

58th Annual



Drosophila

Research Conference

March 29-April 2, 2017

GENETICS



Genetics Society of America

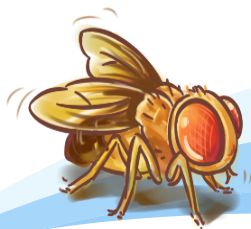




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58th Annual



Drosophila

Research Conference

March 29-April 2, 2017



Genetics Society of America

 **#DROS17**

The Genetics Society of America

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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
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Evolution & Populations Genetics

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**Evolution of Development/RNA
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**Intracellular Dynamics: Cytoskeleton,
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**Models of Human Disease:
Neurodegeneration & Neurological
Disorders**

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Sabi Abdul-Raouf Issa

**Models of Human Disease:
Developmental & Physiological
Disorders**

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Rene Galindo
Drew Stenesen

Neural Circuits & Behavior

Nilay Yapici
Gwyneth Card
Ryan Williamson

Neural Development & Physiology

Pelin Volkan
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Tetsuo Yasugi

**Patterning, Morphogenesis &
Organogenesis I**

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Leslie Pick
Anja Katzemich

Physiology, Metabolism & Aging

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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

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Complete abstract and speaker info, personalize your schedule, view venue maps, take notes and more.



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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.

GENETICS

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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SCHEDULE OF EVENTS

Schedule of Events

| WEDNESDAY, March 29 | | |
|----------------------|---|--------------------------------------|
| 9:00 am - 5:30 pm | PI Early Career Forum <i>Ticket required</i> | 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 <i>Moderator: Leanne Jones</i> | 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 <i>Sponsored by the GSA journals, GENETICS and G3: Genes Genomes Genetics</i> | Grand Exhibit Hall |
| THURSDAY, March 30 | | |
| 12:01 am - 12:00 am | Posters Open 24 Hours | Grand Exhibit Hall |
| 7:00 am - 3:00 pm | Speaker Ready Room | Terrace Salon 3 |
| 7:15 am - 8:30 am | Publishing Tips and Tricks Continental Breakfast | Golden Pacific Ballroom |
| 7:15 am - 8:30 am | Continental Breakfast | Golden Pacific Ballroom Foyer |

SCHEDULE OF EVENTS

| | | |
|----------------------|---|-------------------------|
| 8:00 am - 5:00 pm | Registration Open | Atlas Foyer |
| 8:30 am - 12:00 noon | Plenary Session 1 <i>Moderator:</i> Claude Desplan | Atlas Ballroom |
| 8:30 am | Image Award Presentation David Bilder | |
| 8:35 am | The <i>Drosophila-Spiroplasma</i> 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 <i>Ticket required</i> | Royal Palm Ballroom 4 |
| 1:00 pm - 5:00 pm | FlyBase Demo Room Open for Tutorials & Discussions <i>Presentations:</i> 2:00-2:15 pm: <i>New Features in FlyBase</i> 2:20-2:35 pm: <i>Reaching across the MODs: enhanced orthology data and future prospects</i> | Royal Palm Ballroom 1-3 |
| 2:00 pm - 4:00 pm | Exhibits Open & Poster Presentations <i>Presentations</i> 2:00 pm <i>EVEN Posters</i> 3:00 pm <i>ODD posters</i> | Grand Exhibit Hall |
| 4:30 pm - 6:30 pm | Concurrent Platform Sessions | |
| | Stem Cells <i>Moderators:</i> Gary Hime; Tina Mukarjee ; and Nicole Siddall | Town & Country |
| | Neural Circuits & Behavior <i>Moderators:</i> Nilay Yapici; Gwyneth Card; and Ryan Williamson | San Diego |
| | Models of Human Disease: Developmental & Physiological Disorders <i>Moderators:</i> Dirk Bohmann; Rene Galindo; and Drew Stenesen | Golden West |
| 7:45 pm - 9:45 pm | Concurrent Workshops | |

SCHEDULE OF EVENTS

| | | |
|----------------------------|--|--------------------------|
| | Integrating Research and Teaching at PUIs using <i>Drosophila melanogaster</i> as a model organism | Pacific Ballroom Salon 1 |
| | Wound Healing and Regeneration | Pacific Ballroom Salon 3 |
| | Feeding Behavior, Nutrition and Metabolism | Golden Ballroom |
| | Everything You Ever Wanted to Know About Sex | Pacific Ballroom Salon 2 |
| 8:00 pm - 11:00 pm | Exhibits Open & Poster Viewing | Grand Exhibit Hall |
| FRIDAY, March 31 | | |
| 12:01 am - 12:00 am | Posters Open 24/7 | Grand Exhibit Hall |
| 6:00 am - 11:00 pm | Networking Lounge <i>Select tables will be moderated during lunchtime.</i> | Grand Exhibit Hall |
| 7:00 am - 3:00 pm | Speaker Ready Room | Terrace Salon 3 |
| 8:15 am - 5:00 pm | Registration Open | Atlas Foyer |
| 8:30 am - 10:15 am | Concurrent Platform Sessions | |
| | Physiology, Metabolism & Aging I <i>Sponsored by National Institute on Aging</i> <i>Moderators: Daniel Promislow; Benoit Biteau; and Rebecca Kreipke.</i> | Town & Country |
| | Regulation of Gene Expression I <i>Moderators: Bob Johnston; Jack Bateman; Caity Anderson; and Kayla Viets</i> | San Diego |
| | Cell Biology & Signal Transduction I <i>Moderators: Jeff Axelrod; Mihaela (Ela) Serpe; and Qi Wang</i> | Golden West |
| 10:15 am - 10:45 am | Coffee Break | Atlas Foyer |
| 10:45 am - 12:30 pm | Concurrent Platform Sessions | |
| | Physiology, Metabolism & Aging II <i>Sponsored by National Institute on Aging</i> <i>Moderators: Daniel Promislow; Benoit Biteau; and Rebecca Kreipke</i> | Town & Country |
| | Regulation of Gene Expression II <i>Moderators: Bob Johnston; Jack Bateman; Caity Anderson; and Kayla Viets</i> | San Diego |
| | Cell Biology & Signal Transduction II <i>Moderators: Jeff Axelrod; Mihaela (Ela) Serpe;</i> | Golden West |

SCHEDULE OF EVENTS

| | | |
|---------------------------|--|---------------------------------|
| | and Qi Wang | |
| 1:00 pm - 6:00 pm | FlyBase Demo Room Open for Tutorials & Discussion <i>Presentations:</i> 3:45-4:00 pm: <i>New Features in FlyBase</i> 4:05-4:20 pm: <i>Reaching across the MODs: enhanced orthology data and future prospects</i> | Royal Palm Ballroom 1-3 |
| 1:45 pm - 3:45 pm | Concurrent Workshops | |
| | Navigating the Career Decision Making Process | Pacific Salon 7 |
| | Spotlight on Undergraduate Research | Pacific Ballroom Salon 1 |
| | Drosophila Microbiome | Pacific Ballroom Salon 3 |
| | Developmental Mechanics | Golden Ballroom |
| | Biogenic Amines and Behaviors | 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) <i>Moderators:</i> Artyom Kopp; Urs Schmidt-Ott; Nick Sokol; Emily Delaney; and Arthur Luhur | Town & Country |
| | Intracellular Dynamics: Cytoskeleton, Organelles, and Trafficking <i>Moderators:</i> Julie Brill; Yohanns Bellaiche; and Jean-Francois Groulx | San Diego |
| | Neural Development & Physiology <i>Moderators:</i> Pelin Volkan; Makoto Sato; and Tetsuo Yasugi | Golden West |
| 7:30 pm - 9:00 pm | How I Fly (HIF) ScienceSlam | San Diego |
| 9:00 pm - 11:00 pm | Exhibits Open & Poster Presentations <i>Open Poster Viewing with Cash Bar (authors encouraged to be at their board)</i> | Grand Exhibit Hall |
| SATURDAY, April 1 | | |
| 12:01 am - 3:30 pm | Posters Open <i>Close at 3:30 pm. Posters must be down by 4:00 pm</i> | Grand Exhibit Hall |
| 6:00 am - 4:00 pm | Networking Lounge <i>Select tables will be moderated during lunchtime</i> | Grand Exhibit Hall |

SCHEDULE OF EVENTS

| | | |
|----------------------------|---|---------------------------|
| 7:00 am - 3:00 pm | Speaker Ready Room | Terrace Salon 3 |
| 8:15 am - 3:00 pm | Registration and Book/T-Shirt Pick Up Open | Atlas Foyer |
| 8:30 am - 10:15 am | Concurrent Platform Sessions | |
| | Evolution & Populations Genetics I <i>Moderators:</i> Kristi Montooth; Noah Whiteman; and Andy Gloss | Town & Country |
| | Patterning, Morphogenesis & Organogenesis I <i>Moderators:</i> Jessica Treisman; Leslie Pick; and Anja Katzemich | San Diego |
| | Gametogenesis <i>Moderators:</i> Minx Fuller; Alana O'Reilly; and Eric Lee | Golden West |
| 10:15 am - 10:45 am | Coffee Break | Atlas Foyer |
| 10:45 am - 12:30 pm | Concurrent Platform Sessions | |
| | Evolution & Populations Genetics II <i>Moderators:</i> Kristi Montooth; Noah Whiteman; and Andy Gloss | Town & Country |
| | Patterning, Morphogenesis & Organogenesis II <i>Moderators:</i> Jessica Treisman; Leslie Pick; and Anja Katzemich | San Diego |
| | Cell Death & Immunity <i>Moderators:</i> Kim McCall; Henri Jasper; and Imilce Rodriguez-Fernandez | Golden West |
| 1:30 pm - 3:30 pm | Exhibits Open & Poster Presentations <i>Presentations</i> <i>1:30 pm ODD Posters</i> <i>2:30 pm EVEN posters</i> | Grand Exhibit Hall |
| 4:00 pm - 6:00 pm | Concurrent Platform Sessions | |
| | Chromatin & Epigenetics <i>Moderators:</i> Melissa Harrison; Mia Levine; and Danielle Hamm | Town & Country |
| | Cell Division & Growth Control <i>Moderators:</i> Don Fox; Sharon Gorski; and Jessica Sawyer | San Diego |
| | Models of Human Disease: Neurodegeneration & Neurological Disorders <i>Moderators:</i> Serge Birman; Doris Kretzschmar; and Sabi Abdul-Raouf Issa | Golden West |
| 7:30 pm - 10:00 pm | Techniques & Technology Platform Session <i>Moderators:</i> Hugo Bellen; Julie Simpson; and Oguz Kanca | San Diego |

SCHEDULE OF EVENTS

| SUNDAY, April 2 | | |
|-----------------------------|--|-----------------------|
| 8:30 am - 12:00 noon | Plenary Session II <i>Moderator: Amy Kiger</i> | Atlas Ballroom |
| 8:30 am | Poster Awards | |
| 8:35 am | Asymmetric signaling endosomes in asymmetric division <i>Sponsored by EMBO</i> Marcos Gonzalez-Gaitan | |
| 9:05 am | Why the pause? Catching RNA polymerase II <i>in vivo</i> 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 <i>Drosophila</i> 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:

| | |
|---------------------|-------------------|
| Wednesday, March 29 | 3:00 pm – 7:30 pm |
| Thursday, March 30 | 7:00 am – 5:00 pm |
| Friday, March 31 | 7:00 am – 5:00 pm |
| Saturday, April | 7:00 am – 5:00 pm |

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:

| | |
|---------------------|---|
| Wednesday, March 29 | 9:00 pm – 11:00 pm |
| Thursday, March 30 | 1:30 pm – 4:30 pm |
| Friday, March 31 | 2:00 pm – 4:00 pm 8:00 pm - 11:00 pm |
| Saturday, April 1 | 1:00 pm – 4:00 pm |

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

| | | |
|--------------------|--------------------|--|
| Thursday, March 30 | 2:00 pm – 3:00 pm | Even-numbered posters |
| | 3:00 pm – 4:00 pm | Odd-numbered posters |
| Friday, March 31 | 9:00 pm – 11:00 pm | Not required but recommended for authors to be present |
| Saturday, April 1 | 1:30 pm – 2:30 pm | Odd-numbered posters |
| | 2:30 pm – 3:30 pm | Even-numbered posters |

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:

| | |
|---------------------|-------------------|
| Wednesday, March 29 | 3:30 pm – 9:00 pm |
| Thursday, March 30 | 8:00 am – 5:00 pm |
| Friday, March 31 | 8:15 am – 5:00 pm |
| Saturday, April 1 | 8:15 am – 3:00 pm |

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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<https://dgrc.bio.indiana.edu>

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Booth 314

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Booth 213

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Come explore the resources and opportunities that GSA has to offer; meet members of the GSA staff and leadership; and find out about publishing in GENETICS and G3: Genes|Genomes|Genetics.

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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 Bachtrog**

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**

NOTES

Thursday, March 30 4:30 PM – 6:30 PM

Location: Town & Country

Stem Cells

Co- **Gary Hime**, Univ. of Melbourne, Australia, and
Moderators: **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 University, Ithaca, NY, and
Moderators: **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

NOTES

Location: Golden West

**Models of Human Disease:
Developmental and Physiological
Disorders**

Co- **Dirk Bohmann**, University of
Moderators: 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**

PLENARY AND PLATFORM SESSIONS

Friday, March 31 8:30 AM – 10:15 AM

Location: Town & Country

Physiology, Metabolism and Aging I

Co- **Daniel Promislow**, Univ. of

Moderators: Washington, Seattle, and

Benoit Biteau, Univ. of

Rochester, NY, and

Rebecca Kreipke, Univ. of

Washington, Seattle

25 - 8:30 Regulation of adult lipid homeostasis by *Drosophila Estrogen-Related Receptor* **Katherine Beebe**

26 - 8:45 Sex differences in the regulation of triacylglycerol breakdown during starvation **Elizabeth Rideout**

27 - 9:00 Restoration of Metabolic Rhythms Ameliorates Obesity-Induced Progressive Striated Muscle Dysfunction in *Drosophila* **Girish Melkani**

28 - 9:15 Meep is a novel regulator of insulin signaling and diet-induced diabetes **Matthew Pereira**

29 - 9:30 Cell competition promotes developmental stability through a Dilp8/Lgr3-dependent mechanism **Laura Johnston**

30 - 9:45 Torso-like interacts with the insulin signalling pathway to regulate growth and developmental timing **Coral Warr**

31 - 10:00 Maintenance of proteostasis by an effector caspase. **Sharon Gorski**

Friday, March 31 8:30 AM – 10:15 AM

Location: San Diego

Regulation of Gene Expression I

Co- **Bob Johnston**, John's

Moderators: 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

32 - 8:30 Coexpressed gene neighborhoods promote expression of newly created genes through chromatin architecture sharing in *Drosophila* **Kirill Borziak**

33 - 8:45 Natural variation in color perception in flies **Caitlin Anderson**

34 - 9:00 Translational regulation by ATF4-induced 4E-BP is essential for the innate immune response **Deepika Vasudevan**

35 - 9:15 Positive and negative functions of Polycomb binding sites in the *vestigial* gene region **Kami Ahmad**

36 - 9:30 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 **Albert Erives**

37 - 9:45 Dual Readout of Regulatory Information Is a Common Feature of Transcriptional Silencers **Stephen Gisselbrecht**

38 - 10:00 A double assurance mechanism controls enhancer-promoter specificity at the *hunchback* locus **Jia Ling**

Friday, March 31 8:30 AM – 10:15 AM

Location: Golden West

Cell Biology and Signal Transduction I

Co- **Jeff Axelrod**, Stanford

Moderators: Univ., CA, and

Mihaela (Ela) Serpe,
NIH/NICHHD, Bethesda, MD,
and

Qi Wang, NIH/NICHHD,
Bethesda, MD

NOTES

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**

Friday, March 31 10:45 AM – 12:30 PM
Location: Town & Country

Physiology, Metabolism and Aging II

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

46 - 10:45 Pharmaceutical inhibition of MEK/ERK cascade alleviates tumor-induced wasting effects **Wei Song**

47 - 11:00 Sestrin is required for exercise adaptations of flies and mice **Robert Wessells**

48 - 11:15 Key molecular regulators maintain metabolic and development balance during temperature fluctuations **Steven Kuntz**

49 - 11:30 Reversal of Hyperactive Wg Signaling-Dependent Fat Body Defects by Peptide Boronic Acids **Jun-Yuan Ji**

50 - 11:45 Bacterial Vitamin B6 Metabolism Promotes *Drosophila melanogaster* Lifespan on Calorie-Rich Diet **Melinda Koyle**

51 - 12:00 An Autonomous Metabolic Role for Split Ends in *Drosophila melanogaster* **Kelsey Hazegh**

52 - 12:15 The Gut as an Adaptable Interface: from Genetic Architecture to Physiological Consequences of Adaptive Growth of the *Drosophila* Gut. **Alessandro Bonfini**

Friday, March 31 10:45 AM – 12:30 PM
Location: San Diego

Regulation of Gene Expression II

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

53 - 10:45 The hormone-induced transcription factor E93 regulates temporal specific gene expression by controlling DNA regulatory element accessibility **Daniel McKay**

54 - 11:00 Properties of enhancer RNA during embryonic development **Olga Mikhaylichenko**

55 - 11:15 Redundant GA-binding early transcription factors regulate the *Drosophila* histone locus body **Leila Rieder**

56 - 11:30 Quantitative and predictive models of *even skipped* and *rhomboid* enhancers targeted by engineered transcription factors in the early *Drosophila* embryo **Garth Iisley**

57 - 11:45 Histones Abundance Adjusts the Timing of the Mid-Blastula Transition in *Drosophila* **Amanda Amodeo**

58 - 12:00 Zelda binding sites as quantitative regulators of target gene transcription **Christine Rushlow**

59 - 12:15 Intra-nuclear concentration and DNA-binding kinetics of Zelda defines zygotic genome activation in *Drosophila* **Dimitrios Papadopoulos**

Friday, March 31 10:45 AM – 12:30 PM
Location: Golden West

NOTES

Cell Biology and Signal Transduction II

Co- **Jeff Axelrod**, Stanford
Moderators: Univ., CA, and
Mihaela (Ela) Serpe,
NIH/NICHHD, Bethesda, MD,
and
Qi Wang, NIH/NICHHD,
Bethesda, MD

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

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

62 - 11:15 Adenosine receptor signalling contributes to Grindelwald-induced JNK signalling in *scribbled* 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**

Friday, March 31 4:30 PM – 6:30 PM

Location: Town & Country

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

Co- **Artyom Kopp**, UC Davis,

Moderators: 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- **Julie Brill**, The Hospital for

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

NOTES

83 - 4:30 Social experience and hormone signaling modulate *fru^M* expression in the adult olfactory system **Songhui Zhao**

84 - 4:45 The Role of Highly Conserved miRNAs in Tuning Synaptogenesis through Target Regulation in Specific Tissue Compartments **Elizabeth McNeill**

85 - 5:00 Sidekick is required to establish the circuitry for visual motion detection in *Drosophila* **Jessica Treisman**

86 - 5:15 Frazzled promotes growth cone attachment at the source of a Netrin gradient in the *Drosophila* visual system **Orkun Akin**

87 - 5:30 Targeting without a target: How postsynaptic neurons guide photoreceptors in *Drosophila* visual map formation **Egemen Agi**

88 - 5:45 *slit* is required for proper lch5 chordotonal neuron morphology and migration in the *Drosophila* embryonic PNS **Madison Gonsior**

89 - 6:00 Depolarization-dependent hyperacidification of dopamine synaptic vesicles is mediated by VGLUT **Zachary Freyberg**

90 - 6:15 Draper Expression in Cortex Glia Is Required for Dead Neural Cell Removal in the Developing *Drosophila* Optic Lobe **Ryosuke Nakano**

PLENARY AND PLATFORM SESSIONS

Saturday, April 1 8:30 AM – 10:15 AM

Location: Town & Country

Evolution and Populations Genetics I

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

91 - 8:30 Elucidating Recent Gene Flow Across *Drosophila* Species Using a Novel Machine Learning Approach **Daniel Schrider**

92 - 8:45 Reinforcement of conspecific sperm precedence weakens sexual selection in sympatric populations of *Drosophila* **Dean Castillo**

93 - 9:00 Unorthodox transmission modes of endosymbionts in hybrids and the symbiotic origin of speciation **Wolfgang Miller**

94 - 9:15 Global Patterns of Local Ancestry in *Drosophila melanogaster* **Russ Corbett-Detig**

95 - 9:30 Non-neutral species-specific gene death causes hybrid male sterility in *Drosophila* **Emily Landeen**

96 - 9:45 Genetic epistasis within regulatory regions acts to buffers the effect of segregating mutations during embryonic development **Mattia Forneris**

97 - 10:00 Contingency and convergence in the evolution of regulatory sequence: Dosage compensation in *Drosophila* **Christopher Ellison**

Saturday, April 1 8:30 AM – 10:15 AM

Location: San Diego

Patterning, 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**

Saturday, April 1 8:30 AM – 10:15 AM

Location: Golden West

Gametogenesis

Co- **Minx Fuller**, Stanford Univ.,

Moderators: CA, and

Alana O'Reilly, Fox Chase Cancer Center, Philadelphia, PA, and

Eric Lee, Fox Chase Cancer Center, Philadelphia, PA

NOTES

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

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

107 - 9:00 Zinc-Finger Transcription Factor Hindsight Regulates Ovation Competency of *Drosophila* Follicles **Lylah Deady**

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

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

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* **Jaclyn Bubnell**

111 - 10:00 Micromanagement of stem cell proliferation by the *Drosophila* testis niche **Christian Boekel**

Saturday, April 1 10:45 AM – 12:30 PM

Location: Town & Country

Evolution and Populations Genetics II

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

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

**Patterning, Morphogenesis and
Organogenesis II**

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

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**

Saturday, April 1 10:45 AM – 12:30 PM

Location: Golden West

Cell Death and Immunity

Co- **Kim McCall**, Boston Univ.,

Moderators: MA, and

Henri Jasper, Buck Institute
for Research on Aging city,
state, and

**Imilce Rodriguez-
Fernandez**, Buck Institute for
Research on Aging, Novato,
CA

NOTES

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 TGFB 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**

PLENARY AND PLATFORM SESSIONS

Saturday, April 1 4:00 PM – 6:00 PM

Location: Town & Country

Chromatin and Epigenetics

Co- **Melissa Harrison**, Univ of

Moderators: Wisconsin, Madison, and
Mia Levine, Univ. of
Pennsylvania, Philadelphia,
and

Danielle Hamm, Univ of
Wisconsin, Madison

133 - 4:00 Phosphorylation of Threonine 11 in Histone H3 marks insulator elements and counteracts *Polycomb* dependent H3 Lysine 27 methylation **Alf Herzig**

134 - 5:15 Defining the Role of Heterochromatin and Insulator Partner Protein 1 (HIP1) in Chromatin Insulator Function and Genome Replication **Emily Stow**

135 - 4:15 En route to a signature of *trans* inter-homolog pairing in haplotype-resolved genomes **Jelena Erceg**

136 - 4:30 Zelda and GAGA factor likely function to define the chromatin landscape necessary for genome activation **Katharine Schulz**

137 - 4:45 Repetitive sequences on the X chromosome guide dosage compensation **Victoria Meller**

138 - 5:00 Interaction between co-activators and PRC1 during development: A key transitional state? **Hyuck-Joon Kang**

139 - 5:30 Modulating *cis-trans*-promoter competition in *Drosophila* **Jack Bateman**

140 - 5:45 Argonaute2 cooperates with LaminB to repress transcription at Lamin-associated domains in *Drosophila melanogaster* **Ezequiel Nazer**

Saturday, April 1 4:00 PM – 6:00 PM

Location: San Diego

Cell Division and Growth Control

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

Moderators: Medical Center, Durham,
NC, and

Sharon Gorski, Simon
Fraser Univ. & BC Cancer
Agency, Vancouver, Canada,
and

Jessica Sawyer, Duke Univ.
Medical Center, Durham, NC

141 - 4:00 Why there are no crossovers on chromosome 4 (and how to make them) **Jeff Sekelsky**

142 - 4:15 Novel role of nuclear periphery and nuclear 'shuttle' proteins in heterochromatic double strand break repair. **Taehyun Ryu**

143 - 4:30 Switching Injury Response: Polyploidy Associated Hypertrophy as An Alternative to Compensatory Proliferation **Erez Cohen**

144 - 4:45 Mitotic gene expression dictates the mechanism of tissue repair in *Drosophila* **Janelle Grendler**

145 - 5:00 Delineating the Mechanism of Compensatory Cellular Hypertrophy in Follicular Epithelium **Sarayu Row**

146 - 5:15 Large genetic screen identifies FGF signaling in the trachea as a regulator of body size in *Drosophila* **Anne Jørgensen**

147 - 5:30 The Mechanism of Asymmetric Cell Division **Tri Pham**

148 - 5:45 Interactions between Cell Division and Epithelial Cell Polarity **Gayaan Jeyanathan**

Saturday, April 1 4:00 PM – 6:00 PM

NOTES

Location: Golden West

**Models of Human Disease:
Neurodegeneration and Neurological
Disorders**

Co- **Serge Birman**, ESPCI,
Moderators: 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**

PLENARY AND PLATFORM SESSIONS

Saturday, April 1 7:30 PM – 10:00 PM

Location: San Diego

Techniques and Technology Platform Session

Co- **Hugo Bellen**, Baylor
Moderators: 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**

164 - 9:15 Whole-animal functional and developmental imaging with multi-view light-sheet microscopy **William Lemon**

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**

NOTES

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.

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.

Friday, March 31 1:45 PM – 3:45 PM

Location: Golden Ballroom

Developmental Mechanics

Organizers: **Rodrigo Fernandez-Gonzalez**, University of Toronto, and
Guy Tanentzapf, University of British Columbia

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.

Friday, March 31 1:45 PM – 3:45 PM

Location: Pacific Ballroom Salon 2

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

Drosophila is widely used as a model system for studying neurological disorders and neuronal mechanisms involved in behavioral regulation. This workshop welcomes a diverse group interested in discussing the role of biogenic amines in various behaviors. The goal of this workshop is to provide a forum for investigators working on biogenic amines to encourage discussions and collaborations.

Posters

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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**.

168C Characterization of a novel actin regulator, HtsRC **Juli Gerdes**.

169A Molecular guillotine: a novel approach to inhibit kinesin motor activity **Zhiyi Lv**.

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 cellularization of the early *Drosophila* embryo. **Elliott Holt**.

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

179B Identification of proteins required for prefusion complex dissolution. **Michaela Papendieken**.

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 Wappner**.

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 Moehلمان**.

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 Devergne**.

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 spatio-temporal profiling of Shaggy protein isoforms revealed by CRISPR genome engineering **Dagmara Korona**.

198C Building a functional regulator of Wg signaling: The β -catenin destruction complex **Kristina Schaefer**.

199A The exon junction complex regulates the splicing of cell polarity gene *dlg1* 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 **Chetan Chandra Joshi**.

215B Search for a novel small molecule inhibitor of PLC γ **Chitra Naidu**.

216C Capicua preferentially binds to dually phosphorylated ERK by recognizing altered conformation of the hydrophobic pocket of the ERK DRS domain **Sayantane 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 *canB2*, 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**.

227B Overactivation of innate immune processes disrupts muscle homeostasis in *Drosophila melanogaster* **Nicole Green**.

228C The organization & development of tricellular junctions in *Drosophila* epithelia **Till Matzat**.

229A Dissecting the interaction between APC2 and ApepP in regulation of Beta-catenin protein levels **Hannah Kolev**.

Cell Division and Growth Control

230B The Role of Actin-Microtubule Crosslinker Shortstop in Cell Division **Evan Dewey**.

231C Function of the Iron-sulfur Cluster Assembly Protein Ciao1 in Growth Regulation in *Drosophila* **Jean Jung**.

232A Differential regulation of Cyclin E by Yorkie-Scalloped signaling in organ development **Zhiqiang Shu**.

233B Genetic Control of Tissue-Specific Growth in the Larval Trachea of *Drosophila* **Kayla Wilson**.

234C Spindle Orientation: How Complex is the Complex? **Daniel Bergstralh**.

235A Break-induced replication in the *Drosophila* germline **Travis Karg**.

236B Investigating the Mcm10/RecQ4 genetic interaction in *Drosophila* Melanogaster **Christopher Knuckles**.

237C FLYINGLOW: biological effects of protracted low radiation doses in *Drosophila melanogaster* **Giovanni Cenci**.

238A Highways for repair: nuclear actin and myosin drive the relocalization of heterochromatic DNA damages to the nuclear periphery during homologous recombination. **Irene Chiolo**.

239B Impact of chromatin modifications on heterochromatic double strand break repair **laetitia Delabaere**.

240C Utilization of transient secondary-structure forming sequences during alternative end joining repair of double-strand breaks **Terrence Hanscom**.

241A Dicentric Ring-X chromosomes have clustered breakpoints indicating fragile regions. **Hunter Hill**.

242B The role of DmBlm in repair of simple DNA double-strand breaks **Jeannine LaRocque**.

243C Cell cycle re-entry in the optic lobes of the adult *Drosophila* brain **Shyama Nandakumar**.

244A Role of Polypliod Glial Cells in the Peripheral Nervous System **Laura Frawley**.

245B Variant cell cycles ensure a functional blood-brain barrier in *Drosophila* **Jessica Von Stetina**.

246C *Jim Iovell (Iov)* is a Regulator of Larval Endopolypliod Growth **Fanli Zhou**.

247A Investigating the role of inflammatory cytokines on tumor progression and metastasis in a *Drosophila* cancer model **Kirti Snigdha**.

248B The Hippo Pathway Acts as a Gatekeeper to Restrict EGFR/Ras Driven Tumorigenesis **Fisun Hamaratoglu**.

249C A non-apoptotic function of the caspase Ice regulates *Drosophila* tracheal length downstream of Hippo signaling **Saoirse McSharry**.

250A Warts signaling coordinates organ growth with body size through regulation of ecdysone **Kim Rewitz**.

251B Maintenance of tissue homeostasis by mechanical stress sensing **Kenta Morimoto**.

252C *Drosophila* imaginal disc growth factor 2 is involved in energy balance, detoxification, and defense **Michal Zurovec**.

Cell Death and Immunity

253A IAP-antagonist expression is not sufficient to induce caspase activation during *Drosophila* endogenous cell death **Sarah Neuman**.

254B Using DGRP sequenced genomes to identify modifiers of cell death in *Drosophila* eyes **Jacob Khoussine**.

255C Effect of Adenosine Signaling on Apoptosis in Imaginal Disc Cells **Lucie Kucerova**.

256A *spargel/dPGC-1* knockdown protects epithelial cell death in the wings like a proapoptotic gene. **Tomilowo Abijo**.

257B ABC Transporters are required for nurse cell corpse clearance in *Drosophila melanogaster*. **Clarissa Santos**.

258C Identification of novel regulators of apoptosis **Alicia Shields**.

259A Cell Cycle Regulation of Apoptosis in *Drosophila melanogaster* **Ananya Chakravarti**.

260B Overgrowth promoting role of *Drosophila* macrophages **Neha Diwanji**.

261C Role of hemocyte autophagy in modulating inflammatory responses to infection in the fat body **Mobina Roshandell**.

262A Hemocytes promote a local Antimicrobial Peptide response in the Respiratory Epithelium and Fat Body of adult *Drosophila* **Rowan Baginsky**.

263B The *Drosophila* Chitinase-Like Protein IDGF3 is involved in Protection against Nematodes and in Wound Healing **Ulrich Theopold**.

264C *miR-34* Modulates Innate Immunity and Ecdysone Signaling in *Drosophila* **XIAOPENG XIONG**.

265A Using the *Drosophila* Genetic Reference Panel to identify novel genes utilized in the immune response to the West Nile virus subtype Kunjin virus **Laura Ahlers**.

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**.

267C Pathogenicity of Nora virus in Germ-free *Drosophila melanogaster* **Makayla Nemecek**.

268A Precise Regulation of Developmental Apoptosis in *Drosophila* Neural Stem Cells **Antoine Borensztein**.

269B Identifying Enhancers in a Novel Cluster of Immune-Responsive Genes in *Drosophila melanogaster* **Marley Hilleger**.

270C Role of brain-specific NF- κ B-dependent immunity in *Drosophila* lifespan determination and age-related neurodegeneration **Stanislava Chtarbanova**.

271A Physical interactions between larval hemocytes and fat body are affected by infection and nutrient status, with regulation of the interaction depending on different pathways in the two tissues, as well as on metabolic and immune status of the animal **Eniola Ogundipe**.

272B Dynamic interplay between bacterial growth and the host immune response generates a stochastic outcome of infection **Nicolas Buchon**.

273C Investigating the impact of chronic infection on male reproduction in *Drosophila melanogaster* **Moria Chambers**.

274A How EF, a cAMP-inducing toxin from *Bacillus anthracis*, blocks Rab11-dependent trafficking **Annabel Guichard**.

275B *Coxiella burnetii* infection in *Drosophila melanogaster*: key factors in pathogenesis **Zachary Howard**.

276C Comparative Transcriptomics of the *D. melanogaster* Response to Bacterial Infection **Brian Lazzaro**.

277A The transcription factor *CrebA* promotes disease tolerance upon bacterial infection **Katia Troha**.

Physiology, Metabolism & Aging

278B Trade-offs between fecundity and survival in starvation-selected fly populations **Tammara Beeghly**.

279C Physiological Evolution in Starvation-Selected *Drosophila* **Allen Gibbs**.

280A Hypergravity, Endoplasmic Reticulum Stress, and the Unfolded Protein Response in *Drosophila*. **Ravikumar Hosamani**.

281B The effects of altered lactate dehydrogenase expression on aging in *Drosophila melanogaster* **Dani Long**.

282C Exposing Adult Flies to Daily Intoxicating Doses of Ethanol Affects their Midgut Morphology and the Tolerance of their Progeny to the Drug **Mariano Loza-Coll**.

283A The control of fat storage by splicing factor 2 (SF2) in *Drosophila* **Ryan Bennick**.

284B Evaluation of the effect of resveratrol on genotoxicity of nicotine, by wing spot test in *Drosophila melanogaster* **Mauro Magaña-Acosta**.

285C The regulation of lipid storage by TRA and TRA2 in *Drosophila* **Cezary Mikoluk**.

286A Genetics and plasticity of physiological performance in *Drosophila* across development **Kristi Montooth**.

287B Constructing a Graphical Model of the *Drosophila melanogaster* metabolome **Vishal Oza**.

288C Functional analysis of the DHR78 nuclear receptor in adults **Sophia Praggastis**.

289A Closing the Genotype-Phenotype Gap with Metabolomics **Daniel Promislow**.

- 290B** Unique Lifestyle and Metabolism of *Drosophila lutzii*, a Floridosa Species Group Fly **Juan Riesgo-Escovar**.
- 291C** The microRNA *mir-33* is a regulator of lipid homeostasis in *D. melanogaster* **Dan Fu Ruan**.
- 292A** MicroRNAs controlling body fat content **Jin Seo**.
- 293B** The *Drosophila* HNF4 nuclear receptor is required in the oenocytes for cuticular integrity and adult survival **Gilles Storelli**.
- 294C** Biochemical and physiological analyses of *Drosophila* fat body and heart during overnutrition **Bryon Tuthill**.
- 295A** *Mondo/dChREBP* functions in the Dsk neurons to regulate nutrient storage in *Drosophila* **Niahz Wince**.
- 296B** Microbial quantity contributes to *Drosophila* nutrition. **Erin Keebaugh**.
- 297C** Localization of histamine to specific regions of the gut in *Drosophila melanogaster*. **Daniel Beachnau**.
- 298A** An Anti-Stress Command Peptide Regulating Reproduction in *Drosophila melanogaster* **Matthew Meiselman**.
- 299B** Roles of *Drosophila* Lipin in the Control of Normal Development **Xeniya Rudolf**.
- 300C** Juvenile hormone mimic methoprene regulates the ecdysone response by modifying Ecdysone Receptor function **Rebecca Spokony**.
- 301A** The Effect of Gut Microiota on Starvation Resistance. **Rachel Hughes**.
- 302B** Mechanisms Regulating Tolerance to Oxidative Stress in *Drosophila melanogaster* **Dan Zhou**.
- 303C** Mitonuclear interactions alter the impact of diet restriction on starvation resistance, and aging in *Drosophila* **Brian Franklin**.
- 304A** Regulation of mitochondrial function by the Condensin II complex **Michelle Longworth**.
- 305B** Sexual Asymmetry in dTOR Regulation of Mitochondria **John Santiago**.
- 306C** Epigenetic effects of aging on the germline of *Drosophila melanogaster* **Alexandra Erwin**.
- 307A** Gut Bacteria Supplements – Best Friends? **Kaitlyn Grayson**.
- 308B** Neuronal expression of an evolutionary conserved metallophosphodiesterase regulates *Drosophila* lifespan. **Kriti Gupta**.
- 309C** Proteasome Subunit Overexpression Reduces Protein Aggregates and Extends Lifespan **Jae Hur**.
- 310A** Intestinal Microbes Shorten The Host Lifespan With Increased Intestinal Permeability In *Drosophila melanogaster* **Hye-Yeon Lee**.
- 311B** Escargot is Required for Accumulation of Atypical Intestinal Cells Caused by Aging **Charles Choi**.
- 312C** Two Cytochrome p450s Essential for Peritrophic Matrix Synthesis **Sean Conway**.
- 313A** The effect of male and female genotype n post-mating gut remodeling in female *Drosophila melanogaster* **Melissa White**.
- 314B** Tissue-specific insulin signaling mediates female sexual appeal **Tatyana Fedina**.
- 315C** Innate immune signaling in the *Drosophila* larval fat body disrupts nutrient storage **Brittany Martinez**.
- 316A** Activin-Beta/TGF-Beta signaling in skeletal muscle controls insulin/TOR signaling, metabolism, and body size **Lindsay Moss-Taylor**.
- 317B** Fat body insulin signaling and the immune response **Laura Musselman**.
- 318C** High fat diet-induced TGF- β /Gbb signaling provokes insulin resistance through the tribbles expression **Kweon Yu**.
- 319A** Functional study of P450 enzymes controlling development in *Drosophila* **Ruoying Lu**.
- 320B** The microbiota affects Alcohol Dehydrogenase protein levels and the response to alcohol **Malachi Blundon**.
- 321C** A Neuroendocrine Network Connecting Gustatory Signals to Developmental Timing in *Drosophila* **Mikkal Blick**.
- 322A** GWAS as a tool for identifying exercise response genes in *Drosophila melanogaster* **Louis Watanabe**.
- 323B** Host metabolism in determining microbiome composition using *Drosophila* mitonuclear introgression lines **Bianca Brown**.
- 324C** Characterization of female reproductive tract secretions in *Drosophila melanogaster* **Caitlin McDonough**.

Gametogenesis

325A Molecular Analysis of the Role of SOLO in Meiotic Sister Chromatid Cohesion **Elsie Adams**.

326B Role of *drop dead* in Spermatogenesis **Anika Benske**.

327C Characterizing the role of *Ecdysone induced protein 74EF* in the length of sperm in males and seminal receptacle in females of *D. melanogaster* **Sharif Chebbo**.

328A Two novel related genes required for post-meiotic mitochondrial shaping in *Drosophila* spermatogenesis **Katherine Copenhagen**.

329B Mitochondrial-Nuclear Interactions and the Thermal Sensitivity of Male Reproduction **Abhilesh Dhawanjewar**.

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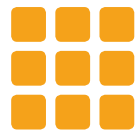
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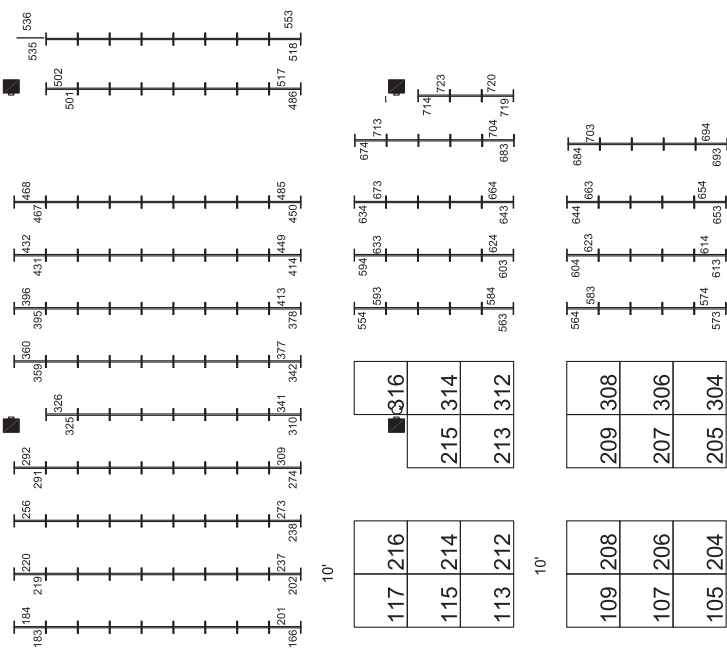


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NOTES:

Networking Lounge

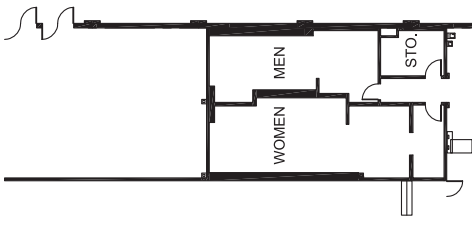
Late Abstracts



Posters & Exhibits

ENTRANCE

Grand Exhibit Hall



10'

STAIR 1

DN.

STAIR 2



Town & Country Resort & Convention Center

ABBREVIATED SCHEDULE OF EVENTS
(full schedule pages 3-8)

| WEDNESDAY, March 29 | | |
|----------------------------|--|-----------------------|
| 3:00 pm - 6:30 pm | Speaker Ready Room | Terrace Salon 3 |
| 3:30 pm - 9:00 pm | Registration | Atlas Foyer |
| 7:00 pm - 9:00 pm | Opening Session | Atlas Ballroom |
| 9:15 pm - 11:00 pm | Mixer/Reception | Grand Exhibit Hall |
| THURSDAY, March 30 | | |
| 12:01 am - 12:00 am | Posters Open 24 Hours | Grand Exhibit Hall |
| 7:00 am - 3:00 pm | Speaker Ready Room | Terrace Salon 3 |
| 7:15 am - 8:30 am | Publishing Tips & Tricks Continental Breakfast | Golden Pacific |
| 7:15 am - 8:30 am | Continental Breakfast | Golden Pacific Foyer |
| 8:00 am - 5:00 pm | Registration | Atlas Foyer |
| 8:30 am - 12:00 noon | Plenary Session 1 | Atlas Ballroom |
| 12:15 pm - 1:45 pm | "Meet the Speakers" Careers Lunch | Royal Palm Ballroom 4 |
| 1:00 pm - 5:00 pm | FlyBase Demo Room Open | Royal Palm Ballroom 1 |
| 2:00 pm - 4:00 pm | Exhibits & Poster Presentations | Grand Exhibit Hall |
| 4:30 pm - 6:30 pm | Concurrent Platform Sessions | Atlas Ballroom |
| 7:45 pm - 9:45 pm | Concurrent Workshops | Golden Pacific |
| 8:00 pm - 11:00 pm | Exhibits Open & Poster Viewing | Grand Exhibit Hall |
| FRIDAY, March 31 | | |
| 12:01 am - 12:00 am | Posters Open 24 Hours | Grand Exhibit Hall |
| 7:00 am - 3:00 pm | Speaker Ready Room | Terrace Salon 3 |
| 8:15 am - 5:00 pm | Registration | Atlas Foyer |
| 8:30 am - 12:30 pm | Concurrent Platform Sessions | Atlas Ballroom |
| 1:00 pm - 6:00 pm | FlyBase Demo Room Open | Royal Palm Ballroom 1 |
| 1:45 pm - 3:45 pm | Concurrent Workshops | Golden Pacific |
| 2:00 pm - 4:00 pm | Exhibits Open and Poster Viewing | Grand Exhibit Hall |
| 4:30 pm - 6:30 pm | Concurrent Platform Sessions | Atlas Ballroom |
| 7:30 pm - 9:00 pm | How I Fly (HIF) ScienceSlam | San Diego |
| 9:00 pm - 11:00 pm | Exhibits & Posters <i>Cash Bar</i> | Grand Exhibit Hall |
| SATURDAY, April 1 | | |
| 7:00 am - 3:00 pm | Speaker Ready Room | Terrace Salon 3 |
| 8:30 am - 12:30 pm | Concurrent Platform Sessions | Atlas Ballroom |
| 1:30 pm - 3:30 pm | Exhibits & Poster Presentations | Grand Exhibit Hall |
| 4:00 pm - 6:00 pm | Concurrent Platform Sessions | Atlas Ballroom |
| 7:30 pm - 10:00 pm | Techniques & Technology Session | San Diego |
| SUNDAY, April 2 | | |
| 8:30 am - 12:00 noon | Plenary Session II | Atlas Ballroom |