JDRC13

Program book (PDF version)

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*Program book (full version) will be distributed on site.
### Time table

#### Schedule at a glance

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<th>Sep. 10th (Mon.)</th>
<th>Sep. 11th (Tue.)</th>
<th>Sep. 12th (Wed.)</th>
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<tbody>
<tr>
<td>8:00</td>
<td>8:30 Open</td>
<td>8:30 Open</td>
</tr>
<tr>
<td>9:00</td>
<td><strong>Oral Session 4</strong>&lt;br&gt;“Development”&lt;br&gt;15 min x 4 talks&lt;br&gt;Chair: Kaoru Sugimura</td>
<td><strong>Poster Session 2</strong>&lt;br&gt;(Outreach area &amp; Learning commons)&lt;br&gt;Even number 9:00 – 9:45&lt;br&gt;Odd number 9:45 – 10:30</td>
</tr>
<tr>
<td></td>
<td>9:00 Break (10 min)</td>
<td>10:30 Break (15 min)</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Oral Session 5</strong>&lt;br&gt;“Neurobiology”&lt;br&gt;15 min x 4 talks&lt;br&gt;Chair: Leo Tsuda</td>
<td>10:45 <strong>Oral Session 8</strong>&lt;br&gt;“Senior Session”&lt;br&gt;15 min x 6 talks&lt;br&gt;Chair: Tadashi Uemura</td>
</tr>
<tr>
<td>11:00</td>
<td>11:10 Break (5 min)</td>
<td>12:15 <strong>Award Ceremony</strong>&lt;br&gt;Closing Remarks: Tatsushi Igaki</td>
</tr>
<tr>
<td>11:30 Registration and Poster Posting</td>
<td>11:15 Meet the ‘Developmental cell' editor&lt;br&gt;Spyros Goulas 30 min</td>
<td>Withdrawal</td>
</tr>
<tr>
<td>12:00</td>
<td>11:45 Break (10 min)</td>
<td>12:30</td>
</tr>
<tr>
<td>13:00</td>
<td><strong>Opening Remarks</strong>: Tatsushi Igaki</td>
<td>13:40 Break (5 min)</td>
</tr>
<tr>
<td>13:15 Plenary Keynote: Masayuki Miura&lt;br&gt;45 min&lt;br&gt;Chair: Tatsushi Igaki</td>
<td>12:45 <strong>Poster Session 1</strong>&lt;br&gt;(Outreach area &amp; Learning commons)&lt;br&gt;Odd number 13:45 – 14:30&lt;br&gt;Even number 14:30 – 15:15</td>
<td>15:00</td>
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<tr>
<td>14:00</td>
<td>13:45 Break (15 min)</td>
<td>16:00</td>
</tr>
<tr>
<td>14:15 Oral Session 1&lt;br&gt;“Cell biology &amp; Signaling”&lt;br&gt;15 min x 6 talks&lt;br&gt;Chair: Takayuki Kuraishi</td>
<td><strong>Opening Remarks</strong>: Tatsushi Igaki</td>
<td><strong>Poster Session 1</strong>&lt;br&gt;(Outreach area &amp; Learning commons)&lt;br&gt;Odd number 13:45 – 14:30&lt;br&gt;Even number 14:30 – 15:15</td>
</tr>
<tr>
<td>15:00</td>
<td>15:15 Break (15 min)</td>
<td>16:30 Break (15 min)</td>
</tr>
<tr>
<td>15:45 Break (15 min)</td>
<td>15:30 <strong>Oral Session 6</strong>&lt;br&gt;“Neurobiology”&lt;br&gt;15 min x 4 talks&lt;br&gt;Chair: Takahiro Chihara</td>
<td>16:45 <strong>Oral Session 7</strong>&lt;br&gt;“Physiology &amp; Disease”&lt;br&gt;15 min x 4 talks&lt;br&gt;Chair: Yoshihiro H. Inoue</td>
</tr>
<tr>
<td>16:00 Oral Session 2&lt;br&gt;“Physiology &amp; Disease”&lt;br&gt;15 min x 5 talks&lt;br&gt;Chair: Toshiro Aigaki</td>
<td>16:00 <strong>Poster Session 1</strong>&lt;br&gt;(Outreach area &amp; Learning commons)&lt;br&gt;Odd number 13:45 – 14:30&lt;br&gt;Even number 14:30 – 15:15</td>
<td>17:45 Move to the reception venue</td>
</tr>
<tr>
<td>17:00</td>
<td>15:30 Break (15 min)</td>
<td>17:45 Break (15 min)</td>
</tr>
<tr>
<td>17:15 Break (15 min)</td>
<td>16:00 <strong>Oral Session 2</strong>&lt;br&gt;“Physiology &amp; Disease”&lt;br&gt;15 min x 5 talks&lt;br&gt;Chair: Toshiro Aigaki</td>
<td>18:00 <strong>Reception</strong>&lt;br&gt;(Tower Centennial Hall, Kyoto Univ.)&lt;br&gt;Shigeo Hayashi&lt;br&gt;Tadashi Uemura&lt;br&gt;Ryuusuke Niwa&lt;br&gt;New PIs</td>
</tr>
<tr>
<td>17:30 Oral Session 3&lt;br&gt;“Development”&lt;br&gt;15 min x 5 talks&lt;br&gt;Chair: Yuji Kageyama</td>
<td>18:30 Move to the reception venue</td>
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<tr>
<td>18:00</td>
<td>17:45 Move to the reception venue</td>
<td>19:00</td>
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<tr>
<td>19:00</td>
<td>18:30 Move to the reception venue</td>
<td>20:00</td>
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<tr>
<td>20:00</td>
<td>19:00 Move to the reception venue</td>
<td>20:30</td>
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## Monday, September 10th

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Location</th>
<th>Time</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Opening</strong></td>
<td>Oral session room/Fujita Commemorative Lecture Hall</td>
<td>13:00 PM – 13:15 PM</td>
<td>Opening remarks: Tatsushi Igaki</td>
</tr>
<tr>
<td><strong>Plenary Keynote</strong></td>
<td>Oral session room/Fujita Commemorative Lecture Hall</td>
<td>13:15 PM – 14:00 PM</td>
<td>K-1: Masayuki Miura</td>
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<tr>
<td></td>
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<td></td>
<td>“Cell life and death interactions in organisms”</td>
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<td></td>
<td>14:00 PM – 14:15 PM</td>
<td>☕ Coffee break</td>
</tr>
<tr>
<td><strong>Oral Session 1: “Cell biology &amp; Signaling”</strong></td>
<td>Oral session room/Fujita Commemorative Lecture Hall</td>
<td>14:15 PM – 14:30 PM</td>
<td>O-1: Takeshi Sasamura</td>
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<tr>
<td></td>
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<td></td>
<td>“Chirality in the dynamic behavior of blood cell cytoplasm in <em>Drosophila</em>”</td>
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<td>14:30 PM – 14:45 PM</td>
<td>O-2: Hideki Yoshida</td>
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<tr>
<td></td>
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<td>“Novel post-transcriptional regulations of <em>yorkie</em> gene expression”</td>
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<td>14:45 PM – 15:00 PM</td>
<td>O-3: Rina Nagata</td>
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<tr>
<td></td>
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<td>“Exploring a universal mechanism of cell competition”</td>
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<td>15:00 PM – 15:15 PM</td>
<td>O-4: Masahiko Takemura</td>
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<tr>
<td></td>
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<td></td>
<td>“Chondroitin sulfate proteoglycan Windpipe modulates Hedgehog signaling in <em>Drosophila</em>”</td>
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<td>15:15 PM – 15:30 PM</td>
<td>O-5: Wei-Chen Chu</td>
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<td>“Force-dependent tendinous ECM remodeling during flight muscle Development”</td>
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<td>15:30 PM – 15:45 PM</td>
<td>O-6: Reiko Tajiri</td>
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<tr>
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<td>“Whole body shape regulation by a single constituent of the apical ECM”</td>
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<td>15:45 PM – 16:00 PM</td>
<td>☕ Coffee break</td>
</tr>
<tr>
<td><strong>Oral Session 2: “Physiology &amp; Disease”</strong></td>
<td>Oral session room/Fujita Commemorative Lecture Hall</td>
<td>16:00 PM – 16:15 PM</td>
<td>O-7: Mikiko Oka</td>
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<tr>
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<td>“Increasing glucose uptake prevents age-dependent reductions in ATP levels in the cell body in brain neurons and suppresses declines in neuronal functions”</td>
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<td>16:15 PM – 16:30 PM</td>
<td>O-8: Yuta Ohtsu</td>
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<tr>
<td></td>
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<td>“Metabolome analysis reveals the role of <em>Sir2</em> in the kynurenine pathway of tryptophan metabolism”</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Speaker</td>
<td>Institution</td>
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<tr>
<td>16:30 PM – 16:45 PM</td>
<td><strong>O-9:</strong> Toshiharu Ichinose</td>
<td>Nagoya City University</td>
<td>“Chronic poor condition enhances preference for rewarding substances”</td>
</tr>
<tr>
<td>16:45 PM – 17:00 PM</td>
<td><strong>O-10:</strong> Yusuke Hara</td>
<td>National Institute of Information and Communications Technology</td>
<td>“Acclimatization to cold temperature of brain insulin neurons drives reproductive dormancy”</td>
</tr>
<tr>
<td>17:00 PM – 17:15 PM</td>
<td><strong>O-11:</strong> Yuya Sanaki</td>
<td>Kyoto University</td>
<td>“Hyperinsulinemia promotes tumorigenesis by abrogating cell competition”</td>
</tr>
<tr>
<td>17:15 PM – 17:30 PM</td>
<td>Coffee break</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Oral Session 3: “Development”</strong></td>
<td>Oral session room/Fujita Commemorative Lecture Hall</td>
<td>Chair: Yuji Kageyama</td>
<td></td>
</tr>
<tr>
<td>17:30 PM – 17:45 PM</td>
<td><strong>O-12:</strong> Minami Katayama</td>
<td>University of Tsukuba</td>
<td>“A hijack strategy of a parasitoid wasp on Drosophila larvae: A characteristic apoptosis in imaginal discs”</td>
</tr>
<tr>
<td>17:45 PM – 18:00 PM</td>
<td><strong>O-13:</strong> Kiichiro Taniguchi</td>
<td>Kyoto University</td>
<td>“Role of cell competition in shaping germ-line stem cell niche”</td>
</tr>
<tr>
<td>18:00 PM – 18:15 PM</td>
<td><strong>O-14:</strong> Keita Masuko</td>
<td>Tohoku University</td>
<td>“winged eye induces transdetermination of imaginal disc by acting in concert with a histone methyltransferase, Su(var)3-9”</td>
</tr>
<tr>
<td>18:15 PM – 18:30 PM</td>
<td><strong>O-15:</strong> Mikiko Inaki</td>
<td>Osaka University</td>
<td>“A novel 3D morphologic change of epithelial cells, cell twisting, may account for left-right directional tissue rotation”</td>
</tr>
<tr>
<td>18:30 PM – 18:45 PM</td>
<td><strong>O-16:</strong> Kentaro M. Tanaka</td>
<td>Tokyo Metropolitan University</td>
<td>“How would you like to copulate? Rapid morphological evolution of male genitalia”</td>
</tr>
</tbody>
</table>
### Oral Session 4: “Development”  | Oral session room/Fujita Commemorative Lecture Hall
Chair: Kaoru Sugimura

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM – 9:15 AM</td>
<td>O-17: Ki-Hyeon Seong</td>
<td>RIKEN Tsukuba</td>
<td>“DIAMonDs: a high-throughput measurement system aiming to detect whole life stages of individual fly”</td>
</tr>
<tr>
<td>9:15 AM – 9:30 AM</td>
<td>O-18: Eisuke Imura</td>
<td>University of Tsukuba</td>
<td>“Identification and functional characterization of neurons controlling systemic body growth by regulating basal ecdysteroid biosynthesis in <em>Drosophila melanogaster</em>”</td>
</tr>
<tr>
<td>9:30 AM – 9:45 AM</td>
<td>O-19: Yiran Zang</td>
<td>Kyoto University</td>
<td>“Programmed cell senescence is required for sensory organ development in <em>Drosophila</em>”</td>
</tr>
<tr>
<td>9:45 AM – 10:00 AM</td>
<td>O-20: Chuyan Liu</td>
<td>Kanazawa University</td>
<td>“Roles of Dscam cell adhesion molecule in columnar unit formation in the fly brain”</td>
</tr>
<tr>
<td>10:00 AM – 10:10 PM</td>
<td><strong>Coffee break</strong></td>
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</tbody>
</table>

### Oral Session 5: “Neurobiology”  | Oral session room/Fujita Commemorative Lecture Hall
Chair: Leo Tsuda

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:10 AM – 10:25 AM</td>
<td>O-21: Hinata Kawamura</td>
<td>Tokyo Institute of Technology</td>
<td>“Activity dependent Wg accumulation that regulates synaptic plasticity in the <em>Drosophila</em> visual system”</td>
</tr>
<tr>
<td>10:25 AM – 10:40 AM</td>
<td>O-22: Olena Trush</td>
<td>Kanazawa University</td>
<td>“3D organization of columnar units by N-cadherin-dependent differential adhesion and inter-layer interactions in the fly visual center”</td>
</tr>
<tr>
<td>10:40 AM – 10:55 AM</td>
<td>O-23: Yuto Yoshinari</td>
<td>University of Tsukuba</td>
<td>“Neuronal octopamine - Matrix metalloproteinase signaling regulates germline stem cell proliferation in female <em>Drosophila melanogaster</em>”</td>
</tr>
<tr>
<td>10:55 AM – 11:10 AM</td>
<td>O-24: Ryoya Tanaka</td>
<td>Nagoya University</td>
<td>“An attempt to identify the neurons that are responsible for species-specific behavior using the flip-out mosaicism in <em>Drosophila subobscura</em>”</td>
</tr>
<tr>
<td>11:10 AM – 11:15 AM</td>
<td><strong>Coffee break</strong></td>
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### Meet the ‘Developmental Cell’ editor  | Oral session room/Fujita Commemorative Lecture Hall
Chair: Tatsushi Igaki

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:45 AM – 11:55 AM</td>
<td><strong>Coffee break</strong></td>
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</tbody>
</table>
### Luncheon Seminar by Carl Zeiss | Oral session room/Fujita Commemorative Lecture Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 11:55 AM – 12:45 PM | L-1: **Tomohiko Taguchi** | Tohoku University  
“Cell biological analysis of STING activation and inactivation” |
| 12:45 PM – 12:55 PM  | ☕ Coffee break                                                           |

### General Meeting | Oral session room/Fujita Commemorative Lecture Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenters</th>
</tr>
</thead>
</table>
| 12:55 PM – 13:40 PM | **Satoshi Goto** | Rikkyo University  
**Ryusuke Niwa** | University of Tsukuba  
**Toshiyuki Takano** | Kyoto Institute of Technology  
**Kuniaki Saito** | National Institute of Genetics  
**Shigeo Hayashi** | RIKEN BDR  
**Kenji Matsuno** | Osaka University |
| 13:40 PM – 13:45 PM  | ☕ Coffee break                                                           |

### Poster Session 1 | Poster session area/Outreach Area, Learning Commons

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>13:45 PM – 14:30 PM</td>
<td><strong>Odd number’s presenters</strong></td>
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<tr>
<td>14:30 PM – 15:15 PM</td>
<td><strong>Even number’s presenters</strong></td>
</tr>
<tr>
<td>15:15 PM – 15:30 PM</td>
<td>☕ Coffee break</td>
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</tbody>
</table>

### Oral Session 6: “Neurobiology” | Oral session room/Fujita Commemorative Lecture Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenters</th>
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</thead>
</table>
| 15:30 PM – 15:45 PM | O-25: **Hiroki Takechi** | Tokyo Institute of Technology  
“Molecular mechanism for the layer and column-specific targeting in the Drosophila visual system” |
| 15:45 PM – 16:00 PM  | O-26: **William Constance** | National Institute of Genetics  
“Insulin signalling: a molecular code for neuron size?” |
| 16:00 PM – 16:15 PM  | O-27: **Koun Onodera** | Kyoto University  
“Regulatory mechanism of firing rate fluctuations and its readout circuitry in *Drosophila* nociceptive system” |
| 16:15 PM – 16:30 PM  | O-28: **Izumi Oikawa** | University of Tsukuba  
“An evolutionarily conserved neuropeptide that negatively regulates nociception in *Drosophila*” |
| 16:30 PM – 16:45 PM  | ☕ Coffee break                                                           |
**Oral Session 7: “Physiology & Disease”** | Oral session room/Fujita Commemorative Lecture Hall  
Chair: Yoshihiro H. Inoue

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>16:45 PM – 17:00 PM</td>
<td>O-29: Fumiaki Obata</td>
<td>The University of Tokyo</td>
<td>“Early-life programming of adult physiology and ageing”</td>
</tr>
<tr>
<td>17:00 PM – 17:15 PM</td>
<td>O-30: Ayaka Sasaki</td>
<td>RIKEN BDR</td>
<td>“An ABC transporter regulates aging-induced intestinal stem cell dysplasia in the midgut of Drosophila”</td>
</tr>
<tr>
<td>17:15 PM – 17:30 PM</td>
<td>O-31: Hiroki Nagai</td>
<td>Tohoku University</td>
<td>“Intestinal autophagy suppresses unnecessary damage response induced by non-pathogenic enteric bacteria through Ref(2)P regulation”</td>
</tr>
<tr>
<td>17:30 PM – 17:45 PM</td>
<td>O-32: Masato Enomoto</td>
<td>Kyoto University</td>
<td>“Cell-to-cell propagation of JNK signaling controls tissue remodeling during wound healing”</td>
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<tr>
<td>17:45 PM – 18:30 PM</td>
<td>🚦 Move to the reception venue</td>
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**Reception** | Clock Tower Centennial Hall, International Conference Halls  
Chair: Tatsushi Igaki

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Title</th>
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<tbody>
<tr>
<td>18:30 PM – 20:30 PM</td>
<td>Shigeo Hayashi</td>
<td>RIKEN BDR</td>
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<td>Tadashi Uemura</td>
<td>Kyoto University</td>
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<td>Ryusuke Niwa</td>
<td>University of Tsukuba</td>
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<td>New PIs</td>
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**Wednesday, September 12th**

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<thead>
<tr>
<th><strong>Poster Session 2</strong></th>
<th>Poster session area/Outreach Area, Learning Commons</th>
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<tbody>
<tr>
<td>9:00 AM – 9:45 AM</td>
<td>Even number’s presenters</td>
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<tr>
<td>9:45 AM – 10:30 AM</td>
<td>Odd number’s presenters</td>
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<tr>
<td>10:30 AM – 10:45 AM</td>
<td>☕ Coffee break</td>
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<thead>
<tr>
<th><strong>Oral Session 8: “Senior Session”</strong></th>
<th>Oral session room/Fujita Commemorative Lecture Hall</th>
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</thead>
<tbody>
<tr>
<td>Chair: Tadashi Uemura</td>
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</tr>
<tr>
<td>10:45 AM – 11:00 AM</td>
<td>O-33: Andrea Daga</td>
</tr>
<tr>
<td></td>
<td>“Molecular mechanisms controlling ER shape”</td>
</tr>
<tr>
<td>11:00 AM – 11:15 AM</td>
<td>O-34: Yuu Kimata</td>
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<tr>
<td></td>
<td>“Proteolytic regulation of the centrosome by APC/C-Vihar ensures Drosophila oocyte development”</td>
</tr>
<tr>
<td>11:15 AM – 11:30 AM</td>
<td>O-35: Yasushi Izumi</td>
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<td></td>
<td>“The role of the epithelial barrier function in Drosophila gut homeostasis”</td>
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<tr>
<td>11:30 AM – 11:45 AM</td>
<td>O-36: Takashi Nishimura</td>
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<td>“A missense mutation in Insulin receptor causes a stage-specific intolerance to unbalanced diet in Drosophila”</td>
</tr>
<tr>
<td>11:45 AM – 12:00 AM</td>
<td>O-37: Takaaki Sokabe</td>
</tr>
<tr>
<td></td>
<td>“Rhodopsins, lipases and trpA1 channel contribute to a unique switch in thermal preference in Drosophila melanogaster larvae”</td>
</tr>
<tr>
<td>12:00 AM – 12:15 PM</td>
<td>O-38: Akira Nakamura</td>
</tr>
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<td>“Drosophila tiny pole plasm encodes a small protein that facilitates posterior localization of Aubergine during germ plasm assembly in the oocyte”</td>
</tr>
</tbody>
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<thead>
<tr>
<th><strong>Closing</strong></th>
<th>Oral session room/Fujita Commemorative Lecture Hall</th>
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<tbody>
<tr>
<td>12:15 PM – 12:25 PM</td>
<td>The 9th Daigoro Moriwaki Award Ceremony</td>
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<td>Life Science Alliance journal Poster Prize Ceremony</td>
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Oral presentations

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Cell life and death interactions in organisms
Masayuki Miura
1) Department of Genetics, Graduate School of Pharmaceutical Sciences, The University of Tokyo

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Cell biological analysis of STING activation and inactivation
Tomohiko Taguchi, Kojiro Mukai and Hiroyuki Arai
1) Grad. Sch. of Life Sci., Tohoku Univ., 2) Grad. Sch. of Pharm. Sci., Univ. of Tokyo

O-1
Chirality in the dynamic behavior of blood cell cytoplasm in Drosophila
Takeshi Sasamura, Daisuke Kuritsu, Masakazu Akiyama, Kohei Otomo, Tomomi Nemoto, Hiroaki Mizuno, Naoki Watanabe and Kenji Matsuno
1) Grad. Sch. of Sci., Osaka Univ, 2) RIES, Hokkaido Univ. 3) Grad. Sch. of Med., Kyushu Univ.

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Hideki Yoshida, Takanari Umegawachi, Hiromu Koshida, Momoko Yamada, Yasuyuki Ohkawa, Tetsuya Sato, Mikita Suyama, Henry M Krause, and Masamitsu Yamaguchi

O-3
Exploring a universal mechanism of cell competition
Rina Nagata and Tatsushi Igaki
1) Grad. Sch. of Biostudies, Kyoto Univ.

O-4
Chondroitin sulfate proteoglycan Windpipe modulates Hedgehog signaling in Drosophila
Masahiko Takamura, Fredrik Noborn, Tsu-Yi Su, Göran Larson and Hiroshi Nakato
1) Dept. of Genet., Cell Biol., and Dev., Univ. of Minnesota, USA, 2) Inst. of Biomed., Univ. of Gothenburg, Sweden

O-5
Force-dependent tendinous ECM remodeling during flight muscle Development
Wei-Chen Chu, Xiaorei Sai and Shigeo Hayashi
1) Lab. Morphogenetic Signaling, RIKEN BDR, 2) Dept. Biol., Grad. Sch. of Sci., Kobe Univ

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Reiko Tajiri, Haruhiko Fujiwara and Tetsuya Kojima
1) Grad. Sch. Frontier Sciences, Univ. Tokyo

O-7
Increasing glucose uptake prevents age-dependent reductions in ATP levels in the cell body in brain neurons and suppresses declines in neuronal functions
Mikiko Oka, Emiko Suzuki, Shin-ichi Hisanaga, Koichi M. Iijima and Kanae Ando
1) Department of Biological Sciences, Tokyo Metropolitan University, 2) National Institute of Genetics, 3) Department of Genetics, Graduate University for Advanced Studies (SOKENDAI), 4) Department of Alzheimer’s Disease Research, National Center for Geriatrics and Gerontology, 5) Department of Experimental Gerontology, Nagoya City University

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1) Department of Neuropharmacology, Nagoya City University, 2) Department of Life Sciences, Tohoku University
O-10
Acclimatization to cold temperature of brain insulin neurons drives reproductive dormancy
Yusuke Hara(1,2), Noriyuki Ojima(3), Hiroki Ito(3) and Daisuke Yamamoto(1,2)

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Hyperinsulinemia promotes tumorigenesis by abrogating cell competition
Yuya Sanaki(1), Daisuke Kizawa(1) and Tatsushi Igaki(1)
1) Grad. Sch. of Biostudies, Kyoto Univ.

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A hijack strategy of a parasitoid wasp on Drosophila larvae: A characteristic apoptosis in imaginal discs
Minami Katayama(1), Takayoshi Kuwabara(2), Hitomi Takemata(1), Yuko Shimada-Niwa(1,3) and Ryusuke Niwa(3)
1) Grad. Sch. of Life Environ. Sci., Univ. of Tsukuba, 2) Sch. of Life Environ. Sci., Univ. of Tsukuba, 3) Faculty of Life Environ. Sci., Univ. of Tsukuba, 4) TARA, Univ. of Tsukuba

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Kiichiro Taniguchi(1) and Tatsushi Igaki(1)
1) Grad. Sch. of Biostudies, Kyoto Univ.

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Keita Masuko(1), Naoyuki Fuse(1) and Shoichiro Kurata(1)
1) Graduate School of Pharmaceutical Science, Tohoku University

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Kentaro M. Tanaka(1), Yoshitaka Kamimura(2) and Aya Takahashi(1,3)
1) Department of Biological Sciences, Tokyo Metropolitan Univ., 2) Department of Biology, Keio Univ. 3) Research Center for Genomics and Bioinformatics, Tokyo Metropolitan Univ.

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DIAMonDs: a high-throughput measurement system aiming to detect whole life stages of individual fly
Ki-Hyeon Seong(1) and Siu Kang(2)
1) RIKEN Tsukuba, 2) Grad. Sch. of Sci. and Eng., Yamagata Univ.

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Eisuke Imura(1), Shu Kondo(3), Hiromu Tanimoto(3), Ryusuke Niwa(4) and Yuko Shimada-Niwa(2)
1) Grad. Sch. of Life Environ. Sci., Univ. of Tsukuba, 2) Genetic Strains Research, NIG, 3) Grad. Sch. of Life Sci., Tohoku Univ., 4) Faculty of Life Environ. Sci., Univ. of Tsukuba, 5) TARA, Univ. of Tsukuba

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Yiran Zang(1), Masanari Yoshimoto(1) and Tatsushi Igaki(1)
1) Laboratory of Genetics, Graduate School of Biostudies, Kyoto University

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Chuyan Liu(1), Olena Trush(1) and Sato Makoto(1)
1) Graduate school of Medicine., Kanazawa Univ.

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Hinata Kawamura(1), Satoko Hakeda-Suzuki(1), Emiko Suzuki(3), Atsushi Sugie(3) and Takashi Suzuki(1)
1) Sch. of Life Sci. and Tech., Tokyo Tech., 2) National Inst. of Genetics, 3) Brain research Inst., Niigata Univ.
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Olena Trush\(^1\), Chuyan Liu\(^1\) and Makoto Sato\(^1\)
1) Grad. School of Med. Sciences, Kanazawa University

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Neuronal octopamine - Matrix metalloproteinase signaling regulates germline stem cell proliferation in female Drosophila melanogaster
Yuto Yoshinari\(^1\), Tomotsune Ameku\(^1\), Shu Kondo\(^2\), Yuko Shimada-Niwa\(^3\), Hiromu Tanimoto\(^9\) and Ryusuke Niwa\(^3,6\)
1) Grad. Sch. of Life and Environmental Sciences, University of Tsukuba, Japan; 2) Genetic Strains Research Center, NIG, Japan; 3) Life Science Center of TARA, University of Tsukuba, Japan; 4) Grad. Sch. of Life Sciences, Tohoku university, Japan; 5) Faculty of Life and Environmental Sciences, University of Tsukuba, Japan; 6) PRESTO, JST, Japan

O-24
An attempt to identify the neurons that are responsible for species-specific behavior using the flip-out mosaicism in Drosophila subobscura
Ryoya Tanaka\(^1\), Tomohiro Higuchi\(^2\), Soh Kohatsu\(^3\), Kosei Sato\(^2\), Takeshi Awasaki\(^3\) and Daisuke Yamamoto\(^2\)
1) Nagoya University, 2) Advanced ICT Research Institute, 3) Kyorin University

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Hiroki Takechi\(^1\), Satoko Hakeda-Suzuki\(^1\) and Takashi Suzuki\(^1\)
1) Tokyo Institute of Technology

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William Constance\(^{1,2}\), Kuniaki Saito\(^1\), Shu Kondo\(^1\) and Darren Williams\(^3\)
1) Invertebrate Genetics Lab, National Institute of Genetics, Mishima, Shizuoka, Japan, 2) Centre for Developmental Neurobiology, King's College London, London, United Kingdom

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Koun Onodera\(^1\), Shumpei Baba\(^1\), Akira Murakami\(^2\), Yusaku Hayashi\(^{1,4}\), Jake Connors\(^{1,4}\), Tadashi Uemura\(^1\) and Tadao Usui\(^1\)

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1) Grad. Sch. of Life and Environmental Sci., Univ. of Tsukuba, 2) Invertebrate Genetics Laboratory, National Institute of Genetics, 3) Grad. Sch. of Life Sci., Tohoku Univ., 4) Faculty of Life and Environmental Sci., Univ. of Tsukuba.

O-29
Early-life programming of adult physiology and ageing
Fumiaki Obata\(^{1,2}\), Hina Kosakamoto\(^1\), Kyoko Yamashita\(^1\), Masayuki Miura\(^3\), Clara O. Fons\(^2\) and Alex P. Gould\(^2\)
1) Grad. Sch. of Pharm. Sci., The Univ. of Tokyo, 2) The Francis Crick Inst.

O-30
An ABC transporter regulates aging-induced intestinal stem cell dysplasia in the midgut of Drosophila
Ayaka Sasaki\(^{1,2}\), Takashi Nishimura\(^3\) and Sa Kan Yoo\(^{1,2}\)
1) Grad. Sch. of Sci and Tech., Kwansei Gakuin Univ., 2) Laboratory for Homeodynamics, RIKEN BDR., 3) Laboratory for Growth Control Signaling, RIKEN BDR.

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Hiroki Nagai\(^1\), Hiroshi Tatara\(^1\), Shoichiro Kurata\(^1\) and Tamaki Yano\(^1\)
1) Grad. School Pharm. Sci., Tohoku Univ.
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Masato Enomoto1) and Tatsushi Igaki1)
1) Grad. Sch. of Biostudies., Kyoto Univ

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Molecular mechanisms controlling ER shape
Diana Pendin1), Anna Shnyrova2),3), Javier Espadas Moreno2),3), Tatiana Trevisan1), Artur Escalada2),3), Giulia Misticconi1), Vadim Frolov2),3),4) and Andrea Daga1)
1) E. Medea Scientific Institute, Conegliano, 31015 Italy, 2) Biofisika Institute (CSIC-UPV/EHU), Leioa 48940, Spain, 3) Departamento de Bioquimica y Biologia Molecular, Universidad del Pais Vasco, Leioa 48940, Spain, 4) IKERBASQUE, Basque Foundation for Science, 48011 Bilbao, Spain

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Alexis Leah Braun1), Francesco Meghini1), Gema Villa-Fombuena2), Morgane Guermont1), Elisa Fernandez-Martinez1), David Moore Glover1), Maria Dolores Martin-Bermudo1), Acaimo Gonzalez-Reyes3) and Yuu Kimata1),3)
1) Department of Genetics, University of Cambridge, 2) Centro Andaluz de Biologia del Desarrollo, CSIC/Universidad Pablo de Olavide/JA, 3) School of Life Science and Technology, ShanghaiTech University

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Yasushi Izumi1),2) and Mikio Furuse1),2)
1) Div. of Cell Structure, NIPS, 2) Dept. of Physiol. Sci., SOKENDAI

O-36
A missense mutation in Insulin receptor causes a stage-specific intolerance to unbalanced diet in Drosophila
Kota Banzai1) and Takashi Nishimura1)
1) Laboratory for Growth Control Signaling, RIKEN Center for Biosystems Dynamics Research (BDR)

O-37
Rhodopsins, lipases and trpA1 channel contribute to a unique switch in thermal preference in Drosophila melanogaster larvae
Takaaki Sokabe1) and Craig Montell2)
1) Thermal Biology Group, ExCELLS, 2) Dept. MCDB, USCB

O-38
Drosophila tiny pole plasm encodes a small protein that facilites posterior localization of Aubergine during germ plasm assembly in the oocyte
Hirono Kina1),2),*, Takashi Yoshitani1),2),*, Tsubasa Tanaka1),2),3) Kazuko Hanyu-Nakamura1) and Akira Nakamura1),2),3)
1) Institute of Molecular Embryology and Genetics, 2) School of Pharmacy, 3) Graduate School of Pharmaceutical Sciences, Kumamoto University, *Equal Contribution

Rhodopsins, lipases and trpA1 channel contribute to a unique switch in thermal preference in Drosophila melanogaster larvae
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1) Institute of Molecular Embryology and Genetics, 2) School of Pharmacy, 3) Graduate School of Pharmaceutical Sciences, Kumamoto University, *Equal Contribution

O-36
A missense mutation in Insulin receptor causes a stage-specific intolerance to unbalanced diet in Drosophila
Kota Banzai1) and Takashi Nishimura1)
1) Laboratory for Growth Control Signaling, RIKEN Center for Biosystems Dynamics Research (BDR)
Poster presentations

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Tumor progression driven by polyploid giant cells in Drosophila
Bojie Cong¹², Shizue Ohsawa¹ and Tatsushi Igaki¹
1) Laboratory of Genetics, Graduate School of Biostudies, Kyoto University, 2) JSPS Research Fellow

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Tailup mediates Eiger/JNK-dependent cell death during cell competition
Carmen Siow¹, John Vaughen¹², Takaki Fujii¹, Masato Enomoto¹ and Tatsushi Igaki¹

P-3
Dissecting the role of cell competition in wound healing
Chiaki Iida¹, Shizue Ohsawa¹, Masatoshi Yamamoto¹² and Tatsushi Igaki¹

P-4
Wnt5 drives tumor progression by promoting F-actin accumulation in Drosophila
Daichi Hoshino¹, Takao Ito¹ and Tatsushi Igaki¹
1) Grad. Sch. of Biostudies, Kyoto Univ.

P-5
Cell competition eliminates accidentally generated cells with homozygous chromosomes during normal development
Hiroyuki Maruyama¹, Cong Bojie², Shizue Ohsawa¹² and Tatsushi Igaki¹²
1) Grad. Sch. of Pharm. Sci., Kyoto Univ., 2) Grad. Sch. of Biostudies, Kyoto Univ.

P-6
Epithelial cell-turnover ensures robust tissue growth in Drosophila ribosomal protein mutants
Nanami Akai¹, Shizue Ohsawa¹, Yukari Sando¹ and Tatsushi Igaki¹
1) Grad. Sch. of Biostudies, Kyoto Univ.

P-7
Genetic and theoretical analyses of cell competition: initial size of cell population determines win or lose
Sai Katayama¹, Seiya Nishikawa², Shizue Ohsawa¹, Atsuko Takamatsu³ and Tatsushi Igaki¹
1) Grad. Sch. of Biostudies, Kyoto Univ., 2) Department of Electrical, Engineering & Bioscience, Waseda Univ.

P-8
Loss of cell polarity drives malignant progression of Ras-activated tumors via microRNA-mediated inhibition of cellular senescence
Takao Ito¹, Masato Enomoto¹ and Tatsushi Igaki¹
1) Grad. Sch. of Biostudies, Kyoto Univ.

P-9
Genetic screen for identifying physiological triggers of tumor-suppressive cell competition
Yuki Morishita¹, Kiichiro Taniguchi¹, Jiaqi Li³, Shizue Ohsawa¹ and Tatsushi Igaki¹
1) Graduate School of Biostudies, Kyoto University

P-10
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Hiroka Katsube¹, Yukiko Hinami¹ and Yoshihiro H. Inoue¹

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Expression of human insulin genes derived from familial type1 diabetic patients induced ER stress in Drosophila tissues
Tatsuki Yamazoe¹, Hiroka Katsube¹ and Yoshihiro H. Inoue¹

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The cell-type specific functions of an ER modulating factor, Pecanex in Notch and Wnt signaling pathways
Tomoko Yamakawa¹ and Kenji Matsuno¹
1) Grad Sch. of Sci., Osaka Univ.
P-13
Programming of adult metabolism by a single developmental nutrient
Hina Kosakamoto1), Masayuki Miura1) and Fumiaki Obata1)
1) Grad. Sch. of Pharm. Sci., The University of Tokyo

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Identification of diphthamide-eEF2 regulatory pathway for proliferation and maintenance of intestinal stem cells
Kayoko Tsuda-Sakurai1), Masaki Kimura1) and Masayuki Miura1)
1) Graduate School of Pharmaceutical Sciences, University of Tokyo

P-15
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Natsuki Shinoda1) and Masayuki Miura1)
1) Grad. Sch. of Pharm. Sci., The Univ. of Tokyo

P-16
Glycogen is essential for hypoxia tolerance in Drosophila
Takayuki Yamada1), Okiko Habara1) and Takashi Nishimura1)
1) Laboratory for Growth Control Signaling, RIKEN Center for Biosystems Dynamics Research (BDR)

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GSK3β functions as a positive effector in WNK signaling pathway
Atsushi Sato1),2) and Hiroshi Shibuya1),2)
1) Department of Molecular Cell Biology, 2) Joint Usage/Research Center for Intractable Diseases, Medical Research Institute, Tokyo Medical and Dental University (TMDU)

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Hippo-mediated morphogenetic robustness during Drosophila wing development
Yayoi Wada1), Shizue Ohsawa1) and Tatsushi Igaki1)
1) Laboratory of Genetics, Graduate School of Biostudies, Kyoto University

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Yukiko Inui1), Shizue Ohsawa1),2) and Tatsushi Igaki1),2)
1) Grad. Sch. of Biostudies, Kyoto Univ., 2) Grad. Sch. of Pharm. Sci., Kyoto Univ.

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Yuki Taira1), Housei Wada2), Shigeo Hayashi3) and Yuji Kageyama1),3)
1) Department of Biology, Graduate School of Science, Kobe University, 2) Laboratory for Morphogenetic Signaling, RIKEN Center for Biosystems Dynamics Research, 3) Biosignal Research Center, Kobe University

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Ryunosuke Minami1), Yumi Yamahama2), Naoe Hosoda3), Takahiko Hariyama1) and Ken-ichi Kimura1)

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Ryuhei Hayashi1), Koyo Suzuki1), Reiko Tajiri1) and Tetsuya Kojima1)
1) Grad. Sch. Frontier Sciences., Univ. Tokyo

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Shunta Sakaguchi1), Chiharu Tanegashima2), Osamu Nishimura2), Mitsutaka Kadota2) and Takefumi Kondo1),3)
1) Grad. Sch. of Biostudies., Kyoto Univ., 2) Laboratory for Phyloinformatics, RIKEN BDR, 3) K-CONNEX

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Takefumi Kondo1),2) and Shigeo Hayashi3)
1) Grad. Sch. of Biostudies., Kyoto Univ., 2) K-CONNEX., 3) RIKEN BDR
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Kazuya Nemoto1, Keita Masuko1, Naoyuki Fuse1 and Shoichiro Kurata1
1) Graduate School of Pharmaceutical Science, Tohoku University

P-26 Roles of a trans-membrane protein, Almondex in the vesicular trafficking of Notch receptor during Drosophila Neurogenesis
Puspa Das1, Tomoko Yamakawa1 and Kenji Matsuno1
1) Graduate School of Science, Osaka University, Japan

P-27 Id protein regulates type I Myosin via YAP independent Hippo pathway to control the left-right asymmetric development in the Drosophila hindgut
Tomoki Ishibashi1, Ryo Hatori1, Yoko Matsuyama1 and Kenji Matsuno1
1) Grad. Sch. of Sci., Osaka Univ.

P-28 A UDP-glucuronosyl/UDP-glucosyltransferase, Narigoma, contributes to the regulation of left-right asymmetric development in the Drosophila embryonic gut
Yi-Ting Lai1, Tomoki Ishibashi1, Mitsutoshi Nakamura1, Katsushi Yamaguchi2, Shuji Shigenobu2 and Kenji Matsuno1
1) Department of Biological Sciences, Osaka Univ., 2) NIBB Core Research Facilities, NIBB

P-29 Functional analysis of spindle assembly checkpoint component BubR1 in Drosophila ovary
Misuzu Horikoshi1, Natsuki Shinoda1 and Masayuki Miura1
1) Grad. Sch. of Pharm. Sci., The Univ. of Tokyo

P-30 Caspase activity dynamics in wing imaginal discs during development and tissue repair
Nozomi Hanawa1, Natsuki Shinoda1 and Masayuki Miura1
1) Dept. of Genetics, Fac. of Pharm. Sci., The Univ. of Tokyo

P-31 Investigating the functions of Angiotensin-converting enzyme during Drosophila larva-pupa transition
Takahiro Nishida1, Tomonori Katsuyama1 and Masayuki Miura1
1) Department of Genetics, Graduate school of Pharmaceutical Sciences, The University of Tokyo

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Yuya Fujisawa1, Hina Kosakamoto1, Takahiro Chihasa and Shoko Nishihara1
1) Grad. Sch. of Pharm. Sci., The Univ. Tokyo, 2) Grad. Sch. of Sci., Hiroshima Univ.

P-33 Functional analysis of mucin-type core 1 glycan in Drosophila neuromuscular junction
Kazuyoshi Itoh1, Yoshihiro Akimoto2, Shu Kondo3, Tomomi Ichimiy1, Kazuhiro Aoki4, Michael Tiemeyer4 and Shoko Nishihara1
1) Grad. Sch. of Eng., Soka Univ., 2) Kyorin Univ. of Med., 3) Invertebr. Genet. Lab., NIG., 4) CCRC., Univ. of Georgia

P-34 Crucial role of sugar metabolism in the female meiosis in Drosophila
Yuka Yoshii1,2 and Takashi Nishimura1,2
1) Grad. Sch. of Biological Sci., NAIST, 2) RIKEN Center for Biosystems Dynamics Research (BDR)

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Hsin-Kuang Lin1, Takashi Nishimura2, Ryusuke Niwa3 and Yuko Shimada-Niwa4
1) Grad. Sch. of Life Environ. Sci., Univ. of Tsukuba, 2) CDB, RIKEN, 3) Faculty of Life Environ. Sci., Univ. of Tsukuba, 4) TARA, Univ. of Tsukuba
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Kazue Inaba1, Kotaro Koiwai2, Kana Morohashi1, Sora Enya1, Reina Arai1, Hirotsuko Kojima1, Takayoshi Okabe2, Tetsuo Nagano2, Hideshi Inoue4, Yuuta Fujikawa3, Fumiaki Yumoto2, Toshiya Senda2 and Ryusuke Niwa5
1) Grad. Sch. of Life and Environ. Sci., Univ. of Tsukuba, 2) Structural Biology Research Center, IMSS, KEK, 3) OCDD, Univ. of Tokyo, 4) Tokyo Univ. of Pharma and 5) Faculty of Life Environ. Sci, Univ. of Tsukuba

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The synergistic interaction between two transcription factors is essential to gain tissue-specific function for ecdysteroid biosynthesis
Takumi Kamiyama1, Outa Uruy1, Naoki Tani2, Akira Nakamura2 and Ryusuke Niwa3
1) Grad. Sch. of Life Environ. Sci., Univ. of Tsukuba, 2) Inst. of Mol. Embryol. Genet., Kumamoto Univ., 3) Faculty of Life Environ. Sci., Univ. of Tsukuba

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Non-linearity in Notch signaling shapes the twin peaks of Notch activity at the proneural wave front
Makoto Sato1,2 and Tetsuo Yasugi1

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Tetragonal versus hexagonal tiling of the Drosophila eye
Takashi Hayashi1, Masakazu Akiyama2 and Makoto Sato1
1) Institute for Frontier Science Initiative, Kanazawa University, 2) Research Institute for Electronic Science Hokkaido University

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Xujun Han1, Miaoxing Wang1 and Makoto Sato1,2

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Rapid RNAi screen with DIAMonDs for genes involved in the neuronal regulation of steroid hormone biosynthesis in Drosophila
Hsin-Kuang Lin1, Ki-Hyeon Seong2, Eisuke Imura3, Ryusuke Niwa3 and Yuko Shimada-Niwa9
1) Grad. Sch. of Life Environ. Sci., Univ. of Tsukuba; 2) RIKEN Tsukuba Institute; 3) Faculty of Life Environ. Sci., Univ. of Tsukuba; 4) TARA, Univ. of Tsukuba

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Keisuke Ikawa1 and Kaoru Sugimura1
1) iCeMS, Kyoto Univ.

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Haruka Nishida1, Mayu Nakanishi1 and Hitoshi Ueda1,2

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Shoko Mizutani1, Ki-Hyeon Seong2, Siu Kang3, Yuuki Takahashi1, Ayumi Mure1, Yukako Hattori1 and Tadashi Uemura1,4
1) Grad. Sch. of Biostudies., Kyoto Univ., 2) RIKEN Tsukuba, 3) Grad. Sch. of Science and Engineering, Yamagata Univ., 4) AMED-CREST

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Taiichi Tsuyama4, Hanae Komai1, Kohei Shimono9 and Tadashi Uemura11
1) Grad. Sch. of Biostudies., Kyoto Univ.

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Yasutetsu Kanaoka1,2, Henrik Skibbe3, Koun Onodera1, Yuuki Takahashi1, Tadao Usui1, Yukako Hattori1 and Tadashi Uemura1
1) Grad. Sch. of Biostudies., Kyoto Univ., 2) Grad. Sch. of Informatics., Kyoto Univ.
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Tomoki Hirashima, Ryo Tanaka, Masamitsu Yamaguchi and Hideki Yoshida

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JAK/STAT Signaling Assures Robust Neural Stem Cell Differentiation by Canceling Biological Noise
Tetsuo Yasugi, Yoshitaro Tanaka, Masaharu Nagayama, Shin-Ichiro Ei and Makoto Sato

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Exploring the universal feedback mechanism of gene expression regulation
Daiki Kitamura, Mai Nakamura and Tatsushi Igaki
1) Graduate School of Biostudies, Kyoto University

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Rapid invasion of P element in *Drosophila simulans* in Japan
Yusaku Yoshitake, Mutsumi Oda, Mai Sano, Nobuyuki Inomata, Rumi Kondo, Yasuko Kato and Masanobu Itoh
1) Department of Applied Biology, Kyoto Institute of Technology., 2) Natural Science Division, Faculty of Core Research, Ochanomizu University., 3) Department of Environmental Science, International College of Arts and Sciences, Fukuoka Women's University

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*Drosophila* RecQ5 in early spermatogenesis
Haruna Sakurai, Satoshi Takai, Kasumi Kawamura, Yuji Ogura and Katsumi Kawasaki
1) Department of Life Science, Setsunan University, Neyagawa, Osaka 572-8508, Japan

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Evolutionary cooperativity between mating position and rotation of male genitalia in Diptera
Momoko Inatomi, Chisako Sakuma, Hirotaka Kanuka and Kenji Matsuno
1) Department of Biology Science, Osaka University, Japan, 2) Department of Tropical Medicine, The Jikei University School of Medicine

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1) Laboratory of Neuroethology Graduate School of Life Sciences, Tohoku University

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1) Grad. Sch. of Life Science and Technology, Tokyo Tech.
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1) Graduate School of Pharmaceutical, Chiba University, 2) Medical Mycology Research Center, Chiba University

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Young-Mi Lim1, Yasutoyo Yamasaki1, Ryunosuke Minami1 and Leo Tsuda1
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1) Grad. Sch. of Biostudies., Kyoto Univ.

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1) The University of Tokyo, 2) Hiroshima University

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Mutant for potential suppressor gene of the antimicrobial peptide transcription shows female sterile phenotype
Yoshimasa Yagi1
1) Grad. Sch. of Science, Nagoya Univ.

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Hirovuki Kose1, Airi Iwasawa1 and Mayu Nishimura1
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1) Graduate School of Biostudies, Kyoto University, 2) Graduate School of Science and Engineering, Ehime University

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1) Graduate School of Medicine., Kobe Univ., 2) Laboratory for Homeodynamics., RIKEN BDR

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1) National Center for Geriatrics and Gerontology, 2) Buck Institute for Research on Aging
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1) Lab of Mol Neuro, Dept of Bio Sci, Grad Sch of Sci, Tokyo Metropolitan Univ., 2) Dep of Alzheimer's Disease Research, National Center for Geriatrics and Gerontology, 3) Dep of Experimental Gerontology, Grad Sch of Pharmaceutical Sciences, Nagoya City Univ.

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1) Grad. Sch. of Biostudies., Kyoto Univ.

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1) National Institute of Genetics, 2) Kyoto Institute of Technology, 3) Ehime University, 4) Kyorin University

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choice behaviors
Yoshinori Aso\(^1\)
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