Instruction for Presentations

For Oral presenters

Time:  Appointed; 18 min presentation and 2 min. discussion.
   Open Application; 13 min presentation and 2 min. discussion.

Come to the Oral presentation desk (at left front of the Main Hall) and check your PC before your session (during the coffee break or lunch).
As a backup, please bring your own presentation data in USB flash memory (PowerPoint 2010 and 2013 for Win and Mac are acceptable).

For Poster presenters

Poster size: Width; 90 cm, Hight; 120 cm
   (Board size, W; 90 cm and H; 180 cm)

Discussion:  17:45-18:15 (Odd numbers)
            18:15-18:45 (Even numbers)

Posting:   12:00-14:15 (1st Session), 20th Aug. to 12:30 (Lunch), 21st Aug.

Mount your poster on the board of your poster number before the first Coffee Break (14:15) and keep it until Lunch time on the 2nd day (We will use the Poster room for the next joint meeting, so please follow our instruction). Presenters are asked to stand in front of own posters for explanation during a given time.
August 20th, 2016

12:25-12:30 Opening Remarks (Yasuhiro Kamei)

12:30-13:55 Session 1; Signals and cell behaviors
   Chairs: Yoshihito Taniguchi & Hisashi Hashimoto

[OP-01] 12:30-12:45
The analysis of the cells generating micro bone tissue of fins
Junpei Kuroda, Akihito Hasegawa, Naomichi Maruta, Shigeru Kondo
Graduate School of Frontier Bioscience, Osaka University

[OP-02] 12:45-13:00
Establishment of a dual-fluorescence probe to visualize Neuregulin 1 ectodomain shedding in developing zebrafish embryos
Aosa Kamezaki¹, Fuminori Sato¹, Kazuhiro Aoki², Mai Tabuchi¹, Kazuhide Asakawa³,
Koichi Kawakami³, Fumio Matsuzaki⁴, Atsuko Sehara-Fujisawa¹
¹ Institute for Frontier Medical Sciences, Kyoto University,
² Okazaki Institute for Integrative Bioscience and National Institute for Basic Biology,
³ National Institute of Genetics,
⁴ RIKEN Center of Developmental Biology

[OP-03] 13:00-13:15
PI3K activation alleviates TDP-43-induced axonopathy in a zebrafish ALS model
Kazuhide Asakawa¹,², Koichi Kawakami¹,²
¹ Division of Molecular and Developmental Biology, National Institute of Genetics,
² Department of Genetics, Graduate University for Advanced Studies (SOKENDAI)

Understanding how microglia identify and remove their targets
Shinya Komoto and Francesca Peri
Developmental Biology Unit, European Molecular Biology Laboratory (EMBL), Heidelberg, GERMANY

Mechanisms underlying cone photoreceptor specification and patterning in zebrafish
Sachihiro C. Suzuki¹, Rachel O. Wong², and Ichiro Masai¹
¹ Developmental Neurobiology Unit, Okinawa Institute of Science and Technology graduate University,
² Department of Biological Structure, University of Washington, Seattle, USA.

Coffee Break (1) 13:55-14:15

14:15-15:45 Keynote Lectures
   Chairs; Kiyoshi Naruse & Shinji Takada

[Keynote Lecture] 14:15-15:00
Germ cell manipulation in fish
Goro Yoshizaki
Department of Marine Biosciences, Tokyo University of Marine Science and Technology
**Keynote Lecture 2** 15:00-15:45
Gonad transformation in zebrafish: A potential model for sex-changing teleosts
László Orbán
Reproductive Genomics Group, Temasek Life Sciences Laboratory, SINGAPORE

Coffee Break (2) 15:45-16:05

16:05-17:35 **Session 2; Cutting-edge phenomena and approaches**
Chairs: Tohru Ishitani & Shin-ichi Higashijima

**OP-06 Appointed** 16:05-16:25
Hidden function of the genetic code during the maternal-to-zygotic transition
Yuichiro Mishima1,2
1Institute of Molecular and Cellular Biosciences, 2Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo

**OP-07 Appointed** 16:25-16:45
Optogenetics reveals a temporal pattern of Nodal signaling regulating cell fate specification during gastrulation
Keisuke Sako1,2, Harald Janovjak1, Carl-Philipp Heisenberg1
1Institute of Science and Technology Austria, Klosterneuburg, AUSTRIA, 2Biosignal Research Center, Organization of Advanced Science and Technology, Kobe University

**OP-08** 16:45-17:00
Animal tissues actively eliminate cells with unfit levels of β-catenin to make certain of Wnt/β-catenin signaling-mediated morphogenesis
Yuki Akieda, Hironobu Furuie, Tohru Ishitani
Division of Cell Regulation Systems, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University

**OP-09 Appointed** 17:00-17:20
Live imaging and molecular dissection of organelle degradation in the lens
Hideaki Morishita and Noboru Mizushima
Department of Biochemistry and Molecular Biology, Faculty of Medicine, The University of Tokyo

**OP-10** 17:20-17:35
Actin dynamics during lumen formation in sprouting angiogenesis
Li-Kun Phng1, Véronique Gebala2, Holger Gerhardt2
1Department of Cell Biology, National Cerebral and Cardiovascular Center Research Institute, 2Integrative Vascular Biology, Max-Delbrück Centre for Molecular Medicine (MDC), Berlin-Buch, GERMANY

Move to Poster Session (Conference Room B)

**Poster Presentation** 17:45-18:45
17:45-18:15 Odd Numbers
18:15-18:45 Even Numbers

**Social Hour** 18:45-20:30
(Conference Center will close at 21:00)
August 21st, 2016

(Conference Center will open at 8:30)

8:55-9:00 General announcement

9:00-10:35 Session 3; Differentiation and development
Chairs: Takashi Shimizu and Hiromi Hirata

OP-11 9:00-9:15
Functional visualization and disruption of targeted genes using CRISPR/Cas9-mediated eGFP reporter integration in zebrafish
Kiyohito Taimatsu¹, Satoshi Ota¹, Kanoko Yanagi¹, Tomohiro Namiki¹, Rie Ohga¹, Shin-ichi Higashijima², Atsuo Kawahara¹
¹ Laboratory for Developmental Biology, University of Yamanashi
² National Institute for Basic Biology

OP-12 9:15-9:30
Maternal expression of the novel centrosome assembly factor Wdr8 is essential for medaka embryonic mitosis and development
Daigo Inoue¹, Manuel Stemmer¹, Thomas Thumberger¹ Joachim Wittbrodt¹, Oliver Gruss²
¹ Centre for Organismal Studies, Heidelberg University, GERMANY
² Institute for Genetics, The University of Bonn, Bonn, GERMANY

OP-13 9:30-9:45
DNA methylation controlling lymphoid development
Norimasa Iwanami, Michael Schorpp, Thomas Boehm
Max Planck Institute of Immunobiology and Epigenetics, Freiburg, GERMANY

OP-14 9:45-10:00
Sox5 modulates Sox10-mediated pigment cell fate specification in medaka and zebrafish
Yusuke Nagao¹,², Hiroyuki Takada³, Motohiro Miyada³, Ryoko Seki¹, Yasuhiro Kamei⁴, Ikuyo Hara⁵, Yoshihito Taniguchi⁶, Kiyoshi Naruse⁵, Masahiko Hibi¹,³, Robert N. Kelsh², Hisashi Hashimoto¹,³

OP-15 Appointed 10:00-10:20
A direct interaction with the somite regulates hematopoietic stem cell fate
Isao Kobayashi
Laboratory of Stem Cell Development, Faculty of Natural System, Institute of Science and Engineering, Kanazawa University

OP-16 10:20-10:35
Hybrid systems in zebrafish pharyngeal pouch segmentation
Kazunori Okada, Shinji Takada
Okazaki Institute for Integrative Bioscience and National Institute for Basic Biology

Coffee Break (3) 10:35-10:50
10:50-11:35  **Keynote Lecture**  
   Chair; Hitoshi Okamoto

**Keynote Lecture 3** 10:50-11:35  
**A scalable health management and biosafety program based on Zebrafish International Resource Center operations**  
Zoltan M. Varga  
*Zebrafish International Resource Center (ZIRC), University of Oregon, Eugene, Oregon, USA*

11:35-12:15  Lunch (Conference Room B)  
A reservation ticket is required for exchanging Lunch Box.  
-12:15  Poster Award Voting deadline  
Poster removal

12:15-13:15  **Community Meeting** in Japanese (Conference Room A)  
   Chairs: Yasuhiro Kamei, Kiyoshi Naruse & Hitoshi Okamoto

13:15-14:40  **Session 4; Appearance and behavior**  
   Chairs: Hideaki Takeuchi & Masato Kinoshita

**OP-17 13:15-13:30**  
**The genetic basis of sexually dimorphic traits in *Oryzias woworae*: Toward the understanding of the genetic basis for phenotypic diversification in Indonesian medakas**  
Satoshi Ansai¹, Koji Mochida², Shingo Fujimoto³, Daniel F. Mokodongan³, Atsushi J. Nagano⁴, Kazunori Yamahira³, Jun Kitano¹  
¹ *Division of Ecological Genetics, Department of Population Genetics, National Institute of Genetics,*  
² *Department of Biology, Keio University,*  
³ *Tropical Biosphere Research Center, University of the Ryukus,*  
⁴ *Faculty of Agriculture, Ryukoku University*

**OP-18 Appointed 13:30-13:50**  
**Mate choice of red-blind medaka**  
Yumi Harada¹, Tamaki Uchikawa², Makiko Kamijo¹, Noriko Homma¹, Yasuhiro Kamei²,³, Shoji Fukamachi¹  
¹ *Laboratory of Evolutionary Genetics, Department of Chemical and Biological Sciences, Japan Women’s University,*  
² *Spectrography and Bioimaging Facility, Core Research Facilities, National Institute for Basic Biology,*  
³ *Department of Basic Biology in the School of Life Science of the Graduate University for Advanced Studies (SOKENDAI)*

**OP-19 13:50-14:05**  
**Persistent mate-guarding enhances male reproductive success via familiarization with the female in medaka fish**  
Saori Yokoi¹, Satoshi Ansai², Masato Kinoshita³, Kiyoshi Naruse¹, Yasuhiro Kamei¹,  
Larry J. Young⁴, Teruhiro Okuyama⁵, Hideaki Takeuchi⁶  
¹ *Laboratory of BioResources, National Institute for Basic Biology, Okazaki*  
² *National Institute of Genetics, Mishima,*  
³ *Division of Applied Biosciences, Graduate School of Agriculture, Kyoto University,*  
⁴ *Center for Translational Social Neuroscience, Emory University, USA,*  
⁵ *The Picower Institute for Learning and Memory, Massachusetts Institute of Technology, USA,*  
⁶ *Graduate School of Natural Science and Technology, Okayama University*
Molecular and genetic mechanisms underlying variation in seasonal reproduction between stickleback ecotypes
Asano Ishikawa, and Jun Kitano
Division of Ecological Genetics, Department of Population Genetics, National Institute of Genetics

The study of hippocampal functions in zebrafish
Hideyuki Tanabe¹, Pradeep Lal¹, Miki Iwasaki¹, Akira Muto¹,², Koichi Kawakami¹,²
¹ Division of Molecular and Developmental Biology, National Institute of Genetics
² Department of Genetics, The Graduate University for Advanced Studies (SOKENDAI)

14:40-14:50 Brief Break
14:50-15:05 Award Ceremony
(Oral Presentation Award and Poster Presentation Award)
Closing Remarks (Hitoshi Okamoto)

Interval Coffee Break for Joint Event (4)
(15:15-17:15 NBRP Zebrafish committee meeting at Conference Room C (2nd Floor))

The 2nd Workshop on
“Cutting-edge approaches” for young researchers who use minor animals
(in Japanese)
（第2回ユニークな少数派実験動物を扱う若手が最先端アプローチを勉強する会）
15:00- registration
15:30- opening remarks
Poster Presentations

A*: Poster Award Candidates (Students)

The organizing committee will give "Best Poster Award" on the 22nd Japanese Medaka and Zebrafish Meeting.

Please vote 3 posters using your Voting Card.

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<td>02</td>
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<td>03 A*</td>
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<td>Noriko Wakisaka</td>
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