Drosophila Embryo Injection Services

- The cheapest price for the best service! Starting from $200 per injection.
- User friendly system! Real time tracking of service progress online.
- Inject 200+ embryos per service.
- Deliver transformed and/or balanced flies. We do the crosses!
- One shipping & handling charge per order! No matter how many services purchased.
- Selection of w^1118, yw or your own strain for transposable-element injection.
- PhiC31 integrase-mediated site-specific transgenesis - the broadest selection of attP sites.
- Screen for white, yellow, vermilion, and/or GFP/RFP/DsRed/YFP/CFP.
- MiMIC injection service.
- CRISPR injection service.
- Over 75,000 individual constructs were successfully injected and over 400,000 transformants delivered!
**MEETING ORGANIZERS**

Leanne Jones, Chair 
Claude Desplan
Doris Bachtrog 
Amy Kiger

**FLY BOARD**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laura Johnston</td>
<td>President</td>
</tr>
<tr>
<td>Deborah Andrew</td>
<td>President-Elect</td>
</tr>
<tr>
<td>David Bilder</td>
<td>Past-President</td>
</tr>
<tr>
<td>Ken Irvine</td>
<td>Past-President &amp; Elections Chair</td>
</tr>
<tr>
<td>Amy Bejsovec</td>
<td>Past-President &amp; Member-at-Large</td>
</tr>
<tr>
<td>Deborah Andrew</td>
<td>Treasurer</td>
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</table>

**Regional Representatives**

<table>
<thead>
<tr>
<th>Name</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Esther Verheyen</td>
<td>Canada</td>
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<tr>
<td>Scott Barolo</td>
<td>Great Lakes</td>
</tr>
<tr>
<td>Sarah Certel</td>
<td>Mountain</td>
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<tr>
<td>Andrea Page-McCaw</td>
<td>Southeast</td>
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<tr>
<td>Amy Kiger</td>
<td>California</td>
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<tr>
<td>Michael Galko</td>
<td>Heartland</td>
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<tr>
<td>Giovanni Bosco</td>
<td>New England</td>
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<tr>
<td>Chris Rushlow</td>
<td>Mid-Atlantic</td>
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<tr>
<td>Bing Zhang</td>
<td>Midwest</td>
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**Primarily Undergraduate Institution Representative**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Alexis Nagengast</td>
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</table>

**International Representatives**

<table>
<thead>
<tr>
<th>Name</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gary Hime</td>
<td>Australia/Oceania</td>
</tr>
<tr>
<td>Li-Mei Pai</td>
<td>Asia</td>
</tr>
<tr>
<td>Sarah Bray</td>
<td>Europe</td>
</tr>
<tr>
<td>Juan Riesgo-Escovar</td>
<td>Latin America</td>
</tr>
</tbody>
</table>
The Organizers would like to thank the following people who devoted countless hours to abstract review and programming:

Cell Biology & Signal Transduction
  Jeff Axelrod
  Mihaela (Ela) Serpe
  Qi Wang

Cell Death & Immunity
  Kim McCall
  Henri Jasper
  Imilce Rodriguez-Fernandez

Cell Division & Growth Control
  Don Fox
  Sharon Gorski
  Jessica Sawyer

Chromatin & Epigenetics
  Melissa Harrison
  Mia Levine
  Danielle Hamm

Evolution & Populations Genetics
  Kristi Montooth
  Noah Whiteman
  Andy Gloss

Evolution of Development/RNA Biology
  Artyom Kopp
  Urs Schmidt-Ott
  Nick Sokol
  Emily Delaney
  Arthur Luhur

Gametogenesis
  Minx Fuller
  Alana O'Reilly
  Eric Lee

Intracellular Dynamics: Cytoskeleton, Organelles, and Trafficking
  Julie Brill
  Yohanns Bellaiche
  Jean-Francois Groulx

Models of Human Disease:
  Neurodegeneration & Neurological Disorders
  Serge Birman
  Doris Kretzschmar
  Sabi Abdul-Raouf Issa

Models of Human Disease:
  Developmental & Physiological Disorders
  Dirk Bohmann
  Rene Galindo
  Drew Stenesen

Neural Circuits & Behavior
  Nilay Yapici
  Gwyneth Card
  Ryan Williamson

Neural Development & Physiology
  Pelin Volkan
  Makoto Sato
  Tetsuo Yasugi

Patternning, Morphogenesis &
Organogenesis I
  Jessica Treisman
  Leslie Pick
  Anja Katzemich

Physiology, Metabolism & Aging
  Daniel Promislow
  Benoit Biteau
  Rebecca Kreipke

Regulation of Gene Expression
  Bob Johnston
  Jack Bateman
  Caity Anderson
  Kayla Viets

Stem Cells
  Gary Hime
  Tina Mukarjee
  Nicole Siddall

Techniques & Technology Platform Session
  Hugo Bellen
  Julie Simpson
  Oguz Kanca
Download the 58th Annual Drosophila Research Conference MOBILE APP NOW!
http://www.genetics-gsa.org/meetingapp/dros17

Complete abstract and speaker info, personalize your schedule, view venue maps, take notes and more.
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  Speaker Ready Room, Terrace Salon 3
  Poster Sessions and Exhibits, Grand Exhibit Hall
  Mobile App
  WiFi/Internet
  Registration
  Social Media/Photo/Video Policy
  FlyBase Demonstrations
  Security/Lost and Found
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About the Genetics Society of America

The Genetics Society of America (GSA) is a professional scientific society with more than 5,000 members worldwide working to deepen our understanding of the living world by advancing the field of genetics. GSA represents the collective interests of the genetics and model organism communities.

GSA fosters an international community of geneticists by promoting interaction among researchers (including microbial, plant, animal, human, population, and theoretical geneticists). The Society has a deep and growing commitment to supporting the next generation of geneticists, providing career development resources, travel grant programs, leadership opportunities, and symposia funding. GSA works with our members and allied organizations to communicate the value of genetics research to the public and policymakers, advocating for the research community and the vital work they do.

GSA publishes two peer-edited scholarly journals:

GENETICS has been innovating since 1916, publishing high quality original research across the breadth of the field.

G3: Genes|Genomes|Genetics is an open access journal that offers the opportunity to publish high quality, useful results without a requirement that they be high impact.

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Hopi E. Hoekstra
Erika L. Matunis
Fernando Pardo-Manuel de Villena
Trainee Advisory Representative: Heath Blackmon
## Schedule of Events

### WEDNESDAY, March 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
</table>
| 9:00 am - 5:30 pm | PI Early Career Forum  
*Ticket required* | Pacific Ballroom Salon 3 |
| 12:00 noon - 6:00 pm | Ecdysone Workshop                           | Golden Ballroom           |
| 3:00 pm - 6:30 pm | Speaker Ready Room                           | Terrace Salon 3           |
| 3:30 pm - 9:00 pm | Registration and Book/T-Shirt Pick Up Open   | Atlas Foyer               |
| 5:00 pm - 12:00 am | Posters Open 24 Hours beginning at 5:00 pm | Grand Exhibit Hall        |
| 7:00 pm - 9:00 pm | Opening Session  
*Moderator: Leanne Jones* | Atlas Ballroom            |
| 7:00 pm         | Opening Session  
Leanne Jones, University of California, Los Angeles. |                          |
| 7:10 pm         | GSA Welcome                                  |                           |
| 7:20 pm         | The Larry Sandler Award  
R. Hawley, Stowers Institute for Medical Research, Kansas City, MO. |                           |
| 7:25 pm         | Presentation of The Larry Sandler Award  
Bob Duronio, University of North Carolina, Chapel Hill. |                           |
| 7:30 pm         | Larry Sandler Award Winner Talk              |                           |
| 8:00 pm         | Introduction of Sean Carroll  
Doris Bachtrog |                           |
| 8:05 pm         | The Making and Unmaking of the Animal Kingdom  
Sean Carroll |                           |
| 9:15 pm - 11:00 pm | Mixer/Reception  
*Sponsored by the GSA journals, GENETICS and G3: Genes|Genomes|Genetics* | Grand Exhibit Hall |

### THURSDAY, March 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>12:01 am - 12:00 am</td>
<td>Posters Open 24 Hours</td>
<td>Grand Exhibit Hall</td>
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<tr>
<td>7:00 am - 3:00 pm</td>
<td>Speaker Ready Room</td>
<td>Terrace Salon 3</td>
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<tr>
<td>7:15 am - 8:30 am</td>
<td>Publishing Tips and Tricks Continental Breakfast</td>
<td>Golden Pacific Ballroom</td>
</tr>
<tr>
<td>7:15 am - 8:30 am</td>
<td>Continental Breakfast</td>
<td>Golden Pacific Ballroom Foyer</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Location</td>
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<tr>
<td>8:00 am - 5:00 pm</td>
<td>Registration Open</td>
<td>Atlas Foyer</td>
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</tbody>
</table>
| 8:30 am - 12:00 noon | Plenary Session 1  
*Moderator:* Claude Desplan | Atlas Ballroom                      |
| 8:30 am           | Image Award Presentation  
David Bilder                                         |                                    |
| 8:35 am           | The *Drosophila-Spiroplasma* interaction as a model to dissect the molecular mechanisms underlying insect endosymbiosis  
Bruno Lemaitre                                        |                                    |
| 9:05 am           | The Mutations behind Species Evolution  
Virginie Courtier-Orgogozo                           |                                    |
| 9:35 am           | Simple Rules in Neural Circuit Assembly  
Peter Robin Hiesinger                                 |                                    |
| 10:05 am          | Break                                                                                            |                                    |
| 10:30 am          | How the Gut Talks and Listens  
Irene Miguel-Aliaga                                |                                    |
| 11:00 am          | Tissue refinement: a noisy path to order.  
Buzz Baum                                            |                                    |
| 11:30 am          | Orchestrating The Proliferation Differentiation Switch Of Adult Intestine Stem Cells  
Francois Payre                                      |                                    |
| 12:15 pm - 1:45 pm | "Meet the Speakers" Careers Lunch  
*Ticket required*                                     | Royal Palm Ballroom 4               |
| 1:00 pm - 5:00 pm | FlyBase Demo Room Open for Tutorials & Discussions  
*Presentations:*  
2:00-2:15 pm: New Features in FlyBase  
2:20-2:35 pm: Reaching across the MODs: enhanced orthology data and future prospects | Royal Palm Ballroom 1-3               |
| 2:00 pm - 4:00 pm | Exhibits Open & Poster Presentations  
*Presentations:*  
2:00 pm EVEN Posters  
3:00 pm ODD posters                                   | Grand Exhibit Hall                   |
| 4:30 pm - 6:30 pm | Concurrent Platform Sessions  
**Stem Cells**  
*Moderators:* Gary Hime; Tina Mukarjee; and Nicole Siddall | Town & Country                      |
|                  | **Neural Circuits & Behavior**  
*Moderators:* Nilay Yapici; Gwyneth Card; and Ryan Williamson | San Diego                           |
|                  | **Models of Human Disease: Developmental & Physiological Disorders**  
*Moderators:* Dirk Bohmann; Rene Galindo; and Drew Stenesen | Golden West                         |
<p>| 7:45 pm - 9:45 pm | Concurrent Workshops                                                                           |                                    |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00 pm - 11:00 pm</td>
<td>Exhibits Open &amp; Poster Viewing</td>
<td>Grand Exhibit Hall</td>
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<tr>
<td>12:01 am - 12:00 am</td>
<td>Posters Open 24/7</td>
<td>Grand Exhibit Hall</td>
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<tr>
<td>6:00 am - 11:00 pm</td>
<td>Networking Lounge</td>
<td>Grand Exhibit Hall</td>
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<tr>
<td>7:00 am - 3:00 pm</td>
<td>Speaker Ready Room</td>
<td>Terrace Salon 3</td>
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<tr>
<td>8:15 am - 5:00 pm</td>
<td>Registration Open</td>
<td>Atlas Foyer</td>
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<tr>
<td>8:30 am - 10:15 am</td>
<td>Concurrent Platform Sessions</td>
<td>Town &amp; Country</td>
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<tr>
<td>10:15 am - 10:45 am</td>
<td>Coffee Break</td>
<td>Town &amp; Country</td>
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<tr>
<td>10:45 am - 12:30 pm</td>
<td>Concurrent Platform Sessions</td>
<td>Town &amp; Country</td>
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<td>Concurrent Platform Sessions</td>
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</table>
| 1:00 pm - 6:00 pm | FlyBase Demo Room Open for Tutorials & Discussion  
Presentations:  
3:45-4:00 pm: New Features in FlyBase  
4:05-4:20 pm: Reaching across the MODs: enhanced orthology data and future prospects | Royal Palm Ballroom 1-3            |
| 1:45 pm - 3:45 pm | Concurrent Workshops  
Navigating the Career Decision Making Process  
Spotlight on Undergraduate Research  
Drosophila Microbiome  
Developmental Mechanics  
Biogenic Amines and Behaviors | Pacific Salon 7  
Pacific Ballroom Salon 1  
Pacific Ballroom Salon 3  
Golden Ballroom  
Pacific Ballroom Salon 2 |
| 2:00 pm - 4:00 pm | Open Poster and Exhibit Viewing | Grand Exhibit Hall |
| 4:30 pm - 6:30 pm | Concurrent Platform Sessions  
Evolution of Development (talks 1-4), RNA Biology (talks 5-8)  
Moderators: Artyom Kopp; Urs Schmidt-Ott; Nick Sokol; Emily Delaney; and Arthur Luhur | Town & Country  
San Diego |
| 7:30 pm - 9:00 pm | How I Fly (HIF) ScienceSlam | San Diego |
| 9:00 pm - 11:00 pm | Exhibits Open & Poster Presentations  
Open Poster Viewing with Cash Bar (authors encouraged to be at their board) | Grand Exhibit Hall |

SATURDAY, April 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
</table>
| 12:01 am - 3:30 pm | Posters Open  
Close at 3:30 pm. Posters must be down by 4:00 pm | Grand Exhibit Hall               |
| 6:00 am - 4:00 pm | Networking Lounge  
Select tables will be moderated during lunchtime | Grand Exhibit Hall               |
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>7:00 am - 3:00 pm</td>
<td>Speaker Ready Room</td>
<td>Terrace Salon 3</td>
</tr>
<tr>
<td>8:15 am - 3:00 pm</td>
<td>Registration and Book/T-Shirt Pick Up Open</td>
<td>Atlas Foyer</td>
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<tr>
<td>8:30 am - 10:15 am</td>
<td>Concurrent Platform Sessions</td>
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<td></td>
<td>Evolution &amp; Populations Genetics I</td>
<td>Town &amp; Country</td>
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<tr>
<td></td>
<td><em>Moderators:</em> Kristi Montooth; Noah Whiteman; and Andy Gloss</td>
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<td></td>
<td>Patterning, Morphogenesis &amp; Organogenesis I</td>
<td>San Diego</td>
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<tr>
<td></td>
<td><em>Moderators:</em> Jessica Treisman; Leslie Pick; and Anja Katzemich</td>
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<td>Gametogenesis</td>
<td>Golden West</td>
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<td></td>
<td><em>Moderators:</em> Minx Fuller; Alana O'Reilly; and Eric Lee</td>
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<tr>
<td>10:15 am - 10:45 am</td>
<td>Coffee Break</td>
<td>Atlas Foyer</td>
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<tr>
<td>10:45 am - 12:30 pm</td>
<td>Concurrent Platform Sessions</td>
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<td></td>
<td>Evolution &amp; Populations Genetics II</td>
<td>Town &amp; Country</td>
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<tr>
<td></td>
<td><em>Moderators:</em> Kristi Montooth; Noah Whiteman; and Andy Gloss</td>
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<tr>
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<td>Patterning, Morphogenesis &amp; Organogenesis II</td>
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<td><em>Moderators:</em> Jessica Treisman; Leslie Pick; and Anja Katzemich</td>
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<td>Cell Death &amp; Immunity</td>
<td>Golden West</td>
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<tr>
<td></td>
<td><em>Moderators:</em> Kim McCall; Henri Jasper; and Imilce Rodriguez-Fernandez</td>
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</tr>
<tr>
<td>1:30 pm - 3:30 pm</td>
<td>Exhibits Open &amp; Poster Presentations</td>
<td>Grand Exhibit Hall</td>
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<td><em>Presentations</em></td>
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<td></td>
<td>1:30 pm ODD Posters</td>
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<td>2:30 pm EVEN posters</td>
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<tr>
<td>4:00 pm - 6:00 pm</td>
<td>Concurrent Platform Sessions</td>
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<td>Chromatin &amp; Epigenetics</td>
<td>Town &amp; Country</td>
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<td><em>Moderators:</em> Melissa Harrison; Mia Levine; and Danielle Hamm</td>
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<td>Cell Division &amp; Growth Control</td>
<td>San Diego</td>
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<td><em>Moderators:</em> Don Fox; Sharon Gorski; and Jessica Sawyer</td>
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<td></td>
<td>Models of Human Disease: Neurodegeneration &amp; Neurological Disorders</td>
<td>Golden West</td>
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<td></td>
<td><em>Moderators:</em> Serge Birman; Doris Kretzschmar; and Sabi Abdul-Raouf Issa</td>
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<tr>
<td>7:30 pm - 10:00 pm</td>
<td>Techniques &amp; Technology Platform Session</td>
<td>San Diego</td>
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<td></td>
<td><em>Moderators:</em> Hugo Bellen; Julie Simpson; and Oguz Kanca</td>
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</tbody>
</table>
| 8:30 am - 12:00 noon | Plenary Session II  
*Moderator: Amy Kiger*  
*Atlas Ballroom* |
| 8:30 am       | Poster Awards |
| 8:35 am       | Asymmetric signaling endosomes in asymmetric division  
*Sponsored by EMBO*  
Marcos Gonzalez-Gaitan |
| 9:05 am       | Why the pause? Catching RNA polymerase II *in vivo*  
Julia Zeitlinger |
| 9:35 am       | Circuits principles of memory-based behavioral choice  
Marta Zlatic |
| 10:05 am      | Break |
| 10:30 am      | Stem cell homeostasis in the *Drosophila* testis  
Erika Bach |
| 11:00 am      | The conflicts that shape genomes, cells and species.  
Nitin Phadnis |
| 11:30 am      | The piRNA pathway—a small RNA based genome defense system  
Julius Brennecke |
Badges
Badges are required for admission to all sessions, posters, receptions, and the Exhibit Hall. Security will not allow individuals without badges to enter the Exhibit Hall. If you lose your badge, you may request a replacement badge at the conference registration desk.

Presenters — Speaker Ready Room, Terrace Salon 3
All those giving oral presentations must load and check their files the day before the start of their session in the Speaker Ready Room, Terrace Salon 3. You will not be able to upload presentations in the meeting room, so checking in at the Speaker Ready Room is vital. Terrace Salon 3 will be open at the following times:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, March 29</td>
<td>3:00 pm – 7:30 pm</td>
</tr>
<tr>
<td>Thursday, March 30</td>
<td>7:00 am – 5:00 pm</td>
</tr>
<tr>
<td>Friday, March 31</td>
<td>7:00 am – 5:00 pm</td>
</tr>
<tr>
<td>Saturday, April 1</td>
<td>7:00 am – 5:00 pm</td>
</tr>
</tbody>
</table>

Poster Sessions and Exhibits, Grand Exhibit Hall
All posters and exhibits will be in the Grand Exhibit Hall. The Hall will be open to conference registrants on a 24 hour basis beginning at 5:00 pm, Wednesday, March 29 until 3:30 pm, Saturday, April 1. Security will be posted at the entrance to the Hall and only individuals with the official conference badge will be admitted. Posters must be removed by 4:00 pm on Saturday.

Exhibit representatives will be at their booths during the following hours:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, March 29</td>
<td>9:00 pm – 11:00 pm</td>
</tr>
<tr>
<td>Thursday, March 30</td>
<td>1:30 pm – 4:30 pm</td>
</tr>
<tr>
<td>Friday, March 31</td>
<td>2:00 pm – 4:00 pm</td>
</tr>
<tr>
<td></td>
<td>8:00 pm - 11:00 pm</td>
</tr>
<tr>
<td>Saturday, April 1</td>
<td>1:00 pm – 4:00 pm</td>
</tr>
</tbody>
</table>

Authors should be at their posters to present according to the following schedule:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Type of Posters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, March 30</td>
<td>2:00 pm – 3:00 pm</td>
<td>Even-numbered posters</td>
</tr>
<tr>
<td></td>
<td>3:00 pm – 4:00 pm</td>
<td>Odd-numbered posters</td>
</tr>
<tr>
<td>Friday, March 31</td>
<td>9:00 pm – 11:00 pm</td>
<td>Not required but recommended for authors to be present</td>
</tr>
<tr>
<td>Saturday, April 1</td>
<td>1:30 pm – 2:30 pm</td>
<td>Odd-numbered posters</td>
</tr>
<tr>
<td></td>
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<td>Even-numbered posters</td>
</tr>
</tbody>
</table>

All posters must be removed from poster boards no later than 4:00 pm on Saturday, April 1. After that time, remaining posters will be removed and recycled. Posters may only be removed by their own authors. Unclaimed posters may not be taken by someone who is not an author on that poster.

Mobile App
Download the GSA mobile app to your smartphone (iOS and Android platforms). The mobile app provides the meeting at your fingertips. Once the app has been downloaded, you will not need internet access to access the Program and other features. An internet connection is only needed to download updates. Users of Blackberrys or Windows Mobile Devices have full access to the Program through the web version available at genetics-gsa.org/drosophila/2017/.
WiFi/Internet
Free WiFi will be available in guest rooms and in all meeting spaces at the Town & Country Resort & Convention Center.

Registration
Registrants can pick up registration materials and Certificates of Attendance at the registration desk in the Atlas Ballroom Foyer during the following times:

<table>
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<th>Date &amp; Date</th>
<th>Time</th>
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<tr>
<td>Wednesday, March 29</td>
<td>3:30 pm – 9:00 pm</td>
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<td>Thursday, March 30</td>
<td>8:00 am – 5:00 pm</td>
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<tr>
<td>Friday, March 31</td>
<td>8:15 am – 5:00 pm</td>
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<tr>
<td>Saturday, April 1</td>
<td>8:15 am – 3:00 pm</td>
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Social Media/Photo/Video Policy
Live tweeting of presentations is allowed (#DROS17) unless the speaker explicitly opts out by stating so at the start of his or her talk. Taking or sharing photos or videos of posters is permitted only with the presenter’s consent during the assigned poster session. Taking photos of posters while the presenter is not present is strictly prohibited. By attending a GSA conference, you grant GSA the right to use your photograph, name, and likeness for use in GSA educational, news, or promotional materials.

Attendees are asked to be respectful of their colleagues by turning off or muting all mobile devices before entering meeting rooms.

FlyBase Demonstrations
FlyBase invites all Conference registrants to come to the demo room to learn how to make the best use of the new FlyBase tools and features for your research and teaching. Throughout the afternoon, other than the scheduled group presentations noted below, FlyBase personnel are available in the demo room for one-on-one tutorials, troubleshooting and discussions. Any thoughts on improvements we can make to FlyBase are gratefully appreciated.

Thursday, March 30
1:00pm - 5:00pm  Demo room open for tutorials and discussions

Presentations:
2:00pm-2:15pm:  New Features in FlyBase
2:20pm-2:35pm:  Reaching across the MODs: enhanced orthology data and future prospects

Friday, March 31
1:00pm - 6:00pm  Demo room open for tutorials and discussions

Presentations:
3:45pm-4:00pm:  New Features in FlyBase
4:05pm-4:20pm:  Reaching across the MODs: enhanced orthology data and future prospects
Security/Lost and Found
For all emergencies and lost and found items, contact the Town & Country Resort & Convention Center Security by dialing 0 from any house phone. The conference registration desk will be able to assist you as well.

Meals
Meals are not included in your registration fee. However, in addition to the restaurants on site, there will also be cash concessions in the meeting space. Fashion Valley Mall is a five minute walk from the hotel and has a wide variety of dining options. There will be seating available in the Networking Lounge in the Exhibit Hall.

Parking
Parking is available at the Town & Country for $10 per day which includes in and out privileges.

Childcare/Family Room
A Family Room for nursing mothers is located in the Sunset Room. Please note that parents and guardians are responsible for providing infant care supplies. The Family Room is unsupervised and The Genetics Society of America is not responsible for any accidents or injuries that may occur.

It is the responsibility of the parents, guardian, legal guardian, or individual requesting childcare services to screen caregivers and to make a determination as to the appropriateness of the caregiver. The Genetics Society of America does not screen any of the childcare services and assumes no responsibility with respect to these services and accepts no liability.

Children must be accompanied by a parent or guardian at all times in the Exhibit Hall. Parents or guardians may bring children under the age of 18 to educational and social events provided the children do not disrupt the event. Under no circumstances are children under the age of 18 allowed in the Exhibit Hall during set-up and dismantle times.

Code of Conduct
GSA expects attendees and exhibitors to respect each other, GSA staff, and hotel staff and behave in a courteous fashion. Attendees should respect common sense rules for public behavior, personal interaction, common courtesy, and respect for private property.

Abusive, harassing, or threatening behavior towards any other attendee, GSA staff, or convention center staff will not be tolerated. Please report any incidents in which an attendee of the meeting is abusive, insulting, intimidating, bothersome, or acting in an unsafe or illegal manner to GSA staff or security immediately. Please contact: sbrown@genetics-gsa.org and tracey.depellegrin@thegsajournals.org if you need to file a complaint.
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Plenary & Platform Sessions Listing

Wednesday, March 29  7:00 PM – 9:00 PM
Location: Atlas Ballroom
Opening Session
Moderator: Leanne Jones, UCLA

Presentations:

7:00  Opening Session Leanne Jones
7:10  GSA Welcome
7:20  The Larry Sandler Award R. Hawley
7:25  Presentation of The Larry Sandler Award Bob Duronio
7:30  Larry Sandler Award Winner Talk
8:00  Introduction of Sean Carroll Doris Bachtrrog
8:05  The Making and Unmaking of the Animal Kingdom Sean Carroll

Thursday, March 30  8:30 AM – 12:00 NOON
Location: Atlas Ballroom
Plenary Session 1
Moderator: Claude Desplan, New York University, New York

Presentations:

8:30  Image Award Presentation David Bilder
8:35  The Drosophila-Spiroplasma interaction as a model to dissect the molecular mechanisms underlying insect endosymbiosis Bruno Lemaitre
9:05  The Mutations behind Species Evolution Virginie Courtier-Orgogozo
9:35  Simple Rules in Neural Circuit Assembly P. Hiesinger
10:05 - Break
10:30  How the Gut Talks and Listens Irene Miguel-Aliaga
11:00  Tissue refinement: a noisy path to order Buzz Baum
11:30  Orchestrating The Proliferation Differentiation Switch Of Adult Intestine Stem Cells Francois Payre
Thursday, March 30  4:30 PM – 6:30 PM
Location: Town & Country

Stem Cells
Co-    Gary Hime, Univ. of Melbourne, Australia, and
         Tina Mukarjee, Institute for Stem Cell Biology, Bengaluru, India, and
         Nicole Siddall, Univ. of Melbourne, Australia

1 - 4:30  A novel Hdac1/Rpd3-poised circuit balances continual self-renewal and rapid restriction of developmental potential during asymmetric stem cell division  Cheng-yu Lee

2 - 4:45  Hedgehog and Insulin Balance Proliferation and Autophagy to Determine Follicle Stem Cell Lifespan  Alana O'Reilly

3 - 5:00  Dietary lipid dependent regulation of the intestinal stem cell lineage by DHR96 and Notch  Rebecca Obniski

4 - 5:15  Deciphering the biological role and molecular mechanism of germline de-differentiation in flies  Salvador Herrera

5 - 5:30  Tricellular junctions regulate intestinal stem cell behavior to maintain homeostasis  Martin Resnik-Docampo

6 - 5:45  Grainyhead regulates midgut stem cell function  Gary Hime

7 - 6:00  The Tip60 complex interacts with Myc in Drosophila neural stem cell maintenance and polarity  Katja Rust

8 - 6:15  4D dynamics of cell division, differentiation, and loss during midgut renewal in live adult Drosophila  Judy Martin

---

Thursday, March 30  4:30 PM – 6:30 PM
Location: San Diego

Neural Circuits and Behavior
Co-    Nilay Yapici, Cornell
         Gwyneth Card, HHMI Janelia Research Campus, Ashburn, VA, and
         Ryan Williamson, HHMI Janelia Research Campus, Ashburn, VA

9 - 4:30  Sexually dimorphic action selection of sex and sleep in Drosophila  Divya Sitaraman

10 - 4:45  The gustatory basis of protein homeostasis  Samuel Walker

11 - 5:00  Here come zombie flies: Entomophthora muscae, a model behavior-manipulating pathogen of Drosophila melanogaster  Carolyn Elya

12 - 5:15  Clean up your action selection: How the brain organizes motor sequences in fly grooming  Julie Simpson

13 - 5:30  Encoding of Larval Body Movements and Position by Directionally Selective On/Off Proprioceptive Neurons  W. Tracey

14 - 5:45  Gut microbial modification of Drosophila locomotor behavior  Catherine Schretter

15 - 6:00  Complex aminergic regulation of the Drosophila egg-laying circuit  Sonali Deshpande

16 - 6:15  "not my type": a candidate gene for behavioral isolation in Drosophila  Tabashir Chowdhury
Thursday, March 30  4:30 PM – 6:30 PM
Location: Golden West
Models of Human Disease: Developmental and Physiological Disorders
Co-Moderators: Dirk Bohmann, University of Rochester, NY, and Rene Galindo, University of Texas Southwestern Medical Center, Dallas, and Drew Stenesen, University of Texas Southwestern Medical Center, Dallas

17 - 4:30  Investigating molecular mechanisms of microcephaly through mitotic spindle-independent pathways Todd Schoborg

18 - 4:45  The Polyadenosine RNA Binding Protein, Nab2, is a Functional Ortholog of the Human Intellectual Disability Gene ZC3H14 and Regulates Mushroom Body Development Seth Kelly

19 - 5:00  MARRVEL: Integration of public resources to prioritize human genetic variants for study in model organisms Julia Wang

20 - 5:15  Nrf2 and Epigenetic Aging Dirk Bohmann

21 - 5:30  SLP-2 interacts with PINK1 in regulating mitochondrial function and bioenergetics in a Drosophila Parkinson’s disease model Sreehari Kalvakuri

22 - 5:45  Microenvironmental autophagy promotes tumor growth Nadja Katheder

23 - 6:00  Systematic analysis of miRNAs in epithelial tumors reveals tumor enhancing and repressing miRNAs Zhiqiang Shu

24 - 6:15  Microbially-mediated ethanol sensitivity: A model system using Drosophila, its microbiome, and ingested ethanol James Angus Chandler
### Physiology, Metabolism and Aging I
**Friday, March 31 8:30 AM – 10:15 AM**
**Location:** Town & Country

**Physiology, Metabolism and Aging I**
Co-Moderators: Daniel Promislow, Univ. of Washington, Seattle, and Benoit Biteau, Univ. of Rochester, NY, and Rebecca Kreipke, Univ. of Washington, Seattle

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<td>Regulation of adult lipid homeostasis by Drosophila Estrogen-Related Receptor</td>
<td>Katherine Beebe</td>
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<td>26</td>
<td>Sex differences in the regulation of triacylglycerol breakdown during starvation</td>
<td>Elizabeth Rideout</td>
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<td>Restoration of Metabolic Rhythms Ameliorates Obesity-Induced Progressive Striated Muscle Dysfunction in Drosophila</td>
<td>Girish Melkani</td>
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<td>28</td>
<td>Meep is a novel regulator of insulin signaling and diet-induced diabetes</td>
<td>Matthew Pereira</td>
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<td>29</td>
<td>Cell competition promotes developmental stability through a Dilp8/Lgr3-dependent mechanism</td>
<td>Laura Johnston</td>
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<td>Torso-like interacts with the insulin signalling pathway to regulate growth and developmental timing</td>
<td>Coral Warr</td>
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<td>Maintenance of proteostasis by an effector caspase.</td>
<td>Sharon Gorski</td>
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### Regulation of Gene Expression I
**Friday, March 31 8:30 AM – 10:15 AM**
**Location:** San Diego

**Regulation of Gene Expression I**

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<th>Time</th>
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<td>Coexpressed gene neighborhoods promote expression of newly created genes through chromatin architecture sharing in Drosophila</td>
<td>Kirill Borziak</td>
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<td>Natural variation in color perception in flies</td>
<td>Caitlin Anderson</td>
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<td>Translational regulation by ATF4-induced 4E-BP is essential for the innate immune response</td>
<td>Deepika Vasudevan</td>
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<td>Positive and negative functions of Polycomb binding sites in the vestigial gene region</td>
<td>Kami Ahmad</td>
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<td>Who is the Shadow? Developmental Shadow Enhancers Come in Two Flavors, Only One of Which Is Targeted by Su(H) and Other Polyglutamine-Rich Factors</td>
<td>Albert Erives</td>
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<td>37</td>
<td>Dual Readout of Regulatory Information Is a Common Feature of Transcriptional Silencers</td>
<td>Stephen Gisselbrecht</td>
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<td>38</td>
<td>A double assurance mechanism controls enhancer-promoter specificity at the hunchback locus</td>
<td>Jia Ling</td>
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39 - 8:30  Gap junctions are required for glia-glia communication, calcium signaling and survival in *Drosophila* peripheral nervous system (PNS)  **Mriga Das**

40 - 8:45  A pulsatile EGFR signalling in the neighbouring somatic cells sets the pace of germ cell divisions in *Drosophila* testis  **Purna Gadre**

41 - 9:00  Phosphorylation Potential of *Drosophila* E-Cadherin Intracellular Domain is Essential for Development and Regulating Adherens Junction Biosynthetic Dynamics  **Yang Hong**

42 - 9:15  Actomyosin contractility modulates Wingless signaling through adherens junction stability  **Eric Hall**

43 - 9:30  Actomyosin contractility is required for long-distance Notch signaling  **Ginger Hunter**

44 - 9:45  Mechanical Stress Regulates Insulin Sensitivity Through Integrin-dependent Control of Insulin Receptor Localization  **Jung Kim**

45 - 10:00  Occluding junctions regulate Hippo signalling to control blood cell differentiation in *Drosophila*  **Rohan Khadilkar**
### Physiology, Metabolism and Aging II

**Moderators:** Daniel Promislow, Univ. of Washington, Seattle, and Benoit Biteau, Univ. of Rochester, NY, and Rebecca Kreipke, Univ. of Washington, Seattle

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<td>46-10:45</td>
<td>Pharmaceutical inhibition of MEK/ERK cascade alleviates tumor-induced wasting effects</td>
<td>Wei Song</td>
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<td>47-11:00</td>
<td>Sestrin is required for exercise adaptations of flies and mice</td>
<td>Robert Wessells</td>
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<td>48-11:15</td>
<td>Key molecular regulators maintain metabolic and development balance during temperature fluctuations</td>
<td>Steven Kuntz</td>
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<td>49-11:30</td>
<td>Reversal of Hyperactive Wg Signaling-Dependent Fat Body Defects by Peptide Boronic Acids</td>
<td>Jun-Yuan Ji</td>
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<td>50-11:45</td>
<td>Bacterial Vitamin B6 Metabolism Promotes <em>Drosophila melanogaster</em> Lifespan on Calorie-Rich Diet</td>
<td>Melinda Koyle</td>
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<td>51-12:00</td>
<td>An Autonomous Metabolic Role for Split Ends in <em>Drosophila melanogaster</em></td>
<td>Kelsey Hazegh</td>
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<td>52-12:15</td>
<td>The Gut as an Adaptable Interface: from Genetic Architecture to Physiological Consequences of Adaptive Growth of the <em>Drosophila</em> Gut</td>
<td>Alessandro Bonfini</td>
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### Regulation of Gene Expression II

**Moderators:** Bob Johnston, John's Hopkins Univ., Baltimore, MD, and Jack Bateman, Bowdoin Univ., Brunswick, ME, and Caity Anderson, John's Hopkins Univ., Baltimore, MD, and Kayla Viets, John's Hopkins Univ., Baltimore, MD

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<td>53-10:45</td>
<td>The hormone-induced transcription factor E93 regulates temporal specific gene expression by controlling DNA regulatory element accessibility</td>
<td>Daniel McKay</td>
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<td>54-11:00</td>
<td>Properties of enhancer RNA during embryonic development</td>
<td>Olga Mikhaylichenko</td>
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<td>55-11:15</td>
<td>Redundant GA-binding early transcription factors regulate the <em>Drosophila</em> histone locus body</td>
<td>Leila Rieder</td>
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<td>56-11:30</td>
<td>Quantitative and predictive models of even skipped and rhomboid enhancers targeted by engineered transcription factors in the early <em>Drosophila</em> embryo</td>
<td>Garth Ilsley</td>
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<tr>
<td>57-11:45</td>
<td>Histones Abundance Adjusts the Timing of the Mid-Blastula Transition in <em>Drosophila</em></td>
<td>Amanda Amodeo</td>
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<tr>
<td>58-12:00</td>
<td>Zelda binding sites as quantitative regulators of target gene transcription</td>
<td>Christine Rushlow</td>
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<tr>
<td>59-12:15</td>
<td>Intra-nuclear concentration and DNA-binding kinetics of Zelda defines zygotic genome activation in <em>Drosophila</em></td>
<td>Dimitrios Papadopoulos</td>
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PLENARY AND PLATFORM SESSIONS

Friday, March 31  10:45 AM – 12:30 PM
Location: Golden West
Cell Biology and Signal Transduction II
Co-Moderators:  Jeff Axelrod, Stanford

60 - 10:45  Live cell imaging of secondary cells reveals the subcellular dynamics of secretery and endosomal compartment formation and maturation **Benjamin Kroeger**

61 - 11:00  Imaging Hedgehog, Patched and Smoothened during signal transduction **Ryo Hatori**

62 - 11:15  Adenosine receptor signalling contributes to Grindelwald-induced JNK signalling in **scribble**d mutant tissue **Ingrid Poernbacher**

63 - 11:30  Regulation of Dpp signaling by O-linked glycosylation **Matthew Moulton**

64 - 11:45  VEGFR/Pvr signaling regulates diverse responses during wound healing in *Drosophila* larvae **Chang-Ru Tsai**

65 - 12:00  Rho family GTPases respond to pattern established by RhoGEFs in cell wound repair **Mitsutoshi Nakamura**

66 - 12:15  The Tip60/Enhancer of Polycomb (E(Pc)) complex is a tumor suppressor that represses hematopoietic tumors by negatively regulating JAK/STAT signaling **Alessandro Bailetti**

NOTES
Friday, March 31  4:30 PM – 6:30 PM  
Location: Town & Country  

Evolution of Development (talks 1-4), RNA Biology (talks 5-8)  

Co-Moderators:  
Artyom Kopp, UC Davis, California, and  
Urs Schmidt-Ott, Univ. of Chicago, IL, and  
Nick Sokol, Indiana University, Bloomington, and  
Emily Delaney, UC Davis, California, and  
Arthur Luhur, Indiana University, Bloomington  

67 - 4:30  Gene regulatory networks evolve at different nodes in different developmental contexts  
Sebastian Kittelmann  

68 - 4:45  Interaction Of Cis-Regulatory Changes At Two Loci In The Evolution Of The Drosophila prolongata Sensory System.  
David Luecke  

69 - 5:00  Conservation and evolution of maternally deposited and zygotically transcribed mRNAs in the early Drosophila embryo  
Susan Lott  

70 - 5:15  Reverse-engineering the evolution of Drosophila mesoderm invagination  
Steffen Lemke  

71 - 5:30  Stress-dependent miRNA-based regulation of Rbfox1/A2bp1 promotes RNP granule formation and cell survival  
Halyna Shcherbata  

72 - 5:45  The N⁶-methyladenosine (m⁶A) RNA modification modulates neuronal functions and sex determination in Drosophila melanogaster  
Tina Lence  

73 - 6:00  A sex-specific small peptide is encoded by a large "ncRNA" within the Drosophila bithorax complex  
Clément Immarigeon  

74 - 6:15  TDRD5P, a component of cytoplasmic processing body promotes male germline sexual identity  
Caitlin Pozmanter  

---  

Friday, March 31  4:30 PM – 6:30 PM  
Location: San Diego  

Intracellular Dynamics: Cytoskeleton, Organelles, and Trafficking  

Co-Moderators:  
Julie Brill, The Hospital for Sick Children, Toronto, Canada, and  
Yohanns Bellaiche, Institut Curie, Paris France, and  
Jean-Francois Groulx, Univ. of California, San Diego  

75 - 4:30  A new aspect of the mid-blastula transition: regulation of histone/lipid droplet interactions controls histone levels in the nucleus  
Matthew Johnson.  

76 - 4:45  Complementary molecular cues ensure a robust microtubule-dependent nuclear positioning in the Drosophila oocyte  
Antoine Guichet  

77 - 5:00  Global regulation of Pericentrin-Like-Protein transcript and protein controls its local positioning on the proximal end of centrioles  
Jacob Ortega  

78 - 5:15  Novel concepts of cytoskeleton regulation during neuronal growth, maintenance and degeneration  
Yue Qu  

79 - 5:30  Role of the formin Dia in formation of epithelial compartments  
Anja Schmidt  

80 - 5:45  C-terminal Src kinase (Csk) regulates the tricellular junctional protein Gliotactin independent of Src  
G.D.N. Gayathri Samarasekera  

81 - 6:00  Marf-mediated mitochondrial fusion is imperative for the development and functioning of the indirect flight muscles (IFMs) in Drosophila  
Prasanna Katti  

82 - 6:15  The relationship between autophagy, Rab-mediated endosomal trafficking, and T-tubule remodeling in muscles  
Tzu-Han Lin
Friday, March 31  4:30 PM – 6:30 PM
Location: Golden West

**Neural Development and Physiology**
Co-

- Pelin Volkan, Duke Univ., Durham, NC, and
- Makoto Sato, Kanazawa Univ. Japan, and
- Tetsuo Yasugi, Kanazawa Univ. Japan

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<tr>
<td>83</td>
<td>4:30</td>
<td>Social experience and hormone signaling modulate fru\textsuperscript{M} expression in the adult olfactory system</td>
<td>Songhui Zhao</td>
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<tr>
<td>84</td>
<td>4:45</td>
<td>The Role of Highly Conserved miRNAs in Tuning Synaptogenesis through Target Regulation in Specific Tissue Compartments</td>
<td>Elizabeth McNeill</td>
</tr>
<tr>
<td>85</td>
<td>5:00</td>
<td>Sidekick is required to establish the circuitry for visual motion detection in <em>Drosophila</em></td>
<td>Jessica Treisman</td>
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<tr>
<td>86</td>
<td>5:15</td>
<td>Frazzled promotes growth cone attachment at the source of a Netrin gradient in the <em>Drosophila</em> visual system</td>
<td>Orkun Akin</td>
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<tr>
<td>87</td>
<td>5:30</td>
<td>Targeting without a target: How postsynaptic neurons guide photoreceptors in <em>Drosophila</em> visual map formation</td>
<td>Egemen Agi</td>
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<tr>
<td>88</td>
<td>5:45</td>
<td><em>slit</em> is required for proper lch5 chordotonal neuron morphology and migration in the <em>Drosophila</em> embryonic PNS</td>
<td>Madison Gonsior</td>
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<tr>
<td>89</td>
<td>6:00</td>
<td>Depolarization-dependent hyperacidification of dopamine synaptic vesicles is mediated by VGLUT</td>
<td>Zachary Freyberg</td>
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<td>90</td>
<td>6:15</td>
<td>Draper Expression in Cortex Glia Is Required for Dead Neural Cell Removal in the Developing <em>Drosophila</em> Optic Lobe</td>
<td>Ryosuke Nakano</td>
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PLENARY AND PLATFORM SESSIONS

Saturday, April 1  8:30 AM – 10:15 AM
Location: San Diego
Pattern, Morphogenesis and Organogenesis I
Co-  Jessica Treisman, NYU,
Moderators:  Skirball Inst., New York, and
Leslie Pick, Univ. of
Maryland, College Park, and
Anja Katzemich, Schoeck lab, McGill, Montreal,
Canada

98 - 8:30  Determination of EGFR
Signaling Output by Opposing Gradients of BMP and JAK/STAT Activity Laura Nilson

99 - 8:45  Proximodistal patterning of the fly leg relies on tight spatiotemporal regulation of two key EGFR inputs via leg disc-specific, non-redundant enhancers Susan Tozier

100 - 9:00  Dynamic patterning by the Drosophila pair-rule network reconciles long-germ and short-germ segmentation Erik Clark

101 - 9:15  The LIM protein Smallish associates with Bazooka/Par-3 and Src at adherens junctions to control epithelial morphogenesis Andreas Wodarz

102 - 9:30  Physical aspects of Drosophila gastrulation Konstantin Doubrovinski

103 - 9:45  Transcriptional regulation of ribosomal protein genes is associated with organogenesis of secretory epithelium Rajprasad Loganathan

104 - 10:00  Patterned Toll receptor expression organizes epithelial cell intercalation Adam Pare
Gametogenesis

Co-Moderators:
- Minx Fuller, Stanford Univ., CA, and
- Alana O’Reilly, Fox Chase Cancer Center, Philadelphia, PA, and
- Eric Lee, Fox Chase Cancer Center, Philadelphia, PA

105 - 8:30 Transcription of the Y chromosome fertility factors – the role of intron gigantism and a potentially novel RNP granule 

106 - 8:45 A lipid metabolism checkpoint regulates self-renewal and differentiation of germline stem cells

107 - 9:00 Zinc-Finger Transcription Factor Hindsight Regulates Ovulation Competency of Drosophila Follicles

108 - 9:15 Sex-specific specification of the follicle stem cells in the developing Drosophila ovary

109 - 9:30 Rap1 and Hippo pathway collaborate to polarize directional protrusions in Drosophila border cell migration

110 - 9:45 Evolutionary drivers of rapid, episodic molecular evolution of bag of marbles (bam) in Drosophila: evaluating functional diversification and a conflict with Wolbachia

111 - 10:00 Micromanagement of stem cell proliferation by the Drosophila testis niche
PLENARY AND PLATFORM SESSIONS

Saturday, April 1  10:45 AM – 12:30 PM
Location: Town & Country

Evolution and Populations Genetics II
Co-  Kristi Montooth, Univ. of Nebraska, Lincoln, and Noah Whiteman, UC Berkeley, CA, and Andy Gloss, UC Berkeley, CA
Moderators:

112 - 10:45  Population Genomics of Parallel Cold Tolerance Evolution Within Drosophila melanogaster  
John Pool

113 - 11:00  Genomics of adaptation coupled with a major dietary transition to herbivory in the Drosophilidae  
Andrew Gloss

114 - 11:15  The genetic basis of rapid adaptive shifts in pigmentation over seasonal time scales  
Alan Bergland

115 - 11:30  Rapid evolution of learning in natural populations of Drosophila melanogaster  
Emily Behrman

116 - 11:45  HP1 gene family diversification suggests recurrent innovation in paternal chromosome packaging across 250 million years of Diptera evolution  
Quentin Helleu

117 - 12:00  Recurrent gene duplication leads to diverse repertoires of centromeric histones in Drosophila species  
Lisa Kursel

118 - 12:15  Dynamics of a natural P-element invasion in experimentally evolving populations of D. simulans  
Robert Kofler

Saturday, April 1  10:45 AM – 12:30 PM
Location: San Diego

Patternning, Morphogenesis and Organogenesis II
Co-  Jessica Treisman, NYU, New York, and Leslie Pick, Univ. of Maryland, College Park, and Anja Katzemich, Schoeck Lab, McGill, Montreal, Canada
Moderators:

119 - 10:45  Chitinase-like proteins disrupt tube morphogenesis  
Sandra Zimmerman

120 - 11:00  Organ sculpting by patterned extracellular matrix stiffness  
Justin Crest

121 - 11:15  Semaphorin-Plexin signaling regulates stress fiber dynamics during epithelial migration  
Claire Stevenson

122 - 11:30  The epithelial-specific zinc finger transcription factor Ichor is essential for seamless tube morphogenesis in the Drosophila tracheal system  
Jeff Rosa

123 - 11:45  Post-transcriptional downregulation of Bazooka-Par3 downstream of Snail in epithelial-mesenchymal transition  
Joan Lee

124 - 12:00  Dynamin regulates actin cytoskeletal organization during cell-cell fusion  
Nathalie Gerassimov

125 - 12:15  Systematic transcriptome analysis of flight muscle development reveals that Spalt major regulates a biphasic mode of sarcomere assembly  
Maria Spletter
PLENARY AND PLATFORM SESSIONS

Saturday, April 1  10:45 AM – 12:30 PM
Location: Golden West

Cell Death and Immunity
Co-Moderators:
Kim McCall, Boston Univ., MA, and
Henri Jasper, Buck Institute for Research on Aging city, state, and
Imilce Rodriguez-Fernandez, Buck Institute for Research on Aging, Novato, CA

126 - 10:45  Anastasis, a conserved cell survival strategy under stress
Gongping Sun

127 - 11:00  Stretch Follicle Cells Utilize Lysosomal Proteins to Eliminate Nurse Cells by Phagoptosis
Albert Mondragon

128 - 11:15  COPI–Arf1–lipolysis pathway regulates normal and transformed stem cells survival in adult
Drosophila Shree Ram Singh

129 - 11:30  Src-MAPK, Hippo and TGFβ signaling cooperatively regulate cytokine production in enterocytes upon bacterial infection
Philip Houtz

130 - 11:45  Olfaction mediated neuronal control for immune competency in Drosophila blood cells via GABA-shunt
Sukanya Madhwal

131 - 12:00  A new family of GTPases from virulence-linked extracellular microvesicles of a Drosophila generalist parasite
Mary Ellen Heavner

132 - 12:15  PGRP-SD is an extracellular pattern recognition receptor that enhances peptidoglycan-mediated activation of the Drosophila Imd pathway
Igor Iatsenko
### Chromatin and Epigenetics

**Co-** Melissa Harrison, Univ of Wisconsin, Madison, and Mia Levine, Univ. of Pennsylvania, Philadelphia, and Danielle Hamm, Univ of Wisconsin, Madison

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<tr>
<td>133</td>
<td>4:00 Phosphorylation of Threonine 11 in Histone H3 marks insulator elements and counteracts Polycomb dependent H3 Lysine 27 methylation</td>
<td>Alf Herzig</td>
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<td>134</td>
<td>5:15 Defining the Role of Heterochromatin and Insulator Partner Protein 1 (HIPP1) in Chromatin Insulator Function and Genome Replication</td>
<td>Emily Stow</td>
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<td>135</td>
<td>4:15 En route to a signature of trans inter-homolog pairing in haplotype-resolved genomes</td>
<td>Jelena Erceg</td>
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<td>136</td>
<td>4:30 Zelda and GAGA factor likely function to define the chromatin landscape necessary for genome activation</td>
<td>Katharine Schulz</td>
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<tr>
<td>137</td>
<td>4:45 Repetitive sequences on the X chromosome guide dosage compensation</td>
<td>Victoria Meller</td>
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<td>138</td>
<td>5:00 Interaction between co-activators and PRC1 during development: A key transitional state?</td>
<td>Hyuck-Joon Kang</td>
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<td>139</td>
<td>5:30 Modulating cis-/trans-promoter competition in Drosophila</td>
<td>Jack Bateman</td>
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<td>140</td>
<td>5:45 Argonaute2 cooperates with LaminB to repress transcription at Lamin-associated domains in Drosophila melanogaster</td>
<td>Ezequiel Nazer</td>
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### Cell Division and Growth Control

**Co-** Don Fox, Duke Univ. 

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<td>141</td>
<td>4:00 Why there are no crossovers on chromosome 4 (and how to make them)</td>
<td>Jeff Sekelsky</td>
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<td>142</td>
<td>4:15 Novel role of nuclear periphery and nuclear ‘shuttle’ proteins in heterochromatic double strand break repair.</td>
<td>Taehyun Ryu</td>
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<td>143</td>
<td>4:30 Switching Injury Response: Polyploidy Associated Hypertrophy as An Alternative to Compensatory Proliferation</td>
<td>Erez Cohen</td>
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<tr>
<td>144</td>
<td>4:45 Mitotic gene expression dictates the mechanism of tissue repair in Drosophila</td>
<td>Janelle Grendler</td>
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<tr>
<td>145</td>
<td>5:00 Delineating the Mechanism of Compensatory Cellular Hypertrophy in Follicular Epithelium</td>
<td>Sarayu Row</td>
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<tr>
<td>146</td>
<td>5:15 Large genetic screen identifies FGF signaling in the trachea as a regulator of body size in Drosophila</td>
<td>Anne Jørgensen</td>
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<td>147</td>
<td>5:30 The Mechanome of Asymmetric Cell Division</td>
<td>Tri Pham</td>
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<tr>
<td>148</td>
<td>5:45 Interactions between Cell Division and Epithelial Cell Polarity</td>
<td>Gayaanan Jeyanathan</td>
</tr>
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</table>
Models of Human Disease: Neurodegeneration and Neurological Disorders

Co-Moderators: Serge Birman, ESPCI, Paris, France, and Doris Kretzschmar, Oregon Health & Science Univ., Portland, OR, and Sabi Abdul-Raouf Issa, ESPCI, Paris, France

149 - 4:00 Defective glial phagocytosis results in cell corpse accumulation and age-dependent neurodegeneration Johnny Elguero

150 - 4:15 Dysfunctional VMAT potentiates selective loss of dopaminergic neurons in parkin mutant flies Sheng Zhang

151 - 4:30 Identification of a Neural Modulator of Locomotor Activity That Can Compensate for Loss of Dopamine Karol Cichewicz

152 - 4:45 Tip60 HAT/HDAC2 balance promotes neural health in an Alzheimer's disease Drosophila model Priyalakshmi Panikker

153 - 5:00 A rapid autophagy response is induced by axon injury and may mediate the signal transduction to axon degeneration Yanshan Fang

154 - 5:15 Seizure and ataxia-linked mutations in a Golgi t-SNARE cause synaptic retraction, frequency-dependent hyperexcitability and reduced dendritic growth in Drosophila. James Jepson

155 - 5:30 Dystroglycan, a non-integrin ECM receptor is required for selective permeability barrier in the brain Andriy Yatsenko

156 - 5:45 A Drosophila functional characterization of CNV genes that confer risk of schizophrenia. Gianna Maurer
Saturday, April 1  7:30 PM – 10:00 PM
Location: San Diego

Techniques and Technology Platform Session
Co-Moderators: Hugo Bellen, Baylor College of Medicine, Houston, TX, and Julie Simpson, University of California, Santa Barbara, and Oguz Kanca, Baylor College of Medicine, Houston, TX

157 - 7:30  Implications of Active Genetics Ethan Bier

158 - 7:45  An update from the Genome Disruption Project (GDP): MiMICs, CRiMICs, and human cDNA transgenics Hugo Bellen

159 - 8:00  Re-purposing Existing Transgenic Reagents By Genomic HACKing Christopher Potter

160 - 8:15  Transgenic gRNA libraries for tissue-specific CRISPR/Cas9 knock-out screening in Drosophila Fillip Port

161 - 8:30  What’s new in FlyBase (in its 25th year) Steven Marygold

162 - 8:45  Metabolomic Studies in Drosophila Jason Tennessen

163 - 9:00  Advances in monitoring calcium dynamics using genetically-encoded sensors in Drosophila Yi Sun


165 - 9:30  Recombinase-facilitated Fine-mapping of Neural Circuits using Split Cre Benjamin White

Sunday, April 2  8:30 AM – 12:00 NOON
Location: Atlas Ballroom

Plenary Session II
Moderator: Amy Kiger, UC San Diego, California

Presentations:

8:30  Poster Awards.

8:35  Asymmetric signaling endosomes in asymmetric division Marcos Gonzalez-Gaitan

9:05  Why the pause? Catching RNA polymerase II in vivo Julia Zeitlinger

9:35  Circuits principles of memory-based behavioral choice Marta Zlatic

10:05 - Break

10:30  Stem cell homeostasis in the Drosophila testis Erika Bach

11:00  The conflicts that shape genomes, cells and species Nitin Phadnis

11:30  The piRNA pathway—a small RNA based genome defense system Julius Brennecke
Workshops

Workshop applications were submitted and approved by the conference organizers. The workshop organizers created the program.

Wednesday, March 29 9:00 AM – 5:30 PM
Location: Pacific Ballroom Salon 3
PI Early Career Forum
Advance Registration Required
Organizers: Guy Tanentzapf, University of British Columbia, and Amy Bejsovec, Duke University

The PI Early Career Forum is designed for new PIs, within the first 5 years of setting up a lab, working on Drosophila. The purpose of this event is to provide an opportunity for early career PIs to meet one another, showcase the research pursued in their new labs, network with more senior members of the fly community, and take part in a discussion about how to navigate the challenges that accompany the process of starting a new lab. Ticketed Event

Wednesday, March 29 12:00 NOON – 6:00 PM
Location: Golden Ballroom
Ecdysone Workshop
Organizers: Rebecca Spokony, Baruch College, CUNY, and Elizabeth Ables, East Carolina University

The Ecdysone Workshop welcomes all those interested in insect endocrinology. Importantly, this workshop is a forum to discuss the role of different hormones (e.g., 20-hydroxyecdysone, juvenile hormone, peptide hormones, insulin) and the crosstalk between their signaling pathways. The topics covered include, but are not limited to, hormone synthesis and secretion, and hormonal control of transcription, differentiation, morphogenesis, growth, metabolism, timing and behavior.

Thursday, March 30 7:45 PM – 9:45 PM
Location: Pacific Ballroom Salon 1
Integrating Research and Teaching at PUIs using Drosophila melanogaster as a model organism
Organizers: Afshan Ismat, University of St. Thomas, and Norma Velazquez Ulloa, Lewis & Clark College, and Judy Leatherman, University of Northern Colorado

The workshop will have two components, lightning talks followed by breakout sessions, described below: Lightning talks: These talks will be 10 minutes long and the session will last one hour. The focus will be on ideas for integrating open-ended research into course laboratories. Talks will include speakers that teach a variety of courses with inter-related topics including Genetics, Developmental Biology, Cell Biology, Molecular Biology, and Bioinformatics. Breakout sessions: Attendees will split into small groups according to the course topic they are most interested in, and will discuss ideas for implementing the strategies discussed in the talks in their own courses.
Thursday, March 30  7:45 PM – 9:45 PM
Location: Pacific Ballroom Salon 3

**Wound Healing and Regeneration**

Organizers:  **Adrian Halme**, University of Virginia School of Medicine, and  **Rachel Smith-Bolton**, University of Illinois, Urbana-Champaign

Drosophila has become an important model system for understanding both wound healing and regeneration of tissues and organs. The goal for this workshop is to bring together presentations from researchers studying tissue repair, regeneration, and compensatory growth in diverse tissue contexts. This workshop will highlight the use of the various model systems in this field including, but not limited to, tissue repair and regeneration in embryos, the larval and adult cuticle, neurons, and imaginal discs. Common themes that will be discussed include the roles of stem cells, cell biological and mechanical mechanisms, inflammatory and innate immune systems, gene regulatory networks, signal transduction, and energy homeostasis.

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Thursday, March 30  7:45 PM – 9:45 PM
Location: Golden Ballroom

**Feeding Behavior, Nutrition and Metabolism**

Organizers:  **Tânia Reis**, University of Colorado School of Medicine, and  **William W. Ja**, The Scripps Research Institute

Drosophila has become as a powerful model system for studying how diet and nutrition can influence a wide range of metabolic processes. This workshop is designed to assemble a diverse group of presentations that highlight recent advances in the field of nutrition and metabolism. The goal of this workshop is to foster discussions and encourage collaborations among individuals interested in topics ranging from food intake as a fundamental parameter of metabolism to the effects of diet on energy storage and utilization.

---

Thursday, March 30  7:45 PM – 9:45 PM
Location: Pacific Ballroom Salon 2

**Everything You Ever Wanted to Know About Sex**

Organizers:  **Mark Van Doren**, Johns Hopkins, and  **Michelle Arbeitman**, Florida State University, and  **Artyom Kopp**, UC Davis

The workshop will cover the molecular genetics, development, neurobiology, genomics, evolution, and population genetics of sexual dimorphism, with an emphasis on cross-disciplinary interactions. Presentations by invited speakers and selected abstracts from each discipline will be followed by moderated discussions. The speakers are encouraged to summarize the key ideas behind their research for people working in other fields, outline the main unsolved questions, offer their opinions about future directions, and suggest connections that could be built with other disciplines.
Friday, March 31  1:45 PM – 3:45 PM
Location: Pacific Salon 7
**Navigating the Career Decision Making Process**
Organizer: **Sonia Hall**, Genetics Society of America, Bethesda, MD

This interactive career planning workshop will engage participants in thinking about how their skills, interests, and values can be used to inform their career planning and decisions.

Friday, March 31  1:45 PM – 3:45 PM
Location: Pacific Ballroom Salon 1
**Spotlight on Undergraduate Research**
Organizers: **Eric Stoffregen**, Lewis-Clark State College, and
  **Kimberly A. Carlson**, University of Nebraska at Kearney, and
  **Jennifer Jemc Mierisch**, Loyola University, and
  **Catherine Silver Key**, North Carolina Central University

This session will highlight undergraduate research accomplishments from Drosophila research labs. Selected by faculty reviewers, 5 student speakers will deliver ten-minute oral presentations. The undergraduate plenary session will illustrate ways in which research has become an important part of the college experience through its integration into courses and mentoring in individual research labs.

Friday, March 31  1:45 PM – 3:45 PM
Location: Pacific Ballroom Salon 3
**Drosophila Microbiome**
Organizers: **Will Ludington**, UC Berkeley, and
  **Brooke McCartney**, Carnegie Mellon University, and
  **Nichole Broderick**, University of Connecticut

The microbiome is a complex ecosystem within a complex organism, neither of which we understand completely on their own, let alone in combination. Drosophila studies have shown that the microbiome affects metabolism, immunity, pathogenesis, neurobiology and behavior, ecology and evolution, and aging. Combining the Drosophila genetic model with its naturally simple microbiome gives us our best chance of understanding the complex relationship between host and microbial community. The goal of this workshop is unite Drosophila researchers across disciplines and to build a shared set of defined host-microbiome tools to accelerate Drosophila microbiome research.
Developmental biology has undergone a revolution over the last two decades, largely as a result of work in Drosophila, that placed biomechanical, quantitative imaging, and mathematical modeling approaches at the forefront of the effort to understand tissue morphogenesis. In particular the establishment of tools to measure and manipulate mechanical forces in living organisms has demonstrated that mechanical forces profoundly shape tissue morphogenesis. In this workshop, we will review the most recent technical advances to visualize and quantify force generation during Drosophila development, and we will discuss the latest results demonstrating the interplay between physical forces, molecular dynamics and tissue morphogenesis.

Biogenic Amines and Behaviors
Organizers: Sonali A. Deshpande, University of California, Los Angeles, and Seth Tomchik, The Scripps Research Institute, FL, and Kyung-An Han, University of Texas, El Paso
Posters

Intracellular Dynamics: Cytoskeleton, Organelles and Trafficking ................................................................. 166-195

Cell Biology and Signal Transduction ......................................................... 196-229

Cell Division and Growth Control ............................................................. 230-252

Cell Death and Immunity ........................................................................ 253-277

Physiology, Metabolism and Aging ............................................................ 278-324

Gametogenesis ......................................................................................... 325-352

Stem Cells ............................................................................................... 353-376

Neural Development and Physiology ....................................................... 377-395

Neural Circuits and Behavior ................................................................... 396-428

Models of Human Disease: Neurodegeneration and Neurological Disorders ........................................................................ 429-468

Models of Human Disease: Developmental and Physiological Disorders ................................................................. 469-494

Evolution and Population Genetics .......................................................... 495-538

Evolution of Development, other Species ............................................... 539-553

Patterning, Morphogenesis and Organogenesis ..................................... 554-601

Regulation of Gene Expression ............................................................... 602-653

Chromatin and Epigenetics ...................................................................... 654-691

RNA Biology ........................................................................................... 692-701

Techniques and Technology ................................................................... 702-718

Educational Initiatives ............................................................................. 719-723
Poster Session Listings

Intracellular Dynamics: Cytoskeleton, Organelles & Trafficking

166A The Role of CG31345 in Regulating Microtubule Polymerization Safiyah Alzahrani.

167B Identification of gene interactions with the tyrosine kinase Abl during cell migration Alexandra Byrd.


170B Spire and Cappuccino Team Up to Establish Body Axes During Oogenesis Margot Quinlan.

171C Filamin actin-binding and dimerization domain fulfill distinct functions in Z-disc cohesion Frieder Schoeck.

172A Dynamic regulation of the cell polarity protein Crumbs during epithelial morphogenesis Anna Bajur.

173B Scribbled mediates tricellular junction formation Zohreh Sharifkhodaei.

174C Apnoia, a new Crumbs regulator for proper breathing in flies Kassiani Skouloudaki.

175A The Merlin and expended genes are involved in Spiny-legs induced planar cell polarity reversal. Jun Wu.

176B The Role of the Retromer Subunit Vps26 in Vesicular Trafficking During Drosophila Oogenesis Rebecca Starble.

177C Effect of the small GTPase, Rab10 on membrane growth and celluarization of the early Drosophila embryo. Elliott Holt.

178A Dissolution of electron-dense plaques during myoblast fusion Stefanie Lübke.


180C Roles of catalytic and noncatalytic class II PI3K splice variants in autophagy Jean-Francois Groulx.

181A The Sorting Nexin Snazarus regulates autophagosome-lysosome fusion Steve Jean.

182B Cdk5 enhances Basal Autophagy by phosphorylating Acinus NILAY NANDI.

183C Zonda is a novel early component of the autophagy pathway Pablo Wapner.

184A Manipulation of targeted mitochondrial DNA double strand breaks in a Drosophila model Adam Spierer.

185B Uncovering the subcellular trafficking routes of secreted molecules within secondary cells Felix Castellanos.

186C Sequential trafficking events target White transporter to pigment granules Sheng Zhang.

187A ER Stress Delays the Cell Cycle in Drosophila Syncytial Embryos Ryan Kyger.

188B Fic-mediated AMPylation of the ER chaperone BiP is required to maintain visual neurotransmission Andrew Moehlman.

189C Modeling of axonal endoplasmic reticulum network by spastic paraplegia proteins Cahir O’Kane.

190A A deficiency screen for genetic interactors of Jagunal in the Drosophila compound eye Nicole Rodrigues.

191B A Novel Role of VCP in Maintaining the Nuclear Structure and Function of End-Dividing Cells Ya-Chu Chang.

192C Nuclear Wash functions in multiple nuclear complexes to affect nuclear morphology and processes. Jeffrey Verboon.

193A Stratum, a Homolog of the Human GEF Mss4, Partnered with Rab8 Controls the Basal Restriction of Basement Membrane Proteins in Polarized Epithelial Cells Olivier Dervergne.

194B X-ray crystallography and computational molecular dynamics of Drosophila striated muscle myosin II isoforms predict a basis for isoform-specific properties James Caldwell.

195C Defining the role of mechanotransduction downstream of prostaglandin signaling in regulating border cell migration EMILY TOOMBS.
Cell Biology & Signal Transduction

196A Hedgehog signaling modulates intercellular calcium waves through an incoherent feed-forward loop in the wing disc Pavel Brodskiy.

197B Characteristics and differential spatiotemporal profiling of Shaggy protein isoforms revealed by CRISPR genome engineering Dagmara Korona.


199A The exon junction complex regulates the splicing of cell polarity genedlg1 to control Wingless signaling in development Alan Zhu.

200B Generating a new genetic tool for investigation of the requirements for Mothers against dpp (Mad) Sheila Mosallaei.

201C The phosphatase Dullard dephosphorylates Mad to terminate BMP signaling Hugo Urrutia.

202A The Drosophila xylosyltransferase Shams modulates the balance between Notch cis-inhibition and trans-activation by Delta Ashutosh Pandey.

203B Tribbles interacts with Neuralized to regulate Notch signaling Anna Shipman.

204C An overexpression screen identifies genes that regulate intercellular signaling Moe Wada.

205A An aberrant Notch signaling controls metabolic reprogramming during tumor formation Cheng-Wei Wang.

206B A feedback loop linking Notch signaling and epigenetic silencing Alan Zhu.

207C Hipk induces tumorigenesis in Drosophila Esther Verheyen.

208A A miR-285-Yki/Mask double-negative feedback loop mediates blood-brain barrier integrity in Drosophila Xiaolin Bi.

209B Role of ubiquitination in trafficking of Fat signaling pathway components Jyoti Misra.

210C In vitro and in vivo Yki protein interactome in Drosophila melanogaster Heya Zhao.

211A Ras is Required for Toll Signalling in the Drosophila Embryo Jay Lusk.

212B Distinct Transcriptional Mechanisms Account for the Autonomous and Nonautonomous Inhibition of Growth Induced by Fat Body Toll Signaling Nigel Muhammad.

213C Somatic activation of Rolled/ERK, downstream of EGFR, synchronizes spermatogonial proliferation in Drosophila testis Samir Gupta.

214A Germ cell transit amplification is non-autonomously regulated by the EGFR downstream target, miRNA bantam, in Drosophila testis Chetanchandra Joshi.

215B Search for a novel small molecule inhibitor of PLCγ Chitra Naidu.

216C Capicua preferentially binds to dually phosphorylated ERK by recognizing altered conformation of the hydrophobic pocket of the ERK DRS domain Sayantanee Paul.

217A Characterization of novel epidermal growth factor receptor target genes implicated in Drosophila development Sergey Svintozelskiy.

218B The “gatekeeper” function of Drosophila Seven-in-Absentia (SINA) E3 ligase and its human homologs, SIAH1 and SIAH2, is highly conserved for proper RAS signal transduction Robert Van Sciver.

219C Sequential Activation of Pointed Initiates Oenocyte Specification GUOLUN WANG.

220A Nutrient regulated spargel/dPGC1 expression is essential for Drosophila oogenesis MOHAMMAD BASAR.

221B Structure-function analysis of β-arrestin Kurtz reveals its role in epithelial morphogenesis as a regulator of the Fog-Mist signaling pathway Fei Chai.

222C Improving the Molecular Toolkit to Study Muscle Differentiation Emily Czajkowski.

223A Defining the interactions of Aret and Vasa in muscle fiber specific alternative splicing Sandy Oas.

224B cnB2, a calcium binding subunit of Calcineurin, is required for maintaining calcium homeostasis in indirect flight muscles of Drosophila Ruchi Jhonsa.

225C Histamine Recycling Is Mediated by CarT, a Carcinine Transporter in Drosophila Photoreceptors Ying Xu.

226A Adult muscle formation requires Drosophila importin-7 for proliferation of wing disc-associated muscle precursors Kumar Vishal.
Overactivation of innate immune processes disrupts muscle homeostasis in *Drosophila melanogaster* Nicole Green.

The organization & development of tricellular junctions in *Drosophila* epithelia Till Matzat.

Dissecting the interaction between APC2 and ApepP in regulation of Beta-catenin protein levels Hannah Kolev.

**Cell Division and Growth Control**

The Role of Actin-Microtubule Crosslinker Shortstop in Cell Division Evan Dewey.

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Using DGRP sequenced genomes to identify modifiers of cell death in *Drosophila* eyes Jacob Khoussine.

Effect of Adenosine Signaling on Apoptosis in Imaginal Disc Cells Lucie Kucerova.

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ABC Transporters are required for nurse cell corpse clearance in *Drosophila melanogaster*. Clarissa Santos.

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266B Production and detection of Vago and virus induced RNA-1 (vir-1) in *Drosophila melanogaster* using monospecific antisera during Nora virus infection Wilfredo Lopez.

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525C The Ever Evolving Hybrid Incompatibility of *D. melanogaster* and the *D. simulans* Clade **Joanna Hagen**.

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542A Evolutionary Dynamics of a Robust Developmental Trait: Segment Allometry across 12 *Drosophila* Species **Gizem Kalay**.

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Community Support

Our journals are run by and for scientists under the aegis of the Genetics Society of America. GSA represents us, advocates for us, convenes us, publicizes us, provides educational resources, and fosters our work.

GENETICS and G3 are committed to integrating with community resources. We’ve long supported the use of preprints, and in 2014 we partnered with Cold Spring Harbor Laboratories to enable seamless deposits of manuscripts from our submission systems to bioRxiv, and vice versa. Articles feature links to model organism databases like SGD, FlyBase, WormBase and FungiDB. We provide custom templates for authors who use LaTeX, saving them time at submission. So you can assess your research impact in multiple ways, each paper features article level metrics that shows mentions on Twitter, Facebook, in the popular press, plus other alternative metrics.

Access to Data

Our data policy, instituted in 2009, requires that all primary data and source code associated with the paper’s findings must be publicly available, either as supplemental information or in a public repository like Dryad, FigShare, and GenBank. Besides providing everything needed for replication, this policy allows your research to have the greatest possible impact, and to ensure that your findings will be used for years to come.

Not sure if your work is a good fit for our journals? We welcome pre-submission inquiries!
G3 Genome Reports
Succinct new format for publishing valuable WGS datasets

www.g3journal.org
Leadership opportunities
These are uncertain times for science. More than ever, we need to hear—and amplify—your voice. We’re expanding GSA programs for and by graduate students and postdocs. That means plenty of leadership opportunities for you to shape the GSA while gaining valuable experience.

Early career scientist steering committee
Newly appointed Program Director for Early Career Scientist Engagement Sonia Hall is building a steering committee led by graduate student and postdoc members. The group focuses on building relationships with the larger scientific community, engaging in advocacy efforts, and communicating the impact of fundamental discoveries originating in model organism research.

Career development
Make the most of GSA programs and resources:
• Funding for symposia organized by student and postdoc members
• Opportunities to write for the GSA’s blog Genes to Genomes
• Funding for travel to conferences and courses (DeLill Nasser Award)
• Workshops at GSA conferences on Navigating the Career Decision-Making Process
• Networking events and resources at GSA conferences
• Job listings at GeneticsCareers.org

Join GSA today!
http://www.genetics-gsa.org/join
Town & Country Resort & Convention Center
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>WEDNESDAY, March 29</td>
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<tr>
<td>3:00 pm - 6:30 pm</td>
<td>Speaker Ready Room</td>
<td>Terrace Salon 3</td>
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<tr>
<td>3:30 pm - 9:00 pm</td>
<td>Registration</td>
<td>Atlas Foyer</td>
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<tr>
<td>7:00 pm - 9:00 pm</td>
<td>Opening Session</td>
<td>Atlas Ballroom</td>
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<tr>
<td>9:15 pm - 11:00 pm</td>
<td>Mixer/Reception</td>
<td>Grand Exhibit Hall</td>
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<tr>
<td>THURSDAY, March 30</td>
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<tr>
<td>12:01 am - 12:00 am</td>
<td>Posters Open 24 Hours</td>
<td>Grand Exhibit Hall</td>
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<tr>
<td>7:00 am - 3:00 pm</td>
<td>Speaker Ready Room</td>
<td>Terrace Salon 3</td>
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<tr>
<td>7:15 am - 8:30 am</td>
<td>Publishing Tips &amp; Tricks Continental Breakfast</td>
<td>Golden Pacific</td>
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<tr>
<td>7:15 am - 8:30 am</td>
<td>Continental Breakfast</td>
<td>Golden Pacific Foyer</td>
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<tr>
<td>8:00 am - 5:00 pm</td>
<td>Registration</td>
<td>Atlas Foyer</td>
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<tr>
<td>8:30 am - 12:00 noon</td>
<td>Plenary Session 1</td>
<td>Atlas Ballroom</td>
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<tr>
<td>12:15 pm - 1:45 pm</td>
<td>&quot;Meet the Speakers&quot; Careers Lunch</td>
<td>Royal Palm Ballroom 4</td>
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<tr>
<td>1:00 pm - 5:00 pm</td>
<td>FlyBase Demo Room Open</td>
<td>Royal Palm Ballroom 1</td>
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<tr>
<td>2:00 pm - 4:00 pm</td>
<td>Exhibits &amp; Poster Presentations</td>
<td>Grand Exhibit Hall</td>
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<tr>
<td>4:30 pm - 6:30 pm</td>
<td>Concurrent Platform Sessions</td>
<td>Atlas Ballroom</td>
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<tr>
<td>7:45 pm - 9:45 pm</td>
<td>Concurrent Workshops</td>
<td>Golden Pacific</td>
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<td>8:00 pm - 11:00 pm</td>
<td>Exhibits Open &amp; Poster Viewing</td>
<td>Grand Exhibit Hall</td>
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<td>Atlas Ballroom</td>
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<td>7:30 pm - 9:00 pm</td>
<td>How I Fly (HIF) ScienceSlam</td>
<td>San Diego</td>
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<tr>
<td>9:00 pm - 11:00 pm</td>
<td>Exhibits &amp; Posters Cash Bar</td>
<td>Grand Exhibit Hall</td>
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<td>SATURDAY, April 1</td>
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<td>7:00 am - 3:00 pm</td>
<td>Speaker Ready Room</td>
<td>Terrace Salon 3</td>
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<td>7:30 pm - 10:00 pm</td>
<td>Techniques &amp; Technology Session</td>
<td>San Diego</td>
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<td>SUNDAY, April 2</td>
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<tr>
<td>8:30 am - 12:00 noon</td>
<td>Plenary Session II</td>
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