- ences, Tohoku University, Japan ¹ , Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan ²) |
| P3-065 | Plant flowering stem cracking: A model case towards understanding stem organogenesis and integrity Mao Ooe ¹ , ^O Mariko Asaoka ¹ , Shizuka Gunji ² , Gorou Horiguchi ^{3,4} , Hiro- kazu Tsukaya ^{5,6} , Ali Ferjani ^{1,2} (Tokyo Gakugei Univ., Dept. of Biol. ¹ , Tokyo Gakugei Univ., United Grad. Sch. Education ² , 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., NIBB ⁶) |
| P3-066 | Analysis of intracellular calcium dynamics and its functional impli- cation at leading edge mesoderm during <i>Xenopus</i> gastrulation [°] Kentaro Hayashi ^{1,2,3} , Takamasa S Yamamoto ¹ , Naoto Ueno ^{1,3} (NIBB ¹ , Univ. of Kyoto ² , Graduate University for Advanced Studies (SOKEN- DAI) ³) |
| P3-067 | Metabolic control of skeletal muscle regeneration ^o 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 ^oWei Zhao, Minoru Takasato (Riken Center for Developmental Biology) P3-069 Coordinated regulation of the dorsal-ventral and anterior-posterior (WS08-10) patterning of Xenopus embryos by the BTB/POZ zinc finger protein Zbtb14 Kimiko Takebayashi-Suzuki, Misa Uchida, ^OAtsushi Suzuki (Amphibian Research Center, Hiroshima University) P3-070 Direct conversion of mouse somatic cells into neural crest cells. ^oTsutomu 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 ventricule expansion with neuronal disease.

^ONaofumi 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.
 ^OAkiko 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 ^oYuichi 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, ^OMasataka 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? ^oTakashi 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 ^oChalothon 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 Spe-
mann Organizer in *Xenopus*
°Yuki Moriyama¹, Edward M. De Robertis^{2,3}, Akimasa Fukui¹ (Chuo Uni-

| | versity ¹ , Howard Hughes Medical Institute ² , University of California, Los Angeles ³) |
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| P3-078 | Redundant functions of Mitf/Tfec family transcription factors regu- late melanocyte development in medaka ^o Hisashi Hashimoto ¹ , Tetsuaki Kimura ² , Motohiro Miyadai ¹ , Yusuke Nagao ³ , Robert N Kelsh ³ , Kiyoshi Naruse ² , Masahiko Hibi ¹ (Biol Biotech Ctr, Nagoya Univ. ¹ , NIBB ² , Univ. of Bath ³) |
| P3-079 (WS11-09) | Tead-Yap activity in inner cell mass promotes naïve pluripotency and its variation triggers cell competition to establish high quality epi- blast ^o 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 dur- ing zebrafish regeneration [°] Atsushi Kawakami, Eri Shibata (Tokyo Inst. Technology) |
| P3-081 (WS11-10) | Making chimera with non-rodent PSCs by overexpressing <i>BCL2</i> [°] Hideki Masaki ¹ , Tomoyuki Yamaguchi ¹ , Hiromitsu Nakauchi ^{1,2} (Institute of Medical Science, University of Tokyo ¹ , Institute for Stem Cell Biology and Regenerative Medicine, Department of Genetics, Stanford University School of Medicine, Stanford ²) |
| P3-082 | Innate immunity signaling pathways promote leg regeneration in the cricket ^o Tetsuya Bando ¹ , Misa Okumura ¹ , Mayuko Hagiwara ¹ , Yoshimasa Hamada ¹ , Taro Mito ² , Sumihare Noji ² , Hideyo Ohuchi ¹ (Department of Cytology and Histology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University ¹ , Division of Bioscience and Bioindustry, Graduate School of Technology, Industrial and Social Sciences, Tokushima University ²) |
| P3-083 | The transplantation of the retinal precursor cells into the adult <i>Drosophila</i> 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 Katsumoto ¹ , Siham Yennek ¹ , Dror Sever ¹ , Ajuna Azad ¹ , Jingdong |

| | Shan ² , Seppo Vainio ² , Anne Botton ¹ (Novo Nordisk Foundation Center for Stem Cell Biology, The Center for Stem Cell Biology (Danstem), Univer- sity of Copenhagen, Denmark ¹ , Department of Medical Biochemistry and Molecular Biology, University of Oulu, Finland ²) |
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| 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 <i>Xenopus</i> tail tissues ^o 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 Bioinfor- matics, 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 <i>Xenopus laevis</i> Saki Umezawa, ^O May Kanagawa, Tsutomu Kinoshita (Rikkyo University) |
| P3-092 | Srf destabilizes cell identity [°] Takashi Ikeda ¹ , Takuya Yamamoto ¹ , Akitsu Hotta ¹ , Yasuhiro Yamada ^{1,2} , Shinji Masui ¹ , Keisuke Okita ¹ (Kyoto Univ. ¹ , The Univ. of Tokyo ²) |
| 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-kB is essential for the differentiation of intestinal M cells
 ^oTakashi 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.
 ^oTomoo Owa¹, Shinichiro Taya¹, Satoshi Miyashita¹, Tomoki Nishioka², Ryo Goitsuka⁴, Takuro Nakamura³, Kozo Kaibuchi², Mikio Hoshino¹ (Dept of Biochemistry andCellularBiology National Institute of Neurosucience 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

^oRitsuko 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 ^OMari 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) |
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| P3-099 | Hypothermic signal is involved in the induction of cell differentiation via the cold-shock protein RBM3 [°] Daiki Hamasuna ¹ , Ryota Nogami ¹ , Ko Eto ² (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 ^o Hideyuki Yaginuma ¹ , Yasushi Okada ^{1,2} (QBiC, RIKEN ¹ , Dept of Phys, Grad Sch Sci, The Univ of Tokyo ²) |
| P3-101 | Lifespan extension and ECM remodeling by dual oxidase-mediated ROS signaling ^o Hiroyuki Sasakura ¹ , Hiroki Moribe ² , Kazuto Ikemoto ³ , Ikue Mori ⁴ , Kosei Takeuchi ¹ (Department of Medical Biology, Aichi Medical University ¹ , Department of Biology, Kurume University School of Medicine ² , Niigata Research Laboratory, Mitsubishi Gas Chemical Company Inc. ³ , Neurosci- ence Institute and Group of Molecular Neurobiology, Graduate School of Science, Nagoya University ⁴) |
| P3-102 | Effects of nutritional signal in the timer system to determine prepupal period in <i>Drosophila melanogaster</i> ^o Hitoshi Ueda, Haruka Nishida, Mayu Nakanishi (Okayama University) |
| P3-103 (WS17-04) | Fluorescence temperature imaging reveals a potential role of mito- chondrial pH changes in initiating brown adipocytes activation ^o Madoka Suzuki ^{1,2} , Yoshie Harada ¹ (Inst. for Protein Res., Osaka Univ. ¹ , PRESTO, JST ²) |
| P3-104 | A Novel Probe for Measuring the Activity of Non-Selecetive 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 ^o Hiroshi Koyama ^{1,2} , Toshihiko Fujimori ^{1,2} (Division of Embryology, National Institute for Basic Biology, Japan ¹ , SOKENDAI (The Graduate University for Advanced Studies), Japan ²) |
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| P3-107 (WS16-04) | Information transmission of insulin signal transduction based on live- cell sensing and information theoretic approach [°] Katsuyuki Kunida ^{1,2} , Shinsuke Uda ³ , Takumi Wada ² , Haruki Inoue ⁴ , Shinya Kuroda ^{2,4} (Laboratory of Computational Biology Graduate School of Biological Sciences, Nara Institute of Science and Technology ¹ , Department of Biological Sciences, Graduate School of Science, Univer- sity of Tokyo ² , Division of Integrated Omics, Research Center for Transo- mics Medicine, Medical Institute of Bioregulation, Kyushu University ³ , Department of Computational Biology and Medical Sciences, Graduate school of Frontier Sciences, University of Tokyo ⁴) |
| P3-108 | Competition for space controlled by apoptosis-induced change of local epithelial topology [°] Alice Tsuboi ¹ , Daiki Umetsu ² , Shizue Ohsawa ³ , Yukari Sando ³ , Erina Kuranaga ² , Tatsushi Igaki ³ , Koichi Fujimoto ¹ (Osaka univ. ¹ , Tohoku univ. ² , Kyoto univ. ³) |
| P3-109 | Elucidating pathogenesis of congenital myopathy caused by defec- tive 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 ^o 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 canincrease longevity via microbiome remodelling in Drosophila [°] Fumiaki Obata ^{1,2} , Clara O. Fons ² , Alex P. Gould ² (The University of Tokyo ¹ , The Francis Crick Institute ²) |
| P3-112 | Reactivation of <i>polr1c</i> restores the ethmoid plate structure in zebraf- |

ish Type 3 Treacher Collins Syndrome model [°]Ka Fai William Tse (Kyushu University)

P3-113 The role of F-actin binding protein COTL1 in mitochondrial fission ^OGijeong 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
^oEun-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
 ^OSeulbi 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

^oMi 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)

- P3-118 Safety Assessment of Lentiviral Gene Delivery in Intravesical Therapy
 Pei-Fung Wu¹, Ching-Wen Liu², Yu-Fen Hung³, Tsan-Jung Yu⁴, ^OLi-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 ^oShunya 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 ^ORyoto 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)

| P3-122 (WS17-09) | Dynamin 2 mutation in Charcot-Marie-Tooth disease disturbs reorga- nization of actin cytoskeleton in glomerular podocyte [°] Kohji Takei ¹ , Natsuki Wakita ¹ , The Mon La ¹ , Kento Sumida ¹ , Moin Sal- eem ² , Tetsuya Takeda ¹ , Hiroshi Yamada ¹ (Okayama University ¹ , Bristol University ²) |
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| P3-123 | CD2AP, a risk factor of late-onset Alzheimer's disease, regulates the endosomal trafficking and degradation of APP [°] Kotaro Furusawa ¹ , Mitsunori Fukuda ² , Shin-ichi Hisanaga ¹ (Department of Biological Sciences, Graduate School of Science, Tokyo Metropolitan University ¹ , Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University ²) |
| P3-124 | Intracellular localization of glycolipid-anchoerd protein sorting receptor in the early secretory pathway of protozoan parasite. [°] Coh-ichi Nihei ¹ , Masayuki Nakanishi ² , Masakatsu Shibasaki ¹ (BIKA- KEN ¹ , Matsuyama Univ. ²) |
| P3-125 | Metabolomics of colorectal cancer using ambient ionization-mass spectrometry [°] Kentaro Yoshimura ¹ , Tomohiko Iwano ¹ , Hisashi Johno ¹ , Takahiro Domoto ² , Toshinari Minamoto ² , Sen Takeda ¹ (University of Yamanashi ¹ , Kanazawa University ²) |
| P3-126 | ILC2s in the stomach are induced by commensal bacteria and protect from pathogenic infection ^o Naoko Satoh ¹ , Yasutaka Motomura ² , Kazuyo Moro ² , James Di Santo ³ , Hitomi Mimuro ⁴ , Hiroshi Ohno ¹ (RIKEN IMS Intestinal Ecosystem ¹ , RIKEN IMS Innate Immune Systems ² , Unit of Innate Immunity, Institut Pasteur ³ , Division of Bacteriology, Department of Infectious Diseases Control, Institute of Medical Science, The University of Tokyo ⁴) |
| P3-127 (WS16-05) | Inhibitory signal on FGF-mediated <i>Msx1</i> induction in the mandibular arch may contribute to the diversification of heterodont dentition among mammals. ^o Yoshio Wakamatsu ¹ , Shiro Egawa ² , Yukari Terashita ³ , Noriko Osumi ¹ , Hiroshi Kawasaki ³ , Koji Tamura ² , Kunihiro Suzuki ⁴ (Tohoku Univ., Grad. Sch. Med. ¹ , Tohoku Univ., Grad. Sch. Life Sci. ² , Kanazawa Univ., Grad. Sch. Med. ³ , Nihon Univ. Sch. Dent. Matsudo ⁴) |
| 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

^oEisuke 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
 ^oTakayuki 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)
- P3-133 The hypomorphic mutations hidden in the allotetraploid genome of *Xenopus laevis* ^OMikio 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)

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

| | genesis in amniotes Norisuke Yokoyama, ^O Masaki Takechi, Sachiko Iseki (Tokyo Medical and Dental University) |
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| P3-136 | Quantitative analysis for cellular dynamics in <i>C. elegans</i> embryogenesis [°] Yusuke Azuma, Shuichi Onami (RIKEN) |
| P3-137 | Probing the local membrane environment of the human insulin receptor ^o Miwa Umebayashi ¹ , Luc Reymond ² , Satoko Takemoto ⁴ , Hideo Yokota ⁴ , Mayya Sundokova ⁵ , Kai Johnsson ³ , Howard Riezman ¹ (University of Geneva ¹ , EPFL ² , Max Planck Institute for Medical Research Heidelberg ³ , RIKEN ⁴ , EMBL Monterotondo ⁵) |
| P3-138 (WS09-08) | Optical control of cell signaling by the genetically-encoded PhyB- PIF system ^o Youichi Uda ^{1,2} , Michiyuki Matsuda ^{1,3} , Kazuhiro Aoki ² (Department of Pathology and Biology of Diseases, Graduate School of Medicine, Kyoto University ¹ , Division of Quantitative Biology, Okazaki Institute for Inte- grative Bioschence, National Institute for Basic Biology, National Insti- tutes of Natural Sciences ² , Laboratory of Bioimaging and Cell Signaling, Graduate School of Biostudies, Kyoto University ³) |
| P3-139 (W809-03) | 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 manipula- tion of authentic RNAs [°] Akira Takai ¹ , Yasushi Okada ^{1,2} (QBiC, RIKEN ¹ , Univ. of Tokyo ²) |
| P3-141 | The generation of transchromosomic mice using intracytoplasmic sperm injection and somatic cell nuclear transfer [°] Yuki Yoshimura ¹ , Yasuhiro Kazuki ^{2,3} , Mitsuo Oshimura ³ , Takeshi Taka-hashi ¹ (Central Institute for Experimental Animals ¹ , Department of Bio- medical Science, Graduate School of Medical Science, Institute of Regen- erative Medicine and Biofunction, Tottori University ² , Chromosome Engineering Research Center, Tottori University ³) |

- **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, ^OShiro 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 ^OKeiichiro 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 weelb* gene, a negative regulator of cell cycle, by CRISPR/Cas9 method ^OMinoru Watanabe^{1,2}, Ryutaro Tanaka², Miyu Yoshida², Satoshi Yoshitome³, Nobuaki Furuno⁴, Nobushige Nakajo⁵ (Inst. Lib. Arts Sci., Tokuhima Univ.¹, Fac. Intgr. 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 ^OMutsuki 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 ^oYoshie 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 ^O Daisuke Ino ¹ , Kazuho Ikeda ¹ , Yasushi Okada ^{1,2} (Laboratory for Cell Polarity Regulation, QBiC, RIKEN ¹ , Department of Physics, Graduate School of Science, The University of Tokyo ²) |
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| P3-149 (WS09-02) | Depletion of autophagy receptor p62/SQSTM1 enhances the effi- ciency of gene delivery in mammalian cells ^o Hidesato Ogawa ¹ , Megumi Tsuchiya ¹ , Takako Koujin ² , Chie Mori ² , Hiroko Osakada ² , Shouhei Kobayashi ² , Yasushi Hiraoka ^{2,1} , Tokuko Hara- guchi ^{1,2} (Osaka Univ. ¹ , NICT ²) |
| 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 effi- ciency of kinesin dimerization [°] Kazunari Mouri ¹ , Yasushi Okada ^{1,2} (RIKEN ¹ , 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 Taka- hashi (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 phosphopro- teomic approach ^o Md Imrul Hasan Chowdhury, Tsuboi Daisuke, Kozo Kaibuchi (Depart- ment of Cell Pharmacology, Graduate school of Medicine, Nagoya Uni- versity) |
| P3-155 | The 4th National BioResource Project of <i>Xenopus tropicalis</i> [°] Takeshi Igawa ¹ , Akihiko Kashiwagi ¹ , Keiko Kashiwagi ¹ , Ichiro Tazawa ¹ , |

Nobuaki Furuno¹, Haruki Ochi², Takashi Kato³, Tsukasa Mori⁴, Hajime Ogino¹ (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)