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**Flyday, Sept. 9<sup>th</sup> ; 13:40-14:20**

**Plenary Lecture**

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**Chair:** Ken-ichi Kimura

Outa Uryu, Ryusuke Niwa

Faculty of Life and Environmental Sciences, University of  
Tsukuba

**Decision Making in *Drosophila***

Teiichi Tanimura

Graduate School of Systems Life Sciences, Kyusyu Univ.

**S1-5** 15:24-15:40

**Identification of neuroendocrine pathways  
regulating female germline stem cell  
proliferation in *Drosophila***

Yuto Yoshinari<sup>1</sup>, Tomotsune Ameku<sup>1</sup>, Shu Kondo<sup>2</sup>, Yuko  
Shimada-Niwa<sup>2</sup>, and Ryusuke Niwa<sup>3,4</sup>

1) Graduate School of Life and Environmental Sciences,  
University of Tsukuba; 2) Genetic Strains Research  
Center, National Institute of Genetics; 3) Life Science  
Center of Tsukuba Advanced Research Alliance,  
University of Tsukuba; 4) Faculty of Life and  
Environmental Sciences, University of Tsukuba; 5)  
PRESTO, Japan Science and Technology Agency

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**Flyday, Sept. 9<sup>th</sup> ; 14:20-15:56**

**Oral Session 1**

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**Chair:** Shu Kondo

**S1-1** 14:20-14:36

**Experience-dependent tuning of the  
auditory behavior in *Drosophila***

Xiaodong Li, Hiroshi Ishimoto, Azusa Kamikouchi

Graduate School of Science, Nagoya University

**S1-6** 15:40-15:56

**A gene network for nociceptive neuron  
development and function**

Caroline Delandre<sup>1</sup>, Andrew T Kwon<sup>2</sup>, Saori Akimoto<sup>1</sup>,  
Koji Wada<sup>1</sup>, Yukihiko Noro<sup>1,2</sup>, Ben Torben-Nielsen<sup>3</sup>,  
Adrian W Moore<sup>1</sup>

1) RIKEN Brain Science Institute, Wako, Japan; 2) RIKEN  
Center for Life Science Technologies, Yokohama, Japan;  
3) University of Hertfordshire, Hertfordshire, United  
Kingdom

**S1-2** 14:36-14:52

**Species-specific auditory behavior of four  
*Drosophila* species**

Yusuke Yoneyama, Eriko Matsuo, Yuki Ishikawa, Azusa  
Kamikouchi

Graduate School of Science, Nagoya University

**S1-3** 14:52-15:08

**Exploring the function of auditory sensory  
neurons that respond to broad-frequency  
sound**

Hyunsoo Kim, Yuki Ishikawa, Azusa Kamikouchi

Graduate School of Science, Nagoya University

**Break** 15:56-16:06

**S1-4** 15:08-15:24

**Molecular and cellular mechanisms  
controlling development of the clock  
neurons in the fruit fly *Drosophila  
melanogaster***

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**Flyday, Sept. 9<sup>th</sup> ; 16:06-17:42**

**Oral Session 2**

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**Chair:** Takeshi Awasaki

**S2-1** 16:06-16:22

**Neuronal screening to fill the missing links between the sugar sensation and the motor/reward systems**

Takaaki Miyazaki<sup>1,2,3</sup>, Tzu-Yang Lin<sup>1</sup>, Emiko Suzuki<sup>3</sup>, Chihon Lee<sup>1</sup>, Mark Stopfer<sup>1</sup>, Kei Ito<sup>2</sup>

1) NIH-NICHD 2) IMCB, Univ. Tokyo 3) National Institute of Genetics

**S2-2** 16:22-16:38

**Phenotypic analysis of a *fruitless* mutant and CRISPR-mediated transgenesis in *D. subobscura***

Ryoya Tanaka, Hinata Murakami, Kosei Sato, Daisuke

Yamamoto

Tohoku University

**S2-3** 16:38-16:54

**Notch signaling in glial cells regulates long-term memory in *Drosophila***

Saho Yoshioka<sup>1</sup>, Wataru Kobayashi<sup>1</sup>, Saki Nagai<sup>1</sup>,

Takeshi Awasaki<sup>2</sup>, Motoyuki Itoh<sup>1</sup>, Ayako Tonoki<sup>1</sup>.

1) Chiba University, 2) Kyorin University

**S2-4** 16:54-17:10

**Dendritic Eph defines pheromone-sensing circuit via dendrite-dendrite segregation in *Drosophila***

Marie Anzo<sup>1</sup>, Sayaka Sekine<sup>1</sup>, Kinhon Chao<sup>1</sup>, Shirin

Makihara<sup>1</sup>, Masayuki Miura<sup>1,2</sup>, Takahiro Chihara<sup>1,3</sup>

1) University of Tokyo, 2) AMED 3) Hiroshima University

**S2-5** 17:10-17:26

**Sugar intake regulated by the neurons expressing serotonin receptor 5-HT<sub>2A</sub>R in the insulin pathway in *Drosophila***

Yuta Mabuchi<sup>1</sup>, Nobuaki Tanaka<sup>1,2</sup>

1) Hokkaido University, 2) PRESTO, JST

**S2-6** 17:26-17:42

**S-adenosylmethionine governs *Drosophila* intestinal homeostasis**

Kayoko Tsuda-Sakurai<sup>1,2</sup>, Fumiaki Obata<sup>1,3</sup>, Takahiro Yamazaki<sup>1</sup>, Kei Nishimura<sup>1</sup>, Masayuki Miura<sup>1,2</sup>

1) Grad. Sch. of Pharm. Sci., Univ. of Tokyo, 2)

AMED/CREST, 3) The Francis Crick Institute, UK

**Break** 17:42-17:52

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**Flyday, Sept. 9<sup>th</sup> ; 17:52-19:12**

**Oral Session 3**

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**Chair:** Ayako Tonoki

**S3-1** 17:52-18:08

***Gr64a-f* genes contribute to the variation of fructose sensitivity in natural population of *Drosophila melanogaster***

Shun Uchizono, Taichi Q Itoh, Teiichi Tanimura

Graduate School of Systems Life Sciences, Kyushu University

**S3-2** 18:08-18:24

**Sense of softness mediated by TRP channels, nanchung and nompC, in *Drosophila* larvae**

Nana Kudo, Teiichi Tanimura

Department of Biology, Kyushu University

**S3-3** 18:24-18:40

**Metabolomic analysis of egg activation in *Drosophila***

Misato Yamamoto, Taro Kaneuchi, Yukiko Sato, Satomi

Takeo, Toshiro Aigaki

Laboratory of Cellular Genetics, Department of Biological Sciences, Tokyo Metropolitan University

**S3-4 18:40-18:56**

**Coevolution of male and female genitalia in *Drosophila suzukii* driven by changes in ovipositor shape**

Leona Muto<sup>1</sup>, Yoshitaka Kamimura<sup>2</sup>, Kentaro Tanaka<sup>1</sup>, Aya Takahashi<sup>1</sup>

1) Tokyo Metropolitan University, 2) Keio University

**S3-5 18:56-19:12**

**Enhancer activity of human ultra-conserved elements in fruit fly**

Takashi Ohsako<sup>1</sup>, Ryosuke Nakano<sup>2</sup>, Takeru Matsuda<sup>3</sup>, Takeshi Awasaki<sup>4</sup>, Masatoshi Tomaru<sup>2</sup>, Timothy L. Karr<sup>2</sup>, Toshiyuki Takano<sup>2</sup>

1) Adv. Tech. Cent., Kyoto Inst. Tech., 2) Dept. Dros. Genomics Genet. Res., Kyoto Inst. Tech., 3) Dept. Appl. Biol., Kyoto Inst. Tech., 4) Kyorin University

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**Saturday, Sept. 10<sup>th</sup> ; 9:00-10:20**

**Oral Session 4**

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**Chair:** Naoyuki Fuse

**S4-1 9:00-9:16**

**Tetragonal versus hexagonal tiling of the *Drosophila* eye**

Takashi Hayashi<sup>1</sup>, Masakazu Akiyama<sup>2</sup>, Makoto Sato<sup>1</sup>

1) Kanazawa University, 2) Hokkaido University

**S4-2 9:16-9:32**

**Physical regulation of whole body shape by Obstructor-E, a constituent of the larval cuticle**

Reiko Tajiri, Haruhiko Fujiwara, Tetsuya Kojima

Grad. Sch. Frontier Sciences, University of Tokyo

**S4-3 9:32-9:48**

**Wnt proteins serve as directional cues for the Par-complex polarity and the *Drosophila* nervous tissue growth**

Shigeki Yoshiura, Fumio Matsuzaki

RIKEN Center for Developmental Biology

**S4-4 9:48-10:04**

**Nanopatterning of cuticle: How to make nanopores on *Drosophila* olfactory sensilla**

Toshiya Ando<sup>1,3</sup>, Kazuyo Misaki<sup>2</sup>, Shigenobu Yonemura<sup>2</sup>, Shigeo Hayashi<sup>1</sup>

1) RIKEN CDB, Laboratory for Morphogenetic Signaling, 2) RIKEN CLST, Ultrastructural Research Team, 3) NIBB, Division of Evolutionary Developmental Biology

**S4-5 10:04-10:20**

**Cell death enzymes accelerate *Drosophila* wing growth to ensure the bilateral symmetry of wing size**

Natsuki Shinoda<sup>1</sup>, Takahiro Chihara<sup>1,3</sup>, Akiko Koto<sup>1,2</sup>, Masayuki Miura<sup>1,2</sup>

1) The University of Tokyo, 2) CREST-AMED, 3) Hiroshima University

**Break 10:20-10:30**

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**Saturday, Sept. 10<sup>th</sup> ; 10:30-11:50**

**Oral Session 5**

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**Chair:** Hiroko Sano

**S5-1** 10:30-10:46

**Determining molecular mechanisms for tissue non-autonomous responses to disc damage in *Drosophila melanogaster***

Tomonori Katsuyama<sup>1,2</sup>, Soshiro Kashio<sup>1</sup>, Mandi Zhou<sup>1</sup>, and Masayuki Miura<sup>1,2</sup>

1) Department of Genetics, Graduate school of Pharmaceutical Sciences, University of Tokyo, 2) AMED-CREST, AMED

**S5-2** 10:46-11:02

**Glutathione biosynthesis is essential for larval development in the fruit fly *Drosophila melanogaster***

Chikana Yamamoto<sup>1</sup>, Sora Enya<sup>1</sup>, Hajime Mizuno<sup>2</sup>, Takeshi Esaki<sup>2</sup>, Masatoshi Iga<sup>3</sup>, Hiroshi Kataoka<sup>3</sup>, Tsutomu Masujima<sup>2</sup>, Ryusuke Niwa<sup>4,5</sup>

1) Graduate School of Life and Environmental Sciences, University of Tsukuba; 2) Laboratory of Single-Cell Mass Spectrometry, RIKEN QBiC; 3) Graduate School of Frontier Sciences, The University of Tokyo; 4) Faculty of Life and Environmental Sciences, University of Tsukuba; 5) PRESTO, JST

**S5-3** 11:02-11:18

**Mechanical competition for the lost territory of apoptotic cells in heterogeneously proliferating tissue**

Alice Tsuboi<sup>1</sup>, Shizue Ohsawa<sup>2</sup>, Tatsushi Igaki<sup>2</sup>, Koichi Fujimoto<sup>1</sup>

1) Osaka University, 2) Kyoto University

**S5-4** 11:18-11:34

**Identification and characterization of an “insect epididymis”**

Timothy Karr

Kyoto Institute of Technology

**S5-5** 11:34-11:50

**Winged Eye induces imaginal disc transdetermination through heterochromatin formation**

Keita Masuko, Hirofumi Furuhashi, Naoyuki Fuse, Shoichiro Kurata

Graduate School of Pharmaceutical Science, Tohoku University

**Luncheon** 12:05-13:00

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**Saturday, Sept. 10<sup>th</sup> ; 13:00-14:50**

**Poster Session 1**

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**Odd number**

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**Saturday, Sept. 10<sup>th</sup> ; 15:00-16:52**

**Oral Session 6**

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**Chair:** Akiko Satoh

**S6-1** 15:00-15:16

**Genetic identification of Pointed/ETS transcriptional factor as a regulator of senescence-mediated tumor progression in *Drosophila***

Takao Ito, Masato Enomoto, Tatsushi Igaki

Graduate School of Biostudies, Kyoto University

**S6-2** 15:16-15:32

**Genetic and mathematical dissection of tumor heterogeneity that causes cancer progression**

Masato Enomoto<sup>1</sup>, Honda Naoki<sup>2</sup>, Daisaku Takemoto<sup>1</sup>,

and Tatsushi Igaki<sup>1</sup>

1) Laboratory of Genetics, Graduate School of Biostudies, Kyoto University, 2) Imaging Platform for Spatio-Temporal Information, Graduate School of Medicine, Kyoto University

**S6-3 15:32-15:48**

**Neuropeptides regulate mating-induced proliferation of germline stem cells**

Tomotsune Ameku<sup>1</sup>, Yuto Yoshinari<sup>1</sup>, Shu Kondo<sup>2</sup>, Yuko Shimada-Niwa<sup>3</sup>, Ryusuke Niwa<sup>4,5</sup>

1) Graduate School of Life and Environmental Sciences, University of Tsukuba 2) Genetic Strains Research Center, National Institute of Genetics 3) Life Science Center of Tsukuba Advanced Research Alliance, University of Tsukuba 4) Faculty of Life and Environmental Sciences, University of Tsukuba 5) PRESTO, Japan Science and Technology Agency

**S6-4 15:48-16:04**

**Genetic screen in *Drosophila* muscle identifies autophagy-mediated T-tubule remodeling**

Naonobu Fujita<sup>1,2</sup>, Mitsunori Fukuda<sup>1</sup>, and Amy Kiger<sup>2</sup>

1) Tohoku University, 2) University of California, San Diego

**S6-5 16:04-16:20**

**Oocyte polarity establishment and germ plasm assembly require the endocytic regulation of the yolk protein receptor *Yolkless***

Tsubasa Tanaka<sup>1,3</sup>, Sachiko Otsu<sup>1</sup>, Naoki Tani<sup>2</sup>, and Akira Nakamura<sup>1,3</sup>

1) Department of Germline Development, Institute of Molecular Embryology and Genetics (IMEG), 2) Liaison Laboratory Research Promotion Center, IMEG, 3)

Graduate School of Pharmaceutical Sciences, Kumamoto University

**S6-6 16:20-16:36**

**Identification of novel microtubule-associated proteins that contribute to the epithelial morphogenesis through the Wnt/PCP signaling pathway**

Koji Kikuchi<sup>1</sup>, Tsubasa Tanaka<sup>2</sup>, Masaki Arata<sup>3</sup>, Dongbo Shi<sup>4</sup>, Akira Nakamura<sup>2</sup>, Tadashi Uemura<sup>3</sup>, Toshihiko Fujimori<sup>4</sup>, Hiroyuki Nakanishi<sup>1</sup>

1) Dept. Mol. Pharm., Grad. Sch. of Med. Sci., Kumamoto Univ., 2) Dept. Germline Dev., IMEG, Kumamoto Univ., 3) Grad. Sch. of Biostudies, Kyoto Univ., 4) Div. of Embryology, NIBB

**S6-7 16:36-16:52**

**Abnormal planar spindle orientation induces cellular plasticity in *Drosophila* epithelia**

Yu-ichiro Nakajima<sup>1</sup>, Christopher Seidel<sup>2</sup> and Matthew C. Gibson<sup>2</sup>

1) Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, 2) Stowers Institute for Medical Research, USA

**Break 16:52-17:02**

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**Saturday, Sept. 10<sup>th</sup> ; 17:02-18:38**

**Oral Session 7**

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**Chair:** Shoichiro Kurata

**S7-1 17:02-17:18**

**Neuronal processing of harmful stimuli mediated by dendritic Ca<sup>2+</sup> rises and specific firing patterns**

Tadao Usui<sup>1</sup>, Koun Onodera<sup>1</sup>, Shin-Ichiro Terada<sup>1</sup>,  
Daisuke Matsubara<sup>1</sup>, Masanori Matsuzaki<sup>3</sup>, Risa  
Nishimura<sup>1</sup>, Akira Murakami<sup>2</sup>, Naoki Honda<sup>4</sup>, and  
Tadashi Uemura<sup>1</sup>

1) Graduate School of Biostudies, Kyoto University, 2)  
Faculty of Science, Kyoto University, 3) National Institute  
for Basic Biology, 4) Research and Education Platform  
for Innovative Research on Dynamic Living Systems  
Based on Multi-Dimensional Quantitative Imaging and  
Mathematical Modeling, Kyoto University

**S7-2 17:18-17:34**

**Visualization and manipulation of neural  
circuit activated by courtship behavior in  
the brain of *Drosophila melanogaster*,  
using a neural activity marker gene, *Hr38***

Taketoshi Kiya, Masafumi Iwami  
Kanazawa University

**S7-3 17:34-17:50**

**Two receptor tyrosine phosphatases  
dictate the depth of final axonal stabilizing  
layer in the *Drosophila* visual system**

Satoko Hakeda-Suzuki, Hiroki Takechi and Takashi  
Suzuki  
Graduate School of Life Science and Technology, Tokyo  
Institute of Technology

**S7-4 17:50-18:06**

**A critical role of insulin-like signaling in  
memory maintenance and age-related  
memory impairment in *Drosophila***

Ayako Tonoki, Kento Tanabe, Motoyuki Itoh  
Chiba University

**S7-5 18:06-18:22**

**The role of the novel periphery-to-brain  
signaling by the CCHa2 peptide in the  
coupling of growth to nutritional status**

Hiroko Sano<sup>1</sup>, Akira Nakamura<sup>2</sup>, Michael J. Texada<sup>3</sup>,  
James W. Truman<sup>3</sup>, Hiroshi Ishimoto<sup>4</sup>, Azusa Kamikouchi<sup>4</sup>,  
<sup>5</sup>, Yutaka Nibu<sup>6</sup>, Kazuhiko Kume<sup>7</sup>, Takanori Ida<sup>8</sup>, Daisuke  
Yamamoto<sup>9</sup>, Masayasu Kojima<sup>1</sup>

1) Kurume University, 2) Kumamoto University, 3) Janelia  
Research Campus, HHMI 4) Nagoya University, 5)  
PRESTO, 6) Cornell University, 7) Nagoya City University,  
8) University of Miyazaki, 9) Tohoku University

**S7-6 18:22-18:38**

**Tissue geometry triggers a positive  
transcriptional feedback for the  
maintenance of tubular epithelial  
architecture**

Takefumi Kondo<sup>1,2,3</sup> and Shigeo Hayashi<sup>3</sup>

1) Graduate School of Biostudies, Kyoto University, 2)  
Keihanshin Consortium for Fostering the Next Generation  
of Global Leaders in Research (K-CONNEX), Kyoto  
University, 3) RIKEN Center for Developmental Biology

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**Saturday, Sept. 10<sup>th</sup> ; 19:00-21:00**

**Reception**

**Main Dining Hall**

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**Sunday, Sept. 11<sup>th</sup> ; 9:00-10:40**

**Poster Session 2**

**Even number**

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**Sunday, Sept. 11<sup>th</sup> ; 10:50-12:10**

**Oral Session 8**

**Chair: Akira Nakamura**

**S8-1** 10:50-11:06

**Establishment of new model system for Alzheimer's disease using *Drosophila***

Leo Tsuda, Yasutoyo Yamasaki, Young-Mi Lim

National Center for Geriatrics and Gerontology

**S8-2** 11:06-11:22

**Dietary restriction improves intestinal cellular fitness through *dMyc* to enhance gut barrier function and lifespan in *D. melanogaster***

Kazutaka Akagi<sup>1,2</sup>, Subhash D. Katewa<sup>1</sup>, Kenneth A.

Wilson<sup>1</sup>, Mauricio Ortega<sup>1</sup>, Jesse Simmons<sup>1</sup>, Subir Kapuria<sup>1</sup>, Heinrich Jasper<sup>1</sup>, Pankaj Kapahi<sup>1</sup>

1) Buck Institute for Research on Aging, 2) National Center for Geriatrics and Gerontology

**S8-3** 11:22-11:38

**The molecular basis of distinct responses to nutrient balances between *Drosophila* generalist and specialist species**

Yukako Hattori<sup>1</sup>, Kaori Watanabe<sup>1</sup>, Yuuki Takahashi<sup>1</sup>, Yuki

Furumizo<sup>1</sup>, Hironobu Uchiyama<sup>2</sup>, Shunsuke Yajima<sup>2</sup>, Masayoshi Watada<sup>3</sup>, Tadashi Uemura<sup>1</sup>

1) Graduate School of Biostudies, Kyoto University, 2) NODAI Genome Research Center, Tokyo University of Agriculture, 3) Graduate School of Science and Engineering, Ehime University

**S8-4** 11:38-11:54

**An evolutionarily ancient role for Plexins during epithelial repair in *Drosophila* and zebrafish**

Sa Kan Yoo<sup>1</sup>, Heath G. Pascoe<sup>2</sup>, Telmo Pereira<sup>3</sup>, Shu

Kondo<sup>4</sup>, Antonio Jacinto<sup>3</sup>, Xuewu Zhang<sup>2</sup>, Iswar Hariharan<sup>5</sup>

1) RIKEN, 2) University of Texas Southwestern Medical Center, 3) CEDOC, Chronic Diseases Research Centre, 4) National Institute of Genetics, 5) UC-Berkeley

**S8-5** 11:54-12:10

**Homeostasis of an apical microtubule network coupled to basal shifts of polarity propels cell shortening during epithelial folding**

Yu-Chiun Wang, Michiko Takeda, Mustafa Sami

Laboratory for Epithelial Morphogenesis, RIKEN Center for Developmental Biology

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**Sunday, Sept. 11<sup>th</sup> ; 13:10-13:40**  
**General Meeting (In Japanese)**

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**Sunday, Sept. 11<sup>th</sup> ; 13:40-14:40**  
**Session for NBRP**

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**Sunday, Sept. 11<sup>th</sup> ; 14:40-15:00**  
**Moriwaki Award Presentation**

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## Poster Session

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**P-1**

### **Context-dependent functions of Pecanex in Notch and other signaling pathways**

Tomoko Yamakawa, Puspa Das, Izumi Morita, Kenji Matsuno  
Osaka University

**P-2**

### **Transcriptome analysis to identify genes responding to mechanical force in *Drosophila* embryos**

Tomoki Ishibashi<sup>1</sup>, Katsushi Yamaguchi<sup>2</sup>, Shuji Shigenobu<sup>2</sup>, Yuya Takahashi<sup>3</sup>, Kenta Shinha<sup>3</sup>, Hiroshi Kimura<sup>3</sup>, Kenji Matsuno<sup>1</sup>  
1) Osaka University, 2) National Institute for Basic Biology, 3) Tokai University

**P-3**

### **Novel role of Notch signaling via cross-talk with Toll signaling in dorsal-ventral axis formation**

Satoshi Kuwana<sup>1</sup>, Takuma Gushiken<sup>1</sup>, Kenjiroo Matsumoto<sup>1</sup>, Martin Baron<sup>2</sup>, Kenji Matsuno<sup>1</sup>  
1) Department of Biological Sciences, Osaka University, 2) University of Manchester, Faculty of Life Sciences

**P-4**

### **Dynamics of subcellular localization of Four-jointed in imaginal disc development**

Hodaka Shiraishi, Yoko Kubo, Yoko Keira, Hiroyuki O. Ishikawa  
Chiba University

**P-5**

### **An overexpression screen identifies**

### **regulators of cell-cell signaling**

Moe Wada, Tomoko Tanaka, Yuka Doi, Hiroyuki O. Ishikawa  
Chiba University

**P-6**

### **Dissecting the mechanism of tumor progression triggered by polyploid giant cells in *Drosophila***

Bojie Cong, Shizue Ohsawa, Tatsushi Igaki  
Laboratory of Genetics, Kyoto University Graduate School of Biostudies

**P-7**

### **Rab6 is required for multiple apical transport pathways but not the basolateral transport pathway in *Drosophila* photoreceptors**

Yuri Nakamura<sup>1</sup>, Nozomi Iwanami<sup>1</sup>, Takunori Satoh<sup>1</sup>, Ziguang Liu<sup>2</sup>, Akiko K. Satoh<sup>1</sup>  
1) Division of Life Science, Graduate School of Integral Arts and Science, Hiroshima University, 2) Institute of Animal Husbandry, Heilongjiang Academy of Agricultural Sciences, China

**P-8**

### **The mechanism of the domain formation within apical membrane in *Drosophila* photoreceptors**

Sakiko Ogi<sup>1</sup>, Takunori Satoh<sup>1</sup>, Atsushi Matsuda<sup>2</sup>, Ziguang Liu<sup>1</sup>, Akiko K. Satoh<sup>1</sup>  
1) Hiroshima University, 2) Osaka University

**P-9**

### **A Link between Mechanical Control of Tissue Growth and Cell Competition**



Daiki Umetsu, Erina Kuranaga

Laboratory for Histogenetic Dynamics, Graduate School of Life Sciences, Tohoku University

**P-10**

**Toward Quantitative Analysis of Cell-autonomous Polarization in Asymmetric Cell Division by Reconstruction Approach in S2 cells**

Kalyn Kawamoto<sup>1,2</sup>, Shigeki Yoshiura<sup>1</sup>, Fumio Matsuzaki<sup>1,2</sup>

1) Laboratory for Cell Asymmetry, Center for Developmental Biology, RIKEN, 2) Graduate School of Biostudies, Kyoto University

**P-11**

**Invagination in polar coordinate system: role of radially propagating EGFR-ERK signaling for the invagination of disc-shaped tracheal placode**

Yosuke Ogura, Mustafa Sami, Shigeo Hayashi  
Center for Developmental Biology, RIKEN

**P-12**

**Useful ImageJ plug-ins for biological image analysis**

Housei Wada, Shigeo Hayashi  
RIKEN Center for Developmental Biology

**P-13**

**Divergence of structural strategies for E-cadherin homophilic binding among bilaterians**

Shigetaka Nishiguchi<sup>1, 2, 3</sup>, Akira Yagi<sup>3</sup>, Nobuaki Sakai<sup>3</sup>, Hiroki Oda<sup>1, 2</sup>

1) JT Biohistory Research Hall, 2) Osaka University, 3)

Olympus Corporation

**P-14**

**Mechanotransduction mechanisms in compensatory cellular hypertrophy**

Kenta Morimoto<sup>1,3</sup>, Emiko Suzuki<sup>1</sup>, Wu-Min Deng<sup>2</sup>, Yoichiro Tamori<sup>1</sup>

1) National Institute of Genetics, 2) Florida state University, 3) Keio University

**P-15**

**Functional Analysis of Apontic during *Drosophila* endocycle**

Xian-Feng Wang<sup>1</sup>, Qing-Xin Liu<sup>2</sup>, Emiko, Suzuki<sup>1</sup>, Susumu Hirose<sup>1</sup>

1) National Institute of Genetics, 2) Shandong Agricultural University, China

**P-16**

**Localization of PIG-B involved in GPI anchor synthesis in *Drosophila***

Miki Yamamoto-Hino, Eri Katsumata, Satoshi Goto  
Rikkyo University

**P-17**

**The progression of the first mitosis and diploidization in parthenogenetic embryos of *Drosophila ananassae***

Kazuyuki Hirai<sup>1</sup>, Haruka Suzuki<sup>2,3</sup>, Yohei Minakuchi<sup>4</sup>, Atsushi Toyoda<sup>4</sup>, Muneo Matsuda<sup>1</sup>

1) Kyorin University School of Medicine, 2) International Christian University, 3) University of Tsukuba, 4) National Institute of Genetics

**P-18**

**Scaling of critical weight for**

**metamorphosis in the genus *Drosophila***

Ken-ichi Hironaka<sup>1,2</sup>, Koichi Fujimoto<sup>1</sup>, Takashi Nishimura<sup>2</sup>

1) Osaka University, 2) RIKEN CDB

**P-19**

**Investigating the mechanism of crowding-induced cell elimination**

Yuya Fujisawa<sup>1</sup>, Takahiro Chihara<sup>1,2</sup> and Masayuki Miura<sup>1,3</sup>

1) Department of Genetics, The University of Tokyo, 2) Hiroshima University, 3) CREST-AMED, JST

**P-20**

**Establishing a system for investigating cellular reprogramming process during disc regeneration in *Drosophila melanogaster***

Mandi Zhou<sup>1</sup>, Tomonori Katsuyama<sup>1,2</sup>, and Masayuki Miura<sup>1,2</sup>

1) Department of Genetics, Graduate school of Pharmaceutical Sciences, University of Tokyo, 2) AMED-CREST, AMED

**P-21**

**An oogenic stage-specific RNAi screening for novel maternal-effect genes regulating germ cell development in the *Drosophila* embryo**

Keisuke Aimi<sup>1,2</sup>, Kazuko Hanyu-Nakamura<sup>1</sup>, and Akira Nakamura<sup>1,2</sup>

1) Department of Germline Development, Institute of Molecular Embryology and Genetics, 2) Graduate School of Pharmaceutical Sciences, Kumamoto University

**P-22**

**A novel genetic strategy to investigate**

**embryonic roles of maternal factors with essential functions in oogenesis**

Akira Nakamura<sup>1,2,3</sup>, Takashi Yoshitani<sup>1,3</sup>

1) Department of Germline Development, Institute of Molecular Embryology and Genetics, 2) Graduate School of Pharmaceutical Sciences, 3) School of Pharmacy, Kumamoto University

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***eye missing (eym)* is a new allele of *eye gone (eyg)* necessary for *Drosophila* eye development**

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***polished rice* is essential for tip cell specification and tubular fusion of tracheal dorsal branch**

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**Screening for modifier genes of *polished rice* gain-of-function phenotypes : Results of second and third chromosomes**

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**Degradation mechanism of a transcriptional repressor dBlimp-1, which regulates pupation timing**

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**Expression pattern and function of transcriptional repressor Blimp-1 at late larval period**

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**The Hippo-mediated morphogenetic robustness during *Drosophila* wing development**

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**Genetic analysis of programmed cell senescence in *Drosophila***

Yiran Zang, Masanari Yoshimoto, Tatsushi Igaki

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**Identification and characterization of novel neurons projecting to the prothoracic**

**gland in *Drosophila melanogaster***

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**Functional analysis of a transmembrane protein gene regulating the timing of steroid hormone biosynthesis in *Drosophila melanogaster***

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**The effect of the parasitic wasp *Asobara japonica* on the development of its host, the fruit fly *Drosophila melanogaster***

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**P-33**

**Mathematical modeling and genetic analysis of the proneural wave**

Makoto Sato<sup>1</sup>, Tetsuo Yasugi<sup>1</sup>, Yoshiaki Minami<sup>2</sup>, Takashi Miura<sup>3</sup> and Masaharu Nagayama<sup>2</sup>

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**P-34**

**Study the role of zona pellucida domain (ZPD) proteins in apical extracellular matrix during epithelial morphogenesis and wound healing**

Wei-Chen Chu, Shigeo Hayashi

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**Involvement of cytoskeletal actin and myosin in the corneal protrusion formation of *Drosophila melanogaster***

Ryunosuke Minami<sup>1</sup>, Chiaki Sato<sup>1</sup>, Yumi Yamahama<sup>2</sup>, Hideo Kubo<sup>3</sup>, Takahiko Hariyama<sup>2</sup>, Ken-ichi Kimura<sup>1</sup>

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**Analysis of the in vivo function of GW182 in *Drosophila melanogaster***

Eriko Matsuura, Yukihide Tomari

The University of Tokyo

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**A Novel Function of *dSki3* / a *Drosophila* homologue TTC37 related to**

**Trichohepatoenteric Syndrome**

Kohei Ohnuma<sup>1</sup>, Yukiko Sato-Miyata<sup>1</sup>, Yoshihito Kishita<sup>2</sup>, Hiromi Nyuzuki<sup>2</sup>, Masakazu Kohda<sup>2</sup>, Kei Murayama<sup>3</sup>, Akira Ohtake<sup>2</sup>, Okazaki Yasushi<sup>2</sup>, Toshiro Aigaki<sup>1</sup>

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**Cross-talk of the hypoxic response and insulin signal control fat accumulation mechanism in *Drosophila* fat body**

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**Screening of type 2 diabetes candidate genes in the OLETF rat using *Drosophila***

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**Analysis of genes which can suppress anti-bacterial gene promoter**

Yoshimasa Yagi

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**E3 ubiquitin ligase Sherpa mediates Toll innate immune signaling in *Drosophila***

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**Screening of glycosyltransferase involved in innate immunity in *Drosophila***

Sawako Kase, Miki Yamamoto-Hino, Satoshi Goto  
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**Mapping dopamine receptor expression in the fly brain**

Yasuhito Imanishi<sup>1</sup>, Nobuhiro Yamagata<sup>1</sup>, Ayako Abe<sup>1</sup>,  
Shu Kondo<sup>2</sup>, Hiromu Tanimoto<sup>1</sup>  
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**Replacement of the glial architecture in *Drosophila* central brain during metamorphosis**

Takeshi Awasaki, Yuko Umeki, Masami Tomura, Kentaro Kato  
Kyorin University School of Medicine

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**Novel Functional of a set of fourth order olfactory neurons involved in aversive memory in *Drosophila***

Yutaro Ueoka<sup>1,2</sup>, Makoto Hiroi<sup>2</sup>, Takashi Abe<sup>2</sup>, Tetsuya Tabata<sup>2</sup>  
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**A genetic approach for the understanding of the brain environment that regulates the plasticity of neural stem cells**

Hiroshi Kanda, Rieko Shimamura, Taro Yamaguchi,  
Michiko Koizumi -Kitajima, Hideyuki Okano  
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**Lobe-less RNA is necessary for establishment of neural circuits in *Drosophila* mushroom body**

Miyuki Nakano<sup>1</sup>, Sachi Inagaki<sup>2</sup>, Natsuki Nakamura<sup>1</sup> and  
Yuji Kageyama<sup>1,2</sup>  
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**Signaling pathway and glial subtype required for dead neural cell clearance in the developing *Drosophila* optic lobe**

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Atsushi Terauchi<sup>1</sup>, Yu Togane<sup>1</sup>, Yusuke Hara<sup>1</sup>, Toshiyuki Fukuhara<sup>1</sup>, Masatoshi Tomaru<sup>2</sup>, Toshiyuki Takano-Shimizu<sup>2</sup>, Hidenobu Tsujimura<sup>1</sup>  
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**Effect of inhibition of synaptic delivery of APP by loss-of-function of *yata* for the *Drosophila* Alzheimer's disease model**

Koto Furotani<sup>1</sup>, Takaaki Yajima<sup>1</sup>, Motoharu Toyokawa<sup>1</sup>,  
Minoru Nakayama<sup>1</sup>, Takuya Tamura<sup>2</sup>, Hitoshi Okazawa<sup>2</sup>,

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**Regulation of Acetylcholine receptor clustering by synaptic cleft protein Hig and the receptor subunits**

Minoru Nakayama<sup>1,3</sup>, Osamu Nishimura<sup>2</sup>, Shigehiro Kuraku<sup>2</sup>, Masaki Sone<sup>1</sup>, Chihiro Hama<sup>3</sup>

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**A developmental stage-specific regulatory mechanism of synaptic transport of the *Drosophila* Hikaru genki protein**

Mayu Ota<sup>1</sup>, Dennis Kruk<sup>1</sup>, Thomas Sénard<sup>1</sup>, Akihiro Suzuki<sup>1</sup>, Minoru Nakayama<sup>1</sup>, Chihiro Hama<sup>2</sup>, Masaki Sone<sup>1</sup>

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**Comparative studies of the nocifensive behaviors of *Drosophila* species and the firing properties of the somatosensory neurons**

Risa Nishimura<sup>1</sup>, Koun Onodera<sup>1</sup>, Akira Murakami<sup>2</sup>, Tadashi Uemura<sup>1</sup> and Tadao Usui<sup>1</sup>

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**Identification of the enhancer region required for expression of *pigment-***

***dispersing factor* gene in *Drosophila* clock neurons**

Akira Iguchi<sup>1</sup>, Outa Uryu<sup>2</sup>, Ryusuke Niwa<sup>2,3</sup>

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**A Screen and Functional Analysis of Neuropeptides Involved in Nociception in *Drosophila melanogaster***

Akiho Kashiwabara<sup>1</sup>, Shu Kondo<sup>2</sup>, Karen S. Sanford<sup>3</sup>, Katsuo Furukubo-Tokunaga<sup>4</sup> and Ken Honjo<sup>4</sup>

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**The genes required for the synaptic remodeling in the *Drosophila* visual system**

Tomohiro Araki<sup>1</sup>, Hinata Kawamura<sup>1</sup>, Mai Shimoazono<sup>1</sup>, Atsushi Sugie<sup>2</sup>, Satoko Hakeda-Suzuki<sup>1</sup>, Takashi Suzuki<sup>1</sup>

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**Elucidating molecular mechanism of synaptic plasticity in living fruit fly using membrane potential proteins**

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**The source of Wg that is secreted in activity-dependent synaptic plasticity**

Hinata Kawamura<sup>1</sup>, Atsushi Sugie<sup>2</sup>, Satoko Hakeda-Suzuki<sup>1</sup>, Takashi Suzuki<sup>1</sup>

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**Alteration in synaptic connection patterns in-vivo for different natural stimulations**

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**The transplantation of the retinal precursor cells into the adult *Drosophila* retina**

Takahisa Suzuki, Takashi Suzuki

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**The transmembrane protein Golden goal recognizes the correct column at the medulla neuropil border during R8 axons targeting**

Hiroki Takechi, Satoko Hakeda-Suzuki, Takashi Suzuki

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**Roles of Dscam family cell adhesion molecules in the development of *Drosophila* medulla**

Chuyan Liu, Olena Trush, Makoto Sato

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**Roles of N-cadherin in the *Drosophila* medulla formation**

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**Integration of auditory and visual signals in *Drosophila melanogaster***

Mori Yoshida, Hiroshi Ishimoto, Yuki Ishikawa, Azusa Kamikouchi

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**Neural basis for species-specific pheromone preference in *Drosophila***

Yuki Ishikawa<sup>1</sup>, Naoki Maeda<sup>1</sup>, Azusa Kamikouchi<sup>1</sup>, Daisuke Yamamoto<sup>2</sup>

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**Hunger-state modulates stability of courtship memory via peptide hormone NPF**

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**Heterogeneity of antennal mechanosensory neurons that respond to high-frequency sound in fruit flies**

Azusa Kamikouchi, Natsuki Okamoto, Mizuki Nakamura, Hyunsoo Kim, Yuki Ishikawa  
Graduate School of Science, Nagoya University

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**Neural basis of species-specific pheromone response in *Drosophila***

Naoki Maeda, Azusa Kamikouchi, Yuki Ishikawa  
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**Plasticity in the auditory behavior of fruit flies**

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**Response properties of local interneurons in the fly auditory system**

Daichi Yamada, Tsunehiko Kohashi, Yuki Ishikawa, Hiroshi Ishimoto, Azusa Kamikouchi  
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**Dopaminergic neurons in the VNC regulate reproductive posture of *Drosophila***

Ken-ichi Kimura<sup>1</sup>, Chiaki Sato<sup>1</sup>, Daisuke Yamamoto<sup>2</sup>

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**Organization of Neuronal Subgroups in the Scolopidia of Johnston's Organ**

Akari Ura, Junlin Wong, Yuki Ishikawa, Azusa Kamikouchi  
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**Dissecting taste sensation of ATP in *Drosophila* and mosquitoes**

Chisako Sakuma, Hirotaka Kanuka  
Department of Tropical Medicine, Center for Medical Entomology, The Jikei University School of Medicine

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**Diurnal changing in feeding amount of amino acids in *Drosophila melanogaster***

Taichi Q Itoh<sup>1</sup>, Shun Uchizono<sup>1</sup>, Yumi Tabuki<sup>2</sup>, Natsumi Kawaguchi<sup>1</sup>, Teiichi Tanimura<sup>1</sup>  
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**Fat body methionine metabolism remotely affects regenerative response in *Drosophila* imaginal disc**

Soshiro Kashio<sup>1</sup>, Fumiaki Obata<sup>1, 2</sup>, Liu Zhang<sup>1, 3</sup>, Tomonori Katsuyama<sup>1, 4</sup>, Takahiro Chihara<sup>1, 5</sup>, and Masayuki Miura<sup>1,4</sup>

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**Genetic screening of the secretory mediators for tissue regeneration in *Drosophila***

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**Investigating the functionality of guarana using *Drosophila***

Felipe Rogalski<sup>1</sup>, Maria Fernanda Cattani<sup>2</sup>, Yukiko Sato-Miyata<sup>2</sup>, Toshiro Aigaki<sup>1</sup>

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**Succinyl CoA synthetase  $\alpha$  subunit is required for optimum development in *Drosophila***

Xiuming Quan<sup>1</sup>, Yukiko Sato<sup>1</sup>, Manabu Tsuda<sup>2</sup>, Toshiro Aigaki<sup>1</sup>

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**Binucleation of male accessory gland cells elevates reproductive capacity in *Drosophila***

Kiichiro Taniguchi, Takashi Adachi-Yamada  
Gakushuin University

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**An unbiased approach to understanding the nutrient basis of budding yeast driving**

***Drosophila* larval development**

Yuuki Takahashi<sup>1</sup>, Yukako Hattori<sup>1</sup>, Akihiro Mori<sup>3, 4</sup>, Kaori Watanabe<sup>1</sup>, Kanji Furuya<sup>2</sup>, Tadashi Uemura<sup>1</sup>

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**Deciphering distinct dietary responses governing growth among *Drosophila* species by comparative multi-omics approaches**

Kaori Watanabe<sup>1</sup>, Yukako Hattori<sup>1</sup>, Yuki Furumizo<sup>1</sup>, Yuuki Takahashi<sup>1</sup>, Hironobu Uchiyama<sup>2</sup>, Shunsuke Yajima<sup>2</sup>, Masayoshi Watada<sup>3</sup>, Tadashi Uemura<sup>1</sup>

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**Discovery of chemical inhibitors for the insect steroidogenic enzyme Noppera-bo**

Kazue Inaba<sup>1</sup>, Kana Morohashi<sup>1</sup>, Kotaro Koiwai<sup>2</sup>, Sora Enya<sup>1</sup>, Hirotatsu Kojima<sup>3</sup>, Takayoshi Okabe<sup>3</sup>, Tetsuo Nagano<sup>3</sup>, Hideshi Inoue<sup>4</sup>, Yuuta Fujikawa<sup>4</sup>, Fumiaki Yumoto<sup>2</sup>, Toshiya Senda<sup>2</sup>, Ryusuke Niwa<sup>5, 6</sup>

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**Ehime-fly Provides Reliable Stocks of Wild Type of 135 Species for Japanese and World *Drosophila* Researchers**

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**The investigation of the physiological function of the Oxytocin-like peptide in social insects, ants**

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**Genetic bases of the association between body color variation and environmental stress tolerances in *Drosophila melanogaster***

Noriyoshi Akiyama, Ryutarō Miyagi, Aya Takahashi

Tokyo Metropolitan University

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**The genetic basis of rapid morphological diversification of male genitalia**

Kentaro Tanaka, Aya Takahashi

Tokyo Metropolitan University

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**Interaction among nucleoporins and reproductive isolation in *Drosophila***

Kyoichi Sawamura<sup>1</sup>, Zhuo Wang<sup>1</sup>, Kohei Miura<sup>1</sup>, Takaaki Hayashi<sup>1</sup>, Kazuyuki Hirai<sup>2</sup>, Takeshi Awasaki<sup>2</sup>, Moe Wada<sup>3</sup>,

Yoko Keira<sup>3</sup>, Hiroyuki O. Ishikawa<sup>3</sup>

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**Inheritance pattern of female mating receptivity in *Drosophila prolongata***

Yurika Hitoshi, Yukio Ishikawa, Takashi Matsuo

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**piggyBac and phiC31 mediated genetic transformation of *Drosophila prolongata***

Ayumi Kudo<sup>1</sup>, Takeshi Awasaki<sup>2</sup>, Yukio Ishikawa<sup>1</sup>, Takashi Matsuo<sup>1</sup>

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**Social context-dependent modification of courtship behavior in *Drosophila prolongata***

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**The expression analysis of the Oxytocin-like peptide, inotocin in ants**

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**National BioResource Project “*Drosophila*”**

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Technology, 3) Ehime University, 4) Kyorin University, 5)  
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### **Consequences of Abruptex Mutations on Notch trafficking and signal regulation**

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