

The 59th Annual Meeting
of the Japanese Society of Developmental Biologists

Program Book

(Pocket Version)

Website:



June 9 (Tue) - June 12 (Fri), 2026

JMS ASTERPLAZA



Room A = Medium Hall (2F) **Room**

B = Multi-purpose Studio (2F)

Room C = Meeting Room (4F)

Poster = Civic Gallery (1F)

Acknowledgement of Sponsorship

The organizing committee of the 59th Annual Meeting of JSDB gratefully acknowledges the generous financial support of the following:



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Biology**

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The Company of Biologists

Program at a Glance

Day 1 (June 9 (Tue))

Pre-Events "World Cafe " (with Lunch Box) Date: June 9 (Tue) 10:00-12:00, Venue: ASTERPLAZA 4F Oohiroma(大広間)	
	13:00-14:30
Room A 2F	Symposium 01 From Water to Land: Evolutionary, Developmental, and Regenerative Strategies for Environmental Adaptation (in English)
Room B 2F	Symposium 02 National Bioresources for Developmental Biology: Birds and Amphibians Meet Flowers and Bryophytes (in English)
Room C 4F	Symposium 03 Toward an Evolutionary and Developmental Understanding of Neural Circuits in Mental Disorders (in English)
Poster 1F	Poster Mounting
HIROSHIMA CITY BUNKA KORYU KAIKAN	DGD & JSDB Board Meeting (9:00-13:00)

Day 2 (June 10 (Wed))

	9:15-12:15	12:30-13:30	13:40-15:20	15:30-18:30
Room A 2F	Symposium 04 Inheriting Genomes Through the Transgenerational Maze (in English)			Symposium 05 Korea-Japan Joint Symposium (in English)
Room B 2F	Oral Presentation 01 Early Embryogenesis 1 (in English) (9:15-12:00)	Luncheon Seminar Leica Microsystems K.K. (in Japanese)		Oral Presentation 03 Metabolism and Disease Models / Reproduction and Germ Cells (in English) (15:30-18:45)
Room C 4F	Oral Presentation 02 Morphogenesis and Organogenesis 1 (in English) (9:15-12:00)	Luncheon Seminar Carl Zeiss Co., Ltd. (in Japanese)		Oral Presentation 04 Stem Cells and Regeneration 1 / Evolution of Genome and Morphology (in English) (15:30-18:45)
Poster 1F			Poster Discussion	
Exhibition 2F Foyer	Exhibition			

Day 3 (June 11 (Thu))

	9:15-12:15	12:30-13:30	13:40-15:20	15:30-18:30	19:00-21:00
Room A 2F	Symposium 06 France - Japan Joint Symposium (in English)			Plenary Lectures (in English)	
Room B 2F	Oral Presentation 05 Early Embryogenesis 2 / Morphogenesis and Organogenesis 2 (in English)	Frontiers Prize 2026 & SFBD PhD Winner Prize (in English) (with Lunch Box)			
Room C 4F	Oral Presentation 06 Stem Cells and Regeneration 2 / Neural Development (in English)				
Poster 1F			Poster Discussion		
Exhibition 2F Foyer	Exhibition				
Reception					Reception Award ceremony

Reception Venue: HIROSHIMA CITY BUNKA KORYU KAIKAN

Day 4 (June 12 (Fri))

	9:15-12:15	12:30-13:30	13:30~
Room A 2F	Symposium 07 Physical and Metabolic Perspectives on Development, Growth and Diseases (in English)		Hiroshima Peace Memorial Museum
Room B 2F	Symposium 08 Exploring Development and Evolution Through Primate Model Systems (in English)	JSDB General Assembly (in Japanese) (with Lunch Box)	
Room C 4F	Oral Presentation 07 Morphogenesis and Organogenesis 3 (in English)		
Poster 1F	Poster Removal		
Exhibition 2F Foyer	Exhibition		

Plenary Lectures

June 11(Thu) 15:30-18:30

Room A

Thu. Jun 11, 2026

Plenary Lecture

3:30 PM - 4:30 PM JST | 6:30 AM - 7:30 AM UTC | Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[PL01] Plenary Lecture

Chairpersons:Hajime Ogino(Hiroshima Univ.), Takahiro Chihara(Hiroshima Univ.)

3:30 PM - 4:30 PM JST | 6:30 AM - 7:30 AM UTC

[PL01] Making biological sense of adult neural stem cell heterogeneities

*Laure Bally-Cuif¹ (1. Institut Pasteur)

Plenary Lecture

4:30 PM - 5:30 PM JST | 7:30 AM - 8:30 AM UTC | Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[PL02] Plenary Lecture

Chairpersons:Hajime Ogino(Hiroshima Univ.), Takahiro Chihara(Hiroshima Univ.)

4:30 PM - 5:30 PM JST | 7:30 AM - 8:30 AM UTC

[PL02] Maternal transcription factors shape the embryonic epigenome beyond zygotic genome activation

Clark Hendrickson¹, Ira L. Blitz¹, Jin S. Cho¹, Nathan Mars¹, *Ken W.Y. Cho¹ (1. University of California, Irvine)

Plenary Lecture

5:30 PM - 6:30 PM JST | 8:30 AM - 9:30 AM UTC | Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[PL03] Plenary Lecture

Chairpersons:Hajime Ogino(Hiroshima Univ.), Takahiro Chihara(Hiroshima Univ.)

5:30 PM - 6:30 PM JST | 8:30 AM - 9:30 AM UTC

[PL03] Rhythm-coupling and peristaltic travelling waves to shape the embryonic gut

リズム協調と蠕動波が支える腸の形づくり

*Yoshiko Takahashi¹ (1. Kyoto University, Dept of Zoology/GSAIS)

Symposia

Symposia

📅 Tue. Jun 9, 2026 3:00 PM - 6:00 PM JST | Tue. Jun 9, 2026 6:00 AM - 9:00 AM UTC | 🏠 Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[S01] Symposium 01 From Water to Land: Evolutionary, Developmental, and Regenerative Strategies for Environmental Adaptation

Chairpersons: Wataru Kimura (RIKEN BDR/Shinshu Univ.), Kazu Kobayakawa (Kyushu Univ.)

The transition from an aquatic to a terrestrial life represents a fundamental shift in the history of vertebrate evolution, during which organisms underwent extensive reorganization of their morphology, metabolism, physiology, and developmental programs. The challenge of adapting to life on land arises not only in evolutionary history but also during ontogeny, such as amphibian metamorphosis and birth in amniotes, where organisms are confronted with terrestrial stresses including oxidative stress, desiccation, and temperature fluctuations. These transitions are thought to involve diverse physiological and developmental regulatory processes, including metabolic remodeling, the establishment of oxidative stress response mechanisms, and changes in tissue regenerative capacity.

In this symposium, under the conceptual framework of "From Water to Land," we aim to discuss the mechanisms acquired for terrestrial adaptation and their applications from diverse perspectives, including development, regeneration, metabolism, and evolution. Topics will include the evolution of tolerance to various stresses associated with terrestrialization, as well as medically relevant implications of life-stage dependent changes in regenerative capacity, as observed in amphibians and mammals. By bridging basic research and translational perspectives, this symposium aims to provide an interdisciplinary forum that connects basic and clinical sciences.

3:00 PM - 3:20 PM JST | 6:00 AM - 6:20 AM UTC

[S01-01] An Evolutionary Rethinking of Water and Osmoregulation: From Aquatic to Terrestrial Adaptation

水中から陸上適応に至る水・浸透圧調節の進化的再考

*Kento Kitada¹ (1. Department of Pharmacology, Faculty of Medicine, Kagawa University)

3:20 PM - 3:40 PM JST | 6:20 AM - 6:40 AM UTC

[S01-02] Molecular evolution of oxidative stress response strategies associated with terrestrial adaptation in vertebrates

脊椎動物の陸上適応に伴う酸化ストレス応答戦略の分子進化

*Kanae Yumimoto¹ (1. Kyushu University)

3:40 PM - 4:00 PM JST | 6:40 AM - 7:00 AM UTC

[S01-03] How insects regulate calcium on land: an endocrine reservoir system in the fruit fly

骨のない陸上無脊椎動物はいかにカルシウムを調節するか：ショウジョウバエで明らかになった内分泌制御機構

*Naoki Okamoto¹, Yosuke Mizuno², Akira Watanabe², Hiroshi Kohsaka^{3,4}, Ryusuke Niwa¹ (1. Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, 2. Degree Programs in Life and Earth Sciences, Graduate School of Science and Technology, University of Tsukuba, 3. Graduate School of Informatics and Engineering, The University of Electro-Communications, 4. Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo)

4:00 PM - 4:20 PM JST | 7:00 AM - 7:20 AM UTC

[S01-04] Synthetic Reconstruction of Development and Functional Maturation in Metabolic Organs

代謝臓器の発生と成熟機構の構成的理解

*Atsuhiko Taguchi¹ (1. Institute for Advanced Academic Research/Graduate School of Medicine, Chiba University)

4:20 PM - 4:40 PM JST | 7:20 AM - 7:40 AM UTC

[S01-05] External Forces in Limb Evolution: Oxygen, Mechanical Stress, and Developmental Plasticity

*Mikiko Tanaka¹ (1. Institute of Science Tokyo)

4:40 PM - 5:00 PM JST | 7:40 AM - 8:00 AM UTC

[S01-06] hoxc12/c13 and life-stage-dependent limb regeneration in Xenopus

ツメガエルにおける hoxc12/c13 とライフステージ依存的四肢再生

*Yoshihiro Morishita¹, Yoshifumi Asakura¹, Sang-Woo Lee¹ (1. RIKEN Center for Biosystems Dynamics Research)

5:00 PM - 5:20 PM JST | 8:00 AM - 8:20 AM UTC

[S01-07] The neonatal spinal cord has glial scar-free regenerative potential.

新生仔脊髄は無グリア瘢痕性の再生能を有する

*Kazu Kobayakawa¹, Jun Kishikawa¹, Kazuki Kitade¹, Kazuya Yokota¹, Yasuharu Nakashima¹ (1. Department of Orthopaedic Surgery, Kyushu University)

5:20 PM - 5:40 PM JST | 8:20 AM - 8:40 AM UTC

[S01-08] Amnion: an extraembryonic innovation for terrestrial vertebrates – insights from human development

羊膜：陸上脊椎動物の発生を可能にした胚体外組織の革新 – ヒト胚発生からの洞察

*Shota Nakanoh¹ (1. Babraham Institute)

5:40 PM - 6:00 PM JST | 8:40 AM - 9:00 AM UTC

[S01-09] Cardiac Regeneration as an Evolutionary Trade-off in Terrestrial Adaptation

進化的トレードオフとしての心臓再生能

*Wataru Kimura¹ (1. RIKEN BDR/Shinshu University)

Symposia

📅 Tue. Jun 9, 2026 3:00 PM - 6:00 PM JST | Tue. Jun 9, 2026 6:00 AM - 9:00 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[S02] Symposium 02 National Bioresources for Developmental Biology: Birds and Amphibians Meet Flowers and Bryophytes

Chairpersons: Hajime Ogino (Hiroshima Univ.), Toshinori Hayashi (Hiroshima Univ.)

Co-organized by NBRP Clawed frogs & Newts, NBRP Chrysanthemums, NBRP Chickens & Quails

The aim of developmental biology is to elucidate the mechanisms underlying the morphogenesis of a variety of organisms. Achieving this goal requires the use of diverse organisms with distinct characteristics, enabling researchers to identify both the commonalities and differences in their developmental processes, and to uncover the cellular behaviors and gene regulatory networks that drive them. Traditionally, research communities have tended to specialize within individual model organisms, deepening knowledge within each species. However, recent advances in genomic information and related resources have made it possible to conduct comparative studies across distantly related taxa—an approach once considered unattainable and these comparisons have led to numerous breakthroughs.

Central to such interspecies comparative research are high-quality biological resources. Hiroshima University, which hosts the Organizing Committee of the 59th Annual Meeting of JSDB, operates multiple bioresource programs that encompass a wide range of species, from animals to plants. This symposium aims to explore emerging directions in next-generation research through presentations by directors of these bioresource projects, as well as researchers who actively utilize them.

3:00 PM - 3:02 PM JST | 6:00 AM - 6:02 AM UTC

[01] Opening remark

3:02 PM - 3:17 PM JST | 6:02 AM - 6:17 AM UTC

[S02-01] Development of living and genomic *Xenopus* resources with technical innovation in the NBRP

NBRPにおけるツメガエル生体・ゲノムリソースの発展と技術革新

*Hajime Ogino¹, Makoto Suzuki¹, Takeshi Igawa¹, Nanoka Suzuki¹, Ichiro Tazawa¹, Keisuke Nakajima¹, Haruki Ochi², Takashi Kato³ (1. Hiroshima University, 2. Kobe University, 3. Waseda University)

3:17 PM - 3:32 PM JST | 6:17 AM - 6:32 AM UTC

[S02-02] Establishment of Newt Resources through the NBRP

NBRPによるイモリバイオリソースの整備

*Toshinori Hayashi¹, Kazuko Okamoto¹ (1. Amphibian Research Center, Hiroshima University)

3:32 PM - 3:47 PM JST | 6:32 AM - 6:47 AM UTC

[S02-03] National BioResource Project Chrysanthemums

ナショナルバイオリソースプロジェクト 広義キク属

*Makoto Kusaba¹ (1. Graduate School of Integrated Sciences for Life, Hiroshima University)

3:47 PM - 4:02 PM JST | 6:47 AM - 7:02 AM UTC

[S02-04] Hiroshima University's efforts to develop chicken and quail bioresources

広島大学におけるニワトリとウズラのバイオリソースに関する取り組み

*Hiroyuki Horiuchi^{1,2}, Ryo Ezaki¹, Kennosuke Ichikawa², Mei Matsuzaki¹, Kenichi Nishijima³, Yoshiaki Nakamura¹ (1. Graduate School of Integrated Sciences for Life, Hiroshima University, 2. Hiroshima University Genome Editing Innovation Center, 3. Graduate School of Bioagricultural Sciences, Nagoya University)

4:02 PM - 4:17 PM JST | 7:02 AM - 7:17 AM UTC

[S02-05] Bryophyte bioresources open up new frontiers in plant science

植物科学のフロンティアを切り拓くコケ植物バイオリソース

*Masaki Shimamura¹ (1. Hiroshima University)

4:17 PM - 4:22 PM JST | 7:17 AM - 7:22 AM UTC

Short break

4:22 PM - 4:37 PM JST | 7:22 AM - 7:37 AM UTC

[S02-06] Dual-phase control of erythropoiesis by rapid and delayed thyroid hormone signaling in *Xenopus tropicalis*

ネッタイツメガエルにおけるにおける甲状腺ホルモンの急速および遅延シグナル伝達による赤血球産生の二相制御

*Yuta Tanizaki¹ (1. The University of Tokyo)

4:37 PM - 4:52 PM JST | 7:37 AM - 7:52 AM UTC

[S02-07] Digit formation mechanism uncovered from cell fate tracing in the newt limb

細胞系譜追跡から明らかにされるイモリの指発生機構

*Haruka Matsubara¹, Gembu Abe¹, Takashi Takeuchi¹ (1. Tottori University)

4:52 PM - 5:07 PM JST | 7:52 AM - 8:07 AM UTC

[S02-08] From photoperiodic flowering to capitulum development in chrysanthemum

キクの光周性花成から頭状花形成まで

*Yohei Higuchi¹ (1. The University of Tokyo)

5:07 PM - 5:22 PM JST | 8:07 AM - 8:22 AM UTC

[S02-09] Application of Chicken Primordial Germ Cell Resources to Developmental Biology: Cell-Matrix Interactions Regulate Lineage Restriction and Self-Renewal

ニワトリ始原生殖細胞リソースの発生生物学への応用: 細胞-マトリクス間相互作用による未分化性と自己複製の制御

*Kennosuke Ichikawa^{1,2}, Yuzuha Motoe³, Lorna Taylor², Tenkai Watanabe³, Ryo Ezaki³, Mei Matsuzaki³, Hiroyuki Horiuchi^{1,3}, Mike J. McGrew² (1. Genome Editing Innovation Center, Hiroshima University, Japan, 2. The Roslin Institute, University of Edinburgh, UK, 3. Graduate School of Integrated Sciences for Life, Hiroshima University, Japan)

5:22 PM - 5:37 PM JST | 8:22 AM - 8:37 AM UTC

[S02-10] Genome analysis of the monoicous liverwort *M. quadrata* reveals sex chromosome evolution associated with the emergence of monoicy*Yukiko Yasui¹ (1. Grad. Sch. Biostudies, Kyoto Univ.)

5:37 PM - 6:00 PM JST | 8:37 AM - 9:00 AM UTC

[02] Discussion with speakers & closing remarks

Symposia

📅 Tue. Jun 9, 2026 3:00 PM - 6:00 PM JST | Tue. Jun 9, 2026 6:00 AM - 9:00 AM UTC | 🏠 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[S03] Symposium 03 Toward an evolutionary and developmental understanding of neural circuits in mental disorders

Chairpersons: Toshiyuki Fujita (Teikyo Univ.), Teruhiro Okuyama (The Univ. of Tokyo)

Recent advances in disease genomics and neuroscience have greatly deepened our understanding of the molecular and neural circuit mechanisms underlying psychiatric disorders. However, to fully elucidate the origins of psychiatric disease, it is essential to reconsider these mechanisms from an evolutionary-developmental (Evo-Devo) perspective. In particular, two fundamental questions remain insufficiently explored: (1) how the seeds of psychiatric disorders emerge and unfold during development, and (2) where their evolutionary origins lie across animal species. This symposium aims to foster an integrative discussion on the evolutionary and developmental foundations of neural circuits implicated in psychiatric disorders by synthesizing findings from studies across diverse animal models and a broad spectrum of psychiatric conditions.

3:00 PM - 3:05 PM JST | 6:00 AM - 6:05 AM UTC

[01] Opening remark

3:05 PM - 3:26 PM JST | 6:05 AM - 6:26 AM UTC

[S03-01] Postnatal maturation of neural circuits supporting empathetic behavior

共感性を支える神経回路の発達期成熟機構の解析

*Teruhiro Okuyama¹ (1. The University of Tokyo)

3:26 PM - 3:47 PM JST | 6:26 AM - 6:47 AM UTC

[S03-02] Evo-devo approach to the increased complexity of mushroom body cytoarchitecture in Hymenoptera

ハチ目におけるキノコ体構成細胞種増加の進化発生的解析

*Hiroki Kohno¹ (1. NIBB)

3:47 PM - 4:08 PM JST | 6:47 AM - 7:08 AM UTC

[S03-03] Cell-type specific translation in the *Drosophila* nervous system

ショウジョウバエ神経系における細胞種特異的な翻訳制御

*Toshiharu Ichinose¹ (1. Tohoku university)

4:08 PM - 4:29 PM JST | 7:08 AM - 7:29 AM UTC

[S03-04] Repeat Instability and Epigenetic Compensation: Lessons from Ribosomal DNA for Understanding Tandem Repeat Disorders

リボソームDNAから学ぶタンDEMリピートの安定性とエピジェネティック制御

*Yutaro Hori¹ (1. The University of Tokyo)

4:29 PM - 4:50 PM JST | 7:29 AM - 7:50 AM UTC

[S03-05] comparison of sprouting patterns in neonate and adult after pyramidotomy

延髄錐体切断後の新生児と成体の軸索発芽パターンの比較

*Hiroshi Tsujioka^{1,2}, Toshihide Yamashita² (1. Fukushima Med. Univ. Sch. Med., 2. Osaka Univ. Grad. Sch. Med.)

4:50 PM - 5:11 PM JST | 7:50 AM - 8:11 AM UTC

[S03-06] Subdivisions of the avian hippocampus for understanding hippocampal evolution

海馬の進化を理解するための鳥類海馬のサブ領域分け

*Toshiyuki Fujita¹, Shinji Yamaguchi¹ (1. Teikyo University)

5:11 PM - 5:32 PM JST | 8:11 AM - 8:32 AM UTC

[S03-07] Developmental Glutamate Dysregulation in Neural Circuitry: Insights on Neuroinflammation in a Novel Environmental Model of Autism

*Manasi Varma¹, Ranjana Bhandari^{1,2}, Ankan Sarkar¹, Manish Jain¹, Jyoti K Paliwal¹, Bikash Medhi³, Anurag Kuhad¹ (1. Panjab Univ., 2. AKB Innovant Healthcare Pvt. Ltd., 3. PGIMER)

5:32 PM - 5:53 PM JST | 8:32 AM - 8:53 AM UTC

[S03-08] Activity-dependent development of synaptic pathology in schizophrenia mouse models

統合失調症マウスモデルにおける活動依存的なシナプス病態発症機序

*Sho Yagishita¹ (1. University of Tokyo)

5:53 PM - 6:00 PM JST | 8:53 AM - 9:00 AM UTC

[02] Closing Remarks

Symposia

📅 Wed. Jun 10, 2026 9:15 AM - 12:15 PM JST | Wed. Jun 10, 2026 12:15 AM - 3:15 AM UTC | 🏢 Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[S04] Symposium 04 Inheriting genomes through the transgenerational maze

Chairpersons: Shosei Yoshida(NIBB), Tomoya Kitajima(RIKEN BDR)

Co-organized by : Grant-in-Aid for Transformative Research Areas (A) "Dynamic Reproductive Lifespan", AMED-ASPIRE "Germ Cell Dynamics and Transgenerational Health Risks" and Sasagawa Foundation

Life continues across generations by transmitting genomes through germ cells. Yet inheritance is never perfectly faithful. Genomes change at multiple scales, from point mutations to chromosome-level rearrangements and karyotype variation (aneuploidy), and these changes can emerge as somatic phenotypes in subsequent generations. Sometimes they cause disease; sometimes they fuel evolution. In some organisms, genome alterations are developmentally programmed and woven into the life cycle. In this symposium, we explore how diverse organisms, from protozoans to plants and humans, navigate this maze-balancing genome stability with plasticity-and still succeed in carrying life forward.

9:15 AM - 9:17 AM JST | 12:15 AM - 12:17 AM UTC

[01] Opening remark

9:17 AM - 9:42 AM JST | 12:17 AM - 12:42 AM UTC

[S04-01] Integrating Genetic and Epigenetic Information During Somatic Genome Development in *Tetrahymena*

*Kazufumi Mochizuki¹ (1. Institute of Human Genetics (IGH), CNR)

9:42 AM - 10:07 AM JST | 12:42 AM - 1:07 AM UTC

[S04-02] Programmed DNA Elimination in the Nematode *Caenorhabditis auriculariae*

*Asako Sugimoto¹ (1. Graduate School of Life Sciences, Tohoku University)

10:07 AM - 10:32 AM JST | 1:07 AM - 1:32 AM UTC

[S04-03] Somatic mutation dynamics in long-lived trees

*Akiko Satake¹ (1. Department of Biology, Faculty of Science, Kyushu University)

10:32 AM - 10:57 AM JST | 1:32 AM - 1:57 AM UTC

[S04-04] Understanding and preventing age-associated chromosome segregation errors in oocytes

老化卵子における染色体分配エラーの理解と抑止

*Tomoya Kitajima¹ (1. RIKEN Center for Biosystems Dynamics Research)

10:57 AM - 11:22 AM JST | 1:57 AM - 2:22 AM UTC

[S04-05] Spermatogonial stem cells shape the origin and transmission of de novo mutations
新規突然変異の生成と伝達を担う精子幹細胞

*Shosei Yoshida¹ (1. Division of Germ Cell Biology, National Institute for Basic Biology)

11:22 AM - 11:47 AM JST | 2:22 AM - 2:47 AM UTC

[S04-06] Long-Term Serial Passage Reveals Transgenerational Effects of Somatic and Germline Mutations

長期間の継代実験から明らかになった、世代を超えて及ぶ体細胞変異および生殖細胞系列変異の影響

*Arikuni Uchimura¹, Yasunari Satoh¹, Masaaki Toshishige¹, Mayumi Higuchi², Sayaka Wakayama³, Teruhiko Wakayama³, Takeshi Yagi² (1. Department of Molecular Biosciences, Radiation Effects Research Foundation, 2. Graduate School of Frontier Biosciences, The University of Osaka, 3. Advanced Biotechnology Center, University of Yamanashi)

11:47 AM - 12:12 PM JST | 2:47 AM - 3:12 AM UTC

[S04-07] From somatic exposure to germline inheritance: unresolved impacts of environmental and therapeutic mutagens

*Raheleh Rahbari¹ (1. Wellcome Sanger Institute)

12:12 PM - 12:15 PM JST | 3:12 AM - 3:15 AM UTC

[02] Closing Remarks

Symposia

📍 Wed. Jun 10, 2026 3:30 PM - 6:30 PM JST | Wed. Jun 10, 2026 6:30 AM - 9:30 AM UTC | 🏠 Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[S05] Symposium 05 Korea - Japan Joint Symposium

Chairpersons: Asako Shindo (The Univ. of Osaka), Tae-joo Park (UNIST)

Co-organized by Development Growth & Differentiation (DGD)

Developmental biology spans a broad spectrum of research fields grounded in diverse animal and plant model organisms. To strengthen sustained scientific exchange between Korea and Japan, KSDB and JSDB hold a Korea-Japan Joint Symposium as an official session within each society's annual meeting. This symposium brings together early- and mid-career researchers to share emerging discoveries, compare complementary approaches shaped by different research environments. Accordingly, speakers will present cutting-edge work across diverse areas of developmental biology, including morphogenesis, regeneration and stem cells, quantitative imaging, evo-devo, and single-cell/omics-driven developmental systems biology.

3:30 PM - 3:33 PM JST | 6:30 AM - 6:33 AM UTC

[01] Opening remark

3:33 PM - 3:58 PM JST | 6:33 AM - 6:58 AM UTC

[S05-01] Made to be Broken: The Architecture and Functions of Skin Fracture Lattice in Spiny Mice

*Hanseul Yang¹ (1. KAIST)

3:58 PM - 4:23 PM JST | 6:58 AM - 7:23 AM UTC

[S05-02] From Ambiguity to Determined Fates: Tracing Cell Fate Decisions during Embryogenesis by Time-Course scRNA-seq

曖昧な細胞状態から細胞運命決定へ至る過程の時系列1細胞RNA-seq解析

*Alice Tsuboi¹, Takefumi Kondo^{1,2} (1. RIKEN BDR, 2. Kyoto University)

4:23 PM - 4:48 PM JST | 7:23 AM - 7:48 AM UTC

[S05-03] Mosaic partial epidermal reprogramming remodels neighbors and niches to refine skin homeostasis and repair

*Sekyu Choi^{1,2,3,4} (1. Department of Life Sciences, Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea, 2. Medical Science and Engineering, School of Convergence Science and Technology, Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea., 3. School of Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technology (POSTECH), Pohang, Republic of Korea., 4. Institute for Convergence Research and Education in Advanced Technology (I_CREATE), Yonsei University, Incheon, Republic of Korea.)

4:48 PM - 5:13 PM JST | 7:48 AM - 8:13 AM UTC

[S05-04] Regulatory basis of forelimb morphological diversity across developmental stages in the Galloanserae

*Masahiro Uesaka¹ (1. Tohoku University)

5:13 PM - 5:38 PM JST | 8:13 AM - 8:38 AM UTC

[S05-05] Epithelial gap closure in the chick embryo

*Hyung Chul Lee¹ (1. School of Biological Sciences and Technology, College of Natural Sciences, Chonnam National University, Gwangju, Korea)

5:38 PM - 6:03 PM JST | 8:38 AM - 9:03 AM UTC

[S05-06] Left-Right asymmetry in polonaise movements prior to node formation during chick gastrulation

*Rieko Asai¹ (1. IRCMS, Kumamoto Univ.)

6:03 PM - 6:28 PM JST | 9:03 AM - 9:28 AM UTC

[S05-07] Characterization and the regulation of the cambial stem cells during the plant secondary growth.

植物二次成長における形成層幹細胞の特徴づけと制御

Hui Cao^{1,2}, Jiao Zhao³, Thomas Greb³, *Dongbo Shi^{1,2,3} (1. RIKEN CSRS, 2. Univ. of Potsdam, IBB, 3. Heidelberg Univ., COS)

6:28 PM - 6:30 PM JST | 9:28 AM - 9:30 AM UTC

[02] Closing Remarks

Symposia

📅 Thu. Jun 11, 2026 9:15 AM - 12:15 PM JST | Thu. Jun 11, 2026 12:15 AM - 3:15 AM UTC | 🏠 Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[S06] Symposium 06 France - Japan Joint Symposium : Frontiers of Developmental Biology

Chairpersons: Yasuko Akiyama-Oda (BRH), Jean Leon Maitre (Institut Curie)

Co-organized by Sasagawa Foundation and Development Growth & Differentiation (DGD)

This joint symposium, sponsored by both the French and Japanese Societies of Developmental Biology, highlights groundbreaking research from prominent scientists in both countries. This session features a multidisciplinary array of topics, ranging from the visualization of intercellular signaling and live imaging of gene expression to epithelial mechanics and tissue morphogenesis and mathematical approaches. This session serves as a platform to discuss current and future directions of developmental biology and emerging technologies addressing fundamental questions in the field.

9:15 AM - 9:45 AM JST | 12:15 AM - 12:45 AM UTC

[S06-01] Reconstituting planar cell polarity in vitro and rethinking Wnt signaling

in vitroでの平面内細胞極性の再構成とWntシグナル再考

*Yusuke Mii¹ (1. Kyoto University)

9:45 AM - 10:15 AM JST | 12:45 AM - 1:15 AM UTC

[S06-02] Spatiotemporal Regulation of Translation during Zygotic Genome Activation

*Mounia Lagha¹, Pierre Bensidoun¹, Morgane Verbrugge¹, Antonello Trullo¹, Laurence Berry², Sophie Theis³, Timothy Saunders³ (1. CNRS, IGMM, University of Montpellier, 2. Montpellier Rio Imaging MRI, CNRS, 3. Centre for Mechanochemical Cell Biology, Warwick Medical School, University of Warwick, UK)

10:15 AM - 10:45 AM JST | 1:15 AM - 1:45 AM UTC

[S06-03] Cell intercalation and collective cell migration: different games, same players

Lisa Calvary^{1,2,3,4}, Hervé Alegot¹, Pierrea Pouchin¹, Graziella Richard¹, *Vincent Mirouse¹ (1. Institute of Genetics, Reproduction and Development, 2. CNRS, 3. INSERM, 4. Université Clermont Auvergne)

10:45 AM - 11:15 AM JST | 1:45 AM - 2:15 AM UTC

[S06-04] Dynamic Interplay between Morphogenesis and Cell Fate Determination during *Drosophila* tracheal development

*Takefumi Kondo^{1,2} (1. RIKEN Center for Biosystems Dynamics Research, 2. Kyoto University)

11:15 AM - 11:45 AM JST | 2:15 AM - 2:45 AM UTC

[S06-05] Mechanics of blastocyst morphogenesis

*Jean-Lion Maitre¹ (1. Institut Curie)

11:45 AM - 12:15 PM JST | 2:45 AM - 3:15 AM UTC

[S06-06] Mathematical modelling of vein pattern formation to understand angiosperm leaf diversity

葉脈パタンの多様性の理解に向けた数理モデル構築

*Miho Kitazawa¹ (1. Univ. of Osaka)

Symposia

📅 Fri. Jun 12, 2026 9:15 AM - 12:15 PM JST | Fri. Jun 12, 2026 12:15 AM - 3:15 AM UTC | 🏠 Room A = Medium Hall (2F)(JMS ASTERPLAZA 2F)

[S07] Symposium 07 Physical and Metabolic Perspectives on Development, Growth and Diseases

Chairpersons: Ryusuke Niwa(The Univ. of Tsukuba), Pierre Leopold(Institut Curie)

Co-organized by Sasagawa Foundation and Development Growth & Differentiation(DGD)

Recent advances in physical and metabolomic approaches have opened new avenues for investigating developmental processes in a dynamic and integrative manner. This joint Japan-France conference provides a unique opportunity to bring together researchers from both countries who are contributing to this emerging field. Topics will include physical constraints in tissue growth and morphogenesis, mechanobiology of neural development, metabolic and endocrine perspectives on early development, and metabolomic studies of development and diseases using both vertebrate and invertebrate models. Model organisms will include fruit flies, frogs, mice, and humans. We aim to foster active discussion with the audience on the conceptual and methodological directions of this field.

9:15 AM - 9:17 AM JST | 12:15 AM - 12:17 AM UTC

[01] Opening remark

9:17 AM - 9:42 AM JST | 12:17 AM - 12:42 AM UTC

[S07-01] Mechanical control of organ size in *Drosophila*

*Pierre LEOPOLD¹ (1. Institut Curie)

9:42 AM - 10:07 AM JST | 12:42 AM - 1:07 AM UTC

[S07-02] Analysis of relationship between cerebrospinal fluid and PIEZO mechanically activated ion channel during brain development

脳発生における脳脊髄液とPIEZO機械受容チャネルの関係の解析

*Keiko Nonomura¹, Hibiki Endo¹, Tomohiro Tanaka¹, Tsubasa Ishida¹, Ai Hirabayashi¹, Takeshi Noda¹ (1. Kyoto University)

10:07 AM - 10:32 AM JST | 1:07 AM - 1:32 AM UTC

[S07-03] Genome size, cell size, and the energetics of development: insights from polyploid frogs

*Clotilde Cadart^{1,2,3}, Michael Florian Szalay^{1,2}, Salomé Collin^{1,2}, Rebecca Heald³, Julianne Bartz³, Gillian Oaks³ (1. INSERM, 2. Institut Cochin, 3. University of California, Berkeley)

10:32 AM - 10:44 AM JST | 1:32 AM - 1:44 AM UTC

[S07-04] A *DLX5* distal enhancer is a skeleton specific cis-regulatory element involved in bone homeostasis and osteoporosis

ある*DLX5*遠位エンハンサーは骨代謝や骨粗鬆症に関わる骨格特異的なシス制御エレメントである

*Shinse Fujita^{1,2,6}, Shoichiro Tani³, Harumi Nakao⁴, Yasuhide Iwanaga^{1,2,6}, Hiroyuki Okada^{1,2}, Shinsuke Ohba⁵, Taku Saito², Sakae Tanaka², Ung-il Chung^{1,6}, Hironori Hojo⁷ (1. Laboratory of Clinical Biotechnology, Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, 2. Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, 3. Children's Medical Center Research Institute at the University of Texas Southwestern, Dallas, TX, USA, 4. Laboratory of Animal Resources, Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, the University of Tokyo, Tokyo, Japan, 5. Department of Tissue and Developmental Biology, Graduate School of Dentistry, The University of Osaka, Osaka, Japan, 6. Department of Bioengineering, Graduate School of Engineering, The University of Tokyo, Tokyo, Japan, 7. Bioinformatics Research Unit, Graduate School of Dentistry, The University of Osaka, Osaka, Japan)

Session

The 59th Annual Meeting of the Japanese Society of Developmental Biologists

10:44 AM - 10:56 AM JST | 1:44 AM - 1:56 AM UTC

[S07-05] Role of Acetylcholine Receptor Beta3 in Macrophages Under Homeostatic and Challenged Conditions

*Gege Zhang¹, Pierre CATTENOZ¹ (1. Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC), University of Strasbourg, France)

10:56 AM - 11:21 AM JST | 1:56 AM - 2:21 AM UTC

[S07-06] Multi-Omics Dissection of Systemic Physiology in Health and Disease

マルチオミクス解析による個体レベルの健康と疾患の理解

*Shinpei KAWAOKA¹ (1. Tohoku University / Kyoto University)

11:21 AM - 11:46 AM JST | 2:21 AM - 2:46 AM UTC

[S07-07] Microbiota-gut interaction mediates the onset of cachexia

*Yuya Sanaki¹, Carine Ganem Elbaz², Bhavya Gummadi¹, Di Chen³, Akira Goto³, Chih-Chiang Chan⁴, Francois Leulier⁵, Ryusuke Niwa¹, Pierre Leopold² (1. University of Tsukuba, 2. Institut Curie, Paris – INSERM, Institut Curie -PSL Research University – France, 3. Insect Models of Innate Immunity (M3I; UPR9022) – University of Strasbourg– CNRS – France, 4. Graduate Institute of Physiology, National Taiwan University – Taiwan, 5. IGFL, ENS Lyon, CNRS, Université Claude Bernard Lyon 1 – France)

11:46 AM - 12:11 PM JST | 2:46 AM - 3:11 AM UTC

[S07-08] Lipidome signatures associated with aging and the host-microbiome interactions

*Makoto Arita^{1,2,3,4} (1. Keio University Faculty of Pharmacy, 2. RIKEN-IMS, 3. Yokohama City Univ., 4. WPI-Bio2Q)

12:11 PM - 12:15 PM JST | 3:11 AM - 3:15 AM UTC

[02] Concluding remark

Symposia

📅 Fri. Jun 12, 2026 9:15 AM - 12:15 PM JST | Fri. Jun 12, 2026 12:15 AM - 3:15 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[S08] Symposium 08 Exploring development and evolution through primate model systems

Chairpersons: Ikuo Suzuki (The Univ. of Osaka), Takuya Imamura (Hiroshima Univ.)

Co-organized by Sasagawa Foundation and Development Growth & Differentiation (DGD)

This symposium explores the mechanisms of developmental conservation and evolutionary diversity through cutting-edge research using primate models, such as macaques and marmosets. Recent breakthroughs in stem cell technology, genome editing, and single-cell analysis have unveiled the intricate developmental dynamics of non-human primates, which were previously difficult to access. By integrating these findings, we aim to facilitate a deep discussion on how human-specific traits emerged from a developmental perspective.

9:15 AM - 9:45 AM JST | 12:15 AM - 12:45 AM UTC

[S08-01] Molecular basis of human-specific neurodevelopment: Insights from metabolic shifts and epigenetic regulation in neural stem cells

ヒト特異的神経発達の分子基盤：神経幹細胞における代謝シフトとエピジェネティック制御からの理解

*TAKUYA IMAMURA¹ (1. Prog of Biomed Sci, Grad Sch of Integr Sci, Hiroshima Univ)

9:45 AM - 10:15 AM JST | 12:45 AM - 1:15 AM UTC

[S08-02] Molecular and Cellular Determinants of Embryo Colonization Competence in Human and Non-Human Primate Pluripotent Stem Cells

*PIERRE SAVATIER^{1,2} (1. Stem Cell and Brain Research Institute, INSERM, 2. University of Lyon)

10:15 AM - 10:45 AM JST | 1:15 AM - 1:45 AM UTC

[S08-03] A comprehensive developmental atlas of early post-implantation embryogenesis in primate

*Tomonori Nakamura^{1,2,3} (1. Institute for the Advanced Study of Human Biology (WPI-ASHBi), Kyoto University, 2. Hakubi Center for Advanced Study, Kyoto University, 3. Graduate school of medicine, Kyoto University)

10:45 AM - 11:15 AM JST | 1:45 AM - 2:15 AM UTC

[S08-04] Study on the epigenome evolution in primates using iPS cells

iPS細胞を用いた霊長類のエピゲノム進化の研究

*Kenji Ichiyangi¹ (1. Graduate School of Bioagricultural Sciences, Nagoya University)

11:15 AM - 11:45 AM JST | 2:15 AM - 2:45 AM UTC

[S08-05] Towards reconstituting human and non-human primate peri- and post-gastrulation development and organogenesis in vitro

*Cantas Alev¹ (1. Kyoto University, Institute for the Advanced Study of Human Biology (ASHBi), Kyoto, Japan)

11:45 AM - 12:15 PM JST | 2:45 AM - 3:15 AM UTC

[S08-06] Magnitude Matters: Upregulated Gene Expression as a Driver of Human Brain Evolution

*Ikuo K. Suzuki¹, Xuanhao D. Sheu¹ (1. The University of Osaka)

Oral Presentation

Oral Presentation (in English)

📅 Wed. Jun 10, 2026 9:15 AM - 12:00 PM JST | Wed. Jun 10, 2026 12:15 AM - 3:00 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[OP01] Oral Presentation 01: Early Embryogenesis 1

Chairpersons: Ryohei Nakamura (The Univ. of Tokyo), Hiromi Shimojyo (The Univ. of Osaka)

9:15 AM - 9:30 AM JST | 12:15 AM - 12:30 AM UTC

[OP01-01 (P001)] Identifying fates of aneuploid cells in early human development

ヒトの初期胚発生で染色体異常細胞がたどる運命の解明

*Rina C. Sakata^{1,2,3}, Viviane S. Rosa^{1,2,3}, Sarah Cooper³, Mi Trinh³, Sam Behjati^{3,4}, Roser Vento-Tormo^{2,3}, Marta N. Shahbazi^{1,2} (1. MRC Laboratory of Molecular Biology, Cambridge, UK, 2. The Loke Centre for Trophoblast Research, University of Cambridge, Cambridge, UK, 3. Wellcome Sanger Institute, Cambridge, UK, 4. Department of Paediatrics, University of Cambridge, Cambridge)

9:30 AM - 9:45 AM JST | 12:30 AM - 12:45 AM UTC

[OP01-02] A blastocyst-derived in vitro model of the human placenta

*Luca Schwarz¹, Rina Sakata¹, Marta Shahbazi¹ (1. MRC Laboratory of Molecular Biology)

9:45 AM - 10:00 AM JST | 12:45 AM - 1:00 AM UTC

[OP01-03 (P014)] Chromatin landscapes anticipate germ layer formation in the mammalian epiblast

*Miquel Sendra¹, Leo Guignard¹, Miguel Torres^{2,3} (1. Aix-Marseille Université & CNRS, IBDM—UMR7288 & Turing Centre for Living Systems, Marseille, France, 2. Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), 28029 Madrid, Spain, 3. Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares (CIBERCV), Spain)

10:00 AM - 10:15 AM JST | 1:00 AM - 1:15 AM UTC

[OP01-04 (P002)] Cadherin-mediated cell sorting ensures elimination of unfit cells from epiblast of periimplantation embryos in the absence of apoptosis

アポトーシス抑制のマウス着床期胚において、不適切細胞はカドヘリンを介した細胞選別により排除される

*Rui Shibata¹, Masakazu Hashimoto^{2,1}, Hiroshi sasaki¹ (1. The University of Osaka, Graduate School of Frontier Biosciences, 2. Fukushima Medical University, Department of Cell Science)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC

[OP01-05 (P015)] Membrane potential regulates cleavage and cell proliferation in mouse preimplantation embryos

膜電位はマウス着床前胚の卵割と細胞増殖を制御する

*Toshihiro Aramaki¹, Koki Mikami¹, Hiroshi Sasaki¹ (1. Graduate School of Frontier Biosciences, The University of Osaka)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC

[OP01-06] Abrupt suppression of NODAL signaling triggers primitive streak regression and axial body formation in amniote embryos

NODALシグナルの急激な低下が羊膜類における体軸形成と原始線条縮退を誘導する

*Yu Ieda^{1,2}, Carole Phan¹, Olinda Alegria-Prévot¹, Lieng Taing³, Takayuki Suzuki⁴, Aurélien Villedieu¹, Jérôme Gros¹ (1. Institut Pasteur, Université de Paris, CNRS UMR3738, Developmental and Stem Cell Biology Department, 75015 Paris, France., 2. Collège Doctoral, Complexité du Vivant, Sorbonne Université, Paris, France., 3. Institut Pasteur, Université Paris Cité, CNRS UMR 3738, Epigenomics, Proliferation, and the Identity of Cells, Department of Developmental and Stem Cell Biology, 75015 Paris, France., 4. Department of Biology, Graduate School of Science, Osaka Metropolitan University, Osaka, Japan)

10:45 AM - 11:00 AM JST | 1:45 AM - 2:00 AM UTC

[OP01-07 (P016)] Mechanical force generated by the uterine myometrium specifies the direction of the anterior-posterior axis in the mouse post-implantation embryo

子宮筋層からの力がマウス胚の前後軸方向を決める

*Toshihiko Fujimori^{1,2}, Seiya Mikoshiba^{1,3}, Sanae Oka¹, Takaya Abe⁴, Hiroshi Kiyonari⁴ (1. National Institute for Basic Biology, 2. SOKENDAI (The Graduate School of Advanced Studies), 3. Nagoya Univ., 4. Riken BDR)

11:00 AM - 11:15 AM JST | 2:00 AM - 2:15 AM UTC

[OP01-08 (P017)] Significant contribution of neuromesodermal progenitors in the genesis of cephalic neural crest

神経・中胚葉共通前駆体由来する頭部神経堤の発生

*Hisato Kondoh^{1,2}, Takuji Iwasato³, Kagayaki Kato (1. Biohistory Research Hall, 2. National Institute of Genetics, 3. Trans-Scale Biology Center, National Institute for Basic Biology)

11:15 AM - 11:30 AM JST | 2:15 AM - 2:30 AM UTC

[OP01-09 (P018)] ATXN10, a downstream target of Wnt5a, regulates the establishment of planar cell polarity and cilia positioning in the mouse node

Wnt5aの下流因子ATXN10はマウス胚のノードにおける平面内極性の確立と繊毛の配置を制御する

*Rieko Ajima^{1,2}, Toshihiko Fujimori^{1,2} (1. National Institute for Basic Biology, 2. SOKENDAI)

11:30 AM - 11:45 AM JST | 2:30 AM - 2:45 AM UTC

[OP01-10] Developmental staging of the Pacific saury *Cololabis saira*: A reference for a key marine teleost with distinctive embryogenesis

サンマ *Cololabis saira* の発生ステージングと真骨魚類における比較発生研究

*Rie Kusakabe¹, Shinya Yamauchi², Shigehiro Kuraku³ (1. Kansai University, 2. Fukushima Marine Science Museum (Aquamarine Fukushima), 3. National Institute of Genetics)

11:45 AM - 12:00 PM JST | 2:45 AM - 3:00 AM UTC

[OP01-11 (P019)] Analysis of embryonic development variability in *Parhyale hawaiiensis*: From embryo registration to variability measurement.

*Mariam dynar¹ (1. Institut de Biologie du Développement de Marseille (IBDM))

Oral Presentation (in English)

📅 Wed. Jun 10, 2026 9:15 AM - 12:00 PM JST | Wed. Jun 10, 2026 12:15 AM - 3:00 AM UTC | 🏠 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[OP02] Oral Presentation 02: Morphogenesis and Organogenesis 1

Chairpersons: Yuji Atsuta (Kyushu Univ.), Junpei Kuroda (JT BRH)

9:15 AM - 9:30 AM JST | 12:15 AM - 12:30 AM UTC

[OP02-01] Spatial regulation of developmental dynamics during jaw formation in zebrafish embryos

ゼブラフィッシュ胚の顎形成における発生ダイナミクスの空間制御

*Kazutaka Hosoda¹, Daisuke Ohtsuka¹, Sang-Woo Lee¹, Naofumi Kawahira^{1,2}, Toru Kawanishi^{1,3}, Yoshihiro Morishita¹ (1. RIKEN BDR, 2. UCLA, 3. Sci. Tokyo)

9:30 AM - 9:45 AM JST | 12:30 AM - 12:45 AM UTC

[OP02-02 (P051)] Theoretical Insights into Cell Volume Competition: How Mechanical Properties and Basic Cell Processes Shape Interconnected Cysts

細胞はいかにして体積を奪い合うのか：力学的原理と細胞周期が制御する生殖細胞シストの形成メカニズム

*KOYAMA Hiroshi^{1,2} (1. Div. Embryology, National Institute for Basic Biology, 2. SOKENDAI (Graduate Univ. Advanced Studies))

9:45 AM - 10:00 AM JST | 12:45 AM - 1:00 AM UTC

[OP02-03] Newt Hox13 genes terminate somitic and post-somitic programs of caudal vertebral addition

イモリHox13遺伝子は、体節由来および体節後の尾椎追加プログラムを終了させる

*Takashi Takeuchi¹, Haruka Matsubara¹, Takeri Karakawa¹, Reo Soeta¹, Takeshi Inoue¹, Toshinori Hayashi², Gembu Abe¹ (1. Tottori University, 2. Hiroshima University)

10:00 AM - 10:15 AM JST | 1:00 AM - 1:15 AM UTC

[OP02-04] Dynamic interactions between epithelial skin cells and a sensory cavity sculpt the growing olfactory orifice

*Clara Gordillo Pi^{1,2,3}, Mélody Cabrera^{1,2}, Jean-François Gilles^{2,4}, Pierre-Luc Bardet^{1,2}, Alexis Eschstruth^{1,2}, Bonnet Isabelle³, Maire Anne Breau^{1,2}, Marion Baraban^{1,2} (1. Sorbonne Université, CNRS, INSERM, Development, Adaptation and Ageing, Dev2A, F- 75005 Paris, France, 2. Sorbonne Université, CNRS, INSERM, Institut de Biologie Paris-Seine, IBPS, F75005 Paris, France, 3. Institut Curie, Université PSL, Sorbonne Université, CNRS UMR168, Physics of Cells and Cancer, 75005 Paris, France, 4. Imaging Facility, Institut de Biologie Paris-Seine (IBPS))

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC

[OP02-05] Temporal shift in TGF- β signaling shapes avian sternal diversity

TGF- β シグナルの時間的変化が鳥類の胸骨多様性を形づくる

Seung June Kwon¹, Zhaonan Zou², Mizuki Honda³, Shiro Egawa⁴, Shinya Oki², *Yuji Atsuta¹ (1. Kyushu Univ., Dept. Biol., 2. Kumamoto Univ., Inst. Res. Dev. & Ansys., 3. Hiroshima Univ., Grad. Sch. of Integ. Sci. for Life, 4. Kyushu Univ., Dept. Animal & Marine Biosci.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC

[OP02-06 (P029)] Elucidation of the molecular and developmental mechanism by which birds evolutionarily acquired flight feather

鳥類が進化的に風切り羽を獲得した分子機構の解明

*Momoko Kyushin¹, Keiji Kinoshita², Takayuki Suzuki¹ (1. Osaka Metropolitan University, 2. Yunnan Agricultural University)

10:45 AM - 11:00 AM JST | 1:45 AM - 2:00 AM UTC

[OP02-07 (P047)] Root waving enables obstacle-avoiding and diverse gravitropic growth

根の波打ち運動による障害物環境下での重力指向成長と運動多様性の促進

Toya Suzuki¹, Tatsuaki Goh², *Koichi Fujimoto¹ (1. Hiroshima University, 2. Nara Institute of Science and Technology)

11:00 AM - 11:15 AM JST | 2:00 AM - 2:15 AM UTC

[OP02-08 (P060)] How to make a hole in the head: Remodeling of the craniofacial foramen for the hyoid artery in zebrafish

ゼブラフィッシュの頭骨において、血管が通る孔が拡大する仕組み

Miki Iwasaki¹, Junpei Kuroda², Masanori Nakae³, *Hironori Wada¹ (1. Kitasato Univ., 2. JT Biohistory Research Hall; Osaka Univ., 3. National Museum of Nature and Science; Univ. of Tsukuba)

11:15 AM - 11:30 AM JST | 2:15 AM - 2:30 AM UTC

[OP02-09 (P028)] Structure-guided epitope tagging of PITX2C enables chromatin profiling to elucidate gene regulatory networks in cardiac outflow tract morphogenesis

心臓流出路形態形成におけるPITX2Cを介した遺伝子制御ネットワーク解明に向けた構造予測に基づくエピトープタグ設計

*Kana Kitazaki¹, Masaki Shigeta¹, Shinichiro Sakaki^{1,2}, Sou Miyanishi¹, Rie Saba¹, Kenta Yashiro¹ (1. Anatomy & Developmental Biology, Graduate School of Medical Science, Prefectural University of Medicine, 2. Pediatrics, Graduate School of Medicine, The University of Tokyo)

11:30 AM - 11:45 AM JST | 2:30 AM - 2:45 AM UTC

[OP02-10 (P049)] Epithelial tissue mechanics underlying left-right asymmetry

左右非対称性の基盤となる上皮組織力学

*Motohiro Fujiwara¹, Tatsuo Shibata¹ (1. RIKEN BDR)

11:45 AM - 12:00 PM JST | 2:45 AM - 3:00 AM UTC

[OP02-11 (P057)] Cell-intrinsic compliance mechanism enables release of tensile stress to prevent tissue rupture*Chun Wai Kwan¹, Shunta Sakaguchi^{2,3}, Michiko Takeda¹, Takefumi Kondo^{1,2}, Yu-Chiun Wang¹ (1. RIKEN Center for Biosystems Dynamics Research, 2. Graduate School of Biostudies, Kyoto University, 3. Graduate School of Medicine, Nagoya University)

Oral Presentation (in English)

📍 Wed. Jun 10, 2026 3:30 PM - 5:00 PM JST | Wed. Jun 10, 2026 6:30 AM - 8:00 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[OP03] Oral Presentation 03: Metabolism and Disease Models

Chairpersons: Masayuki Oginuma(RIKEN BDR), Takanori Amano(RIKEN BRC)

3:30 PM - 3:45 PM JST | 6:30 AM - 6:45 AM UTC

[OP03-01] a non-autophagic function of an *atg* gene regulates development and lifespan in *Caenorhabditis elegans*

線虫の休眠と寿命制御に関わるatg遺伝子の非オートファジー機能

*Makoto Horikawa^{1,2}, Taiichi Osumi^{1,2}, Sho Harada¹, Shuhei Nakamura^{1,2} (1. Nara Medical University, 2. Center for Autophagy and Anti-Aging Research)

3:45 PM - 4:00 PM JST | 6:45 AM - 7:00 AM UTC

[OP03-02] Biomechanical Dynamics of Cellular Distribution in the Progression of Chronic Inflammation-Induced Colorectal Cancer in Mice Utilizing the AFM-CODEX Integrated Analytical Method

AFM-CODEX統合解析法を用いたマウス慢性炎症誘発性大腸癌発生過程における細胞分布の生体力学的動態

*Hirotaka Tao¹, Kazuki Shimada², Hiroshi Y. Yoshikawa², Takahisa Matsuzaki^{2,3} (1. Department of Environmental Oncology, Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan, 2. Department of Applied Physics, Graduate School of Engineering, Osaka University., 3. Division of Precision Engineering and Applied Physics, Center for Future Innovation, Graduate School of Engineering, Osaka University)

4:00 PM - 4:15 PM JST | 7:00 AM - 7:15 AM UTC

[OP03-03] Hippo tumor suppressor pathway triggers non-cell-autonomous tumorigenesis in *Drosophila*

Hippo腫瘍抑制経路はショウジョウバエにおいて非細胞自律的な腫瘍形成を引き起こす

*Daichi Honda¹, Misako Okumura^{1,2}, Ayano Oi³, Chisako Sakuma^{3,4}, Fumiaki Obata^{3,5}, Toshinori Ando⁶, Masayuki Miura⁷, Takahiro Chihara¹ (1. Graduate School of Integrated Sciences for Life, Hiroshima University, Japan, 2. Graduate School of Life Sciences, Tohoku University, Japan, 3. RIKEN Center for Biosystems Dynamics Research, Japan, 4. RIKEN Pioneering Research Institute, Japan, 5. Graduate School of Biostudies, Kyoto University, Japan, 6. Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan, 7. National Institute for Basic Biology, Japan)

4:15 PM - 4:30 PM JST | 7:15 AM - 7:30 AM UTC

[OP03-04 (P093)] Two hormones from a single endocrine cell coordinate metabolic adaptation to starvation

単一の内分泌組織から分泌されるMmtとAKHは協調的に飢餓応答を調節する

*Yuto Yoshinari^{1,2}, Maiko Abe³, Ryo Hoshino³, Yosuke Mizuno³, Yoshitomo Kurogi³, Eisuke Imura³, Akira Nakamura^{4,5}, Fuminori Tsuruta⁶, Ryusuke Niwa², Takashi Nishimura¹ (1. IMCR, Gunma Univ., 2. TARA, Univ. of Tsukuba, 3. Grad School of Life and Environmental Sciences, Univ. of Tsukuba, 4. IMEG, Kumamoto Univ., 5. Grad School of Pharmaceutical Sciences, Kumamoto Univ., 6. Institute of Life and Environmental Sciences, Univ of Tsukuba)

4:30 PM - 4:45 PM JST | 7:30 AM - 7:45 AM UTC

[OP03-05 (P094)] Recapitulating Chondrogenic Ontogeny: Identifying Conserved Regulatory Checkpoints to Reverse Fibro-chondrogenic Fate in Osteoarthritis

*Taejoon Kwon¹, Donggeon Woo¹, Haeun Kim², Tae Joo Park² (1. Department of Biomedical Engineering, Ulsan National Institute of Science and Technology, 2. Department of Biological Sciences, Ulsan National Institute of Science and Technology)

4:45 PM - 5:00 PM JST | 7:45 AM - 8:00 AM UTC

[OP03-06 (P088)] Generational Toxicity of Virgin and Artificially induced weathered PVC microplastics in Zebrafish (*Danio rerio*) development

ゼブラフィッシュ (*Danio rerio*) の発生における、未処理および人工的に風化させたPVCマイクロプラスチックの世代毒性

*ASSIDDIK SAPII YAHSIN¹ (1. Department of Biological Sciences - Mindanao State University - Iligan Institute of Technology)

Oral Presentation (in English)

📅 Wed. Jun 10, 2026 5:00 PM - 6:45 PM JST | Wed. Jun 10, 2026 8:00 AM - 9:45 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[OP03] Oral Presentation 03: Reproduction and Germ cells

Chairpersons: Daisuke Saito (Kyushu Univ.), Takuya Imamura (Hiroshima Univ.)

5:00 PM - 5:15 PM JST | 8:00 AM - 8:15 AM UTC

[OP03-07] Recapitulation of Murine Gonadal Masculinization Enables Functional Testicular Organoids

マウス性腺の雄性化の発生学的再現による精巣オルガノイド構築

*Takashi Yoshino¹, Katsuhiko Hayashi¹ (1. University of Osaka)

5:15 PM - 5:30 PM JST | 8:15 AM - 8:30 AM UTC

[OP03-08 (P106)] Timely meiotic initiation synchronizes *Mael* upregulation to prevent LINE1-induced oocyte elimination

*Ryuki Shimada¹, Kei-ichiro Ishiguro¹ (1. Chiba University)

5:30 PM - 5:45 PM JST | 8:30 AM - 8:45 AM UTC

[OP03-09 (P107)] Importance of minor intron splicing in spermatogenesis gene expression

精子形成関連遺伝子発現におけるマイナーイントロンのスプライシングの重要性

*Kazumasa Takemoto¹ (1. Kansai medical university)

5:45 PM - 6:00 PM JST | 8:45 AM - 9:00 AM UTC

[OP03-10 (P097)] Functional Analysis of the Ubiquitin E3 Ligase Kumo in the piRNA Pathway Protecting the Germline Genome

*Hinano Minami¹, Toshie Kai^{1,2}, Shinichi Kawaguchi², Hilotetsu Gan², Wakana Isshiki¹ (1. The University of Osaka, 2. Kyoto University)

6:00 PM - 6:15 PM JST | 9:00 AM - 9:15 AM UTC

[OP03-11] Piwi inhibits ribosomal DNA copy number expansion in the male germline of *Drosophila*

Piwiはショウジョウバエ雄性生殖系列におけるリボソームDNAコピー数増幅を抑制する

*George J Watase¹, Adam O Aldahir^{1,2}, Akira Nakamura¹ (1. Kumamoto Univ., 2. Tulane Univ.)

6:15 PM - 6:30 PM JST | 9:15 AM - 9:30 AM UTC

[OP03-12 (P108)] Sex-specific systemic regulation of aging mediated by germ cells

生殖細胞が司る性特異的な全身老化制御

*Kota Abe¹, Tohru Ishitani¹ (1. The University of Osaka)

6:30 PM - 6:45 PM JST | 9:30 AM - 9:45 AM UTC

[OP03-13 (P098)] Conserved and Divergent Mechanisms of Membrane Bleb-Driven Extravasation

ブレブによる血管外遊出の保存された機構と多様な戦略：始原生殖細胞とがん細胞の比較から

*Mizuki Morita¹, Junichi Ikenouchi¹, Takayuki Teramoto¹, Daisuke Saito¹ (1. Kyushu University)

Oral Presentation (in English)

📅 Wed. Jun 10, 2026 3:30 PM - 6:00 PM JST | Wed. Jun 10, 2026 6:30 AM - 9:00 AM UTC | 🏢 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[OP04] Oral Presentation 04: Stem Cells and Regeneration 1

Chairpersons: Yuichiro Nakajima (The Univ. of Tokyo), Rio Tsutsumi (Kyoto Univ.)

3:30 PM - 3:45 PM JST | 6:30 AM - 6:45 AM UTC

[OP04-01] Deciphering the self-organizing principles regulating hierarchical transitions in a tumor lineage

*Emma Legait¹ (1. IBDM)

3:45 PM - 4:00 PM JST | 6:45 AM - 7:00 AM UTC

[OP04-02] BubR1 and Mad2 regulate intestinal stem cell dynamics during adult midgut remodeling in *Drosophila* diapause

BubR1とMad2はショウジョウバエ休眠期における成虫中腸リモデリング時の腸幹細胞動態を制御する

Yuya Adachi¹, Miyu Nagao¹, Tenki Nakasugi¹, Hiroki Nagai^{2,1}, Hiroko Nakatani¹, Takako Fujichika⁴, Aya Takahashi⁴, Masayuki Miura^{3,1}, *Yuichiro Nakajima¹ (1. The University of Tokyo, 2. ISTA, 3. National Institute for Basic Biology, 4. Tokyo Metropolitan University)

4:00 PM - 4:15 PM JST | 7:00 AM - 7:15 AM UTC

[OP04-03] Spatial transcriptomics revealed gene expression patterns around planarian neoblasts

空間的トランスクリプトーム解析によって、プラナリアのネオブラスト周辺の遺伝子発現パターンが明らかになった

*Ren Adachi¹, Makoto Kashima¹ (1. Toho University)

4:15 PM - 4:30 PM JST | 7:15 AM - 7:30 AM UTC

[OP04-04] Species-Independent Method Preserves RNA Integrity During In Situ RNA Labeling and FACS Isolation of Target Cells

知りたい細胞の遺伝子発現を見れる～生物種を問わず、染色・FACS分取後もRNA品質を維持可能な手法の開発～

*Miran Deguchi¹, Makoto Kashima¹ (1. Toho University)

4:30 PM - 4:45 PM JST | 7:30 AM - 7:45 AM UTC

[OP04-05 (P112)] Examining The Effect Of Laminin On The Differentiation, Maturation And Behaviour Of *In Vitro* Cardiomyocytes

*Clara Celeste Bick^{1,2}, Masaki Shigeta¹, Kenta Yashiro¹ (1. Kyoto Prefectural University of Medicine, 2. Maastricht University)

4:45 PM - 5:00 PM JST | 7:45 AM - 8:00 AM UTC

[OP04-06 (P125)] Topography-driven spatial patterning of epidermal proliferation in a 3D skin culture with a micropatterned collagen scaffold

マイクロパターン付きコラーゲン足場材を用いた皮膚三次元培養系における表皮幹細胞の凹凸依存的な増殖の空間的パターン

*Mizuho Ishikawa¹, Youna Katanosaka^{1,2}, Kenji Izumi³, Aiko Sada¹ (1. Div. of Skin Regeneration and Aging, MIB, Kyushu Univ., 2. Grad. Sch. of Med. Sci., Kyushu Univ., 3. Div. of Biomimetics, Grad. Sch. of Med and Dent. Sci., Niigata Univ.)

5:00 PM - 5:15 PM JST | 8:00 AM - 8:15 AM UTC

[OP04-07 (P126)] Generation of rat-derived kidney through interspecies blastocyst complementation

胚盤胞補完法によるラット多能性幹細胞由来の腎臓の作製

*Shunsuke Yuri¹, Ayako Isotani² (1. NCGG, 2. NAIST)

5:15 PM - 5:30 PM JST | 8:15 AM - 8:30 AM UTC

[OP04-08 (P113)] Toward generation of snake pluripotent stem cells from embryonic fibroblasts

*Shoma Kuriyama¹, yuji Atsuta^{1,2} (1. Grad. Sch. Syst. Life Sci., Kyushu Univ., 2. Dept. Biol., Fac. Sci., Kyushu Univ.)

5:30 PM - 5:45 PM JST | 8:30 AM - 8:45 AM UTC

[OP04-09 (P114)] Inorganic phosphate redirects osteosarcoma cell fate toward an osteocyte-like lineage

無機リン酸による骨肉腫細胞の骨分化プログラムの再活性化

*Yuya Suzuki^{1,2}, Makoto Takeuchi^{1,3}, Ryohei Katayama^{1,2,4}, Satoshi Takagi¹ (1. Div. Experiment. Chemother., Cancer Chemother. Ctr., JFCR, 2. Dept. Cancer Therapeutics, Grad. Sch. Pharm. Sci., Nagoya City Univ., 3. Dept. Orthop. Surg., Fac. Med., Inst. Biomed. Sci., Tokushima Univ., 4. CBMS, Grad. Sch. Front. Sci., Univ. of Tokyo)

5:45 PM - 6:00 PM JST | 8:45 AM - 9:00 AM UTC

[OP04-10 (P115)] A Generalizable Strategy to Identify and Purify Organoid-Forming Stem Cells Across Tissues

*LINGNA YU^{1,2}, Nozomi Hojo¹, Yungyu Tsai¹, Katsuyuki Shiroguchi¹ (1. RIKEN Center for Biosystems Dynamics Research (BDR), 2. The University of Osaka)

Oral Presentation (in English)

📅 Wed. Jun 10, 2026 6:00 PM - 6:45 PM JST | Wed. Jun 10, 2026 9:00 AM - 9:45 AM UTC | 🏠 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[OP04] Oral Presentation 04: Evolution of Genome and Morphology

Chairpersons: Yuuri Yasuoka(The Univ. of Osaka), Yui Uchida(RIKEN BDR)

6:00 PM - 6:15 PM JST | 9:00 AM - 9:15 AM UTC

[OP04-11] A Spatial *Rule in Ladybird* Color-Pattern Polymorphism Points to a Spot-Positioning Mechanism.

テントウムシの種内斑紋多型における形態ルールから解き明かす斑紋位置決定機構

*Ryo Takeda¹, Koichi Fujimoto¹ (1. Hiroshima University Graduate School of Integrated Sciences for Life, Hiroshima University)

6:15 PM - 6:30 PM JST | 9:15 AM - 9:30 AM UTC

[OP04-12] Morphology and transcriptomics of interspecific hybrid embryos provide genomic insights into cold adaptation in *Xenopus laevis*

種間交雑胚の形態およびトランスクリプトーム解析から探るアフリカツメガエルにおける低温適応のゲノム基盤

*Yuuri Yasuoka¹, Asako Shindo¹ (1. Univ. of Osaka)

6:30 PM - 6:45 PM JST | 9:30 AM - 9:45 AM UTC

[OP04-13] Dissecting long non-coding RNA function using *in vivo* synthetic biology

*Natalia Benetti¹, Tamara Lelçaj¹, Wassim Zahir¹, Alessa Ringel¹, Andreas Magg¹, Lars Wittler¹, Judith Fiedler¹, Lila Allou³, Stefan Mundlos^{1,2} (1. Max Planck Institute for Molecular Genetics, Berlin, Germany, 2. Institute of Medical Genetics and Human Genetics, Charité Universitätsmedizin, Berlin, Germany, 3. Medical Research Council Laboratory of Medical Sciences, London, United Kingdom)

Oral Presentation (in English)

📍 Thu. Jun 11, 2026 9:15 AM - 10:30 AM JST | Thu. Jun 11, 2026 12:15 AM - 1:30 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[OP05] Oral Presentation 05: Early Embryogenesis 2

Chairpersons: Shunsuke Yaguchi (The Univ. of Tsukuba)

9:15 AM - 9:30 AM JST | 12:15 AM - 12:30 AM UTC

[OP05-01 (P003)] Environmental stresses break developmental robustness by interfering with cell competition

環境ストレスは細胞競争を阻害することで発生ロバストネスを脆弱化する

*Hikari Ukawa¹, Yuki Akieda¹, Tohru Ishitani¹ (1. Department of Homeostatic Regulation, Division of Cellular and Molecular Biology, Research Institute for Microbial Diseases, The University of Osaka)

9:30 AM - 9:45 AM JST | 12:30 AM - 12:45 AM UTC

[OP05-02] Developmental stage-dependent roles of large-scale 3D chromatin architecture and cohesin in transcriptional regulation during early embryogenesis

初期胚発生におけるクロマチン3次元構造およびコヒーシンの発生段階依存的な転写制御機能

*Ryohei Nakamura¹ (1. University of Tokyo)

9:45 AM - 10:00 AM JST | 12:45 AM - 1:00 AM UTC

[OP05-03] Glucagon Enhances Lysosome-Dependent Wnt Signaling in Colon Adenocarcinoma Cells and Early Embryos

*Nydia Tejada Munoz¹ (1. Oklahoma University)

10:00 AM - 10:15 AM JST | 1:00 AM - 1:15 AM UTC

[OP05-04 (P004)] Stage-dependent changes in tensile force requirements for *Xenopus* ectoderm differentiation

ツメガエル胚の外胚葉領域分化における張力に対する応答は、発生段階によって変化する

*Takuma Kitamura¹, Tatsuo Michiue^{2,3}, Takayoshi Yamamoto^{1,4} (1. School Education Course, Faculty of Education, Tokyo Gakugei University, Tokyo, Japan, 2. Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Tokyo, Japan, 3. Department of Biological Sciences, Graduate School of Science, The University of Tokyo, Tokyo, Japan, 4. Graduate School of Teacher Education (Professional Degree Program), Tokyo Gakugei University, Tokyo, Japan)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC

[OP05-05 (P005)] PGC-1-related coactivator-mediated mitochondrial biogenesis is required for ciliary motility in the *Xenopus* epidermis.

PGC-1 関連共役因子 (PRC) を介したミトコンドリア生合成は、アフリカツメガエル胚表皮の繊毛運動に必要である。

*Jihoon Kim¹, Takayuki Teramoto², Kanji Okumoto², Eisei Matsui¹, Yoshiyuki Anchi¹, Arata Imamura¹, Naho Okano¹, Nobushige Nakajo² (1. Graduate School of Systems Life Sciences, Kyushu University, 2. Graduate School of Sciences, Kyushu University)

Oral Presentation (in English)

📅 Thu. Jun 11, 2026 10:30 AM - 12:15 PM JST | Thu. Jun 11, 2026 1:30 AM - 3:15 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[OP05] Oral Presentation 05: Morphogenesis and Organogenesis 2

Chairpersons: Masafumi Inui (Meiji Univ.), Takayoshi Yamamoto (Tokyo Gakugei Univ.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC

[OP05-06 (P048)] Dynamics of SOX17-expressing endothelial precursors during vascular network formation integrating extraembryonic and embryonic circulation

胚体内外の血流を統合する血管内皮ネットワーク形成における SOX17 陽性前駆細胞群の動態

*Rie Saba¹, Naoki Takeshita¹, So Miyanishi¹, Kana Kitazaki¹, Mitsuru Morimoto², Kenta Yashiro¹ (1. Kyoto Prefectural University of Medicine, 2. RIKEN, BDR)

10:45 AM - 11:00 AM JST | 1:45 AM - 2:00 AM UTC

[OP05-07 (P031)] 3D imaging of the pulmonary vein-left atrium connection in mouse embryogenesis

マウス胚発生における肺静脈-左心房接合部の3Dイメージング

*Sou Miyanishi¹, Rie Saba¹, Kana Kitazaki¹, Naoki Takeshita^{1,2}, Yoshiro Nakajima¹, Kenta Yashiro¹ (1. Anatomy & Developmental Biology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, 2. Pediatrics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine)

11:00 AM - 11:15 AM JST | 2:00 AM - 2:15 AM UTC

[OP05-08 (P062)] Coupling cell differentiation to dewetting can explain villus elongation

*Dominic Keir Devlin^{1,2}, Shuji Ishihara¹, Nobuto Takeuchi² (1. Graduate School of Arts and Sciences, University of Tokyo, 2. School of Biological Sciences, University of Auckland)

11:15 AM - 11:30 AM JST | 2:15 AM - 2:30 AM UTC

[OP05-09 (P052)] A novel gelatinization imaging unravels three-dimensional topology of the house, an animal cellulose-based structure.

新規ゲル化イメージング法によるオタマボヤハウスの三次元形状の再構築および新しい繊維構造の解明

*Takeshi A Onuma¹, Kentaro Morikawa², Kouta Koga¹, Shinichiro Ikeda¹, Haruhiko Adachi¹, Makiko Miwa¹, Satomi Kamimura^{1,4}, Kyoko Komano⁴, Shintaro Yamasaki⁵, Masakazu Akiyama⁶, Shigeru Kondo³, Yasuhiro Inoue², Noriko Funayama⁴, Hiroki Nishida⁷ (1. Graduate School of Science and Engineering, Faculty of Science, Kagoshima University, 1-21-35 Korimoto, Kagoshima 890-0065, Japan, 2. Department of Micro Engineering, Kyoto University, Kyotodaigaku-Katsura, Nishikyo, Kyoto 615-8540, Japan, 3. Graduate School of Frontier Biosciences, Osaka University, 1-3 Yamadaoka, Suita, Osaka 565-0871 Japan, 4. Division of Biological Sciences, Graduate School of Science, Kyoto University, Kitashirakawa Oiwake, Sakyo-ku, Kyoto 606-8502, Japan, 5. Graduate School of Information, Production and Systems, Waseda University, 2-7 Hibikino, Wakamatsu, Kitakyushu, Fukuoka 808-0135, Japan, 6. Department of Mathematics, Faculty of Science, University of Toyama, 3190 Gofuku, Toyama, 930-8555, Japan, 7. Department of Biological Sciences, Graduate School of Science, Osaka University, 1-1 Machikaneyama-cho, Toyonaka, Osaka 560-0043, Japan)

11:30 AM - 11:45 AM JST | 2:30 AM - 2:45 AM UTC

[OP05-10 (P030)] Peristaltic contractions drive gut anisotropic growth through collective cell rearrangements

腸蠕動が駆動する集団的細胞再配置による腸の異方性成長

*Koji Kawamura¹, Yoshiko Takahashi¹, Masafumi Inaba¹ (1. graduate school of faculty of science, Kyoto university)

11:45 AM - 12:00 PM JST | 2:45 AM - 3:00 AM UTC

[OP05-11 (P032)] Forming a Periodic Photoreceptor Cell Pattern in the Zebrafish Retina in Silico: Effect of Cell Orientation

in silicoにおけるゼブラフィッシュ網膜の周期的な光受容細胞パターン形成：細胞の配向が及ぼす影響

*Keiichi Yamamoto^{1,2}, Takashi Okada^{2,4}, Yuji Sakai³, Atsushi Mochizuki² (1. Graduate School of Science, Kyoto Univ., 2. Institute for Life and Medical Science, Kyoto Univ., 3. Yokohama City Univ., 4. Interdisciplinary Theoretical and Mathematical Sciences Program (iTHEMs), Riken)

12:00 PM - 12:15 PM JST | 3:00 AM - 3:15 AM UTC

[OP05-12] Coordinated development and growth of skeletal muscle and tendon: How do tissues with different origins develop in concert?

骨格筋と腱の協調的な発達と成長：異なる起源を持つ組織はどのように協調して発達するのか？

*Yutaro Kawa¹, Yuki Yamasaki¹, Ramu Sagasaki¹, Masafumi Inui¹ (1. Department of Life Sciences, School of Agriculture, Meiji University)

Oral Presentation (in English)

📅 Thu. Jun 11, 2026 9:15 AM - 10:45 AM JST | Thu. Jun 11, 2026 12:15 AM - 1:45 AM UTC | 🏠 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[OP06] Oral Presentation 06: Stem Cells and Regeneration 2

Chairpersons: Akira Satoh (Okayama Univ.)

9:15 AM - 9:30 AM JST | 12:15 AM - 12:30 AM UTC

[OP06-01] Transcriptomic analysis reveals common and distinct features of limb and skin regeneration in *Xenopus laevis*

トランスクリプトームから見たアフリカツメガエルの四肢再生・皮膚再生の共通性および特異性

Rina Sato¹, Takuya Kobayashi², Ayumi Konishi¹, Ikuo Uchiyama³, Kentaro Abo¹, Hiroyo Nishide³, Hiroki Sugiura³, Mikiko Kotani¹, Ryusei Tsushima¹, Ayumi Yamato¹, Katsushi Yamaguchi³, Shuji Shigenobu³, Michiko Sasabe¹, Koji Tamura², *Hitoshi Yokoyama¹ (1. Hirosaki University, 2. Tohoku University, 3. National Institute for Basic Biology)

9:30 AM - 9:45 AM JST | 12:30 AM - 12:45 AM UTC

[OP06-02 (P127)] Preceding collagen fibers determines subsequent collagen morphology during axolotl skin regeneration

アホロートル皮膚再生における先行コラーゲン線維によるコラーゲン構造形成制御

*Ayaka Ohashi¹, Akira Satoh¹ (1. Okayama Univ.)

9:45 AM - 10:00 AM JST | 12:45 AM - 1:00 AM UTC

[OP06-03 (P128)] Regeneration of behavior and histological structure from spinal cord injury in Iberian ribbed newt *Pleurodeles waltl*

イベリアアゲイモリ *Pleurodeles waltl* の脊髄再生に伴う行動および組織構造の変化

*Yuki Sato¹, Shinichi Hayashi¹, Ryohei Seki-Omura¹, Souichi Oe¹, Taro Koike¹, Yousuke Nakano¹, Hikaru Iwashita¹, Yukie Hirahara¹, Masaaki Kitada¹ (1. Kansai Medical Univ.)

10:00 AM - 10:15 AM JST | 1:00 AM - 1:15 AM UTC

[OP06-04 (P116)] FGF2 Rescues Denervation-Induced Muscle Atrophy in *Ambystoma mexicanum*

*HARUKI NAKAYAMA¹, Akira Satoh¹ (1. Okayama University)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC

[OP06-05 (P117)] Initiating regeneration: Insights from genes with regeneration-specific expression dynamics

*Kai Guido Hofmänner^{1,2}, Eric Röttinger², Aldine Amiel² (1. SFB, 2. Université côte d'azur)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC

[OP06-06 (P129)] Study on the relationship between cellular heterogeneity of blastema and tissue stem cell-like cells in an annelid

環形動物における再生芽細胞不均一性と「組織幹細胞」システムの関係

*Shinji Yamaguchi¹, Toshiyuki Fujita¹ (1. Teikyo University)

Oral Presentation (in English)

📅 Thu. Jun 11, 2026 10:45 AM - 12:15 PM JST | Thu. Jun 11, 2026 1:45 AM - 3:15 AM UTC | 🏠 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[OP06] Oral Presentation 06: Neural Development

Chairpersons: Kenji Shimamura (Kumamoto Univ.), Takumi Kawaue (Kyoto Univ.)

10:45 AM - 11:00 AM JST | 1:45 AM - 2:00 AM UTC

[OP06-07 (P141)] Human-specific genetic/epigenetic setting of *NRSN2* functions in neural stem cell proliferation with a primate-specific gene, *APOL2*

*Mayuri Tokunaga¹, Boyang An¹, Akari Ando¹, Arisa Makimura¹, Hiroto Akuta¹, Fumihiro Morishita¹, Mizuki Honda¹, Takuya Imamura¹ (1. Graduate School of Integrated Sciences for Life, Hiroshima Univ.)

11:00 AM - 11:15 AM JST | 2:00 AM - 2:15 AM UTC

[OP06-08 (P150)] Time-scaling of developmental brain programs: an epigenetic-metabolic axis

大脳発生プログラムの時間スケールリング：エピゲノムと代謝による制御

*Fumio Matsuzaki^{1,2}, Taeko Suetsugu^{1,2}, Hideya Sakaguchi², Hiroshi Kiyonari², Quan Wu^{1,2} (1. Kyoto University Graduate School of Medicine, 2. RIKEN Center for Biosystems Dynamics Research)

11:15 AM - 11:30 AM JST | 2:15 AM - 2:30 AM UTC

[OP06-09] Developmental Origin and Differentiation of Cerebellar Output Neurons in Zebrafish

*Yukimi Fujii¹, Enkhjin Ulzii¹, Takashi Shimizu¹, Masahiko Hibi¹ (1. Graduate School of Science, Nagoya University)

11:30 AM - 11:45 AM JST | 2:30 AM - 2:45 AM UTC

[OP06-10 (P149)] CaMPARI-seq: Bridging the functional-molecular gap between neuronal activity and transcriptomic profiles

*Koji Matsuda^{1,2}, Chung-Han Wang^{1,2,3}, Hisaya Kakinuma¹, Atsushi Toyoda⁴, Tomoya Shiraki⁵, Koichi Kawakami⁵, Fumi Kubo^{1,2} (1. Laboratory for Sensorimotor Integration, RIKEN Center for Brain Science, 2. Systems Neuroscience Laboratory, National Institute of Genetics, 3. SOKENDAI (Graduate University for Advanced Studies), 4. Comparative Genomics Laboratory, National Institute of Genetics, 5. Laboratory of Molecular and Developmental Biology, National Institute of Genetics)

11:45 AM - 12:00 PM JST | 2:45 AM - 3:00 AM UTC

[OP06-11] An orthogonal Cro/O_R3 binary expression system reveals a link between astrocyte-mediated glutamate homeostasis and motor neuron positioning

Cro/O_R3 遺伝子発現システムにより明らかになったアストロサイト依存性グルタミン酸恒常性と運動ニューロンの位置決定の関連

*Kazuhide Asakawa^{1,2}, Kimiko Saka¹, Yukiko Yoshida¹, Saki Yamaura¹, Naoko Mouri¹, Haruna Nakajo^{1,2} (1. National Institute of Genetics, 2. SOKENDAI)

12:00 PM - 12:15 PM JST | 3:00 AM - 3:15 AM UTC

[OP06-12 (P148)] *Eip93F*-centered Genetic Network Regulates Kenyon Cell Identity and Function in *Drosophila* Mushroom Bodies

Pei-Chi Chung¹, *Hung-Hsiang Yu¹ (1. Institute of Cellular and Organismic Biology, Academia Sinica)

Oral Presentation (in English)

📅 Fri. Jun 12, 2026 9:15 AM - 12:15 PM JST | Fri. Jun 12, 2026 12:15 AM - 3:15 AM UTC | 🏠 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[OP07] Oral Presentation 07: Morphogenesis and Organogenesis 3

Chairpersons: Koji Hotta (Keio Univ.), Gembu Abe (Tottori Univ.)

9:15 AM - 9:30 AM JST | 12:15 AM - 12:30 AM UTC

[OP07-01 (P059)] Residual Tail Twisting in Ascidian Larvae Is Stabilized by Asymmetric Myofibrils Against Bilateral Symmetry Restoration

ホヤ幼生における残存尾ねじれは左右対称性の回復に抗し非対称筋原線維によって安定化される

Yuki S Kogure^{1,2}, Misaki K Nishio¹, Satoru Okuda², *Kohji Hotta¹ (1. Department of Bioscience and Informatics, Faculty of Science and Technology, Keio University, 2. Nano Life Science Institute, Kanazawa University, Kakuma-machi, Kanazawa 920-1192, Japan)

9:30 AM - 9:45 AM JST | 12:30 AM - 12:45 AM UTC

[OP07-02 (P046)] CWN-2/Wnt localization is opposite to its gradient and challenges morphogen gradient model of polarity regulation.

*Tazhibayeva Samal^{1,2}, Hitoshi Sawa^{1,2} (1. Multicellular Organization Laboratory, National Institute of Genetics, 2. Department of Genetics, School of Life Science, The Graduate University for Advanced Studies, SOKENDAI)

9:45 AM - 10:00 AM JST | 12:45 AM - 1:00 AM UTC

[OP07-03] High-Resolution Transcriptome-based Staging of Rice Anther Development Reveals the Effects of Growth Temperature

単一穎花由来多検体RNA-Seqによるイネ葯発生過程の高精度ステージングと生育温度の影響の解析

*Akiha Kagehira¹, Makiko Kawagishi², Makoto Kashima¹ (1. Toho University, 2. Institute of Agrobiological Sciences, NARO)

10:00 AM - 10:15 AM JST | 1:00 AM - 1:15 AM UTC

[OP07-04 (P054)] Digit Morphogenesis Emerges from Self-Organizing Limb Mesenchyme Organoids

肢間充織オルガノイドの自己組織化による指形態形成

*Rio Tsutsumi Tsutsumi^{1,2}, Antoine Nicholas Diez³, Steffen Plunder¹, Mototsugu Eiraku² (1. Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University, Japan, 2. Institute for Life And Medical Sciences (LiMe), Kyoto University, Japan, 3. Mathematical Application Research Team, Division of Applied Mathematical Science, RIKEN Center for Interdisciplinary Theoretical and Mathematical Sciences (iTHEMS), Japan)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC

[OP07-05] Morphogenesis and cell fate during olfactory epithelium formation

Vincent Demont¹, Aurélie Millaud¹, Clément Cazorla¹, Gaëlle Letort², Anne Pizzoccaro¹, Pascale Dufourcq¹, Frédérique Gaits-Iacovoni¹, Marion Aguirrebengoa³, Tomas Caetano³, David Sanchez⁴, Delphine Labourdette^{5,6}, *Julie BATUT¹ (1. Unité de Biologie Moléculaire, Cellulaire et du Développement (MCD, UMR5077), Centre de Biologie Intégrative (CBI, FR 3743), Université de Toulouse, CNRS, UPS, 31062, France., 2. Institut Pasteur, Université de Paris, CNRS UMR3738, Department of Developmental and Stem Cell Biology, F-75015 Paris, France, 3. BigA, NGS Data Analysis Facility, Center of Integrative Biology (CBI, FR 3743), Université de Toulouse, CNRS, 31062 Toulouse, France., 4. INSA, Département Génie Mathématique et Modélisation, 135 avenue de Ranguéil 31077 Toulouse Cédex 4, France., 5. Plateforme GeT, Genotoul, 31100 Toulouse, France., 6. Laboratoire d'Ingénierie des Systèmes Biologiques et des Procédés, Université de Toulouse, CNRS, INRA, INSA, 31077 Toulouse, France.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC

[OP07-06 (P050)] Developmental diversity and molecular programs underlying rostral craniofacial clefting in bats

コウモリ類の吻側裂隙における発生過程の多様性と分子基盤

*Fumiya Meguro¹, Daisuke Koyabu^{1,2} (1. Univ. of Tsukuba, Japan, 2. Sun Yat-sen Univ., China)

10:45 AM - 11:00 AM JST | 1:45 AM - 2:00 AM UTC

[OP07-07 (P033)] BMP signaling regulate the cell and tissue dynamics during the zebrafish pectoral fin development.

BMPシグナリング経路がゼブラフィッシュの胸鰭原基形成過程において組織と細胞の形態を制御する

*Shun Okayama¹, Masahiro Uesaka¹, Gembu Abe², Yoshihiro Morishita³, Koji Tamura¹ (1. Laboratory of Organ Morphogenesis Department of Ecological Developmental Adaptability Life Sciences Tohoku University Graduate School of Life Sciences, 2. Division of Developmental Biology, Department of Functional Morphology, School of Life Science, Faculty of Medicine, Tottori University, 3. Laboratory for Developmental Morphogeometry RIKEN Center for Biosystems Dynamics Research (BDR))

11:00 AM - 11:15 AM JST | 2:00 AM - 2:15 AM UTC

[OP07-08 (P056)] Extending the temporal window of *ex utero* mouse embryo culture through system optimization

培養系最適化によるマウス子宮外胚培養期間の延伸

*Akihiro Nita¹, Toshiro Moroishi¹ (1. Div. of Cellular Dynamics, Med. Res. Lab., Inst. of Integr. Res., Inst. of Science Tokyo)

11:15 AM - 11:30 AM JST | 2:15 AM - 2:30 AM UTC

[OP07-09] Environmental light during development biases nematode polyphenism through oxidative stress

*Hirokuni Hiraga¹, Ageha Onodera¹, Chinatsu Kai², Kenichi Nakayama³, Keimei Ko¹, Takahiro Chihara¹, Misako Okumura^{1,4} (1. Grad. Sch. of Integr. Sci. for Life, Hiroshima Univ., 2. Sch. of Sci., Hiroshima Univ., 3. Johns Hopkins Univ. Sch. of Med., 4. Grad. Sch. of Life Sci., Tohoku Univ.)

11:30 AM - 11:45 AM JST | 2:30 AM - 2:45 AM UTC

[OP07-10 (P055)] Trans-scale microscopy revealed a wide-range, compensating cell behaviors during hierarchical vascular patterning

血管の階層性ネットワーク構造を生み出す広域的・補償的細胞挙動の解明

*Yuki Sato¹, Taishi Kakizuka², Keiko Itano², Shinnosuke Ishikawa¹, Hiroya Itoga⁴, Ko Sugawara⁴, Shuichi Onami⁴, Takeharu Nagai², Taro Ichimura^{2,3} (1. Kyushu University, 2. Osaka University, 3. Tokushima University, 4. RIKEN BDR)

11:45 AM - 12:00 PM JST | 2:45 AM - 3:00 AM UTC

[OP07-11 (P063)] Ultraslow Tail Wagging and Overshooting Bend Recovery Imply Feedback-Guided Body Straightening in *Xenopus* Tadpoles

超低速尾端振動とオーバーシュート曲げ回復が示唆するツメガエルオタマジャクシのフィードバック型体軸まっすぐ制御機構

*Soichiro Kato¹, Iroha Nakane¹, Yuki Asakura¹, Asako Shindo¹ (1. The University of Osaka)

12:00 PM - 12:15 PM JST | 3:00 AM - 3:15 AM UTC

[OP07-12 (P058)] Cardiopharyngeal neural crest diversification with spatial identity revealed by multimodal analysis

多階層解析により明らかとなった心臓咽頭領域を構成する神経堤細胞の空間多様性

*Akiyasu Iwase¹, Mayuko Kida¹, Yukihiro Harada², Yunce Wang², Chisa Shukunami³, Haruhiko Akiyama⁴, Masahide Seki¹, Akinori Kanai¹, Yutaka Suzuki¹, Teruhisa Kawamura², Osamu Nakagawa^{2,5}, Hiroto Katoh^{1,6}, Shumpei Ishikawa^{1,6}, Youichiro Wada¹, Yukiko Kurihara^{1,7}, Sachiko Miyagawa-Tomita^{1,8}, Hiroki Kurihara^{1,9} (1. Univ. of Tokyo, 2. Ritsumeikan Univ., 3. Hiroshima Univ., 4. Gifu Univ., 5. NCCV, 6. NCC-EPOC, 7. Kagawa Nutr. Univ., 8. Yamazaki Univ., 9. Kumamoto Univ.)

Poster Presentation

Mounting:	15:30-17:00 on Day1 (June 9 (Tue))
June 10 (Wed) Discussion:	13:40-14:30 for odd number posters 14:30-15:20 for even number posters
June 11 (Thu) Discussion:	13:40-14:30 for even number posters 14:30-15:20 for odd number posters
Removal:	9:00-12:00 on Day4 (June 12 (Fri))

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏠 Early Embryogenesis(JMS ASTERPLAZA 1F)

[P01] Poster Presentation Early Embryogenesis (P001-P026)

" **[PA]** PXXX" number is Poster Award candidate.

◆ Poster Award candidate

[**[PA]** P001(OP01-01)] Identifying fates of aneuploid cells in early human development

ヒトの初期胚発生で染色体異常細胞がたどる運命の解明

*Rina C. Sakata^{1,2,3}, Viviane S. Rosa^{1,2,3}, Sarah Cooper³, Mi Trinh³, Sam Behjati^{3,4}, Roser Vento-Tormo^{2,3}, Marta N. Shahbazi^{1,2} (1. MRC Laboratory of Molecular Biology, Cambridge, UK, 2. The Loke Centre for Trophoblast Research, University of Cambridge, Cambridge, UK, 3. Wellcome Sanger Institute, Cambridge, UK, 4. Department of Paediatrics, University of Cambridge, Cambridge)

◆ Poster Award candidate

[**[PA]** P002(OP01-04)] Cadherin-mediated cell sorting ensures elimination of unfit cells from epiblast of periimplantation embryos in the absence of apoptosis

アポトーシス抑制のマウス着床期胚において、不適切細胞はカドヘリンを介した細胞選別により排除される

*Rui Shibata¹, Masakazu Hashimoto^{2,1}, Hiroshi sasaki¹ (1. The University of Osaka, Graduate School of Frontier Biosciences, 2. Fukushima Medical University, Department of Cell Science)

◆ Poster Award candidate

[**[PA]** P003(OP05-01)] Environmental stresses break developmental robustness by interfering with cell competition

環境ストレスは細胞競争を阻害することで発生ロバストネスを脆弱化する

*Hikari Ukawa¹, Yuki Akieda¹, Tohru Ishitani¹ (1. Department of Homeostatic Regulation, Division of Cellular and Molecular Biology, Research Institute for Microbial Diseases, The University of Osaka)

◆ Poster Award candidate

[**[PA]** P004(OP05-04)] Stage-dependent changes in tensile force requirements for *Xenopus* ectoderm differentiation

ツメガエル胚の外胚葉領域分化における張力に対する応答は、発生段階によって変化する

*Takuma Kitamura¹, Tatsuo Michiue^{2,3}, Takayoshi Yamamoto^{1,4} (1. School Education Course, Faculty of Education, Tokyo Gakugei University, Tokyo, Japan, 2. Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Tokyo, Japan, 3. Department of Biological Sciences, Graduate School of Science, The University of Tokyo, Tokyo, Japan, 4. Graduate School of Teacher Education (Professional Degree Program), Tokyo Gakugei University, Tokyo, Japan)

◆ Poster Award candidate

[**[PA]** P005(OP05-05)] PGC-1-related coactivator-mediated mitochondrial biogenesis is required for ciliary motility in the *Xenopus* epidermis.

PGC-1 関連共役因子 (PRC) を介したミトコンドリア生合成は、アフリカツメガエル胚表皮の繊毛運動に必要である。

*Jihoon Kim¹, Takayuki Teramoto², Kanji Okumoto², Eisei Matsui¹, Yoshiyuki Anchi¹, Arata Imamura¹, Naho Okano¹, Nobushige Nakajo² (1. Graduate School of Systems Life Sciences, Kyushu University, 2. Graduate School of Sciences, Kyushu University)

◆ Poster Award candidate

[**[PA]** P006] Comparing histone modification and alternative splicing in neuronal and non-neuronal tissues

神経組織と非神経組織におけるヒストン修飾と選択的スプライシングの比較

*Watanabe Ryota¹ (1. Crimson Global Academy)

◆ Poster Award candidate

[【PA】 P007] Roles of type IV Collagen in early mouse embryogenesis

マウス初期胚発生におけるIV型コラーゲンの機能解析

*Kanakano Azuma^{1,2}, Yoko Ueda¹, Kyoko Mochida¹, Junko Garcon¹, Chihiro Matsuno¹, Yasumasa Bessho², Chiharu Kimura-Yoshida¹, Isao Matsuo¹ (1. Osaka Women's and Children's Hospital, 2. NAIST)

◆ Poster Award candidate

[【PA】 P008] Cellular mechanism of the chick epiboly

*Yuna Jo¹, Chaeyoon Park¹, Chaerin Kim¹, Hyung Chul Lee¹ (1. Chonnam National University, Republic of Korea)

◆ Poster Award candidate

[【PA】 P009] Possible Role of Reactive Oxygen Species in Anterior-Posterior Axis Formation in *Xenopus* Development

*Naho Okano¹, Yoshiyuki Anchi¹, Arata Imamura¹, Jihoon Kim¹, Minoru Watanabe², Takayuki Teramoto¹, Kanji Okumoto¹, Nobushige Nakajo¹ (1. Kyushu university, 2. Tokushima University)

◆ Poster Award candidate

[【PA】 P010] Marchantia Early Embryo Shares a Cell Division Rule with Arabidopsis inferred from 3D Shape-Based Modeling

3D形状ベース数理モデルを用いたゼニゴケとシロイヌナズナ初期胚の共通する細胞分裂規則の検証

*Akira Osada¹, Souta Nakamura², Naoya Kamamoto¹, Katsuyoshi Matsushita¹, Yue Wan², Minako Ueda², Yusuke Kimata², Kohichi Fujimoto¹ (1. Univ. Hiroshima, 2. Univ. Tohoku)

◆ Poster Award candidate

[【PA】 P011] The transcriptional regulation of the *Tbx6* gene to elucidate the mesoderm development from the neuro-mesodermal progenitors.

中胚葉細胞の産出を制御する転写因子Tbx6の発現制御の仕組み

*Sou Hazaki¹, Hitomi Suzuki¹, Yuta Chigi¹, Kaori Tanaka², Akihito Harada², Yasuyuki Ohkawa², Tatsuya Takemoto¹ (1. Laboratory of Embryology, Institute of Advanced Medical Sciences, Tokushima University, 2. Division of Transcriptomics, Medical Institute of Bioregulation, Kyushu University)

◆ Poster Award candidate

[【PA】 P012] Elucidation of the role of Eomes in mesoderm differentiation during embryonic development

胚発生におけるEomesの中胚葉分化での役割の解明

*Manaka Noguchi¹, Natsuko Emura¹, Tatsuya Takemoto¹ (1. Tokushima University)

◆ Poster Award candidate

[【PA】 P013] Analysis of the mechanism regulating 5' *Hox* genes expression along the anterior-posterior axis by TGF- β signalingTGF- β シグナルによる体の前後軸に沿った5'*Hox*遺伝子群の発現制御メカニズムの解析

*Yumiko Naoe¹, Ayana Tatsumi¹, Takayuki Suzuki¹ (1. Department of Biology, Graduate School of Science, Osaka Metropolitan University)

[P014(OP01-03)] Chromatin landscapes anticipate germ layer formation in the mammalian epiblast

*Miquel Sendra¹, Leo Guignard¹, Miguel Torres^{2,3} (1. Aix-Marseille Université & CNRS, IBDM—UMR7288 & Turing Centre for Living Systems, Marseille, France, 2. Fundación Centro Nacional de Investigaciones Cardiovasculares Carlos III (CNIC), 28029 Madrid, Spain, 3. Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares (CIBERCV), Spain)

[P015(OP01-05)] Membrane potential regulates cleavage and cell proliferation in mouse preimplantation embryos

膜電位はマウス着床前胚の卵割と細胞増殖を制御する

*Toshihiro Aramaki¹, Koki Mikami¹, Hiroshi Sasaki¹ (1. Graduate School of Frontier Biosciences, The University of Osaka)

[P016(OP01-07)] Mechanical force generated by the uterine myometrium specifies the direction of the anterior-posterior axis in the mouse post-implantation embryo

子宮筋層からの力がマウス胚の前後軸方向を決める

*Toshihiko Fujimori^{1,2}, Seiya Mikoshiba^{1,3}, Sanae Oka¹, Takaya Abe⁴, Hiroshi Kiyonari⁴ (1. National Institute for Basic Biology, 2. SOKENDAI (The Graduate School of Advanced Studies), 3. Nagoya Univ., 4. Riken BDR)

[P017(OP01-08)] Significant contribution of neuromesodermal progenitors in the genesis of cephalic neural crest

神経・中胚葉共通前駆体に由来する頭部神経堤の発生

*Hisato Kondoh^{1,2}, Takuji Iwasato³, Kagayaki Kato (1. Biohistory Research Hall, 2. National Institute of Genetics, 3. Trans-Scale Biology Center, National Institute for Basic Biology)

[P018(OP01-09)] ATXN10, a downstream target of Wnt5a, regulates the establishment of planar cell polarity and cilia positioning in the mouse node

Wnt5aの下流因子ATXN10はマウス胚のノードにおける平面内極性の確立と繊毛の配置を制御する

*Rieko Ajima^{1,2}, Toshihiko Fujimori^{1,2} (1. National Institute for Basic Biology, 2. SOKENDAI)

[P019(OP01-11)] Analysis of embryonic development variability in *Parhyale hawaiiensis*: From embryo registration to variability measurement.

*Mariam dynar¹ (1. Institut de Biologie du Développement de Marseille (IBDM))

[P020] Zbtb14 plays an important role in *Xenopus* neural crest development

Zbtb14はツメガエル胚神経堤細胞の発生に重要である

*Kimiko Takebayashi-Suzuki¹, Hitoshi Yoshida², Marko E. Horb², Atsushi Suzuki^{1,3} (1. Amphibian Research Center, Hiroshima University, 2. National Xenopus Resource, Marine Biol. Lab., USA, 3. Grad. Sch. Integr. Sci. Life, Hiroshima Univ.)

[P021] Destrin Regulates Cell Migration During Neural Development in *Xenopus* Embryos

*Hyun-Kyung Lee¹, Hong-Yeoul Ryu¹, Hyun-Shik Lee¹ (1. KNU G-LAMP Project Group, KNU Institute of Basic Sciences, BK21 FOUR KNU Creative BioResearch Group, School of Life Sciences, College of Natural Sciences, Kyungpook National University)

[P022] Impact of differences in Wnt signaling output levels on cell differentiation during gastrulation in the mouse embryo

マウス胚の原腸陥入におけるWntシグナル伝達出力レベルの違いが細胞分化に与える影響

*Natsuko Emura¹, Tatsuya Takemoto¹ (1. Tokushima University, Institute of Advanced Medical Sciences)

[P023] Depletion of Hofbauer cells leads to impaired trophoblast barrier integrity and abnormal vascularization in the placenta

*Ziwei Yin¹, Yuki Hattori¹ (1. Nagoya University)

[P024] "Mirror-image symmetry" in centrosome dynamics during successive oriented cell divisions in *C. elegans* mid-stage embryo

鏡像対称な中心体ダイナミクスによる連続的な細胞分裂方向制御メカニズムの解析

*Takefumi Negishi¹, Hitoshi Sawa¹ (1. National Institute of Genetics)

[P025] Establishment of in vitro system to investigate the mechanisms underlying morphogen gradient robustness

モルフォゲン勾配のロバストネスのメカニズム解明に向けたin vitro勾配系の構築

*Aoi Kunitomi¹, Tohru Ishitani¹ (1. Dep. of Hom. Reg. RIMD, The Univ. of Osaka)

[P026] Mechanisms and evolution of cold response in teleost embryos

真骨魚類初期胚における低温応答のメカニズムと進化

*Takafumi Ikeda¹, Takafumi Fujimoto², Hiroyuki Takeda¹ (1. Kyoto Sangyo University, 2. Hokkaido University)

[P027] Cancelled

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏢

Morphogenesis and Organogenesis(JMS ASTERPLAZA 1F)

[P02] Poster Presentation Morphogenesis and Organogenesis (P028-P087)

" **[PA] PXXX**" number is Poster Award candidate.

◆ Poster Award candidate

[**[PA] P028(OP02-09)**] Structure-guided epitope tagging of PITX2C enables chromatin profiling to elucidate gene regulatory networks in cardiac outflow tract morphogenesis

心臓流出路形態形成におけるPITX2Cを介した遺伝子制御ネットワーク解明に向けた構造予測に基づくエピトープタグ設計

*Kana Kitazaki¹, Masaki Shigeta¹, Shinichiro Sakaki^{1,2}, Sou Miyanishi¹, Rie Saba¹, Kenta Yashiro¹ (1. Anatomy & Developmental Biology, Graduate School of Medical Science, Prefectural University of Medicine, 2. Pediatrics, Graduate School of Medicine, The University of Tokyo)

◆ Poster Award candidate

[**[PA] P029(OP02-06)**] Elucidation of the molecular and developmental mechanism by which birds evolutionarily acquired flight feather

鳥類が進化的に風切り羽を獲得した分子機構の解明

*Momoko Kyushin¹, Keiji Kinoshita², Takayuki Suzuki¹ (1. Osaka Metropolitan University, 2. Yunnan Agricultural University)

◆ Poster Award candidate

[**[PA] P030(OP05-10)**] Peristaltic contractions drive gut anisotropic growth through collective cell rearrangements

腸蠕動が駆動する集団的細胞再配置による腸の異方性成長

*Koji Kawamura¹, Yoshiko Takahashi¹, Masafumi Inaba¹ (1. graduate school of faculty of science, Kyoto university)

◆ Poster Award candidate

[**[PA] P031(OP05-07)**] 3D imaging of the pulmonary vein-left atrium connection in mouse embryogenesis

マウス胚発生における肺静脈-左心房接合部の3Dイメージング

*Sou Miyanishi¹, Rie Saba¹, Kana Kitazaki¹, Naoki Takeshita^{1,2}, Yoshiro Nakajima¹, Kenta Yashiro¹ (1. Anatomy & Developmental Biology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, 2. Pediatrics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine)

◆ Poster Award candidate

[**[PA] P032(OP05-11)**] Forming a Periodic Photoreceptor Cell Pattern in the Zebrafish Retina in Silico: Effect of Cell Orientation

in silicoにおけるゼブラフィッシュ網膜の周期的な光受容細胞パターン形成：細胞の配向が及ぼす影響

*Keiichi Yamamoto^{1,2}, Takashi Okada^{2,4}, Yuji Sakai³, Atsushi Mochizuki² (1. Graduate School of Science, Kyoto Univ., 2. Institute for Life and Medical Science, Kyoto Univ., 3. Yokohama City Univ., 4. Interdisciplinary Theoretical and Mathematical Sciences Program (iTHEMs), Riken)

◆ Poster Award candidate

[**[PA] P033(OP07-07)**] BMP signaling regulate the cell and tissue dynamics during the zebrafish pectoral fin development.

BMPシグナリング経路がゼブラフィッシュの胸鰭原基形成過程において組織と細胞の形態を制御する

*Shun Okayama¹, Masahiro Uesaka¹, Gembu Abe², Yoshihiro Morishita³, Koji Tamura¹ (1. Laboratory of Organ Morphogenesis Department of Ecological Developmental Adaptability Life Sciences Tohoku University Graduate School of Life Sciences, 2. Division of Developmental Biology, Department of

◆ Poster Award candidate

[【PA】 P034] Spatiotemporal expression pattern of *gdf5* during the formation of an evolutionarily novel skeletal element in the frog's digital skeleton

カエルの系統で新奇に獲得された指の骨格要素の形成過程における*gdf5*の空間的発現パターンの解析

*Kensuke Nakanishi^{1,2}, Keisuke Nakajima^{1,2}, Nobuaki Furuno^{1,2}, Ichiro Tazawa^{1,2} (1. Graduate School of Integrated Sciences for Life, Hiroshima University, 2. Hiroshima University Amphibian Research Center)

◆ Poster Award candidate

[【PA】 P035] Central nervous system-specific isoform expression of c-KIT regulated by alternative splicing

選択的スプライシングによるc-KITの中樞神経系特異的アイソフォーム発現

*Rikuto Goto¹, Naoaki Sakamoto^{1,2}, Akinori Awazu¹ (1. Program of Mathematical and Life Sciences, Graduate School of Integrated Sciences for Life, Hiroshima University, 2. Program of Biomedical Science, Graduate School of Integrated Sciences for Life, Hiroshima University)

◆ Poster Award candidate

[【PA】 P036] Dissecting Signaling Pathways Regulating Human Pancreatic Development in hiPSC-Derived Pancreatic Organoids

hiPS細胞由来膵オルガノイドを用いたヒト膵発生制御シグナル経路の解析

*Soki Kimura^{1,2}, Kaho Fujii¹, Kenichiro Furuyama¹, Yoshiya Kawaguchi¹ (1. Department of Life Science Frontiers, Center for iPS cell Research and Application, 2. Graduate School of Medicine, Kyoto University)

◆ Poster Award candidate

[【PA】 P037] Forward and reverse genetic screens for light-modulated developmental plasticity in the nematode *Pristionchus pacificus*

線虫*Pristionchus pacificus*における光制御型表現型可塑性の順遺伝学的・逆遺伝学的スクリーニング

*Ryo Watanabe¹, Ageha Onodera¹, Shuran Chi^{1,2}, Kenichi Nakayama³, Takahiro Chihara¹, Misako Okumura^{1,2} (1. Graduate School of Integrated Sciences for Life, Hiroshima University, Japan, 2. Graduate School of Life Sciences, Tohoku University, 3. Department of Cell Biology and Center for Cell Dynamics, Johns Hopkins University School of Medicine, Baltimore, USA)

◆ Poster Award candidate

[【PA】 P038] The role of actinotrichia as a scaffold for osteoblasts in fin morphogenesis

ヒレ形態形成における骨芽細胞の足場としてのアクチノトリキアの役割

*Jin Hagiwara^{1,2}, Hibiki Nakagawa¹, Shigeru Kondo¹, Junpei Kuroda^{1,2} (1. The University of Osaka, 2. JT Biohistory Research Hall)

◆ Poster Award candidate

[【PA】 P039] Vitamin D is a chrono-hormone regulating vertebrate embryonic time

*Aine Minato^{1,2}, Hidenobu Miyazawa³, Tohru Ishitani², Masayuki Oginuma¹ (1. Chrono-Developmental Biology RIKEN ECL Research Team, RIKEN(PRI/BDR), 2. Department of Homeostatic Regulation, BIKEN, Osaka University, 3. Developmental Biology Unit, EMBL)

◆ Poster Award candidate

[【PA】 P040] Redirecting Tissue Fate: Induction of Glandular Tissues in Hair-Forming Skin Organoids

組織運命の転換：毛包形成オルガノイドにおける腺組織の誘導

*Rina Takagi^{1,2}, Mototsugu Eiraku^{1,2} (1. Laboratory of Developmental Systems, Institute Life and Medical Sciences, Kyoto University, 2. Department of Polymer Chemistry, Graduate School of Engineering, Kyoto University)

◆ Poster Award candidate

[【PA】 P041] Endosomal transport and microtubule function in collective epithelial cell migration

上皮細胞の集団移動におけるエンドソーム輸送と微小管機能の関与

*Kazuki Kuroda¹, Kaede Nakasato², Sayaka Sekine³, Erina Kuranaga^{1,2} (1. Lab Histogenetic Dynamics, Graduate School of Pharmaceutical Sciences, Kyoto University, 2. Graduate School of Life Sciences, Tohoku University, 3. Science Tokyo)

◆ Poster Award candidate

[【PA】 P042] Understanding of the molecular mechanisms of fin morphology observed in ornamental medaka strains

観賞メダカ品種を用いたヒレ形態の形成メカニズムの理解

*YUSUO CHEN¹, Rui Tang², Mifuyu Sera¹, Soma Tomihara¹, Yoshihiro Omori¹ (1. Graduate School of Integrated Sciences for Life, Hiroshima University, 2. Graduate School of Bioscience, Nagahama Institute of Bioscience and Technology)

◆ Poster Award candidate

[【PA】 P043] Self-Organizing Meningeal–Cerebral Organoids Enable Study of Pial Niche–Associated Microenvironmental Organization

*Ryoma Ogihara¹, Mototsugu Eiraku¹ (1. Kyoto university)

◆ Poster Award candidate

[【PA】 P044] Mechanisms of Regeneration of Lost Bone in Newts

イモリで摘出した骨が再生するメカニズムの解明

*arisa anami¹, Haruka Matsubara², Gembu Abe², Takashi Takeuchi², Toshinori Hayashi³ (1. Graduate School of Integrated Sciences for Life, Hiroshima University, 2. Department of Life Science, Faculty of Medicine, Tottori University, 3. Amphibian Research Center, Hiroshima University)

◆ Poster Award candidate

[【PA】 P045] Vitronectin conservedly suppresses myogenic differentiation and promotes proliferation across species

Vitronectinは種を超えて筋分化を抑制し増殖を促進する保存的細胞外制御因子である

*Tomoka Katayama¹, Yuki Sugioka¹, Ying Zeng², Ken-ichi Mizutani², Daiji Okamura¹ (1. Department of Advanced Bioscience, Faculty of Agriculture, Kindai University, 2. Graduate School of Pharmaceutical Sciences, Kobe Gakuin University)

[P046(OP07-02)] CWN-2/Wnt localization is opposite to its gradient and challenges morphogen gradient model of polarity regulation.

*Tazhibayeva Samal¹ (1. National Institute of Genetics)

[P047(OP02-07)] Root waving enables obstacle-avoiding and diverse gravitropic growth

根の波打ち運動による障害物環境下での重力指向成長と運動多様性の促進

Toya Suzuki¹, Tatsuaki Goh², *Koichi Fujimoto¹ (1. Hiroshima University, 2. Nara Institute of Science and Technology)

[P048(OP05-06)] Dynamics of SOX17-expressing endothelial precursors during vascular network formation integrating extraembryonic and embryonic circulation

胚体内外の血流を統合する血管内皮ネットワーク形成における SOX17 陽性前駆細胞群の動態

*Rie Saba¹, Naoki Takeshita¹, So Miyanishi¹, Kana Kitazaki¹, Mitsuru Morimoto², Kenta Yashiro¹ (1. Kyoto Prefectural University of Medicine, 2. RIKEN, BDR)

[P049(OP02-10)] Epithelial tissue mechanics underlying left-right asymmetry

左右非対称性の基盤となる上皮組織力学

*Motohiro Fujiwara¹, Tatsuo Shibata¹ (1. RIKEN BDR)

[P050(OP07-06)] Developmental diversity and molecular programs underlying rostral craniofacial clefting in bats

コウモリ類の吻側裂隙における発生過程の多様性と分子基盤

*Fumiya Meguro¹, Daisuke Koyabu^{1,2} (1. Univ. of Tsukuba, Japan, 2. Sun Yat-sen Univ., China)

[P051(OP02-02)] Theoretical Insights into Cell Volume Competition: How Mechanical Properties and Basic Cell Processes Shape Interconnected Cysts

細胞はいかにして体積を奪い合うのか：力学的原理と細胞周期が制御する生殖細胞シストの形成メカニズム

*KOYAMA Hiroshi^{1,2} (1. Div. Embryology, National Institute for Basic Biology, 2. SOKENDAI (Graduate Univ. Advanced Studies))

[P052(OP05-09)] A novel gelatinization imaging unravels three-dimensional topology of the house, an animal cellulose-based structure.

新規ゲル化イメージング法によるオタマボヤハウスの三次元形状の再構築および新しい繊維構造の解明

*Takeshi A Onuma¹, Kentaro Morikawa², Kouta Koga¹, Shinichiro Ikeda¹, Haruhiko Adachi¹, Makiko Miwa¹, Satomi Kamimura^{1,4}, Kyoko Komano⁴, Shintaro Yamasaki⁵, Masakazu Akiyama⁶, Shigeru Kondo³, Yasuhiro Inoue², Noriko Funayama⁴, Hiroki Nishida⁷ (1. Graduate School of Science and Engineering, Faculty of Science, Kagoshima University, 1-21-35 Korimoto, Kagoshima 890-0065, Japan, 2. Department of Micro Engineering, Kyoto Univeristy, Kyotodaigaku-Katsura, Nishikyo, Kyoto 615-8540, Japan, 3. Graduate School of Frontier Biosciences, Osaka University, 1-3 Yamadaoka, Suita, Osaka 565-0871 Japan, 4. Division of Biological Sciences, Graduate School of Science, Kyoto University, Kitashirakawa Oiwake, Sakyo-ku, Kyoto 606-8502, Japan, 5. Graduate School of Information, Production and Systems, Waseda University, 2-7 Hibikino, Wakamatsu, Kitakyushu, Fukuoka 808-0135, Japan, 6. Department of Mathematics, Faculty of Science, University of Toyama, 3190 Gofuku, Toyama, 930-8555, Japan, 7. Department of Biological Sciences, Graduate School of Science, Osaka University, 1-1 Machikaneyama-cho, Toyonaka, Osaka 560-0043, Japan)

[P053] The FGF9 Asn143Thr mutation expands signaling range and disrupts skeletal patterning in mice

マウスFGF9 Asn143Thr変異はシグナル分布を拡大させ骨格パターンニング異常を引き起こす

*Masayo Harada¹, Georgina Djameh¹, Keiichi Akita¹ (1. Institute of Science Tokyo, Department of Clinical Anatomy)

[P054(OP07-04)] Digit Morphogenesis Emerges from Self-Organizing Limb Mesenchyme Organoids

肢間充織オルガノイドの自己組織化による指形態形成

*Rio Tsutsumi Tsutsumi^{1,2}, Antoine Nicholas Diez³, Steffen Plunder¹, Mototsugu Eiraku² (1. Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University, Japan, 2. Institute for Life And Medical Sciences (LiMe), Kyoto University, Japan, 3. Mathematical Application Research Team, Division of Applied Mathematical Science, RIKEN Center for Interdisciplinary Theoretical and Mathematical Sciences (iTHEMS), Japan)

[P055(OP07-10)] Trans-scale microscopy revealed a wide-range, compensating cell behaviors during hierarchical vascular patterning

血管の階層性ネットワーク構造を生み出す広域的・補償的細胞挙動の解明

*Yuki Sato¹, Taishi Kakizuka², Keiko Itano², Shinnosuke Ishikawa¹, Hiroya Itoga⁴, Ko Sugawara⁴, Shuichi Onami⁴, Takeharu Nagai², Taro Ichimura^{2,3} (1. Kyushu University, 2. Osaka University, 3. Tokushima University, 4. RIKEN BDR)

[P056(OP07-08)] Extending the temporal window of *ex utero* mouse embryo culture through system optimization

培養系最適化によるマウス子宮外胚培養期間の延伸

*Akihiro Nita¹, Toshiro Moroishi¹ (1. Div. of Cellular Dynamics, Med. Res. Lab., Inst. of Integr. Res., Inst. of Science Tokyo)

[P057(OP02-11)] Cell-intrinsic compliance mechanism enables release of tensile stress to prevent tissue rupture

*Chun Wai Kwan¹, Shunta Sakaguchi^{2,3}, Michiko Takeda¹, Takefumi Kondo^{1,2}, Yu-Chiun Wang¹ (1. RIKEN Center for Biosystems Dynamics Research, 2. Graduate School of Biostudies, Kyoto University, 3. Graduate School of Medicine, Nagoya University)

[P058(OP07-12)] Cardiopharyngeal neural crest diversification with spatial identity revealed by multimodal analysis

多階層解析により明らかとなった心臓咽頭領域を構成する神経堤細胞の空間多様性

*Akiyasu Iwase¹, Mayuko Kida¹, Yukihiro Harada², Yunce Wang², Chisa Shukunami³, Haruhiko Akiyama⁴, Masahide Seki¹, Akinori Kanai¹, Yutaka Suzuki¹, Teruhisa Kawamura², Osamu Nakagawa^{2,5}, Hiroto Kato^{1,6}, Shumpei Ishikawa^{1,6}, Youichiro Wada¹, Yukiko Kurihara^{1,7}, Sachiko Miyagawa-Tomita^{1,8}, Hiroki Kurihara^{1,9} (1. Univ. of Tokyo, 2. Ritsumeikan Univ., 3. Hiroshima Univ., 4. Gifu Univ., 5. NCV, 6. NCC-EPOC, 7. Kagawa Nutr. Univ., 8. Yamazaki Univ., 9. Kumamoto Univ.)

[P059(OP07-01)] Residual Tail Twisting in Ascidian Larvae Is Stabilized by Asymmetric Myofibrils Against Bilateral Symmetry Restoration

ホヤ幼生における残存尾ねじれは左右対称性の回復に抗し非対称筋原線維によって安定化される

Yuki S Kogure^{1,2}, Misaki K Nishio¹, Satoru Okuda², *Kohji Hotta¹ (1. Department of Bioscience and Informatics, Faculty of Science and Technology, Keio University, 2. Nano Life Science Institute, Kanazawa University, Kakuma-machi, Kanazawa 920-1192, Japan)

[P060(OP02-08)] How to make a hole in the head: Remodeling of the craniofacial foramen for the hyoid artery in zebrafish

ゼブラフィッシュの頭骨において、血管が通る孔が拡大する仕組み

Miki Iwasaki¹, Junpei Kuroda², Masanori Nakae³, *Hironori Wada¹ (1. Kitasato Univ., 2. JT Biohistory Research Hall; Osaka Univ., 3. National Museum of Nature and Science; Univ. of Tsukuba)

[P061] Global Regulation of Retinoic Acid Availability During Vertebrate Embryogenesis

脊椎動物の胚発生における、レチノイン酸に利用可能性を制御する全身性メカニズム

*Yui Uchida¹, SangWoo Lee¹, Sayumi Yamada¹, Yoshihiro Morishita¹ (1. RIKEN BDR)

[P062(OP05-08)] Coupling cell differentiation to dewetting can explain villus elongation

*Dominic Keir Devlin^{1,2}, Shuji Ishihara¹, Nobuto Takeuchi² (1. Graduate School of Arts and Sciences, University of Tokyo, 2. School of Biological Sciences, University of Auckland)

[P063(OP07-11)] Ultraslow Tail Wagging and Overshooting Bend Recovery Imply Feedback-Guided Body Straightening in *Xenopus* Tadpoles

超低速尾端振動とオーバーシュート曲げ回復が示唆するツメガエルオタマジャクシのフィードバック型体軸まっすぐ制御機構

*Soichiro Kato¹, Iroha Nakane¹, Yuki Asakura¹, Asako Shindo¹ (1. The University of Osaka)

[P064] Effects of Carbenoxolone-Mediated Gap Junction Inhibition on Tissue Development in Chicken Embryos.

*LE HONG CAO¹, LAN THI PHUONG DUONG¹, HARSHA PRAKASH¹, KOSUKE TOKUNAGA¹, MAKO NAKAMURA¹ (1. Kyushu University)

[P065] Collagen patterning controls fin architecture

コラーゲンのパターンニングがヒレの組織構造を作り出す

*Rintaro Tanimoto^{1,2}, Kazuhide Miyamoto³, Koji Tamura³, Shigeru Kondo¹, Junpei Kuroda^{1,2,4} (1. Graduate School of Frontier Biosciences, Osaka University, 2. Laboratory of Organ Morphogenesis, JT Biohistory Research Hall, 3. Graduate School of Life Sciences, Tohoku University, 4. Graduate School of Science, Osaka University)

[P066] Mtx2 is required for craniofacial cartilage development in *Xenopus*

*Min-Seok Heo¹, Hyun-Kyung Lee², Hyun-Shik Lee² (1. Department of Biological Sciences, College of Natural Sciences, Kyungpook National University, BK21 FOUR KNU Creative BioResearch Group, College of Natural Sciences, Kyungpook National University, 2. KNU G-LAMP Project Group, KNU Institute of Basic Sciences, School of Biotechnology, BK21 FOUR KNU Creative BioResearch Group, College of Natural Sciences, Kyungpook National University)

[P067] Prdx6 regulates *in vivo* myeloid cell development via redox control during *Xenopus* embryogenesis

*Jeong-Yeon Seo¹, Hyun-kyung Lee¹, Min Seok Heo¹, Hyun-Shik Lee¹ (1. Univ. of Kyungpook)

[P068] Identification of Smoc1 variants in *Xenopus* and their distinct roles in BMP signaling
アフリカツメガエルにおけるSmoc1パリアントの同定とBMPシグナル制御における機能の違い

Hiromu Okamoto¹, *Takayoshi Yamamoto¹ (1. Faculty of Education, Tokyo Gakugei Univ.)

[P069] Nuclear membrane proteins SUN/KASH regulate turning of gonadal leader cells in *C. elegans*

核膜蛋白質SUN/KASHによる線虫の生殖巣リーダー細胞方向転換の制御

*Hon-Song Kim¹, Riko Kashimoto², Kenji Kimura², Yukimasa Shibata², Mikiko Takahashi¹, Kiyoji Nishiwaki² (1. Teikyo Heisei University, 2. Kwansai Gakuin University)

[P070] Genetic Basis of Androgen-Driven Evolution of Secondary Sexual Traits in Teleosts
魚類のアンドロゲン依存的な二次性徴進化の遺伝的基盤

*Yukiko Ogino^{1,2} (1. Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, Fukuoka, Japan, 2. Center for Promotion of International Education and Research, Faculty of Agriculture, Kyushu University)

[P071] A role for SHH signaling in cell dynamics during early heart development

心臓初期発生での細胞動態を制御するSHHシグナルの役割

*Daisuke Ohtsuka¹, Yoshihiro Morishita¹ (1. RIKEN Center for Biosystems Dynamics Research)

[P072] The roles of morphogenesis in cell fate specification during *Drosophila* embryogenesis
ショウジョウバエ胚発生過程での細胞運命決定における形態形成の役割

*Shutaro Endo^{1,2}, Doseon Cho¹, Osamu Nishimura¹, Takefumi Kondo^{1,2} (1. Laboratory for Developmental Genome System, RIKEN Biosystems Dynamics Research, 2. Laboratory of Molecular Cell Biology and Development, Graduate School of Biostudies, Kyoto University)

[P073] Competitive cellular interaction via autophagy during epithelial tissue remodeling in *Drosophila*

ショウジョウバエ上皮の組織リモデリングにおけるオートファジーを介した競合的細胞間作用

*Sakura Toyooka¹, Shogo Harada¹, Eiji Inoue¹, Kohki Kawane¹ (1. Kyoto Sangyo University)

[P074] Development of an *in vivo* imaging system to elucidate fin bone formation in zebrafish
ゼブラフィッシュヒレ骨形成の解明に向けた *in vivo* 骨形成観察系の開発

*Hiromu Hino¹, Shigeru Kondo², Junpei Kuroda^{1,3} (1. JT Biohistory Research Hall, 2. University of Osaka, Frontier of Bio Sciences, 3. University of Osaka, Graduate school of Science)

[P075] CAMSAP2 is required for maintenance of cardiac function and sarcomere architecture through a non-centrosomal microtubule network.

CAMSAP2は非中心体性に微小管網をつくり、サルコメア構造および心機能を維持する。

*Shuhei Kuno¹, Toshiyuki Ko², Satoshi Kikkawa¹, Tomiyoshi Setsu¹, Ryo Nitta¹ (1. Div. Str. Biol. Med. Anat., Dep. Physiol. Cell Biol., Kobe Univ. Grad. Sch. Med., 2. Dep. Front. Cardiovasc. Sci., Grad Sch. Med., Univ. Tokyo)

[P076] Quantification and modeling of embryonic lymph node organogenesis at the single cell scale

*Christopher Mazzerbo^{1,2,3}, Léo Guignard^{1,2}, Serge van de Pavert³ (1. SFBD, 2. Institut de Biologie du Développement de Marseille, 3. Centre d'Immunologie de Marseille-Luminy)

[P077] Developmental mechanisms of tracheal formation in the two-spotted cricket *Gryllus bimaculatus*

フタホシオオロギにおける気管形成機構の解析

*Kai Fujie¹, Shintaro Inoue², Takahito Watanabe², Yoshiyasu Ishimaru³, Sumihare Noji⁴, Taro Mito² (1. Graduate School of Sciences and Technology for Innovation, Tokushima University, 2. Bio-Innovation Research Center, Tokushima University, 3. Graduate School of Technology, Industrial and Social Sciences, Tokushima University, 4. EvoDevo Tech Co., Ltd.)

[P078] “Gene expression analysis for epithelial delamination in *Drosophila* ovarian border cells”

*Shubhangi .¹, Mikiko Inaki¹ (1. University of Hyogo)

[P079] Paralleled regional specificity in patterns of peristalsis, enteric neural organization, and intestinal folds during chicken gut development

発生期の腸における蠕動パターン・腸管神経・絨毛形態の領域特異性連関

*Masafumi Inaba¹, Hana Godfrey², Taiju Inoue¹, Yoshiko Takahashi¹ (1. Kyoto University, 2. University of Cambridge)

[P080] Chrono-Developmental Biology: Decoding Embryonic Time through Diapause

*Masayuki Oginuma¹, Aine Minato¹, Daniel Summry¹, Mari Kaneko¹ (1. RIKEN, Center for Biosystems Dynamics Research (BDR))

[P081] Fgf10 Gene Dosage from a Single Allele Is Insufficient for Forming Multilayered Epithelial Cells in the Murine Lacrimal Gland

*Hideyo Ohuchi¹, Shiori Ikeda¹, Keita Sato¹, Yuki Tajika², Hirofumi Fujita¹, Tetsuya Bando¹, Tsutomu Nohno³ (1. Department of Cytology and Histology, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, 2. Department of Radiological Technology, Gumma Prefectural College of Health Sciences, 3. Department of Cytology and Histology, Okayama University Medical School)

[P082] *In vitro* reconstitution of PCP with MDCK cells and requirement of core PCP components for the homeostasis of epithelial sheets.

*Soichi Matsuo¹, Minako Suzuki¹, Kota Konishi¹, Tetsuhisa Otani², Mototsugu Eiraku¹, Yusuke Mii¹ (1. Kyoto University, 2. Tokyo Metropolitan University)

[P083] Analytical studies of two mathematical descriptions of growths against qualitatively different positional information

定性的に異なる位置情報に対する成長応答の数理解析

*Akiko Nakamasu¹ (1. Meiji University)

[P084] Glyr1 is essential for the postnatal growth and survival in mouse

Glyr1はマウスの生後発達期の成長および生存に必須である

*Tadashi Okubo¹, Kentaro Matsuo¹ (1. Kitasato University School of Medicine, Department of Laboratory Animal Science)

[P085] Heterogeneous Wnt/ β -catenin reporter activity across thymic epithelial cell subpopulations during mouse thymic development

マウス胸腺発生過程における胸腺上皮細胞亜集団間でのWnt/ β -cateninレポーター活性の不均一性

*Sayumi Fujimori¹, Yosuke Takahama², Shinji Takada³, Izumi Ohigashi¹ (1. IAMS, Tokushima Univ. , 2. CCR, NCI, NIH, 3. NIBB, NINS)

[P086] Assessment of Developmental Toxicity of Lipid-coated Zinc Oxide Nanoparticles on Murine Embryo

*Muharral Aidil Jalisan¹, Carlito B. Tabelin^{2,3}, Ryan Corpuz⁴, Aki Murashima-Matsumaru⁵, Mylah Villacorte-Tabelin^{1,6} (1. 1Department of Biological Sciences, College of Science and Mathematics, Mindanao State University-Iligan Institute of Technology, Iligan City, Philippines, 2. Department of Materials and Resources Engineering & Technology, Mindanao State University-Iligan Institute of Technology, Iligan City 9200, Philippines, 3. Resource Processing and Technology Center, RIEIT, Mindanao State University – Iligan Institute of Technology, Iligan City 9200, Philippines, 4. Science and Technology Research Fellow, DOST, Taguig, Philippines, 5. Laboratory Pharmacology, Gifu Pharmaceutical University, Gifu, Japan, 6. Center for Natural Products and Drug Discovery, PRISM, Mindanao State University-Iligan Institute of Technology, Tibanga, Iligan City, 9200 Philippines)

[P087] Influence of Intrinsically Disordered Regions on Hox protein function.

*Laurianne Michel¹, Corinne Maurel Zaffran¹, Andrew Saurin², Yacine Graba² (1. AMU, 2. CNRS)

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏢 Metabolism and Disease Models(JMS ASTERPLAZA 1F)

[P03] Poster Presentation Metabolism and Disease Models (P088-P096)

" **[PA]** PXXX" number is Poster Award candidate.

◆ Poster Award candidate

[**[PA]** P088(OP03-06)] Generational Toxicity of Virgin and Artificially induced weathered PVC microplastics in Zebrafish (*Danio rerio*) development

ゼブラフィッシュ (*Danio rerio*) の発生における、未処理および人工的に風化させたPVCマイクロプラスチックの世代毒性

*ASSIDDIK SAPII YAHSIN¹ (1. Department of Biological Sciences - Mindanao State University - Iligan Institute of Technology)

◆ Poster Award candidate

[**[PA]** P089] Control of fat accumulation in the *Drosophila* larval fat body by transcription factors (Hox and M1BP)

*Carlyne Samson¹, Corinne Maurel-Zaffran¹, Yacine Graba¹, Andrew Saurin¹ (1. IBDM/CNRS)

◆ Poster Award candidate

[**[PA]** P090] Olfactory receptors regulate Yorkie-driven tumorigenesis in *Drosophila*

嗅覚受容体はショウジョウバエにおけるYorkie腫瘍を制御する

*Wangyin Yu¹, Daichi Honda¹, Takahiro Chihara¹ (1. Hiroshima university)

◆ Poster Award candidate

[**[PA]** P091] cGMP signaling regulates mouth-form dimorphism in the nematode *Pristionchus pacificus*

線虫*Pristionchus pacificus*における口の表現型制御に関わるcGMPシグナル伝達

*Ageha Onodera¹, Hirokuni Hiraga¹, Kenichi Nakayama^{2,1}, Takahiro Chihara¹, Misako Okumura³ (1. Program of Biomedical Science Graduate School of Integrated Sciences for Life Hiroshima University, 2. Department of Cell Biology and Center for Cell Dynamics, Johns Hopkins University School of Medicine, Baltimore, USA, 3. Graduate School of Life Sciences, Tohoku University, Japan)

◆ Poster Award candidate

[**[PA]** P092] Genetic regulation of developmental speed in *C. elegans*

線虫*C. elegans*の発生速度の遺伝的制御

*Kaho Ieda¹, Kotaro Kimura¹ (1. Nagoya City Univ. Grad. Sch. of Science)

[P093(OP03-04)] Two hormones from a single endocrine cell coordinate metabolic adaptation to starvation

単一の内分泌組織から分泌されるMmtとAKHは協調的に飢餓応答を調節する

*Yuto Yoshinari^{1,2}, Maiko Abe³, Ryo Hoshino³, Yosuke Mizuno³, Yoshitomo Kurogi³, Eisuke Imura³, Akira Nakamura^{4,5}, Fuminori Tsuruta⁶, Ryusuke Niwa², Takashi Nishimura¹ (1. IMCR, Gunma univ., 2. TARA, Univ. of Tsukuba, 3. Grad School of Life and Environmental Sciences, Univ. of Tsukuba, 4. IMEG, Kumamoto Univ., 5. Grad School of Pharmaceutical Sciences, Kumamoto Univ., 6. Institute of Life and Environmental Sciences, Univ of Tsukuba)

[P094(OP03-05)] Recapitulating Chondrogenic Ontogeny: Identifying Conserved Regulatory Checkpoints to Reverse Fibro-chondrogenic Fate in Osteoarthritis

*Taejoon Kwon¹, Donggeon Woo¹, Haeun Kim², Tae Joo Park² (1. Department of Biomedical Engineering, Ulsan National Institute of Science and Technology, 2. Department of Biological Sciences, Ulsan National Institute of Science and Technology)

[P095] Nacq-dependent proteostasis promotes robust body growth during larval competition in *Drosophila*

*TAKASHI NISHIMURA¹ (1. Gunma University)

[P096] Evaluating Mucin Gene Expression as a Biomarker for Trematode Life Cycle Stages

*Mylah Villacorte Tabelin^{1,2,5}, Andrea Canoy¹, Princess Kate Gonzales¹, Merrah Joy Subebe², Carlito Baltazar Tabelin^{3,4}, Liza Adamat¹, Kimverly Hazel Dapar¹, Leonardo Estaño¹ (1. Department of Biological Sciences, College of Science and Mathematics, Mindanao State University-Iligan Institute of Technology, Iligan City 9200, Philippines, 2. Molecular and Developmental Biology Laboratory, PRISM, Mindanao State University-Iligan Institute of Technology, Iligan City 9200, Philippines, 3. Department of Materials and Resources Engineering and Technology, College of Engineering, Mindanao State University – Iligan Institute of Technology, Iligan City 9200, Philippines, 4. Resource Processing and Technology Center, RIEIT, Mindanao State University – Iligan Institute of Technology, Iligan City 9200, Philippines, 5. Center for Natural Products and Drug Discovery, PRISM, Mindanao State University-Iligan Institute of Technology, Tibanga, Iligan City, 9200 Philippines)

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏠

Reproduction and Germ cells(JMS ASTERPLAZA 1F)

[P04] Poster Presentation Reproduction and Germ cells (P097-P111)

" **[PA]** PXXX" number is Poster Award candidate.

◆ Poster Award candidate

[**[PA]** P097(OP03-10)] Functional Analysis of the Ubiquitin E3 Ligase Kumo in the piRNA Pathway Protecting the Germline Genome

*Hinano Minami¹, Toshie Kai^{1,2}, Shinichi Kawaguchi², Hilotetsu Gan², Wakana Isshiki¹ (1. The University of Osaka, 2. Kyoto University)

◆ Poster Award candidate

[**[PA]** P098(OP03-13)] Conserved and Divergent Mechanisms of Membrane Bleb-Driven Extravasation

ブレブによる血管外遊出の保存された機構と多様な戦略：始原生殖細胞とがん細胞の比較から

*Mizuki Morita¹, Junichi Ikenouchi¹, Takayuki Teramoto¹, Daisuke Saito¹ (1. Kyushu University)

◆ Poster Award candidate

[**[PA]** P099] Environment-Dependent Mechanosensing Regulates Bleb-based migration of Avian Primordial Germ Cells

鳥類始原生殖細胞のブレブ駆動型移動は環境依存的な機械受容によって制御される

*Manami Morimoto¹, Junichi Ikenouchi², Daisuke Saito³ (1. Graduate School of Systems Life Science, Kyushu University, 2. Graduate School of Medical Sciences, Kyushu University, 3. Graduate School of Science, Kyushu University)

◆ Poster Award candidate

[**[PA]** P100] Maternal age-related embryonic abnormalities are caused by dysregulated uterine contractility

母体の加齢に関連した胎児の発生異常は子宮筋収縮の制御不全によって引き起こされる

*Misuzu Okuno^{1,2}, Yoko Ueda², Kyoko Mochida², Chihiro Matsuno², Yasumasa Bessho³, Chiharu Kimura-Yoshida², Isao Matsuo² (1. Osaka Univ., Grad. Sch. Med., 2. Osaka Women's Children's Hosp., Dept. Mol. Embryology, 3. NAIST., Grad. Sch. Sci. and Tech.)

◆ Poster Award candidate

[**[PA]** P101] Macrophage dynamics in adipose tissue during pregnancy

妊娠期の脂肪組織におけるマクロファージの動態

*Haruka Muraoka¹, Shinya Abe¹, Fumiko Toyoshima¹ (1. Institute of Science Tokyo)

◆ Poster Award candidate

[**[PA]** P102] A widely used food preservative prevents recovery of ribosomal DNA copy number in the Drosophila male germline

広く使用されている食品保存料は、ショウジョウバエ雄の生殖系列におけるリボソームDNAコピー数の回復を阻害する

*Taichi Hyodo¹, Akira Nakamura¹, George J Watase¹ (1. Kumamoto Univ.)

◆ Poster Award candidate

[**[PA]** P103] ATAC-seq of Low-Input and Cryopreserved Primordial Germ Cells Reveals Functional Enhancers

少数・凍結始原生殖細胞ATAC-seqが明らかにする機能的エンハンサー

*Mao Igari¹, Akane Kawaguchi^{2,3}, Yasuto Murayama^{3,2}, Hiroko Iikawa¹, Mika Sakamoto², Yasukazu Nakamura^{3,2}, Shigehiro Kuraku^{2,3}, Keisuke Ishihara⁴, Daisuke Saito¹ (1. Kyushu University, 2. National Institute of Genetics, 3. Sokendai(Graduate University for Advanced Studies), 4. Pittsburgh)

◆ Poster Award candidate

[【PA】 P104] Investigation of Gonadal Differentiation Mechanism in *Pleurodeles waltl*
イペリアトゲイモリの生殖腺分化機構の解明

*Ryo Motohashi¹, Mai Takehara^{1,2}, Toshinori Hayashi^{1,2} (1. Amphibian Research Center, Hiroshima University, 2. Grad. Sch. of Integrated Science for Life, Hiroshima Univ)

◆ Poster Award candidate

[【PA】 P105] Mechanisms of Primordial Germ Cell Specification in the Newt
イモリにおける始原生殖細胞の分化機構

*Daigo Noguchi¹, Mai Takehara^{1,2}, Mitsuki Kyakuno^{1,2}, Toshinori Hayashi^{1,2} (1. Amphibian Research Center, Hiroshima University, 2. Grad. Sch. of Integrated Science for Life, Hiroshima Univ)

[P106(OP03-08)] Timely meiotic initiation synchronizes *Mael* upregulation to prevent LINE1-induced oocyte elimination

*Ryuki Shimada¹, Kei-ichiro Ishiguro¹ (1. Chiba University)

[P107(OP03-09)] Importance of minor intron splicing in spermatogenesis gene expression
精子形成関連遺伝子発現におけるマイナーイントロンのスプライシングの重要性

*Kazumasa Takemoto¹ (1. Kansai medical university)

[P108(OP03-12)] Sex-specific systemic regulation of aging mediated by germ cells
生殖細胞が司る性特異的な全身老化制御

*Kota Abe¹, Tohru Ishitani¹ (1. The University of Osaka)

[P109] Analysis of sex-determining factors and germ cell formation of sea urchin, *Hemicentrotus pulcherrimus*, by whole genome and RNA sequencing

全ゲノムおよびRNAシーケンシングによるバフソウニの性決定因子および生殖細胞形成の解析

*Akinori Awazu¹, Shizune Nakamura¹, Rikuto Goto¹, Naoaki Sakamoto¹ (1. Hiroshima University)

[P110] Longitudinal alignment of oviduct epithelial folds is not essential for oocyte transport to the uterus

Fumiko Matsukawa Usami^{1,2}, *Masaki Arata¹, Kagayaki Kato^{2,3}, Yingzi Yang⁴, Toshihiko Fujimori^{1,2} (1. Division of Embryology, National Institute for Basic Biology, 2. SOKENDAI (The Graduate University for Advanced Studies), 3. Optics and Imaging Facility, Trans-Scale Biology Center, National Institute for Basic Biology, 4. Department of Developmental Biology, Harvard School of Dental Medicine; Harvard Stem Cell Institute)

[P111] Roles of Importin13 in the development of mouse germ cell lineage

Importin13のマウス初期胚及び生殖細胞の発生における役割

Yasuka L Yamaguchi¹, Patrick PL Tam², Hiroshi Kiyonari³, *Satomi S Tanaka¹ (1. Kumamoto Health Sci. Univ, 2. CMRI, Univ. of Sydney, Australia, 3. RIKEN BDR)

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏢 Stem Cells and Regeneration(JMS ASTERPLAZA 1F)

[P05] Poster Presentation Stem Cells and Regeneration (P112-P140)

" **[PA]** PXXX" number is Poster Award candidate.

◆ Poster Award candidate

[**[PA]** P112(OP04-05)] Examining The Effect Of Laminin On The Differentiation, Maturation And Behaviour Of *In Vitro* Cardiomyocytes

*Clara Celeste Bick^{1,2}, Masaki Shigeta¹, Kenta Yashiro¹ (1. Kyoto Prefectural University of Medicine, 2. Maastricht University)

◆ Poster Award candidate

[**[PA]** P113(OP04-08)] Toward generation of snake pluripotent stem cells from embryonic fibroblasts

*Shoma Kuriyama¹, yuji Atsuta^{1,2} (1. Grad. Sch. Syst. Life Sci., Kyushu Univ., 2. Dept. Biol., Fac. Sci., Kyushu Univ.)

◆ Poster Award candidate

[**[PA]** P114(OP04-09)] Inorganic phosphate redirects osteosarcoma cell fate toward an osteocyte-like lineage

無機リン酸による骨肉腫細胞の骨分化プログラムの再活性化

*Yuya Suzuki^{1,2}, Makoto Takeuchi^{1,3}, Ryohei Katayama^{1,2,4}, Satoshi Takagi¹ (1. Div. Experiment. Chemother., Cancer Chemother. Ctr., JFCR, 2. Dept. Cancer Therapeutics, Grad. Sch. Pharm. Sci., Nagoya City Univ., 3. Dept. Orthop. Surg., Fac. Med., Inst. Biomed. Sci., Tokushima Univ., 4. CBMS, Grad. Sch. Front. Sci., Univ. of Tokyo)

◆ Poster Award candidate

[**[PA]** P115(OP04-10)] A Generalizable Strategy to Identify and Purify Organoid-Forming Stem Cells Across Tissues

*LINGNA YU^{1,2}, Nozomi Hojo¹, Yungyu Tsai¹, Katsuyuki Shiroguchi¹ (1. RIKEN Center for Biosystems Dynamics Research (BDR), 2. The University of Osaka)

◆ Poster Award candidate

[**[PA]** P116(OP06-04)] FGF2 Rescues Denervation-Induced Muscle Atrophy in *Ambystoma mexicanum*

*HARUKi NAKAYAMA¹, Akira Satoh¹ (1. Okayama University)

◆ Poster Award candidate

[**[PA]** P117(OP06-05)] Initiating regeneration: Insights from genes with regeneration-specific expression dynamics

*Kai Guido Hofmänner^{1,2}, Eric Röttinger², Aldine Amiel² (1. SFB, 2. Université côte d'azur)

◆ Poster Award candidate

[**[PA]** P118] Mechanistic analysis of aging-associated disruption of tissue homeostasis and blastema-mediated regeneration in *Cladonema pacificum*

エダアシクラゲにおける加齢に伴う組織恒常性破綻と再生芽依存的再生不全の機構解析

*Ren Kanehisa¹, Hiroko Nakatani¹, Sho Takatori², Taisuke Tomita², Masayuki Miura³, Yu-ichiro Nakajima¹ (1. Laboratory of Genetics, Graduate School of Pharmaceutical Sciences, The University of Tokyo, 2. Laboratory of Neuropathology and Neuroscience, Graduate School of Pharmaceutical Sciences, The University of Tokyo, 3. Laboratory for Cell Vigor Regulation, National Institute for Basic Biology)

◆ Poster Award candidate

[【PA】 P119] Analysis of fibrotic tissue during newt cardiac regeneration

イモリ心臓再生における繊維組織の解析

*Eriko Enomoto^{1,2}, Mai Takehara^{1,2}, Dalia Mohamedien¹, Ichiro Tazawa^{1,2}, Nobuaki Furuno^{1,2}, Toshinori Hayashi^{1,2} (1. Amphibian research center, Hiroshima University, 2. Graduate School of Integrated Sciences for Life, Hiroshima University)

◆ Poster Award candidate

[【PA】 P120] Essential roles of Wnt ligands in the regulation of cell proliferation and differentiation during *Xenopus* tadpole tail regeneration

ツメガエル幼生尾部の再生においてWntリガンドは細胞増殖と組織分化の制御に重要である

*Ryutaro Nishijima¹, Makoto Nakamura^{1,2}, Tatsuya Kyoda¹, Yuka Moriyama¹, Hitoshi Yoshida³, Ryota Koike¹, Kimiko Takebayashi-Suzuki¹, Mrko E. Horb³, Atsushi Suzuki¹ (1. Amphibian Research Center, Graduate School of Integrated Sciences for Life, Hiroshima University, 2. Cardiovascular Research Inst. and Dep. of Physiol., Univ. of California, 3. National *Xenopus* Resource, Marine Biol. Lab)

◆ Poster Award candidate

[【PA】 P121] Development of a Cardiac Pressure Overload Model in *Pleurodeles waltl*.

*Kotono Kureishi¹, Mai Takehara¹, Eriko Enomoto¹, Megumi Ito³, Yoshihiro Ujihara³, Akio Shimizu⁴, Hisakazu Ogita⁴, Mohamedien Dalia², Toshinori Hayashi^{1,2} (1. Hiroshima University, Graduate School of Integrated Sciences for Life, 2. Hiroshima University, Amphibian Research Center, 3. Nagoya Institute of Technology, 4. Shiga University of Medical Science)

◆ Poster Award candidate

[【PA】 P122] Phylogenetic comparison of spinal cord regeneration in small fish models

小型魚類の系統間比較に基づく脊髄再生メカニズムの探索

*HANJIE ZHANG¹, Jui Chun Wang², Shun Aoki, Masato Hori, Teruyuki Ishikura¹, Hiroshi Tsujioka², Toshihide Yamashita¹ (1. The University of Osaka, 2. Fukushima Medical University)

◆ Poster Award candidate

[【PA】 P123] Microfluidic Control of Morphogen Gradients Enables Artificial Patterning of Limb Bud Progenitor Cells

モルフォゲン勾配のマイクロ流路制御による、四肢前駆細胞の人工的なパターン形成

*Yuna Hattori¹, Kiichi Matsumoto¹, Ken-Ichi Wada, Hiroki Fukunaga², Yoko Yamanishi², Yuji Atsuta^{1,3} (1. Kyushu Univ., Grad. Sch., Syst. Life Sci., 2. Kyushu Univ., Dept. Mech. Eng., 3. Kyushu Univ., Dept. Biol.)

◆ Poster Award candidate

[【PA】 P124] Analysis of the timing of thymic development and differentiation of O_uro-reactive T cells functioning in larval tail resorption of *Xenopus*幼生尾の退縮に機能するツメガエルO_uro反応性T細胞の胸腺発生・分化時期の解析

*Yuto Yoshida¹, Haruka Kobayashi², Yumi Izutsu² (1. Graduate School of Science and Technology, Niigata University, 2. Department of Biology, Faculty of Science, Niigata University)

[P125(OP04-06)] Topography-driven spatial patterning of epidermal proliferation in a 3D skin culture with a micropatterned collagen scaffold

マイクロパターン付きコラーゲン足場材を用いた皮膚三次元培養系における表皮幹細胞の凹凸依存的な増殖の空間的パターン

*Mizuho Ishikawa¹, Youna Katanosaka^{1,2}, Kenji Izumi³, Aiko Sada¹ (1. Div. of Skin Regeneration and Aging, MIB, Kyushu Univ., 2. Grad. Sch. of Med. Sci., Kyushu Univ., 3. Div. of Biomimetics, Grad. Sch. of Med and Dent. Sci., Niigata Univ.)

[P126(OP04-07)] Generation of rat-derived kidney through interspecies blastocyst complementation

胚盤胞補完法によるラット多能性幹細胞由来の腎臓の作製

*Shunsuke Yuri¹, Ayako Isotani² (1. NCGG, 2. NAIST)

[P127(OP06-02)] Preceding collagen fibers determines subsequent collagen morphology during axolotl skin regeneration

アホロートル皮膚再生における先行コラーゲン線維によるコラーゲン構造形成制御

*Ayaka Ohashi¹, Akira Satoh¹ (1. Okayama Univ.)

[P128(OP06-03)] Regeneration of behavior and histological structure from spinal cord injury in Iberian ribbed newt *Pleurodeles waltl*

イベリアトゲイモリ *Pleurodeles waltl* の脊髄再生に伴う行動および組織構造の変化

*Yuki Sato¹, Shinichi Hayashi¹, Ryohei Seki-Omura¹, Souichi Oe¹, Taro Koike¹, Yousuke Nakano¹, Hikaru Iwashita¹, Yukie Hirahara¹, Masaaki Kitada¹ (1. Kansai Medical Univ.)

[P129(OP06-06)] Study on the relationship between cellular heterogeneity of blastema and tissue stem cell-like cells in an annelid

環形動物における再生芽細胞不均一性と「組織幹細胞」システムの関係

*Shinji Yamaguchi¹, Toshiyuki Fujita¹ (1. Teikyo University)

[P130] Development of a Time-Series Bulk RNA-Seq Analysis Method to Reconstruct the Progression Order of Biological Processes Obscured by Inter-Individual Variability

個体差を考慮した生命現象の進行順序を復元する時系列 bulk RNA-Seq 解析法の開発

*yuta suzuki¹, Miho Hosaka², Makoto Kashima¹ (1. Graduate School of Toho University, 2. Graduate School of Aoyama University)

[P131] Mitogen-activated protein kinase phosphatase 3 (Mkp3) promotes germline stem cell growth in the *Drosophila* testis

*Gyeong Hun Baeg¹ (1. University of Macau)

[P132] A view of tissue regeneration mechanism revealed by zebrafish fin as a model

ゼブラフィッシュのヒレをモデルとして明らかになった組織再生メカニズム

*Atsushi Kawakami¹ (1. Institute of Science Tokyo)

[P133] Mechanisms Underlying Newt Testis Regeneration and Long-Term Maintenance of Undifferentiated Germ Cells

未分化生殖細胞の長期維持が支えるイモリ精巣再生機構の解明

*Mai Takehara^{1,2}, Mitsuki Kyakuno³, Mizuki Honda¹, Yukio Sato⁵, Takashi Takeuchi⁵, Yasuyuki Ohkawa⁶, Shinya Oki⁴, Takuya Imamura¹, Toshinori Hayashi^{1,2} (1. Grad. Sch. of Integrated Science for Life, Hiroshima Univ., 2. Amphibian Research Center, Hiroshima Univ., 3. Fac. of Life and Environmental Sci, Shimane Univ., 4. Institute of Resource Development and Analysis, Kumamoto Univ., 5. Sch. of Life Sci., Fac. of Med., Tottori Univ., 6. Div. of Transcriptomics, Medical Institute of Bioregulation, Kyushu Univ.)

[P134] Dorsoventral-mediated *Shh* induction is required for axolotl limb regeneration.

*Sakiya Yamamoto¹, Akira Satoh¹ (1. Okayama university)

[P135] Live imaging reveals two-step wound closure after full amputation in the planarian *Dugesia japonica*

プラナリアの傷口閉鎖は二段階で進行する

*Yuuki Shikaya¹, Taishu Konno¹, Yoshihiko Umesono¹ (1. Graduate School of Science, University of Hyogo)

[P136] Analysis of stem cell dynamics during intestinal epithelial regeneration using *in vivo* injury and microfabricated hydrogel-based organoid systems

*Sumika Kato¹, Masaya Hagiwara¹, Yumi Konagaya¹ (1. RIKEN BDR)

[P137] Heterogeneities of primary cilia along the neural stem cell lineage

*Anne Agnes Schmidt¹, Elie Névoret^{1,2}, Ilona Mignerey¹, Nadège Cayet³, Adeline Mallet³, Laure Bally-Cuif¹ (1. Institut Pasteur, Université Paris Cité, CNRS UMR3738, Zebrafish Neurogenetics Unit, F-75015 Paris, France, 2. Université Paris Cité, ED562 BioSPC, F-75006 Paris, France, 3. Institut Pasteur, Center for Technological Resources and Research, Ultrastructural BioImaging, F-75015 Paris, France)

[P138] An Optimized Sendai Virus Vector System Enables Robust Gene Expression in Organogenesis and Regeneration

発生・再生過程における強力な遺伝子発現を実現する高力価センダイウイルスベクターの開発

*Hiroki Matsuda¹, Akira Satoh², Ying Yang¹, Mariko Shirakawa¹, Koichi Saeki¹ (1. Repli-tech Co., Ltd., 2. Okayama University)

[P139] Comparative single-nucleus transcriptomic analysis of spinal cord injury responses across vertebrate species

脊椎動物間比較による脊髄損傷応答のトランスクリプトーム解析

*JUI-CHUN WANG¹, HANJIE ZHANG², Teruyuki Ishikura², Toshihide Yamashita², Hiroshi Tsujioka¹ (1. Fukushima Medical University, 2. University of Osaka)

[P140] A single-cell transcriptome approach revealed the function of BMP4 for mesoderm lineage-specification in time-dependent manner

*Wei Zhao¹, Minoru Takasato¹ (1. RIKEN Center for Biosystems Dynamics Research)

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏢 Neural Development(JMS ASTERPLAZA 1F)

[P06] Poster Presentation Neural Development (P141-P154)

" **[PA]** PXXX" number is Poster Award candidate.

◆ Poster Award candidate

[**[PA]** P141(OP06-07)] Human-specific genetic/epigenetic setting of *NRSN2* functions in neural stem cell proliferation with a primate-specific gene, *APOL2*

*Mayuri Tokunaga¹, Boyang An¹, Akari Ando¹, Arisa Makimura¹, Hiroto Akuta¹, Fumihiro Morishita¹, Mizuki Honda¹, Takuya Imamura¹ (1. Graduate School of Integrated Sciences for Life, Hiroshima Univ.)

◆ Poster Award candidate

[**[PA]** P142] Impact of *Lhx1/5* Inactivation on Purkinje Cell Function: Ataxia and Disruption of Neurotransmitter Homeostasis

*Le SHEN¹, Kin Ming KWAN^{1,2,3,4} (1. School of Life Sciences, The Chinese University of Hong Kong, Hong Kong, China, 2. State Key Laboratory of Agrobiotechnology, The Chinese University of Hong Kong, Hong Kong, China, 3. Centre for Cell and Developmental Biology, The Chinese University of Hong Kong, Hong Kong, China, 4. Gerald Choa Neuroscience Institute, The Chinese University of Hong Kong, Hong Kong, China)

◆ Poster Award candidate

[**[PA]** P143] Loss of YY1 in Purkinje Cells Triggers Cerebellar Ataxia via Wnt10b-Mediated Impairment of Dendrite Development

*Ying Lam Blue Lui^{1,2} (1. The Chinese University of Hong Kong, 2. School of Life Sciences)

◆ Poster Award candidate

[**[PA]** P144] Elucidating how cerebellar neural progenitors generate diverse neurons

*Haochen Zhang¹, Yukimi Fujii¹, Jui-chun Wang¹, Takashi Shimizu¹, Masahiko Hibi¹ (1. Nagoya University)

◆ Poster Award candidate

[**[PA]** P145] Modeling retinoic acid responsiveness of neural stem cells by non-coding RNA towards efficient generation of humanized animals

非コードRNAを介した神経幹細胞のレチノイン酸応答性モデル化とヒト化動物作製への応用

*XU LIAN¹ (1. Hiroshima university)

◆ Poster Award candidate

[**[PA]** P146] Deciphering the evolutionary diversification of gliogenic mechanism in the primate brain

霊長類脳におけるグリア形成機構の進化的多様化の解明

*Sora Kawarada¹, Hayato Uchida¹, Mizuki Honda¹, Fumihiro Morishita¹, Takuya Imamura¹ (1. Hiroshima University)

◆ Poster Award candidate

[**[PA]** P147] Human-Specific AADAT Upregulation Reprograms Tryptophan Metabolism in Neural Stem Cells

ヒト特異的なAADAT高発現化による神経幹細胞のトリプトファン代謝リプログラミング

*Hirosumi Tomiyama¹, Keitarou Sato¹, Boyang An¹, Fumihiro Morishita¹, Takuya Imamura¹ (1. Hiroshima university)

[P148(OP06-12)] *Eip93F*-centered Genetic Network Regulates Kenyon Cell Identity and Function in *Drosophila* Mushroom Bodies

Pei-Chi Chung¹, *Hung-Hsiang Yu¹ (1. Institute of Cellular and Organismic Biology, Academia Sinica)

[P149(OP06-10)] CaMPARI-seq: Bridging the functional–molecular gap between neuronal activity and transcriptomic profiles

*Koji Matsuda^{1,2}, Chung-Han Wang^{1,2,3}, Hisaya Kakinuma¹, Atsushi Toyoda⁴, Tomoya Shiraki⁵, Koichi Kawakami⁵, Fumi Kubo^{1,2} (1. Laboratory for Sensorimotor Integration, RIKEN Center for Brain Science, 2. Systems Neuroscience Laboratory, National Institute of Genetics, 3. SOKENDAI (Graduate University for Advanced Studies), 4. Comparative Genomics Laboratory, National Institute of Genetics, 5. Laboratory of Molecular and Developmental Biology, National Institute of Genetics)

[P150(OP06-08)] Time-scaling of developmental brain programs: an epigenetic-metabolic axis
大脳発生プログラムの時間スケールリング：エピゲノムと代謝による制御

*Fumio Matsuzaki^{1,2}, Taeko Suetsugu^{1,2}, Hideya Sakaguchi², Hiroshi Kiyonari², Quan Wu^{1,2} (1. Kyoto University Graduate School of Medicine, 2. RIKEN Center for Biosystems Dynamics Research)

[P151] Multi-functional roles of Prom1-positive radial glia in gliogenesis and CNS–PNS boundary maintenance

*Takuma Shinozuka¹, Noriaki Sasai¹ (1. Nara Institute of Science and Technology)

[P152] A Potential Role of Meningeal Border-Associated Macrophages in Basement Membrane Disruption Following Maternal Immune Activation

母体免疫活性化後の基底膜破綻における髄膜の脳境界マクロファージ関与の可能性

*Tsukasa Shimamura¹, Yuki Hattori¹ (1. Department of Anatomy and Cell Biology, Graduate School of Medicine, Nagoya University.)

[P153] Role of BMP signaling in the regulation of cerebrospinal fluid extracellular vesicle biogenesis in choroid plexus

*Jiaying Li¹, Chunming Leung¹, Kin Ming Kwan^{1,2,3,4} (1. The Chinese University of Hong Kong, Hong Kong, China, 2. State Key Laboratory of Agrobiotechnology, The Chinese University of Hong Kong, Hong Kong, China, 3. Centre for Cell and Developmental Biology, The Chinese University of Hong Kong, Hong Kong, China, 4. Gerald Choa Neuroscience Institute, The Chinese University of Hong Kong, Hong Kong, China)

[P154] The role of BMP signaling in choroid plexus and cerebrospinal fluid functioning

*HO HIN CHEUNG¹ (1. The Chinese University of Hong Kong)

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏢 Evolution of Genome and Morphology(JMS ASTERPLAZA 1F)

[P07] Poster Presentation Evolution of Genome and Morphology (P155-P163)**[P155] Signs of latent limb bud progenitor potential in snake lateral plate mesoderm**

ヘビ側板中胚葉は潜在的な四肢前駆細胞を保持しているかもしれない

*SEIKO WATANABE¹, Shoma Kuriyama¹, Seung June Kwon¹, Yuji Atsuta^{1,2} (1. Kyushu Univ., Grad. Sch., Syst. Life Sci., 2. Kyushu Univ., Dept. Biol.)

[P156] Evolutionary emergence of jaw-specific *sox9* enhancers and insights into vertebrate jaw acquisition

顎口類における *sox9* 顎エンハンサーの同定と円口類との機能比較

*Takao Suzuki^{1,2}, Nusrat Hossain³, Takeshi Igawa^{1,2}, Makoto Suzuki^{1,2}, Nanoka Suzuki¹, Rie Kusakabe⁴, Hajime Ogino^{1,2} (1. Amphibian Research Center, Hiroshima University, 2. Graduate School of Integrated Sciences for Life, Hiroshima University, 3. Pediatric Genomics Program, Cedars-Sinai Guerin Children's, 4. Faculty of Chemistry, Materials and Bioengineering, Kansai University)

[P157] Expression divergence of *pax* ohnologs driven by silencer acquisition after whole-genome duplication

サイレンサーの獲得による *pax* オオノログの発現分化の解析

*Masaya Hirota^{1,2}, Haruki Ochi³, Nanoka Suzuki¹, Takeshi Igawa^{1,2}, Makoto Suzuki^{1,2}, Hajime Ogino^{1,2} (1. Amphibian Research Center, Hiroshima University, 2. Graduate School of Integrated Sciences for Life, Hiroshima University, 3. Graduate School of Science, Kobe University)

[P158] Accumulation of deleterious amino acid substitutions in duplicated genes following whole-genome duplication in *Xenopus laevis*

アフリカツメガエルにおける全ゲノム重複により生じた重複遺伝子での有害アミノ酸置換の蓄積

*Mari Nakasaki^{1,2}, Narue Kunishige^{1,2}, Takeshi Igawa^{1,2}, Hajime Ogino^{1,2}, Makoto Suzuki^{1,2} (1. Amphibian Research Center, 2. Graduate School of Integrated Sciences for Life, Hiroshima University, Higashi-hiroshima, Hiroshima, Japan)

[P159] Adult Interspecific Interactions Alter Offspring Development in *Drosophila* Genus

発生異常からみる *Drosophila* 属の世代間相互作用

*Keito Tsuda¹, Nagisa Matsuda-Watanabe¹, Takahiro Chihara¹ (1. Hiroshima university)

[P160] TRANSIENT DORSAL PHARYNGEAL CAVITY IN MEDAKA LARVAE REVEALED BY 3D RECONSTRUCTION: IMPLICATIONS FOR AIR-BREATHING EVOLUTION

*Takayuki Onai¹, Kiyoshi Naruse², Mate Verga³, Peter Fabian⁴ (1. Department of Anatomy, Medical School, University of Fukui, Japan, 2. National Institute for Basic Biology, Japan, 3. Dept of Genetics, ELTE Eötvös Loránd University, Hungary, 4. Dept. of Experimental Biology, Masaryk University, Brno, Czech Republic)

[P161] Genome-wide screening for functional genes generating oscillatory waves in the posterior segmentation of the spider embryo

クモ胚で振動波を作る遺伝子のゲノムワイド探索

*Yasuko Akiyama-Oda^{1,2}, Hiroki Oda¹ (1. JT Biohistory Research Hall, 2. Osaka Medical and Pharmaceutical University)

[P162] Emergence of a novel neuromuscular system underlying twin-tail morphology

Twin-tail形態におけるあらたな神経筋系の出現

Kohei Oji¹, Haruka Matsubara¹, Shigenori Nonaka², Yasuhiro Kamei³, Takashi Takeuchi¹, Takeshi Inoue⁴, *Gembu Abe¹ (1. Division of Developmental Biology, Department of Functional Morphology, School of Life Science, Faculty of Medicine, Tottori University., 2. The Exploratory Research Center on Life and Living

The 59th Annual Meeting of the Japanese Society of Developmental Biologists
Systems, NINS, 3. Trans-Scale Biology Center, NIBB, 4. Division of Adaptive Physiology, School of
Medicine, Faculty of Medicine, Tottori University.)

[P163] Genomic and structural evolution of lineage-specific odorant receptors in the biting
midge *Forcipomyia taiwana*

*Ming-Der Lin¹ (1. Tzu Chi University, Hualien, Taiwan)

Poster Discussion

📅 Wed. Jun 10, 2026 1:40 PM - 3:20 PM JST | Wed. Jun 10, 2026 4:40 AM - 6:20 AM UTC | 🏢 LBA(JMS ASTERPLAZA 1F)

[P08] Poster Presentation LBA (P164-P171)**[P164] Developmental Roles of Zebrafish *is/2a* and Its Enhancer in the Evolution of Paired Fins**

Tzu-Yi Hsu¹, Min-Chen Wu¹, Bo-Yu Wang¹, Ning Chiu¹, I-Chen Lu¹, *Shyh-Jye Lee¹ (1. Department of Life Science, National Taiwan University)

[P165] Dynamic signaling trajectories in human iPS cells capture chemical perturbations of developing systems

ヒトiPS細胞における動的シグナル軌跡解析による発生システムの化学的かく乱の可視化

*Yusuke Okubo^{1,2}, Rieko Matsuura¹, Soma Nakamoto¹, Koki Murayama^{1,2}, Kanon Sato^{1,2}, Asami Ishikawa¹, Yoshihiro Nakajima³, Junji Fukuda², Yoko Hirabayashi¹ (1. National Institute of Health Sciences, 2. Yokohama National University, 3. National Institute of Advanced Industrial Science and Technology)

[P166] Dll3 coordinates with Lfng to control oscillatory Notch signaling for synchronized Hes7 oscillations

Lfngと協調したDll3の振動的なNotchシグナル制御はHes7発現の同期化に寄与する

*Ayumi Goto^{1,2}, Akihiro Isomura^{1,3}, Ryoichiro Kageyama¹ (1. RIKEN Center for Biosystems Dynamics Research (BDR), 2. Graduate School of Biostudies, Kyoto University, 3. Graduate School of Medical Science, Kyoto Prefectural University of Medicine)

[P167] Whole-genome sequencing of CRFK and PG-4 cells to infer phenotypes and developmental processes of original donor cats

WGS解析によるネコ培養細胞PG-4,CRFKのドナー猫の表現型と発生過程の推定

*Gamma Tanaka¹, Rikuto Goto¹, Tetsushi Komoto^{1,2}, Akiko Kubota¹, Reo Hayashi¹, Takeshi Igawa^{1,2}, Naoaki Sakamoto^{1,3}, Akinori Awazu^{1,3} (1. Graduate School of Integrated Sciences for Life, Hiroshima University, 2. Amphibian Research Center, Hiroshima University, 3. Research Center for the Mathematics on Chromatin Live Dynamics, Hiroshima University)

[P168] APC/C activator Cdh1 regulates the termination of cell division required for muscle formation during ascidian embryogenesis

ホヤ胚における筋肉形成に必要な細胞分裂停止におけるAPC/CアクチベータCdh1の役割

Takuya Setoguchi¹, *Naohito Takatori¹ (1. Tokyo Metropolitan University)

[P169] Cellular hydraulics ensures robust endothelial-to-hematopoietic transition

*Igor Kondrychyn¹, Yan Che¹, Jason da Silva¹, Rajrishi Kumar¹, Li-Kun Phng¹ (1. RIKEN Center for Biosystems Dynamics Research (BDR))

[P170] The periodicity of tracheal cartilage rings emerges in self-organizing manner.

自己組織化による気管軟骨の周期性創発

Shogo Nakayama¹, *Mitsuru Morimoto¹ (1. RIKEN Center for Biosystems and Dynamics Research)

[P171] Cerebrospinal fluid regulates neural stem cell proliferation and cortical expansion in primates

霊長類の脳大型化を支える脳脊髄液の役割

*Jun Hatakeyama¹, Mami Akaike², Yuta Nakashima², Kenji Shimamura¹ (1. Institute of Molecular Embryology and Genetics, Kumamoto University, 2. Faculty of Advanced Science and Technology, Kumamoto University)

Education Lecture

(in Japanese)

Luncheon SFBD PhD Winner

Prize & Frontiers Prize 2026

(in English) (with Lunch Box)

Luncheon Seminar

(in Japanese)

Educational Lecture (in Japanese)

📅 Tue. Jun 9, 2026 1:00 PM - 2:30 PM JST | Tue. Jun 9, 2026 4:00 AM - 5:30 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[EL] Education Lecture (in Japanese)

Chairpersons:Hajime Ogino(Hiroshima Univ.), Takuya Imamura(Hiroshima Univ.)

1:00 PM - 1:05 PM JST | 4:00 AM - 4:05 AM UTC

[01] Introduction

Chairpersons:Hajime Ogino(Hiroshima Univ.), Takuya Imamura(Hiroshima Univ.)

1:05 PM - 2:30 PM JST | 4:05 AM - 5:30 AM UTC

[EL-01] Fifty Years of Regeneration Research and Fifty Annual Meetings of JSDB

再生研究50年、そして50回目の発生生物学会

*Kiyokazu Agata¹ (1. Former Director-General of National Institute for Basic Biology (NIBB))

Luncheon Frontiers Prize 2026 (in English)

📅 Thu. Jun 11, 2026 12:30 PM - 1:30 PM JST | Thu. Jun 11, 2026 3:30 AM - 4:30 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[FP] Luncheon SFBD PhD Winner Prize & Frontiers Prize 2026 (in English) (with Lunch Box)

Chairpersons:TBA (SFBD), Hiroshi Wada(The Univ. of Tsukuba)

12:30 PM - 12:40 PM JST | 3:30 AM - 3:40 AM UTC

[FP-01] Promotion about **Development, Growth & Differentiation**

Naoto Ueno (Editor-in-Chief of DGD)

12:40 PM - 12:43 PM JST | 3:40 AM - 3:43 AM UTC

[Mi1awos.-2add] Introduction

Chairperson:TBA (SFBD)

12:43 PM - 12:58 PM JST | 3:43 AM - 3:58 AM UTC

[FP-02] Single-cell transcriptomics uncovers conserved molecular mechanisms and functional diversification in multilayered epithelia

*Robin Journot¹ (1. Institut Curie)

12:58 PM - 1:00 PM JST | 3:58 AM - 4:00 AM UTC

[Mi1awos.-4add] Introduction

Chairperson:Hiroshi Wada(The Univ. of Tsukuba)

1:00 PM - 1:15 PM JST | 4:00 AM - 4:15 AM UTC

[FP-03] Exploring the mechanisms of left–right symmetry breaking through cellular flow in an avian model

*Rieko Asai¹ (1. International Research Center for Medical Sciences (IRCMS), Kumamoto University)

1:15 PM - 1:30 PM JST | 4:15 AM - 4:30 AM UTC

[FP-04] Understanding morphogenesis of the larvacean, *Oikopleura dioica*, a fast-developing chordate

*Takeshi Onuma^{1,2} (¹ Graduate School of Science and Engineering, Faculty of Science, Kagoshima University, 1-21-35 Korimoto, Kagoshima 890-0065, Japan

² Department of Biological Sciences, Graduate School of Science, Osaka University, 1-1 Machikaneyama-cho, Toyonaka, Osaka 560-0043, Japan)

Luncheon Seminar

📅 Wed. Jun 10, 2026 12:30 PM - 1:30 PM JST | Wed. Jun 10, 2026 3:30 AM - 4:30 AM UTC | 🏠 Room B = Multi-purpose studio (2F)(JMS ASTERPLAZA 2F)

[LS01] Luncheon Seminar by Leica Microsystems K.K. (in Japanese)

12:30 PM - 1:00 PM JST | 3:30 AM - 4:00 AM UTC

[LS01-01] 腸管上皮における細胞種構成比をロバストに維持する分子機構の解明

小長谷 有美先生 (理化学研究所 生命機能科学研究センター 定量的細胞運命決定研究チーム)

1:00 PM - 1:30 PM JST | 4:00 AM - 4:30 AM UTC

[LS01-02] ライカのライトシート顕微鏡ポートフォリオが可能にするライブイメージングの新たなステージ

福田 徹子 (ライカマイクロシステムズ株式会社)

Luncheon Seminar

📍 Wed. Jun 10, 2026 12:30 PM - 1:30 PM JST | Wed. Jun 10, 2026 3:30 AM - 4:30 AM UTC | 🏢 Room C = Meeting Room (4F)(JMS ASTERPLAZA 4F)

[LS02] Luncheon Seminar by Carl Zeiss Co., Ltd. (in Japanese)

座長：原佑介 カールツァイス株式会社 光学顕微鏡アプリケーションスペシャリスト

12:30 PM - 1:30 PM JST | 3:30 AM - 4:30 AM UTC

[LS02-01] 生体内シグナルダイナミクスを捉える：近代イメージングシステムによる生体イメージングの最前線

松井貴輝先生 奈良先端科学技術大学院大学 准教授

佐藤康彦 カールツァイス株式会社 光学顕微鏡エキスパート