Scientific Programs
Plenary Lectures

May 20 (Fri) 9:00-11:30 Theater Hall
Chairperson: Tetsuya Tabata (Univ. of Tokyo)

PL-01 09:00-10:15 Hedgehog Signaling in Development and Disease
○Matthew Scott (Stanford University School of Medicine)

Chairperson: Shinichi Nakagawa (RIKEN ASI)

PL-02 10:15-11:30 The development of the Xenopus and the zebrafish retinas
○William Harris (Cambridge University)

Symposia

Symposium 1: Neural development: from circuits to behavior

May 19 (Thu) 9:00-11:30 Theater Hall
Organizer: Akinao Nose (Univ. of Tokyo)

In spite of the great advance in our understanding of the development of the nervous system, surprisingly little is known about how the neural circuits develop and function to generate specific animal behaviors. In this symposium, different approaches and systems to try to tackle this problem will be presented.

Co-organized by: Grants-in-Aid for Scientific Research on Innovative Areas
“Mesoscopic neurocircuitry: towards understanding of the functional and structural basis of brain information processing.”

S01-01 09:00-09:30 Optogenetic dissection of the neural circuits that regulate larval locomotion in Drosophila
○Akinao Nose, Hiroshi Kohsaka, Yoshiaki Nakagawa, Kengo Inada (Dept. of Complexity Science and Engineering, Grad. Sch. of Frontier Sciences, Univ. of Tokyo, Dept. of Physics, Grad. Sch. of Science, Univ. of Tokyo)

S01-02 09:30-10:00 Analysis of microcircuitry of the Drosophila larval brain by serial section electron microscopy
○Volker Hartenstein (Dept. MCDB at UCLA)

S01-03 10:00-10:30 Molecular control and physiological implications of adult neurogenesis – insights from the zebrafish model
○Laure Bally-Cuif (ZEN, N&D, INAF)

S01-04 10:30-11:00 Microperiodic Organization in Neocortical Layer V
○Hisato Maruoka, Kazumasa Kubota, Rumi Kurokawa, Shun Tsuruno, Toshihiko Hosoya (RIKEN BSI)

S01-05 11:00-11:30 Sex, genes, and videotape: Representation of gender in the brain
○Nirao Shah (Dept. of Anatomy, University of California, San Francisco)
Symposium 2: Morphogenesis based on cell polarization

May 19 (Thu) 9:00-11:30 Room A-1
Organizer: Takaki Miyata (Nagoya Univ.)

All morphogenesis events involve differential gene expression between different tissue regions, and we sometimes take that each region is homogeneously filled with individually monotonous cells like “circles” or “bricks”. However, each cell works very hard, under the influence of microenvironments, to generate, change, or maintain its polarity, and the summing or intermingling of cell polarization efforts may support or even drive the overall morphogenesis. This symposium hopes to be a forum for mutual stimulation between researchers interested in this viewpoint.

S02-01 09:00-09:20  Cell behaviors regulated by guidance cues in collective migration of border cells
○ Adam Cliffe1, Minna Poukkula2, Rishita Changede1, Pernilla Rorth1 (IMCB1, Institute of Biotechnology, University of Helsinki2)

S02-02 09:20-09:45  Self-organization of the PtdIns lipids signaling system for spontaneous motility in Dictyostelium cells
イノシトールリン脂質シグナル伝達系の自己組織化による細胞の自発的な運動機能の生成
○ Masahiro Ueda (Osaka Univ. and JST, CREST)

S02-03 (P-1092) 09:45-10:10  Cellular aspects of heart formation and LR asymmetric morphogenesis
○ Hinako Kidokoro1, Koji Tamura2, Masataka Okabe3, Gary C. Schoenwolf1, Yukio Saijoh1 (Dept. of Neurobiology & Anatomy, University of Utah1, Dept. of Developmental Biology & Neurosciences, Tohoku University2, Dept. of Anatomy, The Jikei University School of Medicine3)

S02-04 10:10-10:40  Pathfinding by the neural crest: polarized migration by specified precursors
○ Carol Erickson (UC Davis)

S02-05 10:40-11:00  Mechanisms regulating spatial distribution of Purkinje cell dendrites
プルキンエ細胞樹状突起空間パターンの決定機構の解析
○ Kazuto Fujishima1, Ryota Horie2, Kansai Fukumitsu1, Atsushi Mochizuki2, Mineko Kengaku (iCeMS, Kyoto Univ.1, ASI, RIKEN2)

S02-06 11:00-11:30  Polarity is destiny
○ Henrik Semb (Lund Stem Cell Center)
Symposium 3: Cutting-edge approaches to quantitative understanding of developmental biology

May 19 (Thu) 9:00-11:30 Room B-1
Organizers: Kazuki Horikawa (NIG)
Tatsuo Shibata (Riken CDB)

One of the major goals of developmental biology is to unveil unique properties of genetic programs designed through evolution. Since this hidden property is not easily accessible by classical approaches, interdisciplinary studies involving the quantitative imaging, data-driven modeling and model-guided experimental validation are highly effective. In this symposium, leading scientists with cutting-edge technology, philosophy and both will give talks on such approaches. We welcome every audience being interested in the latest technology for bio-imaging, reconstruction of the cellular network, data-driven modeling and model-guided experimental design, with hoping to share the breakthrough toward the next stage of developmental biology.

Co-organized by: “Logic of Biological Pattern Formation”, Grant-in-Aid for Scientific Research on Innovative Areas, MEXT, Japan

S03-01 09:10-09:35 Autoluminescent imaging tools for combining use with optogenetic technology
光遺伝学的技術との併用を可能にする自動発光型イメージングツール
○Takeharu Nagai (RIES, Hokudai)

S03-02 09:35-10:00 Live imaging of the whole mouse embryo during gastrulation
○Shigenori Nonaka (NIBB)

S03-03 10:00-10:25 On-Chip Cellomics Technology for Constructive Understanding of Deterministic Mechanism in Higher Complexity of Living Systems
高次階層の生命システムでの決定論的機構の構成的理解のためのオンチップセロミクス技術
○Kenji Yasuda1,2, Tomoyuki Kaneko1, Fumimasa Nomura1, Hyonchol Kim2, Hideyuki Terazono2, Masahito Hayashi2 (IBB, TMDU1, KAST2)

S03-04 10:25-10:55 Polarization of the C. elegans zygote by flow-based triggering of a pattern forming system
○Nathan Goehring (MPI-CBG)

S03-05 10:55-11:20 Molecular bases of Zebrafish skin pattern formation
ゼブラフィッシュの体表模様形成機構の分子基盤
○Masakatsu Watanabe, Shigeru Kondo (Graduate School of Frontier Biosciences)
Symposium 4: Development of extended phenotypes

May 21 (Sat) 9:00-11:30 Theater Hall
Organizers: Takema Fukatsu (AIST)
Spensor Nyholm (Univ. of Connecticut)

Developmental processes are not necessarily autonomous, but often drastically affected by external factors, which may be not only abiotic (= environmental) but also biotic (= organismal). The most striking cases of the latter are represented by morphogenesis, sex differentiation, regeneration, etc. induced by interactions with other organisms, which are so-called “extended phenotypes” sensu Dawkins (1982). Here we present such impressive developmental phenomena as symbiont-induced organogenesis in a squid, symbiont-induced sex reversal in a butterfly, gall formation as insect-induced plant morphogenesis, and sealing and healing of plant wound induced by a social aphid, intending to provide a primer to discuss the interface between developmental biology and symbiosis.

S04-01 09:10-09:50 Shedding light on establishing and maintaining specificity in a squid/vibrio symbiosis
○Spencer Nyholm (Department of Molecular and Cell Biology, University of Connecticut)

S04-02 09:50-10:20 Morphological and physiological manipulation of host plants by gall-inducing insects
ゴール形成昆虫による寄主植物の形態的および生理的改変
○Makoto Tokuda (Kyushu Univ.)

S04-03 10:20-10:50 Gall repair and regeneration by soldier aphids
兵隊アブラムシによるゴールの修復・再生現象
○Mayako Kutsukake (AIST)

S04-04 10:50-11:20 Endosymbiont-mediated sex determination
○Daisuke Kageyama (NIAS)

Symposium 5: Active participation of cell death in development

May 21 (Sat) 9:00-11:30 Room A-1
Organizer: Masayuki Miura (Univ. of Tokyo)

S05-01 09:00-09:30 Physiological significance of apoptosis in early brain development
脳初期発生過程におけるアポトーシスの生理的意義
○Yoshifumi Yamaguchi1,2, Keiko Nonomura1, Naomi Shinotsuka1, Kiwamu Takemoto3,4, Masayuki Miura1,2 (Dept. Genet. Pharma. Univ. of Tokyo1, CREST2, Yokohama City Univ.3, PRESTO4)

S05-02 09:30-10:00 Integrins function as engulfment receptor in the removal of apoptotic cells in C. elegans
○Yi-Chun Wu (NTU)

S05-03 10:00-10:30 Apoptosis and autoimmunity
アポトーシスと自然免疫

S05-04 10:30-11:00 Non-Autonomous and Context-Dependent Control of Apoptosis by Deregulated Hedgehog Signaling
○Andreas Bergmann, Tian Ding, Yun Fan, Audrey E. Christiansen (The University of Texas M. D. Anderson Cancer Center, Department of Biochemistry and Molecular Biology)
**Symposium 6: Genetic control of morphogenesis**

May 21 (Sat) 9:00-11:30 Room B-1
Organizers: Shigeo Hayashi (Riken CDB)
Bon-chu Chung (IMB, Academia Sinica)

Morphogenesis is a complex process involving a multiple layers of control by transcriptional, post-transcriptional and epigenetic regulations. In this symposium, we have invited scientists working on a variety of systems to discuss recent advance in the field.

**S06-01 09:00-09:30** The Fused/Smurf complex controls the fate of Drosophila germline stem cells by generating a gradient BMP response
Laixin Xia¹, Shunji Jia¹, Shoujun Huang¹, Qinmiao Sun¹, Anming Meng², "Dahua Chen¹ (IOZ, CAS¹, College of Life Sciences, Tsinghua University;²)

**S06-02 09:30-10:00** Sox10 mutation affects enteric neural crest cell migration
¹'Mai Har Sham¹, Mei Zhang¹, Carly Leung¹, Kit Hang Chu¹, Chun Ning Chang¹, Vincent Lui¹, Paul Tam² (Department of Biochemistry, LKS Faculty of Medicine, The University of Hong Kong;²)

**S06-03 10:00-10:30** Development boundaries among mouse optic neuroepithelium
Youjoung Kim¹, Nam-Suk Kim¹, Eun Jung Lee¹, Greg Lemke², Kyung Hwa Kang¹, "Jin Woo Kim¹ (KAIST¹, Salk Institute²)

**S06-04 10:30-11:00** A small peptide gene *polished rice* is essential for trichome formation and metamorphosis in *Drosophila*
"Yuji Kageyama (Okazaki Inst. Integrative Biosci.)

**S06-05 11:00-11:30** Role of chromatin organizer SATB1 in the Wnt signaling pathway
Praveena Ramanujam², Rakesh Mishra¹, "Sanjeev Galande¹² (IISER¹, NCCS², CCMB²)
Symposium 7: Systems approaches for developmental biology

May 21 (Sat) 13:30-16:00 Room A-1
Organizer: Hiroshi Asahara (National Center for Child Health and Development)
Masanao Sato (NIBB)

Now is an exciting time when new strategies and paradigms, including systems biology, combining multiple post genomic approaches and high throughput assays, are available to researchers in Developmental biology field. In this symposium, we’ve prepared reviews and introductions of these developing HOT topics in systems developmental biology. This should provide us a chance to update our knowledge of new waves in science and medicine, and to apply them to our own specific research fields.

S07-01 13:30-14:00 System dynamics during development of Drosophila primordial germ cells revealed by a time-resolved transcriptome analysis
時系列mRNA発現プロファイリングによって明らかになったショウジョウバエ始原生殖細胞発生過程におけるシステム動態
Masanao Sato1,2, Shuji Shigenobu1, Satoru Kobayashi1,2 (NIBB1, OIIB2)

S07-02 14:00-14:30 A genome-wide approach for understanding developmental mechanisms of the early ascidian embryo
ゲノムワイドなアプローチによるホヤ初期胚の発生プログラムの研究
Yutaka Satou (Dept. of Zool., Grad. Sch. of Sci., Kyoto Univ.)

S07-03 14:30-15:00 Understanding and reconstituting mammalian germ cell specification
生殖系列決定機構の理解と再構成
Mitinori Saitou1,2 (Kyoto Univ.1, CREST2)

S07-04 15:00-15:30 Linking transcription factor occupancy and chromatin state to gene expression during embryonic development
Eileen E. Furlong (EMBL)

S07-05 15:30-16:00 A Systems Approach Reveals that the Locomotive Systems Development and Homeostasis Network
システムアプローチによる運動器の発生と維持機構の解明
Hiroshi Asahara1,2,3,4 (NRICHD1, TMD2, CREST3, TSRI4)

Symposium 8: On the critical issues in EvoDevo

May 21 (Sat) 13:30-16:00 Room B-1
Organizers: Hiroshi Wada (Univ. of Tsukuba )
Daisuke Kurokawa (Univ. of Tokyo)

Recent progress of EvoDevo gave us the nice framework of the idea how evolutionary changes in developmental system lead the diversification of morphology. On the other hand, we also encountered unexpected findings, and some new issues arose in the field. In this symposium, by discussing the following issues, we try to figure out the problems remained to be elucidated. 1) How can we reconcile the unexpected complexity in the genome or gene set of basal metazoa such as sponges or cnidarians with their simple bodyplan? 2) How can we understand the evolution of cis-regulatory elements? Do they behave as real existence? 3) How can we reconcile the variation of early development of vertebrates with the presence of highly similar phylotypic stage?

S08-01 13:30-14:00 The zootypic genome and the origin of the pan-metazoan developmental toolkit
Bernard Degnan (Centre for Marine Science, School of Biological Sciences, The University of Queensland)
S08-02 14:00-14:25 Body plan of soft-bodied microfossils from the beginning of the Cambrian diversification in China
中国カンブリア紀の動物多様化初期に認められる軟部微化石のボディプラン
*Kinya Yasui¹, Xiaoyong Yao², Jian Han² (MBL, Hiroshima Univ.¹, Early Life Inst. & Dept. Geol., Northwest Univ.²)

S08-03 14:25-14:40 The molecular entity of positional information revealed by ChIP-sequence analysis for Lim1 and Otx2 in the head organizer and its application for evolutionary analysis
頭部オーガナイザーにおけるLim1とOtx2のChIP-sequence解析から明らかになった位置情報の分子実体とその進化解析への応用
*Yuuri Yasuoka¹, Norihiro Sudou¹, Yutaka Suzuki¹, Shuji Takahashi¹, Yoshikazu Haramoto¹, Yukiko Tando¹, Kaoru Kubokawa¹, Makoto Asashima¹, Sumio Sugano², Masanori Taira¹ (Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo¹, Dept. of Med. Gen. Sci., Grad. Sch. of Fro. Sci., Univ. of Tokyo², CSLS, KOMEX, Univ. of Tokyo¹, CAMR, ORI, Univ of Tokyo¹, MMBS, Grad. Sch. of Sci., Univ. of Tokyo², Dept. of Life Sci., Grad. Sch. of Arts and Sci., Univ. of Tokyo³)

S08-04 14:40-14:55 The early embryogenesis of Polypterus (bichirs): insights into the origin and evolution of developmental mechanisms in vertebrates
原始的条鰭類ポリプテルスの初期発生：脊椎動物における発生システムの進化を考察する
*Masaki Takeuchi, Maiko Takahashi, Shinichi Aizawa (CDB)

S08-05 14:55-15:10 The developmental hourglass model and early divergence of vertebrate embryos
発生砂時計モデルと脊椎動物初期胚の多様性
*Naoki Irie, Shigeru Kuratani (RIKEN CDB)

S08-06 15:10-15:35 Towards understanding the role of cis-regulatory regions in evolution
進化上でシス制御領域の果たす役割の理解を目指して
*Kenta Nakai (IMSUT)

S08-07 15:35-16:00 Evolution of genomic imprinting in mammals
*Fumitoshi Ishino¹, Tomoko Kaneko-Ishino¹ (Department of Epigenetics, Medical Research Institute, Tokyo Medical and Dental University¹, Tokai University, School of Health Sciences²)
<table>
<thead>
<tr>
<th><strong>OP01-01</strong> (P-2063)</th>
<th>13:30-13:45</th>
<th>The sex pheromone perception ability in Caenorhabditis nematode is altered by the sexual identity of CEM neurons ○ King Chow, Lan Fu, Gus Chan, Tim Fan, Rachel Li (Div. Life Science, HKUST)</th>
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<td><strong>OP01-02</strong> (P-2105)</td>
<td>13:45-14:00</td>
<td>Projectome mapping of neural circuits in the <em>Drosophila</em> brain based on the neuroblast lineages ショウジョウバエの脳神経回路の幹細胞系譜に基づいた網羅的同定 ○ Masayoshi Ito, Keita Endo, Kei Ito (IMCB, University of Tokyo)</td>
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<td><strong>OP01-03</strong> (P-1064)</td>
<td>14:00-14:15</td>
<td>Olfactory Receptor Neuron Identity is Diversified by the <em>Drosophila</em> EvI/Prdm16 Homologue Hamlet that Mediates Chromatin Modification at Notch-Target Loci ショウジョウバエ Prdm 蛋白 Hamlet による Notch 標的のクロマチン修飾と嗅覚神経細胞クラス分化 ○ Keita Endo, MD Rezaul Karim, Alena Krejci, Emi Kinameri, Hiroaki Taniguchi, Matthias Siebert, Kei Ito, Sarah Bray, Adrian Moore (IMCB, Univ. of Tokyo, RIKEN BSI, Dept. of PDN, Univ. of Cambridge)</td>
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<td><strong>OP01-04</strong> (P-2078)</td>
<td>14:15-14:30</td>
<td>Evolutionarily conserved protein Dogi is required for neurite branching and targeting by interacting with microtubule motor regulator Glued in <em>Drosophila</em> olfactory projection neurons 微少管モーター蛋白質制御因子 Glued と結合する新規分子 Dogi は神経突起の枝分かれおよびターゲティングに必要である ○ Chisako Sakuma, Liqun Luo, Masayuki Miura, Takahiro Chihara (Dept Genetics, Grad Sch Pharm Scis, Univ. Tokyo, PRESTO, JST, Japan, CREST, JST, Japan, HHMI, Dept. Biology, Stanford Univ. USA)</td>
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<td><strong>OP01-05</strong> (P-2065)</td>
<td>14:30-14:45</td>
<td>Formation of glycinergic synapse in zebrafish development ゼブラフィッシュにおけるグリシン作動性シナプスの形成 ○ Hiromi Hirata (NIG)</td>
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<td><strong>OP01-06</strong> (P-1062)</td>
<td>14:45-15:00</td>
<td>Genetic dissection of the hindbrain by the Gal4-UAS system in zebrafish ゼブラフィッシュ Gal4 トラップ法による後脳の遺伝学的解剖 ○ Kazuhide Asakawa, Gembu Abe, Koichi Kawakami (NIG, SOKENDAI)</td>
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Semaphorin 3A causes the conversion of axons of developing spinal commissural interneurons to dendrites by the induction of functional Cav2.3 channels

Makoto Nishiyama¹, Kazunobu Togashi¹, Melanie von Schimmelmann¹, Shin-ichi Maeda², Yoshio Goshima³, Shin Ishii², Kyonsoo Hong¹ (Department of Biochemistry, NYU School of Medicine¹, Department of Systems Science, Graduate School of Informatics, Kyoto University², Department of Molecular Pharmacology and Neurobiology, Yokohama City University School of Medicine³)

Cortical representations of olfactory input by trans-synaptic tracing

Kazunari Miyamichi, Liqun Luo (HHMI/Stanford)

The adherens junction serve as a switch for neurogenesis by facilitating Notch-Delta interaction in the vertebrate CNS

Jun Hatakeyama, Kenji Shimamura (Div. of Brain Morphogenesis, IMEG, Kumamoto Univ.)

OP02: Cell biology/Morphogenesis

May 19 (Wed) 13:30-16:00 Room B-1
Chairpersons: Erina Kuranaga (RIKEN CDB) Yoshio Wakamatsu (Tohoku Univ.)

Prickle and β-TrCP regulate cell adhesion by controlling paraxial protocadherin activity through ubiquitination in Xenopus development

Masatake Kai, Noriyuki Kinoshita (NIBB)

Multiple Wnts orient epithelial stem cells in C. elegans

Yuko Yamamoto¹,², Hisako Takeshita¹, Hitoshi Sawa³ (RIKEN CDB Lab, for Cell Fate Decision¹, Dep. of Biol., Grad. Sci., Kobe Univ.², NIG³)

The C.elegans spectraplakin VAB-10 regulates nuclear migration by linking actin and microtubule cytoskeletons in the gonadal distal tip cells

Hon-Song Kim¹, Ryoko Murakami¹,², Katsuyuki Tama¹, Kiyotaka Ohkura², Sophie Quintin¹, Michel Labouesse¹, Hiroshi Sakamoto¹, Kiyoji Nishiwaki² (Dep. of Biosci., Kwansei-Gakuin Univ.¹, RIKEN, CDB², Sci. and Tech. Kobe Univ.², Dep. of Cell and Dev. Bio., IGBMC, CNRS/INSERM/Univ.¹, Dep. of Cell and Dev. Bio., IGBMC, CNRS/INSERM/Univ.¹)

Cell polarity establishes positional difference in Hippo signaling by altering Angiomotin subcellular distribution in preimplantation mouse embryos

Yoshikazu Hirate¹, Shino Hirahara¹, Atsushi Suzuki², Vernadeth Alarcon³, Yohei Yoshihama¹, Kazunori Akimoto², Takaaki Hira³, Takeshi Har², Hitoshi Niwa¹, Fumio Matsuzaki², Kazuhiro Chida³, Shigeo Ohno³, Yusuke Marikawa¹, Shinichi Aizawa¹, Akihiko Shimono³, Hiroshi Sasaki² (RIKEN CDB¹, Yokohama City Univ.², Univ of Hawaii³, Univ. of Tokyo³, CSI Singapore³, IMEG Kumamoto Univ³)
OP02-05 14:30-14:45 The role of novel DNA damage repair gene, Tcof1, in craniofacial development
新規 DNA 損傷修復遺伝子 Tcof1の顎顔面発生における役割
Daisuke Sakai¹,², Paul Trainor² (NAIST¹, SIMR²)

OP02-06 14:45-15:00 PCP signals regulate neural tube closure through polarized activation of actomyosin cables associated with the adherens junctions
平面内極性シグナルはアドヘレンスジャンクション-アクトミオシンの極性収縮を介して神経管形成を制御する
Tamako Nishimura, Masatoshi Takeichi (RIKEN CDB)

OP02-07 15:00-15:15 Planar cell chirality contributes to left-right asymmetric epithelial morphogenesis in Drosophila
細胞のキラリティによるショウジョウバエ上皮組織の左右非対称性な形態形成
Reo Maeda¹, Kiichiro Taniguchi¹,², Tadashi Ando¹, Naotaka Nakazawa¹, Ryo Hatori¹, Mitsutoshi Nakamura¹, Takashi Okumura¹, Kenji Matsumo¹,² (Dept.of Biol.Sci./Tec., Tokyo Univ. of Sci.¹, Res.Ins.Sci./Tec., Tokyo Univ. of Sci.², equally contribution³)

OP02-08 15:15-15:30 Mitotic cell rounding accelerates invagination of the Drosophila tracheal placode
分裂期進行に伴う細胞球形化がショウジョウバエ気管原基の陥入を促進する
Takefumi Kondo, Shigeo Hayashi (RIKEN CDB)

OP02-09 15:30-15:45 In vitro analysis revealed that direct cell interactions autonomously generate various surface patterns in zebrafish
ゼブラフィッシュ色素細胞培養系を用いた、表面パターン形成機構における細胞間相互作用の解析
Hiroaki Yamanaka, Yuji Amihama, Shigeru Kondo (FBS, Osaka Univ.)

OP02-10 15:45-16:00 The mechanisms of boundary formation between the stomach and intestine endoderm in chicken embryo
胃/小腸境界形成の分子機構

OP03: Reproduction and gametogenesis/Stem cells and regeneration/Signaling in development
May 20 (Thu) 13:30-16:00 Room A-1
Chairpersons: Motoyuki Ito (Nagoya Univ.) Akira Nakamura (RIKEN CDB)

OP03-01 13:30-13:45 Secreted Frizzled-related proteins (sFRPs) regulate extracellular distribution of Wnt ligands via interactions with heparan sulfate
分泌性 Frizzled 関連蛋白質（sFRPs）はヘパラン硫酸を介して細胞外の Wnt リガンドの分布を制御する
Yusuke Mii¹, Kenichi Nakazato¹, Atsushi Mochizuki², Masanori Taira¹ (Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo¹, Theor. Biol. Lab., RIKEN AS²)
OP03-02 (P-2132) 13:45-14:00 Lefl phosphorylation by NLK is essential for Wnt/β-catenin signaling in neural progenitor cells

NLKによるLeflのリン酸化は、神経前駆細胞におけるWnt/βカテニンシグナルに必須である


OP03-03 (P-1160) 14:00-14:15 Tsukushi is involved in the neuronal stem/progenitor cells proliferation as a Wnt signaling inhibitor

TsukushiはWntシグナル阻害因子として神経幹/前駆細胞の増殖を制御する

Kunimasa Ohta, Ayako Ito, Hideaki Tanaka (Dept. of Dev. Neurobiol., Kumamoto Univ. Grad. Sch. of Life Scis.; Global COE, Kumamoto University)

OP03-04 (P-2163) 14:15-14:30 Essential roles of Smad4 in directional progression from neural stem cells to committed neural progenitors in the postnatal mouse brain

Motoko Niida, Mathew Chempanal, Yasuhide Furuta (UT MDACC)

OP03-05 (P-2038) 14:30-14:45 Regulation of Zebrafish Embryonic Cell Migration and Patterning by Steroids

Bon-chu Chung (IMB, Acad Sinica)

OP03-06 (P-2151) 14:45-15:00 Conserved distal signaling pathways regulating appendage outgrowth

Liang Ma, Congxing Lin, Yan Yin (Wash U)

OP03-07 (P-2102) 15:00-15:15 Roles of Epiprofin in hair follicle development

Takashi Nakamura, Yasuo Yoshitomi, Makiko Arakaki, Yoshihiko Yamada, Satoshi Fukumoto (Tohoku Univ Grad Sch of Dent, LCDB, NIDCR, NIH)

OP03-08 (P-1168) 15:15-15:30 Development of an in vitro chimera-assay to clarify chimera-forming ability for human induced pluripotent stem cells

Hideki Masaki, Yukiko Wakiyama, Tomoyuki Yamaguchi, Hiromitsu Nakauchi (Nakauchi Stem Cell and Organ Regeneration Project, JST)

OP03-09 (P-2019) 15:30-15:45 Germ cell formation in cephalochordate amphioxus

Hui-Ru Wu, Yen-Ta Chen, Yi-Hsien Su, Yi-Jyun Luo, Linda Holland, Jr-Kai Yu (ICOB AS, SIO UCSD, IONTU)

OP03-10 (P-1115) 15:45-16:00 Pgc represses miRNA expression and protects germ plasm RNAs from degradation in Drosophila primordial germ cells

Pgcは、ショウジョウバエ始原生殖細胞でのmiRNAの転写を抑制し、母性RNAを保護している

Kazuko Hanyu-Nakamura, Kazuki Matsuda, Akira Nakamura (Lab. for Germline Development, RIKEN CDB)

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OP04: Regulation of gene expression/Evolution and development/Technology, theoretical approach, systems biology

May 20 (Thu) 13:30-16:00 Room B-1
Chairpersons: Koichi Kawakami (NIG)
Yuji Kageyama (NIBB)

OP04-01 (P-2035) 13:30-13:45 Parallel inputs and interlinked feedback loops ensure 99.99% canalization by establishing left and right asymmetry of Cerl2 around the mouse node
マウスノードでは2種類の入力と連結したフィードバック回路がCerl2の左右非対称性を安定にづくる
○Tetsuya Nakamura1, Aiko Kawasaki1, Owen Tampilin1, Daisuke Saitoh1, Kyosuke Shinohara1, Atsuko Takamatsu1, Atsushi Mochizuki1, Hiroshi Hamada1 (Osaka university1, Waseda univ.2, HHMI3, RIKEN4)

OP04-02 (P-2104) 13:45-14:00 Modeling lung branching morphogenesis via epithelial-mesenchymal interaction
上皮間葉間相互作用を含んだ肺枝分かれ形成のモデル
○Takashi Miura (Dept. of Anat. & Dev. Biol., Kyoto Univ. Grad. Sch. of Med.)

OP04-03 (P-2028) 14:00-14:15 Different modes of dynamic gene expression involved in animal segmentation: oscillating vs. splitting
動物の体節形成に関わるダイナミックな発現：振動モードと分裂モード
Masaki Kanayama1,2, Yasuko Akiyama-Oda1, Osamu Nishimura3,4, Hiroshi Tarui3, Kiyokazu Agata4, Hiroki Oda1,2 (JT BRH1, Osaka Univ.2, CDB3, Kyoto Univ.4)

OP04-04 (P-2017) 14:15-14:30 Mesodermal origin of scales and fins of fish - Insight into origin and evolution of mineralized skeleton in vertebrates
魚類の鱗と鰭条は中胚葉に由来する - 脊椎動物における骨格形成の進化と細胞系譜

OP04-05 (P-2009) 14:30-14:45 Lack of β1 integrin in the developing mouse notochord results in hemivertebrae
○Kathryn Cheah1, Shengzhen Guo1, Sarah Wynn1, Tiffany Au1, Attila Aszodi1, Reinhard Fassler2, Danny Chan1 (Department of Biochemistry, Li Ka Shing Faculty of Medicine, The University of Hong Kong1, Max Planck Institute of Biochemistry, Department of Molecular Medicine2)

OP04-06 (P-2123) 14:45-15:00 DNA demethylation regulates primordial germ cell-specific gene expression in mouse
DNA脱メチル化は始原生殖細胞特異的な遺伝子発現を制御する
○Kentaro Mochizuki, Yasuhiro Matsui (CRCBR, IDAC, Tohoku Univ.)

OP04-07 (P-1021) 15:00-15:15 Different microRNA arms usage of Hox miRNA miR-10 in animals
○Jerome Hui, Sam Griffiths-Jones, Matthew Ronshaugen (University of Manchester)
MicroRNA-21 expression triggered by heartbeat contributes to cardiac valve formation

心拍に誘導される MicroRNA-21 は心臓弁形成に関与する

Toshihiro Banjo¹, Minoru Omi¹, Kota Miyasaka¹, Yasuyuki Kida², Toshihiko Ogura¹
(IDAC, Tohoku Univ.¹, Salk Inst.²)

A transgenic RNA interference screen for regulators of nutrient-dependent growth in the fruit fly Drosophila melanogaster

ショウジョウバエ RNAi スクリーニングによる栄養依存的成長制御因子の探索

Naoki Okamoto, Takashi Nishimura (RIKEN, CDB)

Femtosecond laser-introduction of bionanomolecules in targeted single cells of living vertebrate embryos

高出力フェムト秒レーザーによる脊椎動物胚の単一細胞へのバイオナノ粒子の物理的導入方法

Mikiko Tanaka¹, Haruki Ochi², Takanori Iino³, Akihiro Hiraoka³, Yoichiroh Hosokawa³
(Grad. Sch. of Biosci. & Biotechnol., Tokyo Inst. of Technol.¹, Grad. Sch. of Biosci., NAIST², Grad. Sch. of Materials Sci., NAIST³)
Recently we are getting aware that various mammalian tissues or organs have a wider range of regenerative potential at the cellular level, as these tissues are known to contain stem-like cells even in the adult animals. However, in order to regenerate the tissue/organ demonstrating its proper function, reconstruction of highly ordered structures must be essential.

We will discuss the fundamental concepts of tissue restoration in a highly ordered manner, through the comparison of various models of regeneration from a view of developmental biology.

**WS01-01** 13:00-13:55 Amphibian retinal regeneration — An outstanding animal model for molecular analysis of regeneration —

両生類の網膜再生は再生の分子と細胞機構を研究する優れたモデル実験系である

Masasuke Araki (Dept. of Biol. Sci., Nara Women’s Univ.)

**WS01-02** (P-2167) 13:55-14:20 Expression of oocyte-type linker histone is required for newt lens transdifferentiation

‘Nobuyasu Maki1,2,3,4, Rinako Suetsugu-Maki1, Shozo Sano1, Kenta Nakamura1, Osamu Nishimura1, Hiroshi Tarui1, Katia Del Rio-Tsonis4, Keita Ohsumi1, Kiyokazu Agata1,2, Panagiotis Tsonis3 (PREST1, Inst. of Protein Research, Osaka Univ.1, Dept. of Biol, Univ. of Dayton1, RIKEN CDB3, Dept. of Biophys., Kyoto Univ.3, Dept. of Zool., Miami Univ.4, Div. of Biol. Sci., Nagoya Univ.2)’

**WS01-03** 14:20-14:45 Scarless wound healing of *Xenopus laevis* -as a prerequisite for epimorphic regeneration-

ツメガエルにおける瘢痕なしの創傷治癒—付加再生の前提条件として—

Hitoshi Yokoyama1, Tamae Maruoka1, Haruki Ochi1, Akio Aruga1, Takanori Amano1, Yoshimiko Shiroishi1, Hajime Ogino1, Koji Tamura1 (Grad. Scho. of Life Sci. Tohoku U.1, NAIST2, NIG2)

**WS01-04** (P-2166) 14:45-15:10 A mechanism that controls blastema cell proliferation and survival during zebrafish fin fold regeneration

ゼブラフィッシュ膜ひれ再生における再生芽の増殖と生存の調節

Teruhiro Nakajima, Takashi Ishida, Akira Kudo, Atsushi Kawakami (Tokyo Inst.Tech.)

**WS01-05** 15:10-15:35 What determines differences in cardiac regenerative abilities between mammals and newts?

哺乳類とイモリでの心臓再生能の違いは何によって決められるのか？

Takashi Takeuchi, Satoshi Yoshitome, Shoji Tane, Noriko Iwamoto, Yukio Satoh, Naoki Yokotani, Takuya Yokomatsu, Yu Okamoto, Toshinori Hayashi (Sch. of Life Sci., Fac. of Med., Tottori Univ.)

**WS01-06** 15:35-16:00 Functional redundancy between human SHOX and mouse Shox2 in the regulation of sinoatrial node formation and pacemaking function

‘YiPing Chen’ (Tulane University1, Tulane University2, Tulane University3, Tulane University4, Tulane University4, Fujian Normal University1, Tulane University2, Fujian Normal University3)
Cilia are microtubule-based organelles that project like “antennae” from the surface of cells and serve a variety of sensory function. In vertebrate development, ciliary function is essential for many biological processes including establishment of left-right asymmetry and proper formation of the central nervous system. Ciliary dysfunction is associated with various human diseases that can be broadly classified as “ciliopathies” including retinitis pigmentosa, polycystic kidney disease, infertility, hydrocephalus, polydactyly and obesity. In this workshop, we focused on both motile and sensory ciliary function and molecular mechanisms of ciliogenesis in the vertebrate model animals. We would like to discuss their work and exchange ideas about recent progress in this field.

**WS02-01 13:34-13:53**  The ciliary signaling in inv cystic kidney
Noriyuki Sugiyama, Dai Shiba, Takahiko Yokoyama (KPUM)

**WS02-02 13:53-14:07**  Fibroblast Growth Factor Receptor 1 (FGFR1) function in ciliogenesis during inner ear hair cell development
Akira Honda, Tomoko Kita, Yuko Muta, Kazuyo Misaki, Shigenobu Yonemura, Raj Ladher (RIKEN CDB)

**WS02-03 14:07-14:26**  A ciliary kinase Mak and a microtubule-associated protein RP1 antagonistically regulate ciliary length in retinal photoreceptor cells
Yoshihiro Omori1,2,3, Taro Chaya1,2, Kimiko Katoh1, Takahisa Furukawa1,3 (OBI1, PRESTO, JST2, CREST, JST3)

**WS02-04 14:26-14:45**  Mechanisms of ciliary positioning and orientation in the developing mouse brain
Kazunobu Sawamoto (Dept Dev Regen Biol, Nagoya City Univ School Med)

**WS02-05 14:45-14:59**  Roles of a seven-pass transmembrane cadherin Celsr1 in multi-ciliated epithelial cells of the mouse oviduct
Kouji Komatsu1,2, Dongbo Shi4, Mayumi Hirao1,2, Fadel Tissir2, Andre Goffinet4, Tadashi Uemura2, Toshihiko Fujimori1,2 (NIBB1, JST, CREST2, Inst. of Neuroscience, Univ. of Louvain Med. Sch.4, Grad. Sch. Biostudies, Kyoto Univ.4)

**WS02-06 14:59-15:18**  Dual function of cilia in Kupffer’s Vesicle: generation and sensing of nodal flow
Keiichiro Kamura1,2, Sumito Koshida1, Hiroyuki Takeda1 (RIKEN CDB1, Univ. of Tokyo2)
Synchronized motion of nodal cilia in left-right determination in the mouse embryo

マウス胚左右軸決定におけるノード繊毛の協同性

Kyosuke Shinohara¹, Atsuko Takamatsu², Aiko Kawasumi¹, Masakazu Hashimoto¹, Satoko Yoshiba¹, Takuji Ishikawa¹, Hiroshi Hamada¹ (Graduate School of Frontier Biosciences, Osaka University¹, Department of Electrical Engineering and Bioscience, Waseda University², Department of Bioengineering and Robotics, Tohoku University³)

Identification and Characterization of the Vertebrate Motile Ciliome

Semil Choksi, Deepak Babu, Xianwen Yu, Doreen Lau, Pallavi Panse, Noel Wong, Staven Ho, Shubha Vij, Sudipto Roy (IMCB)
Satellite Workshop (in Japanese)

SW01: Evolution/Regeneration/Organogensis/Other

May 18 (Wed) 15:00-18:00 Room A-1
Chairpersons: Hiroki Oda (JT BRH)
Mikiko Tanaka (Tokyo Inst. of Technol.)

SW01-01 (P-1016) 15:00-15:10 Development and Evolution of the Lateral Plate Mesoderm: Comparative Analysis of Amphioxus and Lamprey, with Implications for the Acquisition of Paired Fins
ナメクジウオとヤツメウナギの比較解析による側板中胚葉の進化と対鰭の獲得
○Koh Onimaru¹, Eiichi Shoguchi², Shigeru Kuratani¹, Mikiko Tanaka¹ (Tokyo Insti, Tech.¹, OIST², CDB, RIKEN³)

SW01-02 (P-2091) 15:10-15:20 zic1 and zic4 in late embryogenesis mediate patterning for adult dorsoventral trunk structures
発生後期におけるzic1およびzic4を介した体幹背腹パターン決定機構

SW01-03 (P-1041) 15:20-15:30 Release of blood-vessel adhesion regulates both blood circulation start and angiogenesis in zebrafish
セブラフィッシュにおいて血管内皮-赤血球の接着解除は血液循環の開始と間節血管の伸長に必要である
○Atsuo Iida (Ins. for Front. Med. Sci., Kyoto University)

SW01-04 (P-1165) 15:30-15:40 Ectopically induced limb on a flank possesses non-limb derived muscles in Ambystoma Mexicanum
わき腹に誘導された異所肢には四肢由来ではない筋肉組織が存在する。～新しい再生システムを使用した進化的考察～
○Ayako Hirata¹, Aki Makanae¹, Akira Satoh¹² (RCIS, Okayama Univ.¹, JST PRESTO²)

SW01-05 (P-2174) 15:40-15:50 What triggers re-proliferation of cardiomyocytes during newt heart regeneration?
イモリの心臓再生過程において、何が心筋細胞の再增殖を引き起こすのか？
○Naoki Yokotani, Toshinori Hayashi, Takashi Takeuchi (Tottori Univ., Sch. Life Sci., Div. Biosignal.)

SW01-06 (P-2106) 15:50-16:00 The functional role of Polycomb group proteins Ring1A/B during mammalian limb development
マウス肢形成過程におけるポリコーム群タンパク質Ring1A/Bの役割
○Nayuta Yakuishi-Kaminatsui¹, Takaho A. Endo², Tetsuro Toyoda², Haruhiko Koseki¹ (RCAI, RIKEN¹, BASE, RIKEN²)
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<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
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<tr>
<td>SW01-07</td>
<td>16:10-16:20</td>
<td>AP-1 Transcription Factors Regulate the Number of Apoptotic Cells in Developing Chick Limb Buds</td>
<td>Natsuno Suda, Daisuke Shirakawa, Takehiko Itoh, Masashige Bando, Katsuhiko Shirahige, Kohsuke Kataoka, Cheryll Tickle, Mikiko Tanaka</td>
<td>Tokyo Tech, Univ. of Tokyo, NAIST, UoB</td>
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<td>SW01-08</td>
<td>16:20-16:30</td>
<td>Mutations Affecting Cessation of Gonadal Leader Cell Migration in C. elegans</td>
<td>Tetsuhiro Kikuchi, Yukimasa Shibata, Kiyoji Nishiwaki</td>
<td>Dept. of Biosci, Grad Sch of Sci and Tech, Kwansei Gakuin Univ</td>
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<tr>
<td>SW01-09</td>
<td>16:30-16:40</td>
<td>On the Origin of the Vertebrate Pharyngeal Arch; Insight from Expressions and Functions of Pax1/9</td>
<td>Kazunori Okada, Hector Escriva, Keiji Inohaya, Akira Kudo, Hiroshi Wada</td>
<td>Univ. Tsukuba, Observatoire Océanologique de Banyuls sur Mer, Tokyo Insti, Tech</td>
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<tr>
<td>SW01-10</td>
<td>16:40-16:50</td>
<td>Jagged2/Notch signaling regulates epithelial organization of pharyngeal pouches in association with Fibronectin</td>
<td>Hiroyuki Takahashi, Takashi Akanuma, Shinji Takada</td>
<td>NISS NIBB, OIB, SOKEN-DAI, NAIST</td>
</tr>
<tr>
<td>SW01-11</td>
<td>16:50-17:00</td>
<td>Modification of BMP signaling is essential for the specification of the foregut endoderm in the chicken embryo</td>
<td>Yui Okayama, Wataru Kimura, Sadao Yasugi, Kimiko Fukuda</td>
<td>Dept. Biol., Tokyo Metropol. Univ., Hamamatsu Univ, Kyoto Sangyo Univ</td>
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<tr>
<td>SW01-13</td>
<td>17:20-17:30</td>
<td>Isolated ectoderm is fated to die in early Xenopus embryos</td>
<td>Hirota Kato, Eriko Motomura, Ippei Tanaka, Yusuke Higashi, Ayumi Hourai, Masao Sakai</td>
<td>Chem. and BioSci., Grad. Sch. Sci. and Eng., Kagoshima uni</td>
</tr>
<tr>
<td>SW01-14</td>
<td>17:30-17:40</td>
<td>Melanosome transfer during skin pigmentation: a novel method to study intercellular signaling between melanocytes and keratinocytes in vivo</td>
<td>Hidetaka Murai, Ryosuke Tadokoro, Ken-ichiro Sakai, Yoshiro Takahashi</td>
<td>NAIST</td>
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### SW01-15 (P-2169) 17:40-17:50

**Generation of intestinal epithelial like cell derived from ES cells**

ES細胞を用いた効率的な腸上皮様細胞への分化誘導法の構築

○Soichiro Ogaki, Nobuaki Shiraki, Kazuhiro Kume, Shoen Kume

(Imeg Dep. of Stem Cell Biol., GCOE Kumamoto Univ. Kumamoto, Japan)

### SW01-16 (P-2095) 17:50-18:00

**Lineage specification of gastrointestinal cells by helix-loop-helix transcription factor Id2**

転写調節因子Id2による消化管上皮細胞の運命決定機構

○Kentaro Mori, Harumi Nakamura, Kota Tamada, Toru Takumi, Yoshifumi Yokota


### SW02: Reproduction/Epigenetics/Neural development/Others

May 18 (Wed) 15:00-18:00 Room B-1

**Chairperson: Shinichi Nakagawa (RIKEN)**

#### SW02-01 (P-1119) 15:00-15:10

**In vitro production of functional sperm in cultured neonatal mouse testes**

新生仔マウス精巣片の器官培養法による精原細胞からの精子産生

○Takuya Sato, Kumiko Katagiri, Kimiko Inoue, Narumi Ogonuki, Atsuo Ogura, Yoshinobu Kubota, Takehiko Ogawa

(Dept. of Urology, Yokohama City Univ. School of Med., RIKEN, BRC)

#### SW02-02 (P-1121) 15:10-15:20

**In vitro studies on migratory activity of Xenopus primordial germ cells**

アフリカツメガエル始原生殖細胞の運動性に関する研究

○Kohei Terayama, Kensuke Kataoka, Keisuke Morichika, Hidefumi Orii, Kenji Watanabe, Makoto Mochii

(Univ. Hyogo, IMBA, Univ. Rikkyo)

#### SW02-03 (P-1120) 15:20-15:30

**Germ plasm includes germ cell determinant in Xenopus**

Xenopus生殖細胞質は、生殖細胞運命を決定づける

○Haru Tada, Kenji Watanabe

(Grad. Sch. Life Sci, Univ. Hyogo)

#### SW02-04 (P-1061) 15:30-15:40

**Developmental roles of muscle-specific microRNAs in medaka**

メダカ胚における筋肉特異的microRNAの発現と機能

○Saori Tani, Rie Kusakabe, Kiyoshi Naruse, Hiroshi Sakamoto, Kunio Inoue


**Chairpersons: Tadao Usui (Kyoto Univ.) Leo Tsuda (NILS)**

#### SW02-05 (P-1030) 15:50-16:00

**Chromatin structure regulates DNA replication in yeast and Drosophila development**

クロマチン構造は酵母やショウジョウバエ発生時のDNA複製を制御する

○Hidetugu Kohzaki, Murakami Yota

(IVR, Kyoto Univ.)

#### SW02-06 (P-2088) 16:00-16:10

**How dose the cell cycle arrest occur in mammalian cardiomyocyte?**

どのように心筋細胞の増殖を止まるのか

○Noriko Iwamoto, Satoshi Yoshitome, Yukio Sato, Shoji Tane, Toshinori Hayashi, Takashi Takeuchi

Requirement of Dbf4 expression for DNA replication in mouse zygote
Dbf4 によるマウス受精卵の染色体複製開始機構の解析
○Shin Murai1, Yukiko Katagiri2, Yusuke Fukuda2, Mineto Morita2, Shigeru Yamashita1
(Dept of Biochem, Toho Univ, Sch of Med1, Dept of Obst and Gyn, Toho Univ, Sch of Med2)

Functional analysis of histon methylase G9a and GLP in mouse cardiac development
ヒストンメチラーゼ G9a と GLP の心筋特異的欠損マウスにおける心臓形成異常の解析
○Tomoyuki Makino1, Makoto Tachibana2, Yoichi Shinkai2, Takashi Takeuchi1 (Tottori Univ., Sch. Life Sci., Div. Biosignal.1, IVR, Kyoto Univ.2)

A H3K27 demethylase, Jmjd3, is essential for Xenopus eye development
○Akane Kawaguchi, Haruki Ochi, Norihiro Sudou, Hajime Ogino (NAIST)

Fgf8 may function as a nuclear factor
核内 FGF8 の作用機構の解析
○Ayumu Suzuki1, Hidekiyo Harada2, Harukazu Nakamura12 (Grad., Life Sci. Div. Tohoku Univ.1, IDAC2)

Rest is dispensable for the proper intrinsic regulations of neuronal gene expressions in the specification of cell fate during neurogenesis in vivo
神経分化抑制遺伝子 Rest は高度に制御された in vivo での神経細胞の運命決定を障害しない
○Hitomi Aoki1, Akira Hara2, Takahiro Kunisada1, Yasuhiro Yamada12 (RAMS Gifu1, Department of Tumor Pathology, Regeneration, and Advanced Medical Science, Gifu University Graduate School of Medicine2, PRESTO2, CiRA, iCeMS3)

Neuronal targeting of synaptic partners are regulated by cell-autonomous function of Meigo, a putative UDP-sugar transporter, in the Drosophila olfactory brain center
糖核酸輸送体様分子 Meigo がシナプスパートナーの神経突起ターゲティングを制御する
○Sayaka Sekine1, Liqun Luo4, Masayuki Miura12, Takahiro Chihara122 (Dept. Genetics, Grad. Sch. Pharm. Sci, Univ. Tokyo1, PRESTO, JST1, CREST, JST2, HHMI and Dept. Biol. Stanford Univ. USA4)
**Heterochronic shift of Six1 expression drives evolutionary transition of vertebrate primary sensory neurons**

脊椎動物体幹部一次感覚神経の進化はSix1発現時期の変化によってもたらされた

○Hiroshi Yajima¹, Makoto Suzuki², Haruki Ochi², Keiko Ikeda¹, Shigeru Sato¹, Hajime Ogino¹, Naoto Ueno², Kiyoshi Kawakami¹ (Jichi Med Univ¹, NIBB², NAIST³)

**Phenotypic and molecular heterogeneity in zebrafish lateral line neurons during circuit formation**

ゼブラフィッシュ側線系の発生における単一神経細胞の表現型と遺伝子発現の多様性

○Akira Sato, Sumito Koshida, Hiroyuki Takeda (Department of Biological Sciences, Graduate School of Science, University of Tokyo)

**Involvement of Pax6 in the retinal pigment epithelium development**

○Daisuke Nishihara¹,³, Akiha Kawasaki-Nishihara¹,³, Nagaharu Tsukiji², Harukazu Nakamura¹, Hiroaki Yamamoto¹ (Grad. Sch. of Life Scis., Tohoku Univ.¹, Mammal. Genet. Lab., NIG², Fac. of Biosci., NIBST³)
Poster Sessions: May 19 (Thu) P-1001～P-1188

Presentation times: Even-numbered, 16:30-17:30
Odd-numbered, 17:30-18:30

P-1001 Interactions between signaling pathways and cell adhesion molecules in cell shape dynamics of *Drosophila* wing and haltere
Anuradha Aritakula, L. S. Shashidhara (Indian Institute of Science Education and Research)

P-1002 *MicroR-206* Controls Muscle Development in Zebrafish Embryos through Silencing Novel *MicroR-206*-Specific Target Genes
Wen-Yen Chang, Cheng-Yung Lin, Huai-Jen Tsai (Institute of Molecular and Cellular Biology, National Taiwan University)

P-1003 Profiling of the extracellular matrix composition in the early mouse embryos
マウス初期胚における細胞外マトリックス蛋白質の局在解析
Sugiko Futaki1, Itsuko Nakano1, Ri-ichiroh Manabe2, Ko Tsutsui1, Noriko Ban-Sanzen1, Kiyotoshi Sekiguchi1 (IPR Osaka Univ1, Riken Omics Science Center2, Portland Shriners Research Center, OR, USA1)

P-1004 Transgenic zebrafish model to study translational control mediated by upstream open reading frame of human *chop* gene
Hung-Chieh Lee, Huai-Jen Tsai (Institute of Molecular and Cellular Biology, College of Life Science, National Taiwan University)

P-1005 Mechanism of osteoclast activation under hypergravity
加重力環境下における破骨細胞活性化のメカニズム
Akiko Mantoku, Masahiro Chatani, Issei Kubota, Akira Kudo (Department of Biological Information, Tokyo Institute of Technology)

P-1006 Temporal and spatial expression patterns of Cdc25 phosphatase isoforms during early Xenopus development
アフリカツメガエル胚発生過程におけるCdc25ホスファターゼの発現
Yu-ki Deno, Chihiro Kenmochi, Nobushige Nakajo, Hiroyuki Ueno, Noriyuki Sagata (Dept. of Biol., Grad. Sch. of Sci., Kyushu Univ.)

P-1007 The adaptor protein SH2B3 inhibits neuronal differentiation of PC12 cells and cortical neurons
Tien-Cheng Wang, Hsun Chiu, Linyi Chen (NTHU)

P-1008 Epigenetic differentiation of prestalk cells in growing Dictyostelium cells
細胞性粘菌の増殖期におけるエピジェネティックな予定柄細胞分化
Hiroshi Seno1, Satoshi Kuwana2, Naoko Kogawa2, Masashi Fukuzawa1,2 (UGAS1, Faculty of Agriculture and Life Science, Hirosaki University2, Faculty of Agriculture and Life Science, Hirosaki University2, UGAS2)

P-1009 Genome-wide Identification and analysis of direct targets of the Hox protein Ultrabithorax in *Drosophila*
Pavan Agrawal1,2, Farhat Habib2, Ramesh Yelagandula1, L. S. Shashidhara1,2 (Centre for Cellular and Molecular Biology1, Indian Institute of Science Education & Research1)

P-1010 The Drosophila king tubby is a novel molecule to regulate rhodopsin cycle
Shu-fen Chen, Yu-Chen Tsai, Yu-Shian Li, Seng-Sheen Fan (DLS)
P-1011 Comprehensive analysis of twelve Wnt genes identified in the genome of the water flea, Daphnia

Hirotaka Katou, Yasuhiro Shiga (Tokyo Univ of Pharm and Life Sci)

P-1012 Evolution of alx gene and evolution of echinoderm larval skeleton

Hiroyuki Koga, Haruka Fujitani, Mioko Matsubara, Takeshi Hareyama, Norio Miyamoto, Yoshiaki Morino, Hiroshi Wada (Univ. Tsukuba)

P-1013 microRNA -3906 regulates fast muscle differentiation through silencing the target gene homer-1 in zebrafish embryos

Cheng-Yung Lin, Huai-Jen Tsai (Institute of Molecular and Cellular Biology, College of Life Science, National Taiwan University)

P-1014 Role of the orthodenticle gene in an ancestral mode of insect embryogenesis, as revealed by expression and functional analyses in the cricket Gryllus bimaculatus

Aya Nakai, Masato Yoshizaki, Taro Mito, Taro Nakamura, Tetsuya Bando, Hideyo Ohuchi, Sumihare Noji (Dept. of Life Systems, Inst. of Tech. and Sci., Univ. of Tokushima)

P-1015 On the Origin of the Vertebrate Pharyngeal Arch; Insight from Expressions and Functions of Pax1/9

Kazunori Okada, Hector Escriva, Keiji Inohaya, Akira Kudo, Hiroshi Wada (Univ. Tsukuba, Observatoire Océanologique de Banyuls sur Mer, Tokyo Insti, Tech)

P-1016 Development and Evolution of the Lateral Plate Mesoderm: Comparative Analysis of Amphioxus and Lamprey, with Implications for the Acquisition of Paired Fins

Koh Onimaru, Eiichi Shoguchi, Shigeru Kuratani, Mikiko Tanaka (Tokyo Insti, Tech, OIST, CDB, RIKEN)

P-1017 Cancelled

P-1018 Regionalization and dorso-ventral patterning of the Lamprey telencephalon

Fumiaki Sugahara, Shin-Ichi Aota, Shigeo Kuraku, Yasuhiro Murakami, Yoko Takio-Ogawa, Shigeki Hirano, Shigeru Kuratani (RIKEN, CDB, Konstanz Univ, Ehime Univ, Niigata Univ)

P-1019 Heterochronic shift of Six1 expression drives evolutionary transition of vertebrate primary sensory neurons

Hiroshi Yajima, Makoto Suzuki, Haruki Ochi, Keiko Ikeda, Shigeru Sato, Hajime Ogino, Naoto Ueno, Kiyoshi Kawakami (Jichi Med Univ, NIBB, NAIST)

P-1020 Evolution of vertebrate muscle: insights from the lamprey


P-1021 Different microRNA arms usage of Hox miRNA miR-10 in animals

Jerome Hui, Sam Griffiths-Jones, Matthew Ronshaugen (University of Manchester)
P-1022 Spatial and temporal expression of single-minded homolog during embryogenesis in water flea, Daphnia magna
オオミジンコにおける single-minded ホモログの胚発生過程における発現と機能解析
Shin-ichi Morita, Shin-ichi Tokishita, Yasuhiro Shiga, Toshihiro Ohta (Tokyo Univ of Phorm & Life Sci)

P-1023 Robust specification of sensory neurons by dual functions of Charlatan, a Drosophila NRSF/REST-like repressor of extramacrochaetae and hairy
感覚神経細胞の形成におけるショウジョウバエ NR_SF/REST 様因子 Charlatan の機能解析
Yasutoyo Yamasaki, Young-Mi Lim, Leo Tsuda (NCGG)

P-1024 Comparative anatomy of the diaphragmatic muscle precursor cells in mouse and chick
マウス、ニワトリを用いた横隔膜を形成する筋前駆細胞の比較解剖学的解析
Norifumi Tatsumi, Masataka Okabe (Dept. of Anat. Jikei Univ. Sch. of Med.)

P-1025 Imaging of transgenic cricket embryos reveals cell movements consistent with a syncytial patterning mechanism
頭部オーガナイザーにおける Lim1 と Otx2 の ChIP-sequence 解析から明らかになった位置情報の分子実体とその進化解析への応用
Yuuri Yasuoka1, Norihiro Sudou1, Yutaka Suzuki1, Shuji Takahashi1, Yoshikazu Haramoto1, Yukiko Tando1, Kaoru Kubokawa1, Makoto Asashima1, Sumio Sugano1, Masanori Taiga1 (Dept. of Life Systems, Institute of Tech. and Sci., The University of Tokushima)

P-1026 Analysis of conserved microRNA loci in the Hox cluster in the water flea, Daphnia magna
オオミジンコ Hox クラスター内に保存された miRNA 座位の解析
Eisuke Komatsubara, Yasuhiro Shiga (Tokyo Univ. Pharm. & Life Sci., Sch. of Life Scis.)

P-1027 The molecular entity of positional information revealed by ChIP-sequence analysis for Lim1 and Otx2 in the head organizer and its application for evolutionary analysis
頭部オーガナイザーにおける Lim1 と Otx2 の ChIP-sequence 解析から明らかになった位置情報の分子実体とその進化解析への応用
Yuuri Yasuoka1, Norihiro Sudou1, Yutaka Suzuki1, Shuji Takahashi1, Yoshikazu Haramoto1, Yukiko Tando1, Kaoru Kubokawa1, Makoto Asashima1, Sumio Sugano1, Masanori Taiga1 (Dept. of Life Systems, Institute of Tech. and Sci., The University of Tokushima)

P-1028 Ectopic localization of mitochondrial ATP synthase within ascidian egg myoplasm
ホヤ卵マイオプラズムにおけるミトコンドリア型 ATP 合成酵素の異所的な局在
Hirokazu Ishii1, Shourou Sagiike1, Takahito Nishikata1 (FIRST, Konan Univ.1, FIBER, Konan Univ.2)

P-1029 BMP signaling and the left-right asymmetry in the sea urchin larva
Yi-Jyun Luo, Yi-Hsien Su (ICOB, Academia Sinica)

P-1030 Chromatin structure regulates DNA replication in yeast and Drosophila development
クロマチン構造は酵母やショウジョウバエ発生時の DNA 複製を制御する
Hidetugu Kohzaki, Murakami Yota (IVR, Kyoto Univ.)

P-1031 Convergent evolution of pluteus larvae; Insight from VEGF signaling
VEGF シグナリングから見るプルテウス幼生の収斂進化
Yoshiaki Morino, Hiroyuki Koga, Hiroshi Wada (Univ. Tsukuba)

P-1032 Cloning and developmental expression pattern of leucine-rich repeat-containing G protein-coupled receptor 5(LGR5)in the medaka fish, Oryzias latipes
メダカ LGR5 遺伝子の同定と発生過程におけるその発現パターンの解析
Toshio Takahashi1, Tomonori Deguchi2, Takashi Kawasaki2, Hiroe Oonishi2, Shunsuke Yuba2 (Suntory Foun. for Life Sci.1, Natl. Inst. of Advanced Indus. Sci. and Tech.2)
P-1033 sPDZD2, a novel modulator of Hedgehog signalling
Michelle Tsui, Danny Chan, Kathryn Cheah, Martin Cheung, Kwok Ming Yao (HKU)

P-1034 Essential role of Dkk3 for head formation by inhibiting Wnt/βcatenin and Nodal/Vg1 signalling pathways in the basal chordate amphioxus.
Takayuki Onai, Ira Blitz, Ken Cho, Linda Holland (UCSD, UCI)

P-1035 Granzyme G is expressed in the two-cell stage mouse embryo and is required for the maternal-zygotic transition

P-1036 Isolation of wild-type iPS cells genetically restored from heterozygous Pkd1-deficient iPS cells in mouse
LI-TAO Cheng, Shogo Nagata, Kunio Hirano, Shinpei Yamaguchi, Takashi Tada (Stem Cell Engineering, IFMS, Kyoto Univ., Department of Nephrology, Peking University Third Hospital, Peking University)

P-1037 Investigation of the evolutionary background of pluripotency among species
Shota Nakanoh, Kiyokazu Agata (Kyoto University, Science)

P-1038 Tubulogenesis using Wolffian duct as a model: FGF signals regulate tubular elongation and cell epithelialization as environmental factors
Yuji Atsuta, Yoshiko Takahashi (NAIST)

P-1039 Essential roll of SOX5 in the semicircular canal development of zebrafish

P-1040 Effect of cadmium chloride(CdCl2)on early development of Xenopus laevis
Mamoru Hanatachi, Kouhei Matsuda, Minoru Uchiyama, Norifumi Konno (Graduate school of Science and Engineering, University of Toyama)

P-1041 Release of blood-vessel adhesion regulates both blood circulation start and angiogenesis in zebrafish
Atsuo Iida (Ins. for Front. Med. Sci., Kyoto University)

P-1042 Role of ROCK in embryogenesis
Hiroshi Kamijo, Yutaka Matsumura, Dean Thumkeo, Yoshihiko Shimizu, Toshimasu Ishizaki, Shuh Narumiya (Dep. Pharm Grad. Sch. of Med., Kyoto Uni.)
P-1043 Characterization of the medaka (*Oryzias latipes*) primary ciliary dyskinesia mutant, *jaodori*: Redundant and distinct roles of two dynein axonemal intermediate chain 2s (dnai2s) in motile cilia


P-1044 Mitotic cell rounding accelerates invagination of the *Drosophila* tracheal placode

"Takefumi Kondo, Shigeo Hayashi (RIKEN CDB)"

P-1045 The role of nucleotide receptors in Xenopus development

"Madoka Masuda, Hiromi Satsuki, Chikara Hashimoto (Dept. Biol., Grad. Sch. Sci., Osaka Univ, BRH)"

P-1046 A novel medaka mutant Da-2 showing a phenotype similar to Double-anal fin


P-1047 Roles of Autotaxin, a lysophospholipid-generating exoenzyme in neural development in mouse and chick

"Hideyo Ohuchi, Seiichi Koike, Hitomi Fukui, Yoshifumi Yutoh, Kazuko Keino-Masu, Masayuki Masu, S Noji (Inst. of Tech. Sci., Univ. of Tokushima Grad. Sch., Department of Molecular Neurobiology, Institute of Basic Medical Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba)"

P-1048 Gene expression of twinning formation in Xenopus laevis embryo

"Eiji Sato, Yasuko Onuma, Naoyuki Miura, Yuzuru Ito (Dept. of Biochem., Hamamatsu Univ.Sch.of Med., Research Center for Stem Cell Engineering, National Inst. AIST)"

P-1049 Transcription factor *Tfap2b* functions in digit morphogenesis downstream of FGF signals from AER

"Ryohei Seki, Shigetoshi Yokoyama, Hiroshi Asahara, Takayuki Suzuki, Hitoshi Yokoyama, Koji Tamura (Grad. Sch. of Life Sci., Tohoku Univ, Department of Systems BioMedicine, National Research Institute for Child Health and Development, Grad. Sch. of Sci., Nagoya Univ)"

P-1050 Cancelled

P-1051 Impaired development of kidney in mice lacking Lgr4 with reduced expression of the gene for ureteric bud branching

P-1052 Secondary neurulation: Another type of neurulation by mesenchymal-to-epithelial transition
もう一つの神経管: Secondary neurulation
Yoshiko Takahashi, Teruaki Kawachi, Eisuke Shimokita (NAIST, Biol. Sci.)

P-1053 Coordination of cell death and selective adhesion interlocking dorsal and ventral wing edges for zigzag pattern of Drosophila wing margin hairs
ショウジョウバエ翅の縁毛のジグザグ配置形成機構: 背腹境界における細胞死と
Masahiko Takemura, Takashi Adachi-Yamada (Dept. of Biology, Grad School of Science, Kove Univ.; Institute for Biomolecular Science, Gakushuin Univ.; Dept. of Life Science, Fac. of Science, Gakushuin Univ.)

P-1054 Mechanical Tension Guides Cell Sorting at the Anteroposterior Compartment Boundary in Drosophila
細胞間結合にかかる張力がショウジョウバエの前後コンパートメント境界における

P-1055 In vitro analysis revealed that direct cell interactions autonomously generate various surface patterns in zebrafish
ゼブラフィッシュ色素細胞培養系を用いた、表面パターン形成機構における細胞間相互作用の解析
Hiroaki Yamanaka, Yuji Amihama, Shigeru Kondo (FBS, Osaka Univ.)

P-1056 Polycystin-2 mediates flow-derived signal to establish left-right asymmetry at the edge of the node
Polycystin-2 は左右軸形成において、ノード流によってうまれる左右非対称なシグナルを仲介する
Satoko Yoshiba, Hidetaka Shiratori, Aiko Kawasumi, Kyoosuke Shinohara, Jose Antonio Belo, Junichi Nakai, Shigenori Nonaka, Hiroshi Sasaki, Ivanu Kuo, Barbara Ehrlich, Petra Pennekamp, Bernd Dworniczak, Hiroshi Hamada (Osaka Univ. FBS, Instituto Gulbenkian de Ciencia, Saitama Univ. BSI, NIBB, RIKEN CDB, Yale Univ. School of Medicine, Univ. Hospital Muenster)

P-1057 Dual function of cilia in Kupffer’s Vesicle: generation and sensing of nodal flow
クッペル胞繊毛の2つの働き: nodal flow をつくり、センスする
Keiichiro Kamura, Sumito Koshida, Hiroyuki Takeda (RIKEN CDB, Univ. of Tokyo)

P-1058 Expression of chordin in inverted embryos of Xenopus
アフリカツメガエルにおける反転胚の chordinの発現
Eriko Motomura, Tomohiro Narita, Shin-ichiro Nishimatsu, Tsutomu Nhono, Masao Sakai (Grad. Sch. of Sci. and Eng., Kagoshima Univ.; Dept. of Mol. and Dev. Biol., Kawasaki Med. Sch.)
P-1059  Expression of the actin-binding proteins, coactosin and drebrin, in the developing chick ciliary ganglion
発達期ニワトリ胚毛様体神経節におけるアクチン結合タンパク質、コアクトンとドレブリンの発現パターン
Shoko Hososhima1, Xubin Hou1, Harakazu Nakamura1, Toru Ishizuka1,4, Hiromu Yawo1,4 (Molecular and Cellular Neuroscience Laboratory, Department of Developmental Biology and Neuroscience, Tohoku University Graduate School of Life Sciences1, Laboratory of Neuronal Development Department of Medical and Dental Sciences, Niigata University2, Development of molecular neurobiology, Graduate School/Institute of Development, Aging and Cancer, Tohoku University3, Tohoku University Basic and Translational Research Center for Global Brain science4, CREST, JST5)

P-1060  Roles of apoptosis during early brain morphogenesis; not restricting overall cell number, but ensuring the completion of neural tube closure
アポトーシスの脳の初期形態形成における役割は、脳全体の細胞数の制限ではなく、神経管閉鎖を確実に完了させることである
Keiko Nonomura1, Yoshifumi Yamaguchi1,2, Hiroki Yoshida3, Keisuke Kuida4, Masayuki Miura1,2 (Dept. Genetics, Grad. Sch. Pharm. Sci, Univ. Tokyo1, CREST, JST2, Saga Univ. Med. Sch.3, Millennium: The Takeda Oncology Company4)

P-1061  Developmental roles of muscle-specific microRNAs in medaka
メダカ胚における筋肉特異的 microRNA の発現と機能

P-1062  Genetic dissection of the hindbrain by the Gal4-UAS system in zebrafish
ゼブラフィッシュGal4 トラップ法による後脳の遺伝学的解剖
Kazuhide Asakawa1,2, Gembu Abe1, Koichi Kawakami1,2 (NIG1, SOKENDAI2)

P-1063  The Drosophila king tubby is a novel molecule to regulate rhodopsin cycle
Shu Chen, Yu-Chen Tsai, Yu-Shian Li, Seng-Sheen Fan (Department of Life Science, Tunghai University)

P-1064  Olfactory Receptor Neuron Identity is Diversified by the Drosophila EvII/Prdm16 Homologe Hamlet that Mediates Chromatin Modification at Notch-Target Loci
ショウジョウバエPrdm蛋白HamletによるNotch摂取のクロマチン修飾と嗅覚神経細胞クラス分化
Keita Endo1, MD Rezaul Karim2, Alena Krejci3, Emi Kinameri2, Hiroaki Taniguchi2, Matthias Siebert2, Kei Ito1, Sarah Bray3, Adrian Moore2 (IMCB, Univ. of Tokyo1, RIKEN BSI2, Dept. of PDN, Univ. of Cambridge3)

P-1065  Altering neural network by blocking axonal navigation with nano-micro structures during development of a vertebrate
ナノ構造物を用いた発生中の脊椎動物の中枢神経内での回路形成改変の試み
Norihiko Yamasaki1, Yuki Someya1, Makoto Okada2, Matsu Shinji1, Toshie Matsushita1, Kohei Hatta1 (Life Sci, U of Hyogo1, Adv. Sci. Tech. U of Hyogo2)

P-1066  Semaphorin 3A causes the conversion of axons of developing spinal commissural interneurons to dendrites by the induction of functional Ca2,3 channels
Makoto Nishiyama1, Kazunobu Togashi2, Melanie von Schimmelmann1, Shin-ichi Maeda2, Yoshio Goshima1, Shin Ishii1, Kyonsoo Hong2 (Department of Biochemistry, NYU School of Medicine1, Department of Systems Science, Graduate School of Informatics, Kyoto University2, Department of Molecular Pharmacology and Neurobiology, Yokohama City University School of Medicine2)
Neural activity regulates proper restitution of the brain function through novel neuropeptide genes in planarian regeneration

プラナリアの機能的な脳再生に関与する新規神経ペプチドの解析

Takeshi Inoue, Tomomi Takano, Yoshihiko Umesono, Kiyokazu Agata (Dep. Biophys, Kyoto Univ., CDB, RIKEN)

Analysis of glial cell sub-lineages in the mouse central nervous system

マウス中枢神経系におけるグリア亜集団細胞系譜の解析


Notch signal inactivation by Sbno is essential for mouse neuronal differentiation

Sbno による Notch シグナルの抑制によって皮質ニューロンは分化する

Yu Katsuyama, Ai Takano, Naoya Ryoyama, Hideaki Imai, Noriko Osumi, Masahiko Hibi, Toshio Terashima (Tohoku Univ. Grad. Sch. Med., Kobe Univ Grad Sch Med, Biosc Biotech Center, Nagoya Univ)

Genetic dissection of adult zebrafish brain by Tol2 transposon mediated Gal4-UAS system and gene trap and enhancer trap method

Pradeep Lal, Koichi Kawakami (NIG, SOKENDAI)

The role of Xnr3 in the neural patterning in Xenopus

ツメガエルの発生初期において Xnr3 が神経パターンニングに及ぼす影響


Zebrafish Kuririn is a critical factor for the telencephalic neurogenesis by repressing Hes-related gene, her6

ゼブラフィッシュ Kuririn は Hes関連遺伝子である her6を介した終脳の神経分化に必要である

Yoshinari Nakahara, Akio Yoshizawa, Toshiaki Izawa, Tohru Ishitani, Makiko Tsutsumi, Atsushi Kuroiwa, Motoyuki Itoh, Yutaka Kikuchi (Department of Biological Science, Graduate School of Science, Hiroshima University, Division of Biological Science, graduate School of Science, Nagoya University, Unit on Nervous Development System, Nagoya University)

Functional analysis of the developmental stage-specifically expressed gene in cortical progenitor cells

大脳前駆細胞において発生時期特異的に発現する遺伝子の機能解析

Mayumi Okamoto, Miyata Takaki, Fumio Matsuzaki, Ayano Kawaguchi (Department of Anatomy and Cell Biology, Nagoya University, Lab. for Cell Asymmetry, CDB, RIKEN)

Novel retinal fiber pathway in the deep laminae of the developing chick optic tectum

ニワトリ胚視蓋における網膜繊維の新規経路


Neuronal targeting of synaptic partners are regulated by cell-autonomous function of Meigo, a putative UDP-sugar transporter, in the Drosophila olfactory brain center

Meigo がシナプスパートナーの神経突起ターゲティングを制御する

Sayaka Sekine, Liqun Luo, Masayuki Miura, Takahiro Chihara (Dept. Genetics, Grad. Sch. Pharm. Sci, Univ. Tokyo, PRESTO, JST, CREST, JST, HHMI and Dept. Biol. Stanford Univ. USA)
P-1076  Genetic control for development of cerebellar neurons and neural circuits in zebrafish
Takashi Shimizu, Shuichi Kani, Young-Ki Bae, Koji Tanabe, Ryo Kusuda, Masahiko Hibi
(Nagoya University, RIKEN CDB, Division of Basic and Applied Sciences, Research Institute, National Cancer Center, Korea, Division of Stem Cell Regulation Research, Osaka University Graduate School of Medicine)

P-1077  Two modes of tangential cell migration in the developing chick optic tectum

P-1078  A novel RING finger protein, Znf179, modulates cell cycle exit and neuronal differentiation of P19 embryonal carcinoma cells
Ping-Chieh Pao, Shih-Ting Lin, Yi-Chao Lee (IBBT, Department of Pharmacology, College of Medicine, National Cheng Kung University, Tainan 70101, Taiwan, Center for Gene Regulation and Signal Transduction Research, National Cheng Kung University, Tainan 70101, Taiwan)

P-1079  Phenotypic and molecular heterogeneity in zebrafish lateral line neurons during circuit formation
Akira Sato, Sumito Koshida, Hiroyuki Takeda (Department of Biological Sciences, Graduate School of Science, University of Tokyo)

P-1080  Hepatitis C Virus Infection and Increased Risk of Stroke: A Population-Based Study
Chien-Chang Liao, Ta-Liang Chen (DA, TMUH)

P-1081  A novel protein, Sidetrk1 supports peripheral axon extension in zebrafish primary sensory neurons by facilitating ligand-independent activation of neurotrophin receptors.
Makoto Aoki, Hiroshi Segawa, Mayumi Naito, Hitoshi Okamoto (DGR, BSI, RIKEN)

P-1082  DEAD-box RNA helicase is required for development of the digestive organs and brain

P-1083  Involvement of Foxc1 in vascular network formation
Sachiko Iseki, Norisuke Yokoyama, Akihiko Machida, Shigeru Okuhara (SMCE, TMDU)

P-1084  Changing mechanical specificity of cartilage matrix between fetus and newborn animals
Mikiko Kobayashi-Miura, Takashi Miura, Yoshimi Yamaguchi, Tsuyoshi Tanabe, Tomoki Aoyama, Akira Ito, Hiroki Amono, Shinji Imade, Yuji Uchio, Yasuyuki Fujita (Department Public Health, Department of Anatomy and Developmental Biology, Graduate School of Medicine, Kyoto University, Department of Human Health Sciences, Graduate School of Medicine, Kyoto University, Department of Orthopaedic surgery, Shimane University School of Medicine)

P-1085  Roles of crip2 during mechano-dependent cardiogenesis
Hideto Osada, Kota Miyasaka, Toshihiko Ogura (IDAC)
P-1086  Functional studies of mbn1 in early zebrafish development
LiChun Tu1, Hsiao Kuang-Ming1, Pan Huichin1 (IMB1, DBS2)

P-1087  Distribution and function of Oct25-expressing cells in the organogenesis of Xenopus laevis embryo
アフリカツメガエルの器官形成における Oct25 発現細胞の分布と機能の解析
Takashi Yamaura1, Hiroyuki Yaguchi2, Yuta Katayama1, Hideo Kubo2, Keisuke Morichika1, Tsutomu Kinoshita1 (Dept. of Life Sci., Fac. of Sci., Rikkyo Univ.1, Dept. of Med. Biol., Tokyo Met. Inst. of Med. Sci.2)

P-1088  The developmental role of phosphatase of regenerating liver in Drosophila
F. Hsin-Lun Hsien1, Chun-Hong Chen3, Zih-Yuan Shen2, Yu-Di Chang1, Ming-Der Lin1,2 (TCU Taiwan1, TCU, Taiwan2, NHRI, Taiwan3)

P-1089  How do adult mammalian cardiomyocytes maintain the proliferation arrest?
どのようにして哺乳類の成体心筋細胞は増殖停止を維持し続けるのであろうか?
Shoji Tane1, Satoshi Yoshitome1, Yukio Satoh1, Noriko Iwamoto4, Toshinori Hayashi1, Takashi Takeuchi1 (Dev. Biosignal., Sch. Life Sci., Tottori Univ.1, Dev. Pathol. Biochem., Sch. Life Sci., Tottori Univ.2)

P-1090  MicroRNA-21 expression triggered by heartbeat contributes to cardiac valve formation
心拍に誘導される MicroRNA-21 は心臓弁形成に関与する
Toshihiro Banjo1, Minoru Omi1, Kota Miyasaka1, Yasuyuki Kida1, Toshihiko Ogura1 (IDAC, Tohoku Univ.1, Salk Inst.2)

P-1091  The Roles of Sox2 and Sox18 in mouse hair type specification
Bryan Ho1, Charles Cheng1, Keith Leung1, Peter Koopman2, Kathy Cheah1 (HKU1, University of Queensland2)

P-1092  Cellular aspects of heart formation and LR asymmetric morphogenesis
細胞のキラリティによるショウジョウバエ上皮組織の左右非対称性の形態形成
Hinako Kidokoro1, Koji Tamura2, Masataka Okabe1, Gary C. Schoenwolf1, Yukio Saijoh1 (Dept. of Neurobiology & Anatomy, University of Utah1, Dept. of Developmental Biology & Neurosciences, Tohoku University1, Dept. of Anatomy, The Jikei University School of Medicine2)

P-1093  Stem cell markers ABCG2, Bmi-1, Oct-3/4, and Yap in the developing mouse incisor
Hyuk-Jae Kwon, Liwen Li, Eizo Nakagawa, Li Zhang, Sung-Won Cho, Han-Sung Jung (YUCD)

P-1094  Planar cell chirality contributes to left-right asymmetric epithelial morphogenesis in Drosophila
細胞のキラリティによるショウジョウバエ上皮組織の左右非対称性の形態形成
Reo Maeda1,2, Chihiro Taniguchi1,2, Tadashi Ando1, Naotaka Nakazawa1, Ryu Hatori1, Mitsutoshi Nakamura1, Takashi Okumura1, Kenji Matsuno1,2 (Dept.of Biol.Sci./Tec., Tokyo Univ. of Sci.1, Res.Ins. Sci./Tec., Tokyo Univ. of Sci.2, equally contribution)

P-1095  TGF-beta signaling pathway using ALK5 may be involved in the heart laterality of blind cavefish (Astyanax mexicanus) embryo
ALK5 を経由する TGF-beta シグナル伝達経路は洞窟魚胚の心臓左右性決定に関与している。
Kazue Mogi1, Kohei Igarashi1, Tsuyoshi Kobayashi1, Ryuji Toyoizumi1,2 (Res. Inst. for Integrated Sci., Kanagawa Univ.1, Dept. of Biol. Sci., Kanagawa Univ.2)

P-1096  Investigation of the molecular mechanism that recruit spicule-carrying transport cells to their holding-up points in a freshwater sponge
カワカイメンの骨片運搬細胞を誘導する骨片配置メカニズムの解明に向けて
Yudai Nakata, Kiyokazu Agata, Noriko Funayama (Dept. of Biophys., Graduate School of Science, Kyoto Univ.)
P-1097 MiR-200b is involved in epithelial–mesenchymal transition through Tgf-β signaling and is required for mammalian palate development

Jeong-Oh Shin¹, Jong-Min Lee¹, Kyoung-Won Cho¹, Sungwook Kwak¹, Min-Jung Lee¹, Kye-Seong Kim¹, Han-Sung Jung¹ (Division in Anatomy and Developmental Biology, YUCD¹, Department of Anatomy and Cell Biology, College of Medicine, Hanyang University, Seoul, Korea¹)

P-1098 Roles of cell-shape change mediated by Wnt signaling in fin morphogenesis

ヒレの発生においてWNT経路を介した細胞形態変化が器官のかたちを作る

Tohru Yano¹, Gembu Abe², Koichi Kawakami², Hitoshi Yokoyama¹, Koji Tamura¹ (Dept. Dev. Biol. and Neurosci., Grad. Sch. Sci., Tohoku Univ.¹, Mol. Dev. Biol., NIG², JSPS³)

P-1099 The C.elegans spectraplakin VAB-10 regulates nuclear migration by linking actin and microtubule cytoskeletons in the gonadal distal tip cells

線虫スペクトラプラキンの細胞移動における役割について

Hon-Song Kim¹, Ryoko Murakami²,³, Katsuyuki Tamaï, Kiyotaka Okhura¹, Sophie Quintin¹, Michel Labouesse¹, Hiroshi Sakamoto¹, Kiyoji Nishiwaki¹ (Dept. of Biosci., Kwansei-Gakuin Univ.¹, RIKEN, CDB², Sci. and Tech. Kobe Univ.¹, Dep. of Cell and Dev. Bio., IGBMC, CNRS/INSERM/Univ.⁴)

P-1100 Functional alteration of the Gbx2 transcription factor during zebrafish brain development

ゼブラフィッシュ胚発生に伴うGbx2の脳形成制御機能の変化


P-1101 A H3K27 demethylase, Jmjd3, is essential for Xenopus eye development

Aki Kawai, Haruki Ochi, Norihiro Sudou, Hajime Ogino (NAIST)

P-1102 Functional analysis of histon methylase G9a and GLP in mouse cardiac development

ヒストンメチラーゼG9aとGLPの心筋特異的欠損マウスにおける心臓形態形成異常の解析

Tomoyuki Makino¹, Makoto Tachibana², Yoichi Shinkai², Takashi Takeuchi² (Tottori Univ., Sch. Life Sci., Div. Biosignal.¹, IVR, Kyoto Univ.³)

P-1103 ftz-f1 and blimp-1 are required for the pupal development in Drosophila

Abdelrahman Sultan¹, Hitoshi Ueda¹,² (Grad. Sch. of Nat. Sci. and Tech., Okayama University¹, Dep. of Bio., Fac. of Sci., Okayama Univ.²)

P-1104 Three-dimensional cellular vertex model for epithelial morphogenesis

上皮形態形成シミュレーションのための三次元細胞頂点モデル

Sangwook Lee, Yoshihiro Morishita (Kyushu Univ.)

P-1105 Postembryonic development of the lateral line neuromasts in zebrafish

ゼブラフィッシュ側線器官の後胚発生

Hironori Wada¹,², Koichi Kawakami¹ (PRESTO, JST², NIG³, SOKENDAI²)

P-1106 Class III POU factors directly regulate Otx2 expression by binding to the forebrain and mid-brain enhancer

クラスIIIPOU転写因子によるOtx2遺伝子の転写制御機構

Fumitaka Inoue¹, Maiko Takahashi¹, Daisuke Kurokawa¹,², Nobuyoshi Takasaki¹, Tomomi Ohmura¹, Kyo Yamasu¹, Shinichi Aizawa¹ (RIKEN, CDB², MMBS, Univ. Tokyo², RCMG, AIST³, Div. Life Sci., Grad. Sch. Sci. Eng., Saitama Univ.)
P-1107 Regulatory mechanisms of ecdysteroid-inducible Blimp-1 encoding a transcriptional repressor in the timer system to determine the prepupal period in Drosophila melanogaster
キイロショウジョウバエの前蛹期間を決めるタイマー機構における Blimp-1 の遺伝子発現制御
Kazutaka Akagi1, Hitoshi Ueda1,2 (Glad. Sch. of Nat. Sci. and Tech., Okayama Univ.1, Dept. of Bio., Fac. of Sci., Okayama Univ.2)

P-1108 Genome-wide prediction of POU/SOX factor dependent regulatory modules involved in the developmental processes
Munazah Andrabi, Hisato Kondoh (FBS)

P-1109 Epigenetic regulation of gene expressions during leg regeneration in the two-spotted cricket, Gryllus bimaculatus
フタホシコオロギの脚再生におけるエピジェネティックな遺伝子発現制御
Yoshimasa Hamada, Tetsuya Bandou, Yuji Matsuoka, Taro Nakamura, Taro Mito, Hideyo Ohuchi, Sumihare Noji (Univ. of Tokushima, Fact. of Eng. Dept. of Bio. Sci. and Tech.)

P-1110 Gene silencing by the dynamics of polycomb-group protein complexes
ポリコーム群ダイナミクスによる遺伝子抑制
Kyoichi Isono, Haruhiko Koseki (RIKEN RCAI)

P-1111 Effects of a high-fat diet on gene expression in epididymal white fat and interscapular brown fat
Hyeng-soo Kim, Sanggyu Lee (KNU)

P-1112 Failure of C/EBPα and GATA-1 mediated down-regulation of DACH1 enhances HOXA9 activity in MLL-AF9 mediated myeloid leukemia
Jaewoong Lee, Sanggyu Lee (School of Life Science and Biotechnology, Kyungpook National University)

P-1113 (SW02-10) Long-term Epigenetic Regulation of Region-specific Expression of zic1/zic4, Key Regulators ofVertebrate Body Patterning
背腹パターンを制御する転写因子 Zic のエピジェネティックな発現制御機構の解析

P-1114 Analysis of the transcriptional regulation mechanisms of Fgf10 gene responsible for the mesenchyme-AER interaction in the vertebrate limb development
Yoichi Shiraishi, Hiroaki Higuchi, Shigeki Yamamoto, Mie Horano, Atsushi Kuroiwa (Div.of Biol.Sci., Grad.Sch.of Sci., Nagoya Univ.)

P-1115 (OP03-10) Pgc represses miRNA expression and protects germ plasm RNAs from degradation in Drosophila primordial germ cells
Pgc は、ショウジョウバエ始原生殖細胞での miRNA の転写を抑制し、母性 RNA を保護している
Kazuko Hanyu-Nakamura, Kazuki Matsuda, Akira Nakamura (Lab. for Germline Development, RIKEN CDB)

P-1116 The role of heparan sulfate proteoglycans during Drosophila oogenesis
ショウジョウバエ卵形成過程におけるヘパラン硫酸プロテオグリカンの役割
Yoshiki Hayashi1, Satoru Kobayashi1, Hiroshi Nakato2 (Okazaki Institute for Integrative Bioscience, NIBB1, Dept. of GCD, Univ. of Minnesota2)
P-1117  Derivation of in vitro spermatogenesis competent cells from mouse ES cells without transgenic markers
マーカー遺伝子非組換えマウス ES 細胞に由来する EG 様細胞による雄性生殖系列細胞へのインビトロ分化
Yoshiyasu Ito (NIAS)

P-1118  Analysis of molecular mechanisms of gamete recognition and membrane fusion in Dictyostelium
細胞性粘菌配偶子における識別と融合機構の解析
Kentaro Saeki, Marina Okamoto, Shinichi Kawakami, Akiko Otsuka, Hideko Urushihara (University of Tsukuba)

P-1119  In vitro production of functional sperm in cultured neonatal mouse testes
新生仔マウス精巢片の器官培養法による精原細胞からの精子産生
Takuya Sato, Kumiyo Katagiri, Kimiko Inoue, Narumi Ogonuki, Atsuo Ogura, Yoshinobu Kubota, Takehiko Ogawa (Dept. of Urology, Yokohama City Univ. School of Med., RIKEN, BRC)

P-1120  Germ plasm includes germ cell determinant in Xenopus
Xenopus 生殖細胞質は、生殖細胞運動を決定する因子
Haru Tada, Kenji Watanabe (Grad. Sch. Life Sci, Univ. of Hyogo)

P-1121  Neuregulins are essential in spermatogonial proliferation and meiosis initiation in neonatal mouse testis
Neuregulins は精巢細胞増殖と減数分裂開始に不可欠
Jidong Zhang, Ko Eto, Sebnem Kesaf, Asuka Honmyou, Kazuki Nakao, Hiroshi Kiyonari, Choji Taya, Shin-ichi Abe (GSST, Kumamoto University, CDB, Laboratory of Mouse Model for Human Heritable Diseases, The Tokyo Metropolitan Institute of Medical Science, Tokyo Metropolitan Organization for Medical Research)

P-1122  Requirement of Dbf4 expression for DNA replication in mouse zygote
Dbf4 によるマウス受精卵の染色体複製開始機序の解析
Shin Murai, Yuki KoKatagiri, Yusuke Fukuda, Mineto Morita, Shigeru Yamashita (Dept. of Biochem, Toho Univ, Sch of Med, Dept of Obst and Gyn, Toho Univ, Sch of Med)

P-1123  Essential Roles of Androgen Signaling in Wolffian Duct Stabilization and Epididymal Cell Differentiation
ウォルフ管雄性化過程と精巢上体皮分化過程におけるアンドロゲンシグナルの分子機構の解析
Aki Murashima, Shinichi Miyagawa, Yukiko Ogino, Hisayo Nishita-Fukuda, Kimi Araki, Takahiro Matsumoto, Takehito Kaneko, Kazuya Yoshinaga, Ken-Ichi Yamamura, Takeshi Kurita, Shigeaki Kato, Anne Moon, Gen Yamada (IMEG, Kumamoto University, IRDA, Kumamoto University, IMCB, Univ. of Tokyo, Graduate School of Health Science, Kumamoto University, Feinberg School of Medicine, Northwestern Univ., Program in Molecular Medicine, University of Utah, NIBB, Department of Biochemistry and Molecular Genetics, Ehime Univ., Institute of Health Biosciences, University of Tokushima, ILA, Kyoto Univ.)

P-1124  ECLP regulates primary cilia formation and cilia-related signals in mouse embryo
ECLP はマウス胚における一次繊毛形成と繊毛関連シグナルを制御する
Yanick Botilde, Satoko Yoshiba, Hiroshi Hamada (FBS)
P-1126  A Deubiquitinating Enzyme for Receptor-Smads
Receptor-Smad 脱ユビキチン化酵素による TGFβ シグナルの制御
Masafumi Inui, Andrea Manfrin, Stefano Piccolo (DIMBM University of Padua)

P-1127  Analysis of mesenchymal signaling molecules in multiple tooth root formation using LMD method
Min-A Choi', Wern-Joo Sohn', Hyeng-Soo Kim', Hitoshi Yamamoto', Zae Young Ryoo', Sanggyu Lee', Myoung-Uk Jin', Eui-Kyun Park', Hong-In Shin', Jae-Young Kim' (KNU', Nihon University')

P-1128  A novel cysteine-rich protein Doctor works as a positive regulator of BMP signaling
CR ドメインを持つ新規タンパク質 Doctor は BMP シグナルの正の調節因子として働く
Yuki Moriyama', Shoko Mori', Shinya Matsukawa', Yoshihisa Ohata', Hiroki Kuroda1,2 (GSTT, Shizuoka Univ.1, Dept. of Education (Sciences), Shizuoka Univ.2)

P-1129  A transgenic RNA interference screen for regulators of nutrient-dependent growth in the fruit fly Drosophila melanogaster
ショウジョウバエ RNAi スクリーニングによる栄養依存的成長制御因子の探索
Naoki Okamoto, Takashi Nishimura (RIKEN, CDB)

P-1130  Molecular and cellular dissections for patterned rugae formation in mice
Wern-Joo Sohn', Hitoshi Yamamoto', Ki-Jeong Kwon', Sanggyu Lee', Zae Young Ryoo', Hong-In Shin', Yong-Chul Bae, Han-Sung Jung', Jae-Young Kim' (KNU', Nihon University', Yonsei University')

P-1131  Sedlin and Sedlin-like proteins together have essential functions in yolk-sac visceral endoderm and embryonic development
Caleb Chan', Julian Tanner', Danny Chan', Keith Luk', Kathryn Cheah' (Dept of Biochemistry and CRDG, HKU', Dept of Orthopaedics & Traumatology, HKU')

P-1132  Monosaccharide O-fucose modification of Notch contributes to the folding of the Notch receptor in Drosophila
Notch の O-フコース単糖修飾は Notch 受容体のフォールディングに寄与する
Akira Ishio', Tomonori Ayukawa', Naoki Aoyama', Tetsuya Okajima', Kenji Matsumo' (Dept. Biol. Sci / Tec., Tokyo Univ. Sci.1, Nagoya University Graduate School of Bioagricultural Sciences, Department of Applied Molecular Biosciences')

P-1133  The role of bFGF-p120ctn signaling in regulating axonal filopodial formation during neuro-muscular junction development
Pan Li, Cheng Chen, Raghavan Madhavan, H.Benjamin Peng (H.K.U.S.T.)

P-1134  A Role for Soluble Inositol Polyphosphates in Cell proliferation, Cell Division and Apoptosis in the Development of Drosophila
Man-Kin Tsui', Man-Ying Tin', Andrew Seeds', John York2 (Developmental Signaling Unit, OIST', HHMI', Janelia Farm')

P-1135  Multiple Wnts orient epithelial stem cells in C. elegans
複数の Wnt が線虫の表皮系幹細胞の極性を方向付ける
Yuko Yamamoto1,2, Hisako Takeshita', Hitoshi Sawa1,3 (RIKEN CDB Lab, for Cell Fate Decision', Dep. of Biol., Grad. Sci., Kobe Univ.2, NIG')

P-1136  T-box transcription repressors, XTbx2 and XTbx3, have critical role in ventral ectoderm specification
Gun-Sik Cho, Jin-Kwan Han (POSTECH)
P-1137  Regulation and function of Notch endosomal trafficking
Koji Kawahashi, Housei Wada, Tadashi Sakata, Shigeo Hayashi (CDB)

P-1138  Secreted Frizzled-related proteins (sFRPs) regulate extracellular distribution of Wnt ligands via interactions with heparan sulfate
分泌性 Frizzled 関連蛋白質 (sFRPs) はヘパラン硫酸を介して細胞外の Wnt リガンドの分布を制御する

P-1139  PCP signals regulate neural tube closure through polarized activation of actomyosin cables associated with the adherens junctions
平面内極性シグナルはアドヘレンスジャンクション-アクトミオシンの極性収縮を介して神経管形成を制御する
*Tamako Nishimura*, Masatoshi Takeichi (RIKEN CDB)

P-1140  Analysis of Strawberry Notch1 during mouse development
哺乳類胚発生における Strawberry Notch1 の機能解析
*Yusuke Watanabe*, Minoru Omi, Toshihiko Ogura (IDAC, Tohoku Univ.)

P-1141  Isolated ectoderm is fated to die in early Xenopus embryos
ゼノパス外胚葉での自律的アポトーシス

P-1142  PCP signals regulate neural tube closure through polarized activation of actomyosin cables associated with the adherens junctions
平面内極性シグナルはアドヘレンスジャンクション-アクトミオシンの極性収縮を介して神経管形成を制御する
*Tamako Nishimura*, Masatoshi Takeichi (RIKEN CDB)

P-1143  Left-right asymmetry in Smad2/3 phosphorylation in the node of mouse embryo is translated into asymmetry in the lateral plate
マウス胚ノードにおける Smad2/3 リン酸化の左右非対称性は側板中胚葉における Smad2/3 リン酸化の左右非対称性に変換される

P-1144  Analysis on the relationship between asymmetric expression of pax6 in the habenulae and the Nodal pathway in flounder
ヒラメにおける手綱核の左右非対称な pax6 発現と Nodal 経路の関係についての解析

P-1145  Rest is dispensable for the proper intrinsic regulations of neuronal gene expressions in the specification of cell fate during neurogenesis in vivo
神経分化抑制遺伝子 Rest は高度に制御された in vivo での神経細胞の運命決定を障害しない
*Hitomi Aoki*, Akira Hara*, Takahiro Kunisada*, Yasuhiro Yamada* (RAMS Gifu*, Department of Tumor Pathology, Regeneration, and Advanced Medical Science, Gifu University Graduate School of Medicine2, PRESTO*, CiRA, iCeMS*)
P-1146 Requirement and functional redundancy of Smad1 and Smad5 in cerebellar granule neurons development
Ka Kui Tong¹, Richard Behringer², Kin Ming Kwan¹² (SLS, CUHK¹, UTMDACC², CCDB, CUHK³)

P-1147 Analysis of Hes1 function in Hedgehog signaling during mouse retinal development
マウス網膜発生における Hedgehog シグナルと Hes1 の機能解析
Kiyo Sakagami¹, Kelly Cadenas¹, Takahiro Ohara¹, Ryoichiro Kageyama¹, Xuqian Mu¹, William Klein¹, Xianjie Yang¹² (UCLA, JSEI¹, UCLA, MBF², Kyoto Uni. IVR³, SUNY, Buffalo, REI¹, UT, MD, Anderson, BMB³)

P-1148 HDAC1 regulation of Notch signaling during spinal cord formation
Hidekiyo Harada¹², Halley Pamela¹, Storey Kate¹ (Univ. of Dundee¹, Tohoku Univ.²)

P-1149 Mapping a New Upstream Regulator of Pax6 in Neuronal Development
Yalan Zhang¹, Yi Zhang², Youqiang Song¹ (HKU¹, Department of Cellular and Molecular Medicine, University of Ottawa², HKU³)

P-1150 A kinase anchoring protein 11(AKAP11)modulates cell survive and patterning of the neural tube through regulation of hedgehog receptor, Patched1 and transducer, Smoothened
Kazushi Aoto, Paul Trainor (SIMR)

P-1151 Expression and localization of rdd, a novel secretory protein, in Xenopus embryo
新規分泌性タンパク質 rdd のツメガエル胚における発現と局在
Yutaka Mashima¹, Jong-chan Lim¹, Sayaka Kurihara¹, Rie Tamaki¹, Yumi Izutsu², Mitsugu Maéno² (Grad. Sch. Sci., Niigata Univ.¹, Dept. Biol., Fac. Sci., Niigata Univ.²)

P-1152 Notch signaling regulates the spatial balance of lung epithelial cells
呼吸器上皮細胞の適切な空間配置は Notch シグナルによって決定する
Mitsuru Morimoto¹², Yumiko Saga¹, Raphael Kopan¹ (NIG¹, WashU²)

P-1153 Fgf8 may function as a nuclear factor
核内 FGF8 の作用機構の解析
Ayumu Suzuki¹, Hidekiyo Harada¹, Harukazu Nakamura¹² (Grad., Life Sci. DiC. Tohoku Univ.¹, IDAC²)

P-1154 Constitutively active β-catenin partially rescues the mammary gland defect in mouse embryos lacking Gli3
May Yin Lee, Van Quynh Thu Duong, Jacqueline Veltmaat (A*STAR IMCB)

P-1155 Neuronal versus sensory epithelial fate choice is controlled by Notch signaling in the zebrafish lateral line system
ゼブラフィッシュの側線において Notch シグナルは神経と感覚上皮の運命決定を制御する
Takamasa Mizoguchi¹, Satoshi Togawa², Motoyuki Itoh¹² (IAR, Nagoya Univ.¹, Divi. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ.²)

P-1156 TGFβ signaling is essential for sex differentiation of male germ cells
Quan Wu¹, Rie Saba¹, Kohei Kanata², Hiroshi Hamada², Yumiko Saga¹ (NIG¹, Developmental Genetics Group, Graduate School of Frontier Biosciences, Osaka University²)

P-1157 Muscle-specific overexpression of Akirin1 activates myogenic regulatory factors and IGF2b that leads to muscle hypertrophy in transgenic zebrafish
Chih-Chi Chen¹, Meng-Chuen Hu¹, Jen-Leih Wu¹, Yen-Hsing Li², Shao-Yang Hu³, Koichi Kawakami⁴, Hong-Yi Gong¹ (NTOU¹, ICOB, AS², NPUST³, NIG⁴)
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<td>A novel Wnt signal modifier, CANCRIN works as a neural crest specifier</td>
<td>Sei Kuriyama, Tadahiro Tuji, Masamitsu Tanaka (Akita University)</td>
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<td>Sebnem Kesaf, Jidong Zhang, Ko Eto, Tomosuke Nagano, Asuka Honnyou, Choji Taya, Shin-ichi Abe (GSST, The Tokyo Metropolitan Institute of Medical Science, Tokyo Metropolitan Organization for Medical Research)</td>
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<td>Tsukushi is involved in the neuronal stem/progenitor cells proliferation as a Wnt signaling inhibitor</td>
<td>Kunimasa Ohta, Ayako Ito, Hideaki Tanaka (Dept. of Dev. Neurobiol., Kumamoto Univ. Grad. Sch. of Life Sci., Global COE, Kumamoto University)</td>
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<td>P-1161</td>
<td>Analyses of the Role of ERBB4 in Meiotic Initiation using Germ Cell-Specific ErbB4 Dominant Negative Transgenic Mice</td>
<td>Sebnem Kesaf, Jidong Zhang, Ko Eto, Tomosuke Nagano, Asuka Honnyou, Choji Taya, Shin-ichi Abe (GSST, The Tokyo Metropolitan Institute of Medical Science, Tokyo Metropolitan Organization for Medical Research)</td>
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<td>Kota Abe, Hayato Yokoi, Tohru Suzuki (Grad Schl Agricul Sci, Tohoku Univ)</td>
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<td>Effects of ectopic expression of LIM-homebox transcription factor lhx2 on in vitro differentiation of ESCs/iPSCs</td>
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P-1168 (OP03-08) Development of an in vitro chimera-assay to clarify chimera-forming ability for human induced pluripotent stem cells

Hideki Masaki, Yukiko Wakiyama, Tomoyuki Yamaguchi, Hiromitsu Nakauchi (Nakauchi Stem Cell and Organ Regeneration Project, JST)

P-1169 Acquisition of the differentiation capacity in P19 embryonal carcinoma cells through HP1γ expression

Kumi Morikawa, Nobuhito Ikeda, Ichiro Hisatome, Yasuaki Shirayoshi (Dept. of Regenerat. Med. & Therapeut., Grad. Sch. of Med. Sci., Tottori Univ.)

P-1170 A Drosophila GATA transcription factor gene, GATAe, is required for maintaining adult intestinal stem cells

Takashi Okumura, Takashi Adachi-Yamada (Dept. of Life Science, Gakushuin Univ)

P-1171 Gene expression analysis of the neural stem/progenitor cells in adult zebrafish optic tectum after eye removal

Hideomi Tanaka1,2, Yoko Ito1, Hitoshi Okamoto1,2, Toshio Ohshima1 (Waseda Univ. Dept. of Life Science and Medical Bio-Science, Lab. for Developmental Gene Regulation, RIKEN BSI)

P-1172 Different responsibility of mammalian germinal stem cell to cell damage stress between growth phase and mature phase

Natusko Iyoda2, Mai Akihisa2, Yoko Sawada2, Michiyo Endo2, Satoshi Tateishi1, Kentaro Yomogida1 (IBS, Dept.of Food Scis.& Nutrition, Sch.of Human Environ.Scis., Mukogawa Women’s University2, IMEG3)

P-1173 Loss of MT1-MMP facilitates iPSCs self-renewal

Jin Zhou, Zhongjun Zhou (Department of Biochemistry, Faculty of Medicine, The University of Hong Kong)

P-1174 In-vivo imaging of the fracture healing process in medaka

Kazuhiro Takeyama, Masahiro Chatani, Keiji Inohaya, Akira Kudo (Department of Biological Information, Tokyo Institute of Technology)

P-1175 Regulatory mechanism of blastemal cells mediated by polarity complexes via Dachsous/Fat and Hippo/Salvador/Warts pathway during leg regeneration in Gryllus bimaculatus

Tetsuya Bando1, Yoshimasa Hamada1, Taro Nakamura1, Taro Mito1, Hideyo Ohuchi1, Sumihare Noji1 (Dept. of Life Systems, Univ. of Tokushima1, VBL. Univ. of Tokushima2)

P-1176 Molecular basis for the anterior-posterior patterning during planarian regeneration

Yoshihiko Umesono1, Junichi Tasaki2, Shigenobu Yazawa1, Kazu Itomi1, Kiyokazu Agata2 (RIKEN CDB1, Dept. Biophysics, Kyoto Univ.2, gCOE, Kyoto Univ.1)
P-1177 Colonization of the aganglionic hindgut segment by neural crest stem cells
Lihua Bao¹, Alan Burns², Mai Har Sham³, Wood Yee Chan¹ (CUHK¹, UCL ICH², HKU³)

P-1178 Characterization of EpiSC subpopulations with developmental potentials to distinct neural plate domains
神経板の異なった領域への分化特性を持つ EpiSC 群
Kazunari Matsuda, Makiko Iwafuchi-Doi, Hisato Kondoh (Grad. Sch. of Frontier Biosci., Osaka university)

P-1179 Analysis of genes required for the maintenance of epithelial stem cell shape in C. elegans
RNAi スクリーニングによる線虫の上皮系幹細胞の形態の維持に必要な遺伝子の探索
Tomomi Takano¹, Noriko Sasakawa¹, Mayumi Shibuya¹, Hitoshi Sawa¹ (RIKEN CDB¹, NIG²)

P-1180 A Pax3/Dmrt2/Myf5 Regulatory Cascade Functions at the Onset of Myogenesis
骨格筋発生開始期における Pax3/Dmrt2/Myf5 の連続的な制御機構の解明
Takahiko Sato¹,², Didier Rocancourt², Sölveig Thorsteinsdóttir¹, Margaret Buckingham² (CiRA¹, Pasteur Institute², University of Lisbon³)

P-1181 Nuclear dynamics in chromosome territories and gene loci under in vitro differentiation of mouse embryonic stem cells
マウス胚性幹細胞の分化過程における細胞核染色体テリトリーと遺伝子座の動態
Sho Kawaguchi¹, Daiki Hirano¹, Yoshihiko Hosoi², Masayuki Anzai², Hideyuki Tanabe³, Tasuku Mitani² (Grad. Sch. BOST, Kinki Univ.¹, Inst. Adv. Technol., Kinki Univ.², Dept. ESB, Sch. Adv. Sci., The Grad. Univ. Adv. Studies (Sokendai)³)

P-1182 Multipotent cell regulation in sea urchins
ウニ多分化能細胞の調節機構
Mamiko Yajima, Wesse Gary (BioMed MCB department, Brown University)

P-1183 Methyl-binding domain(MBD)protein applications for hypermethylated genes identification in cloned porcine and cancer cells
クローネ黒豚、がん細胞のメチル化遺伝子の識別のためのメチル結合ドメイン（MBD）タンパク質のアプリケーション
Chih-Jie Shen¹, Jinyi Cheng², Erh-Hsuan Hsieh³, Hsiao-Ling Chen¹, Chuan-Mu Chen¹ (NCHU¹, CTUST², DYU³)

P-1184 The establishment of a screening system for low molecular compounds for β cell inducing activity
腎β細胞の分化を促進する低分子化合物スクリーニングシステムの構築
Masateru Kataoka¹, Daisuke Sakano¹², Nobuaki Shiraki¹, Kazuhiko Kume¹, Shoen Kume¹ (Dept. of Stem Cell Biol, IMEG., Kumamoto Univ¹, GCOE Kumamoto Univ, Kumamoto Japan³)

P-1185 High Patronage of Infertility Treatment Among Ghanaian Women
Ebenezer Frimpong¹ (TSMU¹, N/A²)

P-1186 In-cell tracking of jazf1 by fluorescent nanocrystal, quantum dot
Shijin Sung, Sanggyu Lee (KNU)
Poster Sessions: May 20 (Fri) P-2001～P-2187

Presentation times: Even-numbered, 16:30-17:30
Odd-numbered, 17:30-18:30

P-2001 Hydrolyzed eggshell membrane immobilized on phosphorylcholine polymer supplies extracellular matrix environment for human dermal fibroblasts

Yoriko Atomi1, Eri Ohto-Fujita2, Tomohiro Konno3, Miho Shimizu2, Kazuhiko Ishihara1, Toshihiro Sugitate1, Jun Miyake1, Kotaro Yoshimura1, Kaori Taniwaki1, Takashi Yamamoto2, Sumihare Noji1 (Radioisotope Center, Univ. of Tokyo, Grad. Sch. of Info. Sci. and Tech., The Univ. Tokyo, Dep. Bioeng., Sch. of Eng., The Univ. Tokyo, Dep. of Plastic Surgery, Grad. Sch. of Med., The Univ. Tokyo, Almado Inc., De. of Life Sci., Grad. Sch. of Arts & Sci., The Univ. Tokyo)

P-2002 RC-RNase induce brain tumor cells death whereas increase the survival rate of tumorigenicity in nude mice

Mark Chen1, Giou-Teng Yiang2, Chyou-Wei Wei3, Yung-Luen Yu4, Yi-Lin Chen5, Jaang-Jiun Wang6, Ye-Fan Lin3, Sheng-Chuan Hu2 (DBHKU, Department of Emergency Medicine, Buddhist Tzu-Chi University and General Hospital, Institute of Clinical Nutrition, Hungkuan University, Graduate Institute of Cancer Biology and Center for Molecular Medicine, China Medical University and Hospital, Graduate Institute of Biotechnology, National Ilan University, Division of Pediatric Infectious Diseases, Emory University School of Medicine)

P-2003 Heat stress induces the co-aggregation of Drosophila P-body components with stress granules in nurse cells

Szu-Jing Huang1, Ming-Der Lin1,2 (TCU, Taiwan, TCU, Taiwan)

P-2004 Human MOB2 promotes hepatocarcinoma cells migration through Erk signaling pathway

Cheng-Han Lin, Chen-Po Hu, Seng-Sheen Fan (Department of Life Science, Tunghai University)

P-2005 Mechanical stretching promotes myoblasts differentiation and induces muscle-like macrostructure

Maiko Ogawa1, Kota Miyasaka1, Masahiro Shimizu1, Ko-iichiro Miyamoto2, Hajime Takeda2, Shintaro Yawata1, Toshihiko Ogura1 (IDAC, ECEF, IST)

P-1187 Femtosecond laser-introduction of bionanomolecules in targeted single cells of living vertebrate embryos

Mikiko Tanaka1, Haruki Ochi2, Takanori Iino3, Akihiro Hiraoka3, Yoichiroh Hosokawa1 (Grad. Sch. of Biosci. & Biotechnol., Tokyo Inst. of Technol., Grad. Sch. of Biosci., NAIST, Grad. Sch. of Materials Sci., NAIST)

P-1188 Targeted manipulation of genes with zinc finger nucleases in the cricket, Gryllus bimaculatus

Takahito Watanabe1, Hiroshi Ochiai2, Tetsushi Sakuma2, Taro Mito1, Taro Mitoh1, Hideyo Ohuchi1, Takashi Yamamoto2, Sumihare Noji1 (Dept. of Life Systems, Inst. of Tec. and Sci., Univ. of Tokushima, Dept. of Math. and Life Sci., Grad. School of Sci., Hiroshima Univ.)
P-2006 Spatio-temporal pattern of non-muscle myosin II activity in zebrafish neurulation
Makoto Suzuki, Naoto Ueno (NIBB)

P-2007 TSPYL2 Is Important for G1 Checkpoint Maintenance upon DNA Damage
Kin Pong Tao, Yick Pang Ching. Siu Yuen Chan (HKU)

P-2008 Melanosome transfer during skin pigmentation: a novel method to study intercellular signaling between melanocytes and keratinocytes in vivo
Hidetaka Murai, Ryosuke Tadokoro, Ken-ichiro Sakai, Yoshiko Takahashi (NAIST)

P-2009 Lack of β1 integrin in the developing mouse notochord results in hemivertebrae
Kathryn Cheah, Shengzhen Guo, Sarah Wynn, Tiffany Au, Attila Aszodi, Reinhard Fassler, Danny Chan (Department of Biochemistry, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Max Planck Institute of Biochemistry, Department of Molecular Medicine)

P-2010 Role of miR-124 in neural development of medaka, Oryzias latipes

P-2011 Analysis of Hox genes in Polypterus senegalus, a living ancestor model of tetrapods
Yoshiro Nakano, Naoto Juni, Phillip Ingham, Masato Umeda (Hyogo College of Medicine, Grad. Sch. Engineering, Kyoto Univ., IMCB, Singapore)

P-2012 Cancelled

P-2013 Differential expression patterns of cell-type markers between the cellular slime mold species with or without somatic cell differentiation
Hitoshi Saito, Kiyokazu Agata, Noriko Funayama (Dept. Biophys., Grad. Sch. Sci., Kyoto Univ.)

P-2014 Evolution and function of the Pter (patched-related) gene family
Yoshiro Nakano, Naoto Juni, Phillip Ingham, Masato Umeda (Hyogo College of Medicine, Grad. Sch. Engineering, Kyoto Univ., IMCB, Singapore)

P-2015 Establishing the first gene functional analysis system in sponge: RNAi method in Ephydatia fluviatilis
Kazuko Okamoto, Kiyokazu Agata, Noriko Funayama (Dept. Biophys., Grad. Sch. Sci., Kyoto Univ.)

P-2016 Role of p53/p63 in Chondrocyte Re-differentiation Upon Activation of ER Stress
Lim Cho Steven Pei, Cheuk Wing Chan, Kwok Yeung Tsang, Alea Mills, Chi Hang Cheung, Danny Chan (Dept. of Biochemistry, HKU, Cold Spring Harbor Laboratory, New York, USA)

P-2017 Mesodermal origin of scales and fins of fish - Insight into origin and evolution of mineralized skeleton in vertebrates
P-2018 A mammalian conserved element derived from SINE enhances Satb2 expression in projection neurons across corpus callosum
脳梁形成に関わる Satb2 遺伝子の SINE 由来エンハンサーの機能解析
Kensuke Tashiro1, Naoki Kobayashi1, Anne Teissier2, Akiko Nakanishi1, Takeshi Sasaki1, Kuo Yan1, Victor Tarabykin2, Kenta Sumiyama1, Naruya Saitou1, Mika Hirakawa1, Hajime Ogino1 (NAIST)

P-2019 Germ cell formation in cephalochordate amphioxus
Hui-Ru Wu1, Yen-Ta Chen1, Yi-Hsien Su1, Yi-Jyun Luo1, Linda Holland1, Jr-Kai Yu1,3 (ICOB AS1, SIO UCSD2, IONTU3)

P-2020 Developmental mechanism for determining the number of digits in chicken limbs
ニワトリ胚肢芽の予定運動図作成による指の本数決定機構の解析
Naoki Nomura, Hitoshi Yokoyama, Koji Tamura (Grad. Sch. Sci., Tohoku Univ.)

P-2021 Molecular basis for heterochronic development of marsupial cranial neural crest
有袋類における頭部神経堤の異時的発生様式の分子基盤
Yoshio Wakamatsu1, Noriko Osumi1, Kunihiro Suzuki2 (Div. of Dev. Neurosci., Tohoku Univ. Grad. Sch. of Med.1, Nihon Univ. Sch. of Dent. Matsudo2)

P-2022 Optic nerve development and brain patterning of lamprey and amphioxus implies the evolutionary origin of form vision
脊椎動物形態視の進化的起源 — ナメクジウオ・ヤツメウナギの神経発生から —
Daichi Suzuki1, Yasunori Murakami1, Hiroshi Wada1 (Univ. Tsukuba1, Grad. Sci. & Eng., Ehime Univ.2)

P-2023 The mechanosensory paratympanic organ is derived from a distinct neurogenic placode
Paul O’Neill1, Raj Ladher1, Clare Baker2 (RIKEN CDB1, University of Cambridge2)

P-2024 Identification and characterization of steroidogenic enzymes that are involved in insect ecdysone biosynthesis
昆虫のエクジソン生合成に関与する酵素の同定と機能解析
Sora Enya1, Yuko Shimada-Niwa1, Tetsuro Shinoda2, Ryusuke Niwa1 (Grad. Sch. Life Environ. Sci., Univ. Tsukuba1, NIAS2)

P-2025 A pair of duplicated enhancers controls both a fail-safe regulation for development and adaptation to environmental stress
Haruki Ochi, Chihiro Uchiyama, Akane Kawaguchi, Tomoko Tamai, Hajime Ogino (NAIST)

P-2026 Long-range interactions in spatio-temporal regulation of Hox genes along the anterior-posterior body axis Drosophila melanogaster
Narendra Singh, Rakesh Mishra (CCMB)

P-2027 Investigation of the germ plasm localization mechanism of Vasa protein
Szu-Chieh Wang1, Gee-Way Lin1, Chun-Che Chang1, Ming-Der Lin1,2 (TCU Taiwan1, NTU Taiwan2)

P-2028 Different modes of dynamic gene expression involved in animal segmentation: oscillating vs. splitting
動物の体節形成に関わるダイナミックな発現：振動モードと分裂モード
Masaki Kanayama1,2, Yasuko Akiyama-Oda1, Osamu Nishimura1,2, Hiroshi Tarui1, Kiyokazu Agata4, Hiroki Oda1,2 (JT BRH1, Osaka Univ.2, CDB3, Kyoto Univ.4)
P-2029 UCH37, deubiquitinase positively regulates activin/nodal signaling in mesoderm formation of Xenopus embryos
  ©Hyemin Choi, Jin-Kwan Han (POSTECH)

P-2030 Microtubule-dependent dorsal determination in zebrafish
ゼブラフィッシュにおける微小管依存性の背側決定機構
Ryoko Seki, Hiromu Hino, Takashi Shimizu, ©Masahiko Hibi (Nagoya Univ.)

P-2031 HpSumf1, the sea urchin Hemicentrotus pulcherrimus homolog of sulfatase modifying factor 1, is involved in activation of sulfatases required for control of skeletogenesis
バフンウニ Sumf1 (HpSumf1) は骨片形成制御に必要なスルファターゼの活性化に関与する
©Tetsushi Sakuma, Kazuya Ohnishi, Kazumasa Fujita, Naoaki Sakamoto, Takashi Yamamoto (Dep. of Math. and Life Sci., Grad. Sch. of Sci., Hiroshima Univ.)

P-2032 Common molecular features in organizer formation and axial patterning in Eumetazoa
後生動物の進化上保存されたオーガナイザー形成および体軸パターンを制御するシグナル
©Hiroshi Watanabe, Suat Özbek, Luis Alberto Bezares Calderon, Thomas Holstein (Heidelberg Institute of Zoology)

P-2033 The role of Tbx2 in otic placode formation and invagination
©Jin Jea Sung, Gun-Sik Cho, Wonhee Han, Nam-Hee Kim, Jin-Kwan Han (POSTECH)

P-2034 Comparative analysis of gene expression patterns in mouse and chick developing epithalamus
脊椎動物視床発生時における遺伝子発現のマウス会話トトラ間比較解析
©Asuka Suzuki-Hirano, Aya Yoshida, Tomomi Shimogori (BSI, RIKEN, JSPS Research Fellow)

P-2035 Parallel inputs and interlinked feedback loops ensure 99.99% canalization by establishing left and right asymmetry of Cerl2 around the mouse node
マウスノードでは2種類の入力と連結したフィードバック回路がCerl2の左右非対称性を安定につくる
©Tetsuya Nakamura, Aiko Kawasumi, Owen Tampilin, Daisuke Saitoh, Kyoosuke Shinohara, Atsuko Takamatsu, Atsushi Mochizuki, Hiroshi Hamada (Osaka university, Waseda univ., HHMI, RIKEN)

P-2036 Identification of new cell population required for myogenesis
筋分化を制御する新規細胞集団の同定
©Yoshitaka Kimura, Takahiko Sato, Tomohiro Kurisaki, Atuko Sehara-Fujisawa (Institute for Frontier Medical Science, Kyoto university, CiRA)

P-2037 Integration of segmentation clock and FGF signaling generates segmental pattern of somite
分節時計とGFシグナルの統合による、体節の等間隔パターンの形成
©Ryutaro Akiyama, Miwa Masuda, Takaaki Matsui, Yasumasa Bessho (NAIST)

P-2038 Regulation of Zebrafish Embryonic Cell Migration and Patterning by Steroids
©Bon-chu Chung (IMB, Acad Sinica)

P-2039 Notch signal is long range surviving factor in zebrafish skin pattern formation
Notchシグナルは、ゼブラフィッシュの模様形成における長距離の活性化機構を担う
©Hiroki Hamada, Masakatsu Watanabe, Shigeru Kondo (FBS)
P-2040  Phenotypic analyses of zebrafish *shippo-saki-marumari* mutant that shows the defects in skeletal muscle formation
骨格筋形成に異常を示すゼブラフィッシュ *shippo-saki-marumari*変異体の表現型解析
Kentaro Hirose1, Ryo Hirabayashi1, Takamasa Mizoguchi1, Toshiaki Izawa1, Atsushi Kuroiwa2, Yutaka Kikuchi2 (Dep. of Biol. Sci., Grad. Sch. of Sci., Hiroshima Univ., Dep. of Biol. Sci., Grad. sch. of Sci., Nagoya Univ.)

P-2041  Membrane potential shifts caused by direct contact between pigment cells generate the stripe pattern of zebrafish
色素細胞間の接触による膜電位変化はゼブラフィッシュの模様形成に寄与する
Masafumi Inaba, Masakatsu Watanabe, Shigeru Kondo (FBS)

P-2042  Analysis of Hox genes’ functions in craniofacial morphogenesis using recombinase mediated cassette exchange system that induces ectopic expression of Hox genes
レコンビナーゼカセット変換法によるHox遺伝子の異所性発現系を用いた頭顔部におけるHox遺伝子の機能解析
Taro Kitazawa, Kou Fujisawa, Yuichiro Arima, Yukiko Kurihara, Hiroki Kurihara (Dept. Physiol. Chem. & Metab., Grad. Sc. of Med., Univ. of Tokyo)

P-2043  Left-sided expression of *pitx2* at dorsal diencephalon and gut is maintained throughout larval development in flounders for metamorphic morphogenesis
ヒラメでは間脳上部と腸の左特異的 *pitx2*発現が変態期に起こる器官形成のために仔魚発生を通じて維持される

P-2044  The Involvement of Xenopus Nectin-like-2 (xNecl2) in Convergent Extension movements during Xenopus Gastrulation
Hyeyoon Lee1, Jin-Kwan Han2 (POSTECH1, POSTECH2)

P-2045  Polarized membrane localization of PTEN based on multiple states with different diffusion coefficients revealed by single-molecule imaging
Satomi Matsuoka, Masahiro Ueda (Graduate School of Frontier Biosciences, Osaka University)

P-2046  Involvement of Pax6 in the retinal pigment epithelium development
Daisuke Nishihara1, Akiha Kawasaki-Nishihara1, Nagaharu Tsukiji2, Harukazu Nakamura1, Hiroaki Yamamoto (Grad. Sch. of Life Sci., Tohoku Univ., Mammal. Genet. Lab., NIG3, Fac. of Biosci., NIBST3)

P-2047  Conditional knockout of Lgr4 leads to impaired ductal elongation and branching morphogenesis in mouse mammary gland
Lgr4欠損マウスにおける乳腺の発達不全
Kazunori Oyama1, Yasuaki Mohri1, Mizuki Sone1, Akihiro Nawa2, Katsuhiko Nishimori1 (Lab. Mol. Biol., Grad. Sch. of Agr. Sci., Univ. of Tohoku1, Dep.Ob/Gyn, Grad. Sch. of Med, Univ. of Nagoya2)

P-2048  Somitic Filopodia are Required for Dorsal Aorta Transposition
体節のフィロポディア突起は背側大動脈のトランスポジション現象に必須の役割を果たす
Yuki Sato, Kei Nagatoshi (Priority Organization for Innovation and Excellence, Kumamoto Univ.)
P-2049 (OP01-10) The adherens junction serve as a switch for neurogenesis by facilitating Notch-Delta interaction in the vertebrate CNS
Jun Hatakeyama, Kenji Shimamura (Div. of Brain Morphogenesis, IMEG, Kumamoto Univ.)

P-2050 Possible Functions of Dpp in gastropod shell formation and shell coiling
巻貝の貝殻形成における Dpp の機能解析
Keisuke Shimizu1, Isao Sarashina2, Hiroyuki Kagi3, Kazuyoshi Endo4 (Univ. of Tsukuba, Education', Univ. of Tokyo, Earth and Planetary Science2, Univ. of Tokyo, Geochemical Research Center3)

P-2051 Quantification and visualization of SHH signaling activity in the developing chick limb bud
ニワトリ胚肢芽における SHH シグナリングの可視化と物理的定量化
Takayuki Suzuki1, Atsushi Kuroiwa1 (Nagoya university1, JST PRESTO2)

P-2052 Metameric pattern of vertebral body/intervertebral disc is correlated with Pax1 expression
椎体/椎間板の反復構造は Pax1 の発現と関連し、体節の前後パターンに関わらず形成される
Yu Takahashi1, Yukuto Yasuhiko1, Yumiko Saga2, Shinji Takada1, Jun Kanno1 (NIHS1, NIG2, OIIB3)

P-2053 Coordination of apoptosis, proliferation and cell migration in epithelial tissue dynamics during Drosophila metamorphosis
Xiang Teng1, Yusuke Toyama1,2,3 (DBS, NUS1, MBI2, TLL3)

P-2054 N-terminal sequence of Connexin41.8 has a critical role for the skin pattern formation in Zebrafish
ゼブラフィッシュの体表模様形成においてコネキシン 41.8 の N 末配列が重要な働きを持つ
Daisuke Watanabe, Shigeru Kondo, Masakatsu Watanabe (FBS, Osaka Univ.)

P-2055 Isolation of genes enriched asymmetrically in left or right side in flounder
ヒラメで左右非対称に発現する遺伝子の単離
Hayato Yokoi1, Daichi Kondo1, Xiaoming Wu1, Yuichiro Fujinami2, Tohru Suzuki1 (Marine Life Sci Genet, Grad Schl Agric Sci, Tohoku Univ1, Miyako Sta, Natl Cent Stock Enhance, Fish Res Agency2)

P-2056 Function analysis of mechanical force generated by leading edge mesoderm in Xenopus gastrulation
先行中胚葉の生み出す伸展刺激の脊索形成における役割
Yusuke Hara1,2,3, Kazuaki Nagayama4, Takeo Matsumoto4, Makoto Suzuki1,2, Naoto Ueno1 (SOKENDAI1, NIBB2, JSPS Research Fellow3, Nitech4)

P-2057 (OP02-05) The role of novel DNA damage repair gene, Tcof1, in craniofacial development
新規 DNA 損傷修復遺伝子 Tcof1 の顎顔面発生における役割
Daisuke Sakai2, Paul Trainor2 (NAIST1, SIMR2)

P-2058 Coordination of mitosis and morphogenesis: Role of a prolonged G2 phase during chordate neural tube closure
細胞分裂と形態形成の協調：神経管閉鎖過程における伸長化した G2 期の役割
Yosuke Ogura1, Asako Sakae-Sawano1,2, Masashi Nakagawa1, Nori Satoh1, Atsushi Miyawaki2,3, Yasunori Sasakura1 (Shimoda Marine Research Center, Univ. of Tsukuba1, RIKEN BSI2, ERATO, JST3, Grad. Sch. of Life Sci. Univ. of Hyogo4, Marine Genomics Unit, OIST5)

P-2059 Distinct functions of PlnA family proteins in the central olfactory projection
嗅覚中枢軸索投射における PlnA ファミリー分子の機能
Takahiko Kawasaki1,2, Tatsumi Hirata1,2 (NIG1, SOKENDAI2)
P-2060  Analyzing the role of apoptosis and caspase-activation during neural tube closure by using time-lapse imaging in SCAT3 transgenic mice
SCAT3 トランスジェニックマウスを用いたタイムラプスイメージングによる神経管閉鎖でのアポトーシス及びカスパーゼ活性化の生理学的意義の解明
Naomi Shinotsuka¹, Yoshifumi Yamaguchi¹,², Keiko Nonomura¹, Ayako Yoshida¹, Kiwamu Takemoto¹, Masayuki Miura¹,² (Dept. Genetics, Grad. Sch. Pharmaceutical Sci., Univ. Tokyo,¹, CREST, JST², Dept. Physiol., Grad. Sch. Med., Yokohama City Univ.³)

P-2061  Multiple feedback loops achieve robust localization of wingless expression in Drosophila notum development
多重フィードバックループはショウジョウバエ胸背板原基におけるwingless発現のロバストな局在化を実現する
Ken-ichi Hironaka¹, Yoh Iwasa¹, Yoshihiro Morishita¹,² (Kyushu Univ.¹, PRESTO JST²)

P-2062  Requirement of GABAergic interneurons and subplate neurons in neocortical arealization
Torsten Bullmann, Carina Hanashima (CDB)

P-2063 (OP01-01)  The sex pheromone perception ability in Caenorhabditis nematode is altered by the sexual identity of CEM neurons
King Chow, Lan Fu, Gus Chan, Tim Fan, Rachel Li (Div. Life Science, HKUST)

P-2064  Concentric zones, cell migration and neuronal circuits in the Drosophila visual center
発生過程のショウジョウバエ視覚中枢を区画化する転写因子群の解析
Eri Hasegawa¹, Yusuke Kitada¹,², Masako Kaido¹, Rie Takayama¹, Takeshi Awasaki¹, Kei Ito², Tetsuya Tabata¹, Makoto Sato¹ (FSO, Kanazawa Univ.¹, IMCB, Univ. Tokyo², UMass Med²)

P-2065 (OP01-05)  Formation of glycinergic synapse in zebrafish development
Hiromi Hirata (NIG)

P-2066  Drosophila acyl-CoA synthetase long-chain family member 4 is required for synaptic growth by attenuating BMP signaling
Yan Huang, Zhihua Liu, Yi Zhang, Di Chen, Yong Q. Zhang (CAS)

P-2067  The functional analysis of Dmbx1/Atx in the optic tectum of chick embryos
Yousuke Ishikawa, Takuo Akitaya, Araki Isato (Dept Chem & Bioeng, Fac Eng, Iwate Univ)

P-2068  Leaf extract of Withania somnifera induces differentiation and senescence in IMR32 human neuroblastoma cell line
Hardeep Kataria¹, Navjot Shah², Sunil Kaul³, Renu Wadhwa², Gurcharan Kaur¹ (GNDU¹, AIST²)

P-2069  Foxg1 regulates the onset of projection neuron production in the neocortex
Takuma Kumamoto¹, Ken-ichi Toma¹, Ken-ichi Mizutani², Carina Hanashima¹ (RIKEN CDB¹, Brain Development and Aging Research Center, Doshisha University²)

P-2070  Deficiency of Znf179 causes embryonic lethal phenotype associated with defected vasculogenesis
Shih-Ting Lin¹, Ping-Chieh Pao¹, Po-Ying Chen¹, Yi-Chao Lee¹ (Department of Pharmacology, College of Medicine¹, Institute of Bioinformatics and Biosignal Transduction, College of Bioscience and Biotechnology², Center for Gene Regulation and Signal Transduction Research, National Cheng Kung University³)

P-2071  Cancelled
A zebrafish corona mutation induces a Bcl2-dependent apoptosis in photoreceptor cells.

Yuko Nishiwaki, Shohei Suzuki, Asuka Yoshizawa, Yutaka Kojima, Toshiaki Mochizuki, Ichiro Masai (OIST)

The expression analysis of amyloid precursor protein (APP) mRNA in the optic tectum of chick embryos.

Keiko Okudaira, Nozomi Onodera, Isato Araki (Dept Chem & Bioeng, Fac Eng, Iwate Univ)

Distribution of various types of neurons and glial cells in developing chick optic tectum.

Nozomi Onodera, Isato Araki (Dept Chem & Bioeng, Fac Eng, Iwate Univ)

SH2B1β Regulates Brain-Derived Neurotrophic Factor-Induced Neurite Outgrowth

Chien-Hung Shih, Chien-Jen Chen, Linyi Chen (Institute of Molecular Medicine, National Tsing Hua University, Taiwan)

draxin has a unique role for the guidance of thalamocortical projections.

Yohei Shinmyo1, Md Riyadh1, Iftekhar Bin Naser1, Giasuddin Ahmed1, Mahmud Hossain1, Xiaohong Song1, Kunimasa Ohta1, Hideaki Tanaka1 (Dept. of Dev. Neurobiol., Kumamoto Univ., Kumamoto Univ., Japan)

PCP protein Dachsous is required for dendritic targeting of olfactory projection neurons in Drosophila.

Misako Okumura1, Masayuki Miura1, Takahiro Chihara1 (Grad. Sch. Pharm. Sci., Univ. Tokyo, PRESTO, JST, CREST, JST)

Evolutionarily conserved protein Dogi is required for neurite branching and targeting by interacting with microtubule motor regulator Glued in Drosophila olfactory projection neurons.

Chisako Sakuma1, Liqun Luo4, Masayuki Miura1, Takahiro Chihara1,4 (Dept Genetics, Grad Sch Pharm Scis, Univ. Tokyo1, PRESTO, JST, Japan1, CREST, JST, Japan1, HHMI, Dept. Biology, Stanford Univ. USA4)

TSPYL2 regulates CREB-Dependent Gene Expression

Kwun Kit Wong1, Qi Li2, Hiu Ting Wong1, Ka Hing Tsang1, Suk King Lai1, Grainne M McAlonan2, Ying Shing Chan1, Siu Yuen Chan1 (Dept. of Paediatrics and Adolescent Medicine, HKU1, Dept. of Psychiatry, HKU2, Dept. of Physiology, HKU3)

Cortical representations of olfactory input by trans-synaptic tracing

Kazunari Miyamichi, Liqun Luo (HHMI/Stanford)

The mechanisms of boundary formation between the stomach and intestine endoderm in chicken embryo.

P-2082 Extract of new born chicken heart arrests proliferation of chicken embryonic cardiomyocytes

Niwa tori yu kagami tsuba no rena ni sa tori su no yu ken to u e koo to shi tatsu su

P-2083 Sustained expression of coronary vessel/epicardial progenitor marker genes in the four-chambered chick embryonic heart

Niwa tori yu kan sa hen sei teki no tsuki i ru koma to yu ken kai kan shi seki maru kei da sen reki no seki
Yasuo Ishii, Shigenobu Sugimoto, Sadao Yasugi (Dept. Mol. Biosci., Kyoto Sangyo Univ.)

P-2084 Genome wide screening of mesenchymal signalling molecules involved in epithelial differentiation during mice palatogenesis

Ki-Jeong Kwon, Wern-Joo Sohn, Hyung-Soo Kim, Min-A Choi, Young-Rae Ji, Zae Young Ryoo, Sanggyu Lee, Jae-Young Kim (KNU)

P-2085 AP-1 Transcription Factors Regulate the Number of Apoptotic Cells in Developing Chick Limb Buds

AP-1 ten su su no zu kei de tsu kei seki no se no wa shite shi tatsu su AP-1 ten su su no zu kei de tsu kei seki no se no wa shite shi tatsu su
Natsuno Suda, Daisuke Shirakawa, Takehiko Itoh, Masashige Bando, Katsuhiko Shirahige, Kohsuke Kataoka, Cheryll Tickle, Mikiko Tanaka (Tokyo Tech, Univ. of Tokyo, NAIST, UoB)

P-2086 Small eye development caused by ectodermal Sox2 downregulation in enhancer N4 knock-out mice

Sok 2 sen ya sen han ser N4 no o koku ato ma usu ni koo yu teki no seki kei jitsu
Masanori Uchikawa, Miho Morishima, Yuka Saigou, Hisato Kondoh (Grad.Sch.of Frontier Bioscis., Osaka Univ.)

P-2087 Small heat shock protein B7(HspB7) is essential for sarcomere assembly in heart development

Yu-Ting Yan, Yen-Ling Shih, Pei-Chun Tsai, Bih-Ying Yang (IBMS, Academia Sinica, IBMB, NYMU)

P-2088 How dose the cell cycle arrest occur in mammalian cardiomyocyte?

Do no soro ni kagami tsuba no rena ni sa tori su no yu ken to u e shite shi tatsu su no hou

P-2089 RBMS3, an RNA-binding protein, mediates the expression of PTF1a through binding to its 3'UTR during pancreas development

Chung-Kuang Lu, Yi-Chyi Lai, Ming-Ko Chiang (DLSCCU, Department of Microbiology and Immunology, Chung-Shan Medical University)

P-2090 Retinoic acid signaling and initiation of mammary gland development

Kyoung-Won Cho, Cheryll Tickle, Han-Sung Jung (YUCD, DBUB, YUCD)

P-2091 zic 1 and zic 4 in late embryogenesis mediate patterning for adult dorsoventral trunk structures

Sa ko sa seki chu ei seki no se no wa shi tatsu su no hou zic 1 o ya zic 4 o ki shi tatsu su kei da kan kai ka seki no se no wa shi tatsu su no hou

P-2092 Mutations Affecting Cessation of Gonadal Leader Cell Migration in C.elegans

Seki chū C. elegans no sa tori su no yu ken seki su no re na tei dea su de ki a yō gi
Tetsuhiro Kikuchi, Yukimasa Shibata, Kiyoji Nishiwaki (Dept of Biosci, Grad Sch of Sci and Tech, Kwansei Gakuin Univ)
P-2093 Runx3 is a crucial regulator of alveolar differentiation and lung tumorigenesis in mice
○Jong-Min Lee¹, Jeong-Oh Shin¹, Kyuong-Won Cho¹, Akihiro Hosoya², Sung-Won Cho¹, Kyung-Sook
Lee², Hyun-Mo Ryoo¹, Suk-Chul Bae², Han-Sung Jung (YUCD), Department of Oral Histology,
Matsumoto Dental University², Departments of Biochemistry, College of Medicine, Institute of Tumor
Research, Chungbuk National University³, Department of Cell and Developmental Biology, School of
Dentistry and Dental Research Institute, Seoul National University⁴)

P-2094 Visualization of cell cycle and cell division in lens using Geminin-mCherry/ H2A-GFP
transgenic zebrafish
Geminin-mCherry/ H2A-GFP トランスジェニックゼブラフィッシュを用いた水晶体
における細胞周期、細胞分裂の可視化の試み
○Toshiaki Mochizuki¹, Shohei Suzuki¹, Asako Sakaue-Sawano², Atsushi Miyawaki², Ichiro Masai³ (OIST,
RIKEN BSI²)

P-2095 Lineage specification of gastrointestinal cells by helix-loop-helix transcription factor Id2
転写調節因子 Id2 による消化管上皮細胞の運命決定機構
○Kentaro Mori¹, Harumi Nakamura¹, Kota Tamada², Toru Takumi², Yoshifumi Yokota (Dept. of Mol.
Sci., Hiroshima Univ.²)

P-2096 Modification of BMP signaling is essential for the specification of the foregut endoderm in
the chicken embryo
BMP シグナルの修飾は前腸内胚葉の領域分化に必要である
○Yui Okayama¹, Wataru Kimura¹,², Sadao Yasugi¹, Kimiko Fukuda¹ (Dept. Biol., Tokyo Metropol.
Univ.¹, Hamamatsu Univ.¹, Kyoto Sangyo Univ.¹)

P-2097 Gli3 regulates various cellular mechanisms governing mouse embryonic mammalian
differentiation among the five mammmary rudiment pairs
May Yin Lee¹,², Victor Racine¹, Peter Jagadpramana¹, Li Sun¹, Weimiao Yu¹, Tiehua Du¹, Bradley
Spencer-Dene¹, Nicole Rubin¹, Trendy Le¹, Delphine Ndiaye¹, Saverio Belluscio¹, Klaus Kratochwil³,
Jacqueline Veltmaat⁴ (A*STAR IMCB⁴, NUS², A*STAR BII³, LRI¹, CHLA³, Institut Curie⁵, IMB⁶)

P-2098 The cluster rearrangement for dissociated Xenopus embryonic cells in their reaggregations
involves modulation of acto-myosin system in the surface of the clusters
アフリカツメガエル胚の再構築過程における再配置は、クラスター表面のアクチン
オシシン系の調節機構が関与している
○Ayano Harata¹, Takashi Matsuzaki¹,², Setsunosuke Ihara¹,² (Div. Res. Life Sci., United Grad. Sch. Agr.

P-2099 Watching moving cells as many as possible to understand the mammalian brain development
哺乳類の脳形成を深く理解するためにできるだけ多くの動く細胞たちを見つめる
○Takaki Miyata, Akira Sakakibara, Mayumi Okamoto, Ken Sagou, Toshiyuki Sato, Ayano Kawaguchi

P-2100 Endothelin receptor type-A expression defines a distinct subpopulation within the heart field
and contributes to chamber myocardium formation
心形成におけるエンドセリン A 型受容体発現解析による心臓予定領域細胞群同定
とエンドセリンシグナルの役割
○Rieko Asai¹, Yukiko Kurihara¹, Kou Fujisawa¹, Takahiro Sato¹, Yumiko Kawamura¹, Hiroki Kokubo¹,²,
Kazu Tonomi¹, Koichi Nishiyama¹, Yasunobu Uchijima¹, Sachiko Miyagawa-Tomita¹, Hiroki Kurihara¹
(Dept. of Phys. Chem. and Metabol., Grad. Sch. of Med., the Univ of Tokyo¹, Div. of ManDev., NIG²,
Dept. of Genetics, Grad. Univ. Adv. Stud¹, Medical Research Institute, Pediatric Cardiology, TWMU³)
P-2101  Progranulin A-mediated MET Signaling Is Essential for Liver Morphogenesis in Zebrafish
Yen-Hsing Li1, Hung-Chih Chen2, Hong-Yi Gong3, Shao-Yang Hu4, Ya-Wen Li5, Gen-Hwa Lin1, Ching-Chun Lin1, Wangta Liu1, Jen-Leih Wu1 (TIGP1, Research Institute of Biotechnology, Hungkuang University2, NTOU3, NPUST4, ICOB5)

P-2102  Roles of Epiprofin in hair follicle development
Takashi Nakamura1,2, Yasuo Yoshitomi1, Makiko Arakaki1, Yoshihiko Yamada2, Satoshi Fukumoto1 (Tohoku Univ Grad Sch of Dent1, LCDB,NIDCR, NIH2)

P-2103  Functional analysis of Wnt/β-catenin signaling during uterine gland development and its implications for the onset of endometrial malignancy
Mylah Villacorte1,2, Kentaro Suzuki1, Mikita Suyama1, Yasuyuki Ohkawa1, Tetsuo Maruyama1, Akira Hirasawa1, Hiroshi Sasaki2, Yukiko Ogino2, Shinichi Miyagawa1, Naomi Nakagata2, Richard Behringer2, Gen Yamada1 (Department of Organ Formation, IMEG, Kumamoto University1, GCOE, Kumamoto University2, Department of Genome Informatics, Center for Genomic Medicine, Graduate School of Medicine, Kyoto University1, Department of Epigenetics, Faculty of Medicine, Kyushu University3, Department of Obstetrics and Gynecology, School of Medicine, Keio University4, Laboratory for Embryonic Induction, RIKEN Center for Developmental Biology5, Okazaki Institute for Integrative Biosciences, National Institutes of Natural Sciences6, CARD, Kumamoto University7, Department of Genetics, University of Texas M.D. Anderson Cancer Center8)

P-2104  Modeling lung branching morphogenesis via epithelial-mesenchymal interaction
Takashi Miura (Dept.of Anat.& Dev.Biol., Kyoto Univ.Grad.Sch.of Med.)

P-2105  Projectome mapping of neural circuits in the Drosophila brain based on the neuroblast lineages
Masayoshi Ito, Keita Endo, Kei Ito (IMCB, University of Tokyo)

P-2106  The functional role of Polycomb group proteins Ring1A/B during mammalian limb development
Nayuta Yakushiji-Kaminatsui1, Takaho A. Endo2, Tetsuro Toyoda3, Haruhiko Koseki1 (RCAI, RIKEN1, BASE, RIKEN2)

P-2107  A BAC-transgenic mouse model for the long-range enhancer-promoter interaction at the Shh locus
Takanori Amano, Tomoko Sagai, Nagaharu Tsukiji, Toshihiko Shiroishi (NIG)

P-2108  The study of Plzf gene expression and regulation during neural differentiation
I-Han Chen1, Yi-Hua Lee1, Po-Ying Chen1, Yi-Chao Lee2 (Department of Pharmacology, College of Medicine1, and Center for Gene Regulation and Signal Transduction Research, National Cheng Kung University2)

P-2109  Expression pattern of Six genes in the mouse early embryos
Keiko Ikeda, Shigeru Sato, Hiroshi Yajima, Kiyoshi Kawakami (Biol. Jichi)
P-2110 Lhx1 is required for the regionalization of the chicken optic vesicle
ニワトリ胚眼胞の領域化にはLhx1が必要である

Takumi Kawae, Akane Mastuyo, Mayumi Okamoto, Junji Inoue, Sayuri Tomonari, Sumihare Noji, Hideyo Ohuchi (Dept. of Life Systems, The Univ. of Tokushima)

P-2111 Genomic structure of Meis2 and its impact on gene regulation
Meis2遺伝子の染色体構造とその遺伝子調節との関連

Takashi Kondo, Kaori Kondo, Haruhiko Koseki (RIKEN, RCAI)

P-2112 Epigenetic regulation by winged eye capable of inducing transformation in Drosophila
複眼を翅に変改する遺伝子winged eyeによるエピジェネティク制御

Rumi Nakajima1, Atsumi Kobayashi1, Emi Mizutani1, Tomonori Katsuyama1,2, Hirofumi Furushashi1, Shoichiro Kurita1 (Grad. School Pharm. Sci, Tohoku Univ.1, ETH Zurich2)

P-2113 Transcriptional regulation by acetylated-histone-binding protein, BET-1, and histone variant, H2A.z, in the maintenance of cell fates in C. elegans
細胞運命の維持における、アセチル化ヒストン結合蛋白BET-1とヒストンバリアントH2A.zによる転写調節

Yukimasa Shibata1, Hitoshi Sawa2, Kiyoji Nishiwaki1 (Kwansei Gakuin Univ. Sci. and Tech.1, RIKEN CDB2)

P-2114 Six1 and Six4 homeoproteins are required for sex determination in mouse gonad
Six1遺伝子とSix4遺伝子はマウス生殖腺性分化に必須である

Yuka Fujimoto1, Satomi Tanaka1, Yasuka Yamaguchi1,2, Kiyoshi Kawakami3, Ryuichi Nishinakamura1,2 (IMEG1, GCOE, Kumamoto Univ.1,2, Div. of Biol., Jichi Medical Univ.3)

P-2115 Sex lethal acts autonomously in the primordial germ cells to initiate female fate in Drosophila
ショウジョウバエ生殖系列における性決定機構

Kazuya Hashiyama, Yoshiki Hayashi, Satoru Kobayashi (NIBB)

P-2116 Comparative approach to the evolution of ‘abortive meiosis’ found in asexual reproduction of the water flea Daphnia pulex
ミジンコの単為生殖で起こる「減数しない減数分裂」と有性生殖でみられる「減数分裂」の比較研究に向けて

Chizue Hiruta1, Shin Tochinai2 (Dept. of Nat. His. Sci., Grad. Sch. of Sci., Hokkaido Univ.1, Dept. of Nat. His. Sci., Fac. of Sci., Hokkaido Univ.2)

P-2117 Inhibition of proteasome activity leads to delay of the onset of ZGA gene expression in early mouse embryos
マウス初期胚におけるプロテアソーム活性阻害は、胚性遺伝子の活性化の開始を遅延する

Seung-Wook Shin1, Mikiko Tokoro1, Satoshi Nishikawa1, Yuki Hatanaka1, Hyang-Heun Lee1, Natsumi Shimizu1, Takuji Nishihara1,2, Rie Kato1, Tomoko Amano1, Kazuya Matsumoto1 (Graduate School of BOST, Kinki Univ.1, IVF Namba Clinic2)

P-2118 Possible involvement of Nemo-like Kinase1 in Xenopus oocyte maturation as a kinase that catalyzes Pum1, Pum2 and CPEB phosphorylation required for the translation of dormant mRNAs in oocytes
翻訳制御タンパク質のリン酸化を介したNemo-like Kinase1のツメガエル卵成熟への関与

Ryoma Ota1, Tomoya Kotani2, Masakane Yamashita2 (Grad. Sch. of Life Sci., Hokkaido Univ.1, Dept. of Biol. Sci., Fac. of Sci., Hokkaido Univ.2)
P-2119 Transcriptional repression in the Germline of Ciona intestinalis embryos
カタユウレイボヤ胚の生殖系列細胞における転写抑制
Maki Shirae-Kurabayashi, Akira Nakamura (RIKEN CDB)

P-2120 Stage-specific Importin13 activity influences meiotic differentiation of germ cells in the mouse
マウス生殖細胞の減数分裂及び着床期マウス胚におけるImportin13の核－細胞質間の輸送活性調節による分化制御機構について
Yasuka Yamaguchi1, Ryuichi Nishinakamura1,2, Patrick Tan1, Satomi Tanaka1 (IMEG, Kumamoto Univ., G-COE, Kumamoto Univ., CMRI, Australia)

P-2121 Sall4 is required for the suppression of the somatic gene program during mouse germ cell specification through the epigenetic modification
マウス生殖細胞における体細胞遺伝子発現制御機構の解析
Yasuka Yamaguchi, Takeshi Terabayashi, Satomi Tanaka, Ryuichi Nishinakamura (IMEG)

P-2122 Drosophila Hedls is a P-body component and required for oogenesis
HedlsはDrosophilaのP-body成分で卵発生に必要である
Ming-Der Lin1,2, Chao-Heng Ni2, Jen-Ho Cheng1, Yi-Chun Liu1, Tze-Bin Chou1 (TCU Taiwan1, TCU, Taiwan2, NTU, Taiwan3)

P-2123 DNA demethylation regulates primordial germ cell-specific gene expression in mouse
DNA脱メチル化は始原生殖細胞特異的な遺伝子発現を制御する
Kentaro Mochizuki, Yasuhisa Matsui (CRCBR, IDAC, Tohoku Univ.)

P-2124 Suppression of a patched homolog in a small area of the epithelium can stop migration of dorsal-inducing mesenchymal cells in the early spider embryo
オオヒメグモ初期胚で背側を誘導する間充織細胞の移動は上皮細胞における局所的なpatched機能抑制により阻害される
Yasuko Akiyama-Oda, Hiroki Oda (JT Biohistory Res. Hall)

P-2125 A genome-wide search for novel Hedgehog signaling regulators involved in Cubitus interruptus (Ci) processing
ヘッジホッグシグナル経路における転写因子Cubitus interruptus（Ci）のプロセシングに関わる新規因子のゲノムワイドRNAiスクリーニング
Michiko Arai1, Satoshi Hasegawa1, Spencer Spratt1, Yifei Wang2, Mary Price2 (OIST1, Univ. Sheffield, UK2)

P-2126 Cadherin-7 joins dorsal-ventral patterning of the chick embryonic spinal cord through sonic hedgehog signaling
カドヘリン-7はソニックヘッジホッグシグナルを介してニワトリ胚神経管の背腹軸パターン形成に関与している
Rie Kawano1, Kunimasa Ohta2, Hidekatsu Yoshioka1, Jun-ichi Kadota1, Hideaki Tanaka1 (Dev. Neurobio. Kumamoto University1, Dev. Neurobio. Kumamoto University2, Matrix Medicine, Oita University, Internal Medicine II, Oita University, Dev. Neurobio. Kumamoto University)

P-2127 Identification of Transcription Regulators for Retinal Progenitor-specific Expression of Pax6
Yeha Kim, Kiyeon Park, Jin Woo Kim (KAIST)

P-2128 Changing FGF signal specificity during early otic development by heparan sulfate proteoglycan (HSPG)
ヘパラン硫酸プロテオグリカンによる初期内耳発生におけるFGFシグナル制御機構の解析
Yuko Muta, Siu-Shan Mak, Akira Honda, Raj Ladher (RIKEN CDB)
P-2129 FGF signalling through Frs2/3 recruitment is necessary for the development of the auditory sensory epithelium
Frs2/3 を介した FGF シグナルの内耳感覚上皮発生における必要性
Kazuya Ono, Akira Honda, Tomoko Kita, Raj Ladher (SSD, RIKEN, CDB)

P-2130 A mechanism coordinating the establishment of the dorsal-ventral and anterior-posterior axes during early Xenopus embryogenesis
胚発生初期に背腹と頭尾のパターン形成が調和するしくみ

P-2131 Cell polarity establishes positional difference in Hippo signaling by altering Angiomotin subcellular distribution in preimplantation mouse embryos
細胞極性による Angiomotin の細胞内分布制御がマウス着床前胚の位置依存的な Hippo 経路活性を確立する
Yoshikazu Hirate, Shino Hirahara, Atsushi Suzuki, Vernadeth Alarcon, Yohei Yoshihama, Kazunori Akimoto, Takaaki Hirai, Takeshi Hara, Hitoshi Niwa, Fumio Matsuzaki, Kazuhiro Chida, Shigeo Ohno, Yusuke Marikawa, Shinichi Aizawa, Akihiko Shimono, Hiroshi Sasaki (RIKEN CDB, Yokohama City Univ., Univ. of Hawaii, Univ. of Tokyo, CSI Singapore, IMEG Kumamoto Univ.)

P-2132 Lef1 phosphorylation by NLK is essential for Wnt/β-catenin signaling in neural progenitor cells
NLK による Lef1 のリン酸化は、神経前駆細胞における Wnt/β カテニンシグナルに必須である

P-2133 Mind bomb1 is required for trans-endocytosis of Notch into ligand-expressing cells to activate Notch signaling
Notch シグナル伝達活性化において Mind bomb1 はリガンド発現細胞での Notch のトランスエンドサイトーシスに必要である

P-2134 Dynamic Interactions of Nodal Factors and Their Receptors in Zebrafish Embryos
Zin Wang, Xi Wang, Thorsten Wohland, Karuna Sampath (TLL, NUS)

P-2135 Critical Role for MT1-MMP In The Regulatingon Of FGFR Signaling In Calvarial Osteogenesis
Zhongjun Zhou, Chan kui Ming, Wong Xavier (hku)

P-2136 Sensitized RNAi screening for genes required for Wnt-dependent cell polarity
Wnt 依存的な細胞極性形成に必要な遺伝子の Sensitized RNAi スクリーニング
Hatsumi Okada, Tomomi Takano, Hitoshi Sawa (RIKEN CDB, NIG)

P-2137 A FKBP (FK506 Binding protein) enhances BMP signaling during Xenopus dorso-ventral patterning
Inchul Yeo, Jin-Kwan Han (POSTECH)
P-2138  (SW01-12) Dermatan sulfate controls skeletal morphogenesis in sea urchin embryos

P-2139  Rapamycin treatment causes developmental delay, pigmentation defects, and gastrointestinal malformation on Xenopus embryogenesis
△Yoshihisa Ohata¹, Yuki Moriyama², Shoko Morii², Shinya Matsukawa¹, Hiroki Kuroda¹² (Dept. of Education (Sciences), Shizuoka Univ., GSST, Shizuoka Univ.)

P-2140  Controlled cell death of secondary cells in accessory gland of Drosophila

P-2141  Prickle and β-TrCP regulate cell adhesion by controlling paraxial protocadherin activity through ubiquitination in Xenopus development
△Masatake Kai, Noriyuki Kinoshita (NIBB)

P-2142  Jagged2/Notch signaling regulates epithelial organization of pharyngeal pouches in association with Fibronectin
△Hiroyuki Takahashi¹, Takashi Akanuma², Shinji Takada¹ (NISS NIBB, OIB, SOKENDAI¹, NAIST²)

P-2143  Thx6-dependent regulation of Sox2 determines neural versus mesodermal fate in axial stem cells
△Tatsuya Takemoto¹, Masanori Uchikawa¹, Megumi Yoshida¹, Donald Bell¹, Robin Lovell-Badge², Virginia Papaioannou¹, Hisato Kondoh¹ (Dev.Biol.Gr., Grad.Sch.of Frontier Bioscis., Osaka Univ., MRC NIMR², Columbia University³)

P-2144  Involvement of the Nk3 class homeobox gene in the regulation of mesoderm gene expression during early Xenopus development
△Minoru Watanabe¹, Takeshi Nishiyama² (Inst. of SAS, The Univ. of Tokushima, Grad. Sch. of IAS., The Univ. of Tokushima²)

P-2145  Contradictory roles of β-catenin in developing and mature mouse RPE
△Youjoung Kim, Seul Gi Lee, Song Hwa Choi, Jin Woo Kim (KAIST)

P-2146  Regulation of neurite outgrowth by SH2B1β is mediated by Eps8-IRSp53 complex in PC12 cells and hippocampal neurons
△Chien-Jen Chen, Chien-Hung Shih, Linyi Chen (Institute of Molecular Medicine, National Tsing Hua University, Hsinchu, Taiwan)
P-2147 Functional analysis of Akhirin in the dorso-ventral patterning of the embryonic chick and mouse spinal cord
ニワトリ胚とマウス胚脊髄の背腹軸形成における Akhirin の機能解析
○Athary Felemban1,2, Rie Kawano1, Xiaohong Song1,2, Hideaki Tanaka1,2, Kunimasa Ohta1 (Dep. Dev. Neurobiol., Grad. Sch. Life Sci., Kumamoto Univ., GCOE, Kumamoto Univ.)

P-2148 Functional analysis of Lhx3 in the developing chicken retina
ニワトリ胚網膜の発生過程における Lhx3 の機能解析
○Yuki Ueda, Takumi Kawaue, Sumihare Noji, Hideyo Ohuchi (Univ. of Tokushima)

P-2149 Phenotypic analyses of Noggin mutant teeth and gene expression patterns suggest a functional redundancy among BMP antagonists during tooth development
ニワトリ胚の歯の発育過程における Noggin の役割解析
○Yanding Zhang, Xuefeng Hu, Yin Wang, Fenglei He, Lu Li, YiPing Chen (Fujian Key Laboratory of Developmental and Neural Biology, College of Life Sciences, Fujian Normal University Fuzhou, College of Stomatology, The Fourth Military Medical University, Department of Cell and Molecular Biology, Tulane University)

P-2150 Post-translational regulation of Sox9 protein activity in delamination of neural crest cells
ニワトリ胚の神経節細胞の分離における Sox9 の後翻译制御
○Martin Cheung, Carol Yan, Bolton Chau, Henry So, Alan Chan, Alvis Ng, Kathryn Cheah, James Briscoe (HKU, NIMR)

P-2151 Conserved distal signaling pathways regulating appendage outgrowth
眼の発生時ににおける Equarin の機能解析
○Liang Ma, Congxing Lin, Yan Yin (Wash U)

P-2152 Functional analysis of Equarin during eye formation
眼の発生時ににおける Equarin の機能解析
○Xiaohong Song1,2, Athary Felemban1, Yuya Sato1, Hiroshi Ochiai4, Mahmud Hossain12, Takashi Yamamoto1, Kiyoshi Sekiguchi2, Hideaki Tanaka12, Kunimasa Ohta1 (Dep. Dev. Neurobiol., Grad. Sch. Life Sci., Kumamoto Univ., GCOE, Kumamoto Univ, Institute for Protein Research, Osaka Univ, Grad Sch of Sci, Hiroshima Univ)

P-2153 Type IIA Procollagen: A Positive Regulator of Nodal Signaling During Embryogenesis
ニワトリ胚の発育過程における Nodal のシグナリングの制御
○Yuan Gao1, Alan Leung1, Sandra Wong1, Danny Chan12, Patrick Tam14, Kathryn Cheah12 (HKUBIOCHEM, Centre for Reproduction, Development and Growth, The University of Hong Kong, Embryology Unit, Children’s Medical Research Institute, The University of Sydney, Sydney Medical School, The University of Sydney)

P-2154 Interaction between SHH and BMP signaling regulates inner ear development along the dorsoventral axis
ニワトリ胚の内耳発育における SHH と BMP のシグナリングの関与
○Sho Ohta1, Gary Schoenwolf2 (UOU SOM Neuro & Anat, UOU SOM Neuro & Anat)

P-2155 The role of mesenchymal FGFR1 signaling during craniofacial development in mice
kieherrmann1, Shuofei Cheng2, Katrin Driller1, Juha Partanen1, Annette Neubueser1 (ALU-IDDB, Institut de Recherches Cliniques de Montreal 110, Institute of Biotechnology, Viikki Biocenter, 00014-University of Helsinki)

P-2156 FGF signaling in mouse olfactory development
ニワトリ胚の嗅覚の発達における FGF のシグナリング
○Rebekka Goetz1, Thorsten Kurz2, Juha Partanen1, Annette Neubueser1 (ALU-IDDB, Zentrum für Biosystemanalyse, Genomics Facility, Albert-Ludwigs University Freiburg, Institute of Biotechnology, Viikki Biocenter, University of Helsinki)

P-2157 Hoxb5 regulates Neural Crest Cell development through Sox9 and FoxD3
ニワトリ胚の神経節細胞の発育における Sox9 と FoxD3 の役割
○Ka Man Kam1, Martin Cheung2, Paul Tam1, Vincent Lui (Department of Surgery, HKU, Department of Biochemistry, HKU)
P-2158 Genetic analysis of Mi-2/NURD complex in transdetermination of Drosophila imaginal disc
ショウジョウバエの器官改変頻度を上昇させるMi-2/NURD複合体の解析
Thanh Quang Nguyen, Tatsuro Minami, Hirofumi Furushashi, Tomonori Katsuyama, Yoshiteru Oshima, Shoichiro Kurata (Grad.School Pharm.Sci, Tohoku Univ, ETH Zurich)

P-2159 Characterization of mouse epiblast stem cells derived from gastrula-stage embryos
Yoji Kojima, Joshua Studdert, Kirsten Steiner, Melinda Power, David Loebel, Patrick Tam (CMRI)

P-2160 A synthetic nanofibrillar matrix that promotes hepatic differentiation of mouse and human ES cells and iPSCs in vitro
ナノファイバーを用いたマウスおよびヒトES細胞、iPS細胞の肝分化誘導法
Taiji Yamazoe, Nobuaki Shiraki, Kazuhiko Kume, Shoen Kume (Stem Cell Biology, IMEG, Kumamoto Univ, GCOE, Kumamoto Univ, Gastroenterol, Hepatol, Kumamoto Univ)

P-2161 Gene characterization of gonial stem cell niche and ovarian somatic stem cells in Drosophila melanogaster
Hidenori Watanabe, Hiroshi Uetake, Yuzo Niki (Dept. of Sciences, Ibaraki Univ.)

P-2162 Cell ablation analysis in the regenerating zebrafish fin: Generation of transgenic zebrafish and the cell ablation using the prodrug and nitroreductase
ゼブラフィッシュのヒレ再生における細胞アブレーション解析：トランスジェニックゼブラフィッシュの作製とプロドラッグおよびニトロリダクターゼを用いた細胞アブレーション
Kazunori Ando, Nozomi Yoshinari, Akira Kudo, Atsushi Kawakami (Tokyo Inst. Tech.)

P-2163 Essential roles of Smad4 in directional progression from neural stem cells to committed neural progenitors in the postnatal mouse brain
Motoko Niida, Mathew Chempanal, Yasuhide Furuta (UT MDACC)

P-2164 Spatiotemporal Distribution of Proliferating Cardiomyocytes in the Regeneration of Newt Hearts
イモリの心臓再生過程における心筋細胞の増殖パターンの研究
Toshinori Hayashi, Takuya Yokomastu, You Okamoto, Takashi Takeuchi (Toottori University, School of Life Sciences, RIKEN, CDB)

P-2165 Transdifferentiation of neuronal cells from iris pigment epithelial cells
ニワトリ胚虹彩色素上皮細胞の神経細胞分化能
Tamami Ishikawa, Mitsuko Kosaka, Masasuke Araki (Dep. of Biol. Sci., Nara Women’s Univ, Human Morphology, Faculty of Medicine, Okayama University)

P-2166 A mechanism that controls blastema cell proliferation and survival during zebrafish fin fold regeneration
ゼブラフィッシュ膜ひれ再生における再生芽の増殖と生存の調節
Teruhiro Nakajima, Takashi Ishida, Akira Kudo, Atsushi Kawakami (Tokyo Inst. Tech.)

P-2167 Expression of oocyte-type linker histone is required for newt lens transdifferentiation

P-2168 Osteogenesis from mouse ES cells
マウスES細胞からの骨分化誘導
Yuki Minamino, Yuichi Ohnishi, Kenji Kakudo, Masami Nozaki (2nd Dept of Oral and Maxillofacial Surg, ODU, Department of Cell Biology, Research Institute for Microbial Diseases, Osaka University)
P-2169 (SW01-15) Generation of intestinal epithelial like cell derived from ES cells
ES細胞を用いた効率的な腸上皮様細胞への分化誘導法の構築

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P-2170 A P2X receptor involved in planarian asexual reproduction via regulation of stem cell proliferation in D. japonica
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Toshihide Sakurai, Norito Shibata, Kiyokazu Agata (Dept. of Biophys, Kyoto Univ.)

P-2171 Transplantation of Mesenchymal Stem Cells from Mouse ES Cells into Injured Muscles Promotes Skeletal Muscle Regeneration and Improves Functional Recovery
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Naoki Yokotani, Toshinori Hayashi, Takashi Takeuchi (Tottori Univ., Sch. Life Sci., Div. Biosignal.)

P-2175 Blastema induction in aneurogenic state and Prx-1 regulation by MMPs and FGFs in Ambystoma mexicanum limb regeneration
MMPとFGFの活性化が有尾両生類の四肢再生反応を誘導する。（神経因子と再生開始に関する知見）
Akira Satoh1,2, Aki Makanae1, Ayako Hirata1, Yutaka Satou1 (RCIS1, PRESTO2, Kyoto University3)

P-2176 Kinetic biology on stem cell colonies and their geometrical shapes: why stem cells make round colonies?
幹細胞コロニー形成の速度論：なぜ幹細胞は丸いコロニーを作るのか？
Daisuke Nanba1,2, Fujio Toki1,2, Shigeki Higashiyama3, Yann Barrandon1, Hiroshi Toki1 (Senior Research Fellow Center, Ehime University1, Ehime Proto-Medicine Research Center, Ehime University2, Department of Biochemistry and Molecular Genetics, Ehime University Graduate School of Medicine1, École Polytechnique Fédérale de Lausanne3, Research Center for Nuclear Physics, Osaka University2)

P-2177 Induction of ameloblasts from induced pluripotent stem cells
iPS細胞を用いたエナメル芽細胞誘導法の確立
Makiko Arakaki, Takashi Nakamura, Tsutomu Iwamoto, Aya Yamada, Satoshi Fukumoto (Tohoku Univ Grad Sch Dent)
Terminal differentiation of notochord cells isolated from Xenopus tadpole
Makoto Mochii, Kenji Watanabe (Grad. Sch. Life Sci., Univ. Hyogo)

Identification of miRNA players in muscle stem cells based on Pax3 expression
Yosuke Hiramuki, Takahiko Sato, Atsuko Sehara (Department of Growth Regulation, Institute for Frontier Medical Sciences, Kyoto University, CiRA)

Non-B DNA segment promotes high and stable transcription activity of the transgene in mouse embryonic stem cells

Active migration of the GFRα1-expressing A_single spermatogonia in steady-state mouse testis
Kenshiro Hara, Kana Inada, Hideki Enomoto, Shosei Yoshida (NIBB, RIKEN CDB)

Possibility of the Yamanaka factor genes expression were regulated by the miR-290 cluster in mouse somatic cells
Masanori Narahara, Michiyo Masui, Saori Nakai, Nagi Miyamoto, Masaharu Miyake (Fac.of Pharm. Scis., Kobe Gakuin Univ.)

Visualization of oct3/4-expressing cells in medaka

Generation of the transgenic medaka for in vivo imaging of cell-cycle
Tomonori Deguchi, Tomohiro Matsumoto, Takashi Kawasaki, Shunsuke Yuba, Masato Kinoshita, Asako Sakae-Sawano, Atsushi Miyawaki, Kiyoshi Naruse (Health Research Institute, Tissue Engineering Research Group, AIST, First Department of Oral and Maxillofacial Surgery, Tsurumi University, School of Dental Medicine, Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University, Laboratory for Cell Function and Dynamics, Advanced Technology Development Group, Brain Science Institute, RIKEN, Life Function and Dynamics, ERATO, JST, Laboratory of Biosources, National Institute for Basic Biology)

A simple method for whole-mount in situ hybridization in C.elegans embryos
Fumiya Ogata, Hiroya Ishita, Satoshi Takaoka, Isato Araki (Dept Chem & Bioeng, Fac Eng, Iwate Univ)

Targeted mutagenesis of thyroid hormone receptor beta gene by engineered zinc finger nuclease in amphibian embryo
Ken-Ichi Suzuki, Keiko Kashiwagi, Hiroshi Ochiai, Tetsushi Sakuma, Naoaki Sakamoto, Akihiko Kashiwagi, Takashi Yamamoto, Nobuaki Furuno (CMES, Institute of Amphibian Biology, Hiroshima University, Japan, Graduate School of Science, Hiroshima University, Japan, Sanyo Women’s Collage, Japan)
P-2187 Spatio-temporally controlled misexpression of genes using the GAL4/UAS system in the cricket, *Gryllus bimaculatus*

フタホシコオロギ *Gryllus bimaculatus*における、Gal4/UAS システムを用いた遺伝子の時空間的異所性発現

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