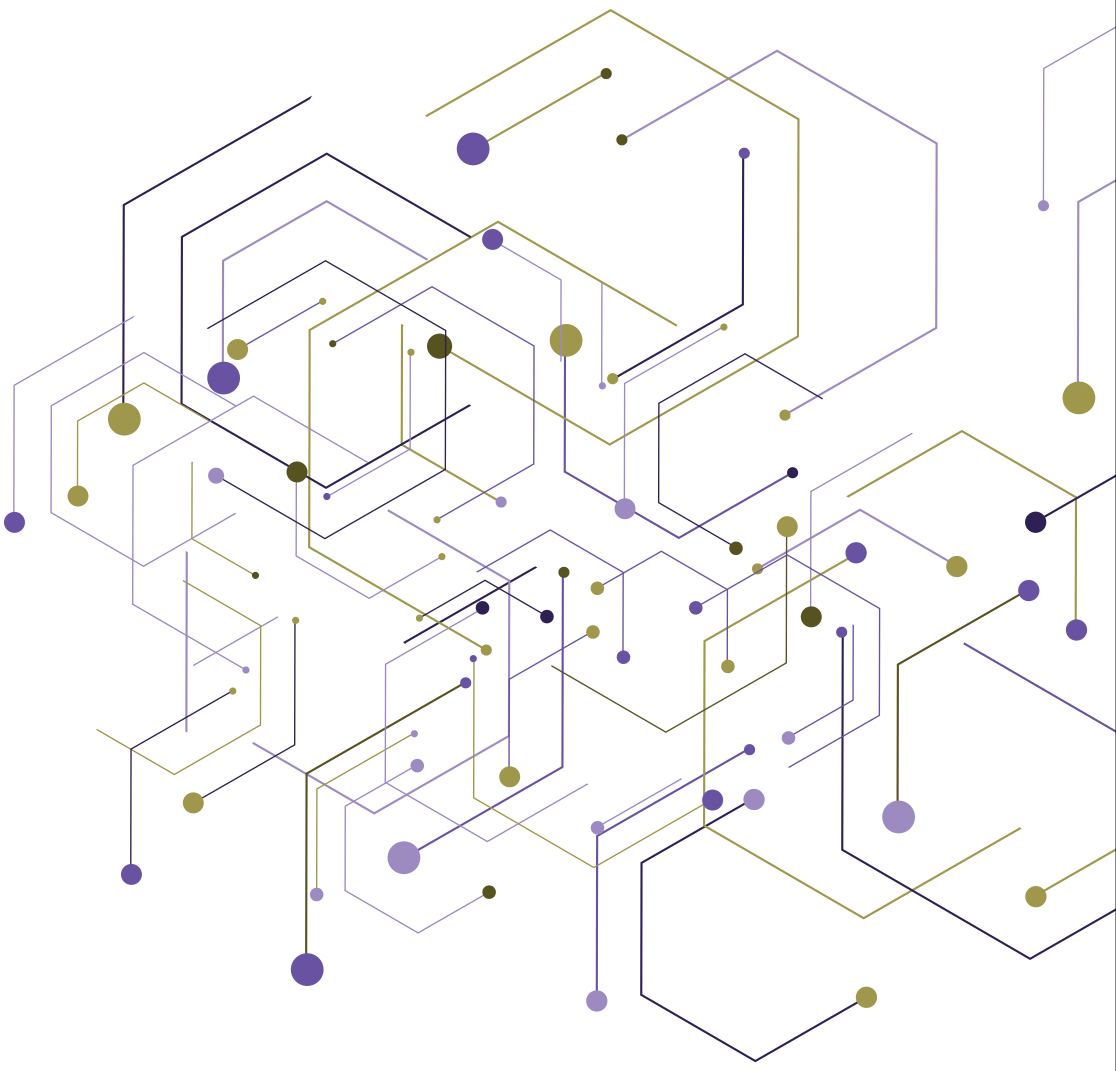
59th Annual Drosophila Research Conference

April 11-15, 2018 | Philadelphia, PA

PROGRAM BOOK



GENETICS

GSA Genetics Society of America

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Thank you!

The Organizers would like to recognize and thank the following people who devoted countless hours to abstract review and programming:

Cell Biology & Signal Transduction
- Laurel Raftery
- Andrea Page-McCaw
- Vicki Losick

Cell Death & Immunity
- Andreas Bergmann
- Eli Arama
- Alla Amcheslavsky

Cell Division & Growth Control
- Laura Johnston
- Laura Buttitta
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Models of Human Disease: Developmental & Physiological Disorders
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Regulation of Gene Expression
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- Judy Kasis
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RNA Biology
- Bob Duronio
- Greg Matera
- Jim Kemp

Stem Cells
- Hannele Ruohola-Baker
- Haifan Lin

Techniques & Technology
- Amanda Simcox
- Gwyneth Card
- Ryan Williamson

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GENETICS SOCIETY OF AMERICA

The Genetics Society of America (GSA) is an international scientific society representing more than 5,000 researchers and educators around the world.

We work to advance the field and foster the research community. The Society has a deep commitment to supporting the next generation of geneticists, providing professional development opportunities, training, travel grants, and more. We work with our members and partner organizations to communicate the value of genetics and model organism research to the public and policymakers; we advocate for our scientific community and the vital work they do.

As well as encouraging communication among researchers through conferences, GSA publishes two peer-edited scholarly journals:

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SCHEDULE OF EVENTS

WEDNESDAY, April 11		
9:00 a.m. - 4:00 p.m.	**New Faculty Forum** *Pre-registration Required*	4th Floor, Rm 411
11:50 a.m. - 1:15 p.m.	**New Faculty Forum/Board Lunch** *Open to Forum participants and FlyBoard*	5th Floor, Salons I-K
12:00 noon - 11:30 p.m.	**Family/Nursing Mothers Room**	3rd Floor, Rm 362
1:00 p.m. - 3:00 p.m.	**New Faculty Forum Breakout** *Pre-registration Required*	4th Floor, Rm 407
2:30 p.m. - 4:30 p.m.	***GENETICS* Peer Review Workshop (Part I)** *Ticket Required*	4th Floor, Rm 405
2:30 p.m. - 4:30 p.m.	**Ecdysone Workshop**	5th Floor, Salon D
3:00 p.m. - 6:00 p.m.	**Drosophila Board of Directors Meeting** *Open to Board Members and Invited Guests Only*	3rd Floor, Independence Ballroom
3:00 p.m. - 6:30 p.m.	**Speaker Ready Room**	5th Floor, Rm 502
3:30 p.m. - 9:00 p.m.	**Registration and Book/T-Shirt Pick Up Open**	4th Floor, Franklin Hall
5:00 p.m. - 12:00 a.m.	**Posters Open 24 Hours beginning at 5:00 pm**	4th Floor, Franklin Hall
7:00 p.m. - 8:05 p.m.	**Opening Session** *Chairs: Tin Tin Su; and Gio Bosco*	5th Floor, Salons E-H
8:05 p.m. - 9:05 p.m.	**Keynote Address - Terry Orr-Weaver**	5th Floor, Salons E-H
9:15 p.m. - 11:00 p.m.	**Mixer/Reception** *Sponsored by the GSA journals, GENETICS and G3: Genes|Genomes|Genetics*	4th Floor, Franklin Hall

THURSDAY, April 12		
12:01 a.m. - 12:00 a.m.	**Posters Open 24 Hours**	4th Floor, Franklin Hall
7:00 a.m. - 3:00 p.m.	**Speaker Ready Room** *Presenters must upload and test talk 24 hours in advance*	5th Floor, Rm 502
7:15 a.m. - 8:30 a.m.	**Publishing Q & A** *Pre-registration encouraged*	5th Floor, Salons I-K
7:15 a.m. - 8:30 a.m.	**Continental Breakfast**	5th Floor, Grand Ballroom Foyer
8:00 a.m. - 5:00 p.m.	**Registration and Book/T-Shirt Pick Up Open**	4th Floor, Franklin Hall Foyer
8:30 a.m. - 12:00 noon	**Plenary Session 1** *Chairs: Pam Geyer; Noah Whiteman; Gio Bosco*	5th Floor, Salons E-H
8:30 a.m.	**Image Award Presentation** *Nasser Rusan*	
8:35 a.m.	**Mechanisms and roles of tumor-suppressive cell competition** *Tatsushi Igaki*	
9:05 a.m.	**Lost in translation – RNA processing defects impact synaptic metabolism in neurodegeneration** *Daniela Zarnescu*	
9:35 a.m.	**Mechanisms of Odor-coding and its Manipulation to alter Behavior** *Anandasankar Ray*	
10:05 a.m.	Break	
10:30 a.m.	**Reproductive Capacity Evolves in Response to Ecology through Common Developmental Mechanisms** *Cassandra Extavour*	
11:00 a.m.	**The genomic basis of adaptation in *Drosophila*: sex, poison and other dramas** *Amir Yassin*	
11:30 a.m.	**The guts of Wnt signal transduction** *Yashi Ahmed*	
12:00 noon - 12:15 p.m.	**Year in Review**	5th Floor, Salons E-H
12:00 noon - 1:45 p.m.	**Community, Connections and Lunch** *Ticket required*	5th Floor, Salons I-K
12:00 noon - 2:00 p.m.	**G3 Editors' Meeting**	5th Floor, Salon L

THURSDAY, April 12 continued		
1:00 p.m. - 5:00 p.m.	**FlyBase Demo Room Open for Tutorials & Discussions**	4th Floor, Rm 407-409
1:45 p.m. - 2:00 p.m.	**Special Reading from *First in Fly*** *Stephanie Mohr*	5th Floor, Salons I-K
2:00 p.m. - 4:00 p.m.	**Exhibits Open & Poster Presentations** *2:00 pm EVEN Posters* *3:00 pm ODD posters*	4th Floor, Franklin Hall
4:30 p.m. - 6:30 p.m.	**CONCURRENT PLATFORM SESSIONS I**	
	Cell Death & Immunity *Chairs: Andreas Bergmann; Eli Arama; and Alla Amcheslavsky*	5th Floor, Salon E
	Neural Circuits and Behavior *Chairs: Marcus Stensmyr; Marco Gallio; and Emanuela Zaharieva*	5th Floor, Salons F-G
	RNA Biology (4 talks) **Evolution of Development, other species** (4 talks) *Chairs: Bob Duronio; Greg Matera; Benjamin Prud'homme; and Virginie Courtier-Orgogozo*	5th Floor, Salon H
7:45 p.m. - 9:45 p.m.	**CONCURRENT WORKSHOPS I**	
	Publishing Genetics Classroom Activities in CourseSource	4th Floor, Rm 405
	Building Community Through Mentoring	5th Floor, Salon I
	Autophagy in Development and Disease	5th Floor, Salon L
	The Hows and Whys of Drugging Flies – A Chemical Screening Workshop	5th Floor, Salon K
	Biogenic Amines and Behaviors	5th Floor, Salon H
	Overcoming barriers to effectively utilize *Drosophila melanogaster* in scholarship, research, and teaching at PUIs.	5th Floor, Salon J
	Reverse-engineering methods and quantitative analysis of signaling and organogenesis	4th Floor, Rm 411-412
	Drosophila Microbiome	5th Floor, Salon E
	Advocating Drosophila through using it as an Efficient Teaching Tool	5th Floor, Salons F-G
8:00 p.m. - 11:00 p.m.	**Exhibits Open & Poster Viewing**	4th Floor, Franklin Hall

FRIDAY, April 13		
12:01 a.m. - 12:00 a.m.	**Posters Open 24/7**	4th Floor, Franklin Hall
7:00 a.m. - 3:00 p.m.	**Speaker Ready Room**	5th Floor, Rm 502
7:00 a.m. - 11:00 p.m.	**Family/Nursing Mothers Room**	3rd Floor, Rm 362
8:15 a.m. - 5:00 p.m.	**Registration and Book/T-Shirt Pick Up Open**	4th Floor, Franklin Hall Foyer
8:30 a.m. - 10:15 a.m.	**CONCURRENT PLATFORM SESSIONS II**	
	Stem Cells *Chairs: Hannele Ruohola-Baker; and Haifan Lin*	5th Floor, Salon E
	Evolution and Population Genetics *Chairs: Nadia Singh; Dmitri Petrov; and Sharon Greenblum*	5th Floor, Salons F-G
	Models of Human Disease: Neurodegeneration and Neurological Disorders *Chairs: Bing Wei Lu; Kanae Ando; and Vafa Bayat*	5th Floor, Salon H
10:15 a.m. - 10:45 a.m.	**Coffee Break**	5th Floor, Grand Ballroom Foyer
10:45 a.m. - 12:30 p.m.	**CONCURRENT PLATFORM SESSIONS III**	
	Cell Division and Growth Control I *Chairs: Laura Johnston; Laura Buttitta; and Yiqin Ma*	5th Floor, Salon E
	Patterning, Morphogenesis and Organogenesis I *Chairs: Helen McNeill; Sarah Hughes; and Oguz Kanca*	5th Floor, Salons F-G
	Gametogenesis *Chairs: Helen Salz; Prashanth Rangan; and Nicole Crown*	5th Floor, Salon H
1:00 p.m. - 6:00 p.m.	**FlyBase Demo Room Open for Tutorials & Discussion** *Presentations:* *3:45-4:00 pm: FlyBase 2018: New look, new features* *4:05-4:20 pm: Finding your way around large-scale datasets and single-cell technologies*	4th Floor, Rm 407-409

FRIDAY, April 13 continued		
1:45 p.m. - 3:45 p.m.	**CONCURRENT WORKSHOPS II AND PLATFORM SESSION**	
	Drosophotoxicology: Examples and opportunities for fly research in toxicological sciences	5th Floor, Salon K
	Developmental Mechanics	5th Floor, Salon H
	Feeding Behavior, Nutrition and Metabolism	5th Floor, Salon J
	Techniques and Technology Platform Session *Chairs: Amanda Simcox; Gwyneth Card; and Ryan Williamson*	5th Floor, Salons F-G
	Functional Genomics Resources from the DRSC & TRiP	5th Floor, Salon E
	Everything you ever wanted to know about sex	5th Floor, Salon I
	Spotlight on Undergraduate Research	5th Floor, Salon L
2:00 p.m. - 4:00 p.m.	**Open Poster and Exhibit Viewing**	4th Floor, Franklin Hall
2:00 p.m. - 4:00 p.m.	**Professional Development Tool Kit**	4th Floor, Rm 411-412
2:30 p.m. - 4:30 p.m.	**GENETICS Peer Review Workshop (Part II)** *Ticket Required*	4th Floor, Rm 405
4:30 p.m. - 6:30 p.m.	**CONCURRENT PLATFORM SESSIONS IV**	
	Cell Division and Growth Control II *Chairs: Laura Johnston; Laura Buttitta; and Yiqin Ma*	5th Floor, Salon E
	Patterning, Morphogenesis and Organogenesis II *Chairs: Helen McNeill; Sarah Hughes; and Oguz Kanca*	5th Floor, Salons F-G
	Neural Development and Physiology *Chairs: Mani Ramaswami; Quentin Gaudry; and Sonia Sen*	5th Floor, Salon H
6:30 p.m. - 7:30 p.m.	**Education Platform Session**	5th Floor, Salon E
9:00 p.m. - 11:00 p.m.	**Exhibits Open & (Optional) Poster Presentations** *Open Poster Viewing with Cash Bar (authors encouraged to be at their boards)*	4th Floor, Franklin Hall

SATURDAY, April 14		
12:01 a.m. - 3:30 p.m.	**Posters Open** *Close at 3:30 pm. Posters must be down by 4:00 pm*	4th Floor, Franklin Hall
7:00 a.m. - 3:00 p.m.	**Speaker Ready Room**	5th Floor, Rm 502
7:00 a.m. - 11:00 p.m.	**Family/Nursing Mothers Room**	3rd Floor, Rm 362
8:15 a.m. - 3:00 p.m.	**Registration and Book/T-Shirt Pick Up Open**	4th Floor, Franklin Hall
8:30 a.m. - 10:15 a.m.	**CONCURRENT PLATFORM SESSIONS V**	
	Intracellular Dynamics: Cytoskeleton, Organelles and Trafficking *Chairs: Brooke McCartney; Avi Rodal; and Steve DelSignore*	5th Floor, Salon E
	Models of Human Disease: Developmental and Physiological Disorders *Chairs: Jun-Yuan Ji; Hong Xu; and Zhe Chen*	5th Floor, Salons F-G
	Chromatin and Epigenetics *Chairs: Kami Ahmad; Yukiko Yamashita; and Jonathan Nelson*	5th Floor, Salon H
10:15 a.m. - 10:45 a.m.	**Coffee Break**	5th Floor, Grand Ballroom Foyer
10:45 a.m. - 12:30 p.m.	**CONCURRENT PLATFORM SESSIONS VI**	
	Cell Biology & Signal Transduction I *Chairs: Laurel Raftery; Andrea Page-McCaw; and Vicki Losick*	5th Floor, Salon E
	Regulation of Gene Expression I *Chairs: Victoria Meller; Judy Kasis; and Sandip De*	5th Floor, Salon F-G
	Physiology, Metabolism and Aging I *Chairs: Stephen Helfand; Daniela Drummond-Barbosa; and Jackson R. Taylor*	5th Floor, Salon H
1:30 p.m. - 3:30 p.m.	**Exhibits Open & Poster Presentations** *Presentations* *1:30 pm ODD Posters* *2:30 pm EVEN posters*	4th Floor, Franklin Hall

SATURDAY, April 14 continued		
4:00 p.m. - 6:00 p.m.	**CONCURRENT PLATFORM SESSIONS VII**	
	Cell Biology & Signal Transduction II *Chairs: Laurel Raftery; Andrea Page-McCaw; and Vicki Losick*	5th Floor, Salon E
	Regulation of Gene Expression II *Chairs: Victoria Meller; Judy Kasis; and Sandip De*	5th Floor, Salons F-G
	Physiology, Metabolism and Aging II *Chairs: Stephen Helfand; Daniela Drummond-Barbosa; and Jackson R. Taylor*	5th Floor, Salon H
7:45 p.m. - 8:45 p.m.	**FLYght of the Champions!** *Awards and Recognition for those in our Community*	5th Floor, Salon H
8:45 p.m. - 10:00 p.m.	**ScienceSlam**	5th Floor, Salon H
SUNDAY, April 15		
7:00 a.m. - 1:00 p.m.	**Family/Nursing Mothers Room**	3rd Floor, Rm 362
8:30 a.m. - 12:00 noon	**Plenary Session II** *Chairs: Pam Geyer; Noah Whiteman; and Gio Bosco*	5th Floor, Salons E-H
8:30 a.m.	**Non-conventional autophagy in the prothoracic gland mediates a larval nutritional checkpoint through alteration of cholesterol trafficking** *Michael O'Connor*	
9:00 a.m.	**Sexual interactions and the evolution of species isolating barriers** *Leonie Moyle*	
9:30 a.m.	**Regulation of stem cell number in the intestine** *Benjamin Ohlstein*	
10:00 a.m.	Break	
10:30 a.m.	**Highways for repair: nuclear actin filaments and myosins relocalize heterochromatic DNA breaks to the nuclear periphery** *Irene Chiolo*	
11:00 a.m.	**Effects of the gut microbiota on host behavior and homeostasis** *Julien Royet*	
11:30 a.m.	**Looking at chromosomes** *Ting Wu*	

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GENERAL INFORMATION

Badges

Badges are required for admission to all sessions, posters, the exhibit hall, and reception. Security will not allow individuals without badges to enter the exhibit hall. If you lose your badge, please request a replacement at the conference registration desk.

Presenters - Speaker Ready Room, 502

All those giving oral talks in platform or plenary sessions are required to load and check their presentation the day before the start of their session in Room 502, which will be open during the following hours:

Wednesday, April 11	3:00 p.m. – 6:30 p.m.
Thursday, April 12	7:00 a.m. – 3:00 p.m.
Friday, April 13	7:00 a.m. – 3:00 p.m.
Saturday, April 14	7:00 a.m. – 3:00 p.m.

NOTE: You will not be able to upload presentations in the meeting room, so checking in at the Speaker Ready Room is vital to the success of your talk. If you are a workshop presenter, please coordinate with your workshop organizer.

Poster Sessions and Exhibits – Franklin Hall

All posters and exhibits will be in Franklin Hall on the fourth floor. The hall will be open to conference registrants on a 24-hour basis beginning at 5:00 p.m., Wednesday, April 11 until 3:30 p.m., Saturday, April 14. 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 p.m. on Saturday.

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

Wednesday, April 11	9:00 p.m. – 11:00 p.m.
Thursday, April 12	1:30 p.m. – 4:30 p.m.
Friday, April 13	2:00 p.m. – 4:00 p.m. 8:00 p.m. – 11:00 p.m.
Saturday, April 14	1:00 p.m. – 4:00 p.m.

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

Thursday, April 12	2:00 p.m. – 3:00 p.m.	Even-numbered posters
	3:00 p.m. – 4:00 p.m.	Odd-numbered posters
Friday, April 13	9:00 p.m. – 11:00 p.m.	Not required, but recommended for authors to be present
Saturday, April 14	1:30 p.m. – 2:30 p.m.	Odd-numbered posters
	2:30 p.m. – 3:30 p.m.	Even-numbered posters

All posters must be removed from poster boards **no later than 4:00 p.m. on Saturday, April 14.** After that time, remaining posters will be removed and recycled. Posters may only be removed by their own authors. Posters that are not collected may not be taken by someone who is not an author on that poster.

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Download the GSA mobile app to your smartphone (iOS and Android platforms). The mobile app gives you the meeting at your fingertips. Once the app has been downloaded, you do not need an Internet connection to access previously downloaded information. You will only need access to the internet to download updates. Users of Blackberrys or Windows Mobile Devices have full access to the Program through the web version available on the meeting website

Registration

Registrants can pick up registration materials and Certificates of Attendance at the registration desk in the Franklin Hall Foyer during the following times:

Wednesday, April 11	3:30 p.m. – 9:00 p.m.
Thursday, April 12	8:00 a.m. – 5:00 p.m.
Friday, April 13	8:15 a.m. – 5:00 p.m.
Saturday, April 14	8:15 a.m. – 3:00 p.m.

Social Media/Photo/Video Policy

Live tweeting of presentations is allowed 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.

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

FlyBase Demonstrations (4th Floor, Rm 407-409)

FlyBase invites all attendees 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, April 12

1:00 p.m. - 5:00 p.m. Demo room open for tutorials and discussions

Presentations:

2:00 p.m.-2:15 p.m.: FlyBase 2018: New Look,

2:20 p.m.-2:35 p.m.: Finding your way around large-scale datasets and single-cell technologies

Friday, 13

1:00 p.m. - 6:00 p.m. Demo room open for tutorials and discussions

Presentations:

3:45 p.m.-4:00 p.m.: FlyBase 2018: New Look, New Features

4:05 p.m.-4:20 p.m.: Finding your way around large-scale datasets and single-cell technologies

Security/Lost and Found

For emergencies and lost and found items, contact hotel security by dialing 0 from any house phone. The conference registration desk will also be able to assist you.

Meals

Meals are not included in your registration fee. However, as well as the restaurants on site, there are hundreds more within walking distance. Reading Terminal Market is right across the street and has eighty vendors offering a wide variety of grab-and-go food options, including local favorites, vegetarian, gluten free, and more. It is open 8 am-6 pm. The hotel concierge can help you find just what you want.

Parking

Parking is available at the hotel for $54. Less expensive parking options are available in nearby parking garages and lots. BestParking or SpotHero apps can help you find costs and availability when you arrive.

Nursing Mother's Room

A private room for nursing mothers is located on the third floor of the hotel in Room 362. The room has power outlets, a bathroom, and seating. Please note that parents and guardians are responsible for providing infant care supplies. To access the room, sign out the key at the Conference Registration Desk, or if closed, go to the hotel front desk to request the key. You will be asked to show your badge. The Family Room is unsupervised, and the Genetics Society of America is not responsible for any accidents or injuries that may occur.

Onsite childcare services may be available through your hotel concierge. Individual or group sitters may be arranged to provide in-room hotel childcare. Please check with your hotel for additional information.

It is the responsibility of the parent(s), 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 liabilities.

If you are having difficulty finding a babysitter, try Care.com. Please note GSA has no affiliation with them, but they offer babysitting matching services.

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 Marriott staff, and to behave in a courteous fashion. Attendees should adhere to 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 Marriott staff will not be tolerated. When at the meeting, immediately report any incidents in which you feel a meeting attendee is abusive, insulting, intimidating, bothersome, or acting in an unsafe or illegal manner at the meeting registration desk or to Suzy Brown at sbrown@genetics-gsa.org. Please contact: society@genetics-gsa.org if you need to file a formal complaint.

60th Annual Drosophila Research Conference

March 27-31, 2019 | Dallas, TX

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April 2020

National Harbor, MD

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PLENARY AND PLATFORM SESSIONS

Wednesday, April 11
7:00 p.m. – 8:05 p.m.
5th Floor Salons E-H

Opening Session

Session Chairs:
Tin Tin Su,
Gio Bosco

7:00 pm Welcome, **Tin Tin Su**

7:10 pm State of the Fly Community, **Debbie Andrew**

7:20 pm GSA Update and presentation of GSA Awards, **Lynn Cooley**

7:30 pm Larry Sandler Award Presentation, **Kim McCall**

7:35 pm Larry Sandler Lecture

8:05 p.m. – 9:05 p.m.
5th Floor Salons E-H

Keynote Address Terry Orr-Weaver

8:05 Research taking flight from foundational biology. **Terry Orr-Weaver**

Thursday, April 12
8:30 a.m. – 12:00 noon
5th Floor Salons E-H

Plenary Session 1

Session Chairs:
Pam Geyer,
Noah Whiteman,
Gio Bosco

8:30 Image Award Presentation. **Nasser Rusan**

8:35 Mechanisms and roles of tumor-suppressive cell competition. **Tatsushi Igaki**

9:05 Lost in translation – RNA processing defects impact synaptic metabolism in neurodegeneration. **Daniela Zarnescu**

9:35 Mechanisms of Odor-coding and its Manipulation to alter Behavior. **Anandasankar Ray**

10:05 - **Break**

10:30 Reproductive Capacity Evolves in Response to Ecology through Common Developmental Mechanisms. **Cassandra Extavour**

11:00 The genomic basis of adaptation in *Drosophila*: sex, poison and other dramas. **Amir Yassin**

11:30 The guts of Wnt signal transduction. **Yashi Ahmed**

Notes

Thursday, April 12
4:30 p.m. – 6:30 p.m.
5th Floor, Salon E

Cell Death & Immunity

Session Chairs:
Andreas Bergmann,
Eli Arama,
Alla Amcheslavsky

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1 - 4:30 Determination of the interaction of STAT92E, Zfh2 and Wingless to regulate regeneration after radiation damage in *Drosophila melanogaster*. **Shilpi Verghese**

2 - 4:45 High-dimensional microbiome interactions shape host fitness. **William Ludington**

3 - 5:00 Plasmamembrane-localization of apoptotic caspases for non-apoptotic functions. **Alla Amcheslavsky**

4 - 5:15 *Tango7* and *dark* regulate mutually-exclusive subcellular domains of caspase activation during development. **Sarah Neuman**

5 - 5:30 Regulation of *Wolbachia* by host autophagy across multiple cell-types in *Drosophila melanogaster*. **Mark Deehan**

6 - 5:45 Stretch follicle cells utilize lysosomal machinery to eliminate nurse cells by phagoptosis. **Albert Mondragon**

7 - 6:00 Peroxisomes join the fight against infection. **Francesca Di Cara**

8 - 6:15 Functional analysis of cAMP-producing toxins in *Drosophila* identifies several chemical inhibitors. **Annabel Guichard**

Thursday, April 12
4:30 p.m. – 6:30 p.m.
5th Floor, Salons F-G

Neural Circuits and Behavior

Session Chairs:
Marcus Stensmyr,
Marco Gallio,
Emanuela Zaharieva

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9 - 4:30 Temperature sensitivity of GR28bD and its orthologs in *Drosophila*. **Aditi Mishra**

10 - 4:45 The *Drosophila* small conductance potassium channel (SK) negatively regulates nociception. **Stephanie Mauthner**

11 - 5:00 Humidity sensing in *Drosophila*. **Dominic Frank**

12 - 5:15 Multisensory integration in the *Drosophila* mushroom body. **Jinzhi Li**

13 - 5:30 On the ORigin of olfactory worlds. **Marianthi Karageorgi**

14 - 5:45 Sing me a new song - towards the neural basis of fly courthip song evolution. **Yun Ding**

15 - 6:00 A circuit for the experience of mating in *Drosophila*. **Lisha Shao**

16 - 6:15 From perception to reaction: a novel neuronal pathway to encode motion and regulate forward walking speed in *Drosophila*. **Jessica Eliason**

Thursday, April 12
4:30 p.m. – 6:30 p.m.
5th Floor, Salon H

RNA Biology (4 talks) Evolution of Development, other species (4 talks)

Session Chairs:
Bob Duronio,
Greg Matera,
Benjamin Prud'homme,
Virginie Courtier-Orgogozo

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17 - 4:30 TDRD5P promotes germline differentiation through post-transcriptional gene regulation in cytoplasmic RNA granules. **Caitlin Pozmanter**

18 - 4:45 Distinct RNP Classes in the *Drosophila* Germ Plasm Orchestrate Differential RNA Regulation. **Catherine Ruesch**

19 - 5:00 *Dm* Ime4 regulates *chic* splicing in Drosophila spermatogenesis. **Antonio Rockwell**

20 - 5:15 Zc3h13/Flacc is required for adenosine methylation by bridging the mRNA binding factor Rbm15/Spenito to other components of the m6A machinery. **Jean Roignant**

21 - 5:30 Novel approach to quantitative spatial gene expression uncovers cryptic evolution in the developing *Drosophila* eye. **Sarah Signor**

22 - 5:45 A gene network responsible for a male genital structure also patterns a potentially coevolving female genital trait. **Eden McQueen**

23 - 6:00 Evolution of a new essential gene function in development via Alternative Transcription. **Yoseop Yoon**

24 - 6:15 Evolving *doublesex* expression correlates with the origin and diversification of male sexual ornaments in the *Drosophila immigrans* species group. **Gavin Rice**

Notes

Friday, April 13
8:30 a.m. – 10:15 a.m.
5th Floor, Salon E

Stem Cells

Session Chairs:
Hannele Ruohola-Baker,
Haifan Lin

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25 - 8:30 Centromeres epigenetically mark *Drosophila* germ line stem cell identity. **Anna Dattoli**

26 - 8:45 Multi-layered control of gene activities ensures timely exit from stemness during asymmetric neural stem cell division. **Hideyuki Komori**

27 - 9:00 Lin28 is a critical factor in the aging of *Drosophila* testis stem cell niche. **Sreejith Perinthottathil**

28 - 9:15 Stem Cell Cytokinesis is Disrupted with Age Due to Diminished Jak/STAT Activity. **Kari Lenhart**

29 - 9:30 Accelerated germline stem cell divisions in Drosophila males upon repeated mating – a novel role for G-Protein signaling. **Manashree Malpe**

30 - 9:45 Wingless promotes EGFR signaling in follicle stem cells to maintain self renewal. **Rebecca Kim**

31 - 10:00 Vive la resistance: evidence from the Drosophila intestine that multidrug resistance is an ancient stem cell trait. **Michele Markstein**

Friday, April 13
8:30 a.m. – 10:15 a.m.
5th Floor, Salons F-G

Evolution and Population Genetics

Session Chairs:
Nadia Singh,
Dmitri Petrov,
Sharon Greenblum

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32 - 8:30 Adaptive genetic redundancy in *Drosophila* is driven by a vast reservoir of large-effect alleles. **Neda Barghi**

33 - 8:45 The microbiota influences life history variation in *Drosophila melanogaster*. **Amber Wise**

34 - 9:00 A genome-wide association study to identify genetic factors affecting resistance allele formation in CRISPR gene drives. **Jackson Champer**

35 - 9:15 Comparative analysis of centromeric DNA sequences in Drosophila species. **Amanda Larracuente**

36 - 9:30 The Recombination Landscape of *Drosophila virilis* under hybrid dysgenesis. **Lucas Hemmer**

37 - 9:45 Prophage WO genes that alter sperm and kill males in Drosophila. **Seth Bordenstein**

38 - 10:00 Patterns of robustness and deregulation in gene expression networks under dietary stress. **Luisa Pallares**

Friday, April 13
8:30 a.m. – 10:15 a.m.
5th Floor, Salon H

Models of Human Disease: Neurodegeneration and Neurological Disorders

Session Chairs:
Bing Wei Lu,
Kanae Ando,
Vafa Bayat

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39 - 8:30 Phosphatidylserine externalization is associated with developmental and pathological neurite degeneration in *Drosophila*. **Chun Han**

40 - 8:45 Autophagolysosome disruption in a *Drosophila* model of ALS/FTD caused by C9orf72 expansion mutation. **Kathleen Cunningham**

41 - 9:00 Activation of BMP signaling in non-motor neurons rescues motor dysfunction in a Drosophila model of Amyotrophic Lateral Sclerosis. **Kristi Wharton**

42 - 9:15 Interaction of LRRK2 with Rab GTPases *in vivo*. **Christopher Elliott**

43 - 9:30 Roles of CaMKII in neurodegeneration caused by depletion of presynaptic mitochondria. **Kanako Shinno**

44 - 9:45 Drosophila FMRP modulates energy metabolism and mitochondrial function. **Eliana Weisz**

45 - 10:00 Transcriptomic and proteomic profiling of an epilepsy fly model reveals cell non-autonomous downregulation of synaptic proteins. **Kevin Hope**

Notes

Friday, April 13
10:45 a.m. – 12:30 p.m.
5th Floor, Salon E

Cell Division and Growth Control I

Session Chairs:
Laura Johnston,
Laura Buttitta,
Yiqin Ma

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46 - 10:45 Exploring C(2)M and its ability to promote assembly of the synaptonemal complex. **Kim McKim**

47 - 11:00 Separating the contribution of chromatin versus that of repetitive DNA in centromere specification. **Jason Palladino**

48 - 11:15 A centrosome asymmetry switch in fly neural stem cells. **Clemens Cabernard**

49 - 11:30 Diverse Roles of Actin-Microtubule Crosslinker Shortstop in Cell Division. **Evan Dewey**

50 - 11:45 Examining chromatin in different states of G0. **Yiqin Ma**

51 - 12:00 An alternatively spliced form affecting the Marked Box domain of *Drosophila* E2F1 is required for proper cell cycle regulation during development. **Minhee Kim**

52 - 12:15 Master regulators of the Minute phenotype: translation, growth, and cell competition depend on a regulatory pathway induced by ribosomal protein mutations. **Marianthi Kiparaki**

Friday, April 13
10:45 a.m. – 12:30 p.m.
5th Floor, Salons F-G

Patterning, Morphogenesis and Organogenesis I

Session Chairs:
Helen McNeill,
Sarah Hughes,
Oguz Kanca

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53 - 10:45 Erk-dependent control of epithelial morphogenesis. **Heath Johnson**

54 - 11:00 Optogenetic control of cell contractility during epithelial morphogenesis in *Drosophila*. **R. Marisol Herrera-Perez**

55 - 11:15 Redundancy in supracellular actomyosin networks yields robust tissue folding. **Adam Martin**

56 - 11:30 The scaffold protein Canoe and ZO1/Polychaetoid help link cell adhesion and the actomyosin cytoskeleton during tissue formation. **Lathiena Manning**

57 - 11:45 Epithelial rotation is preceded by planar symmetry breaking of actomyosin and protects epithelial tissue from cell deformations. **Ivana Viktorinova**

58 - 12:00 The dynamics of the EGFR signaling activation in the follicular epithelium. **Nicole Revaitis**

59 - 12:15 Differential lateral and basal tension drives epithelial folding through two distinct mechanisms. **Christian Dahmann**

Friday, April 13
10:45 a.m. – 12:30 p.m.
5th Floor, Salon H

Gametogenesis

Session Chairs:
Helen Salz,
Prashanth Rangan,
Nicole Crown

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60 - 10:45 Distinct properties of wasp germ plasm correlate with its divergent complement of localized RNA. **Jeremy Lynch**

61 - 11:00 Studying the *cis*- and *trans*-regulation of *Sex lethal* in the germline of *Drosophila melanogaster*. **Raghav Goyal**

62 - 11:15 SETDB1/EGGLESS maintains female sex-identity in *Drosophila* germ cells. **Anne Smolko**

63 - 11:30 The nuclear transport protein Tnpo-SR promotes cell proliferation and oocyte specification in the early *Drosophila* germline. **Elizabeth Ables**

64 - 11:45 Development of a CRISPR-based meiotic double-strand break repair assay provides insight into regulation of meiotic recombination. **Nicole Crown**

65 - 12:00 The TORC1 inhibitor GATOR1 regulates early meiotic events during Drosophila oogenesis. **LUCIA BETTEDI**

66 - 12:15 Mitochondrial Fragmentation Drives the Selective Removal of Deleterious Mitochondrial DNA in the *Drosophila* Germline. **Thomas Hurd**

Notes

Friday, April 13
1:45 p.m. – 3:45 p.m.
5th Floor, Salons F-G

Techniques and Technology Platform Session

Session Chairs:
Amanda Simcox,
Gwyneth Card,
Ryan Williamson

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67 - 1:45 Synthetic biology in *Drosophila*: Engineering vitamin-producing flies. **Shu Kondo**

68 - 2:00 An expanded toolkit for CRISPR/Cas9 gene editing that complements MiMIC drive strategies. **David Li-Kroeger**

69 - 2:15 Pooled-format, genome-wide CRISPR/Cas9 screening in *Drosophila* cells. **Raghuvir Viswanatha**

70 - 2:30 An apparatus for automated, high-throughput, and detailed assessment of individual *Drosophila* free behavior. **Wallace Williamson**

71 - 2:45 Long-term optical brain imaging in live adult fruit flies. **Cheng Huang**

72 - 3:00 PhotoGal4: a new multi-purpose light-dependent switch for spatiotemporal control of gene expression. **Lorena de Mena**

73 - 3:15 Microgravity research platform for longitudinal and multigenerational studies in Drosophila. **Gene Boland**

74 - 3:30 High-throughput System for Quantification of Food Consumption in Drosophila. **Maria Jaime**

Notes

Notes

Friday, April 13
4:30 p.m. – 6:30 p.m.
5th Floor, Salon E

Cell Division and Growth Control II

Session Chairs:
Laura Johnston,
Laura Buttitta,
Yiqin Ma

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75 - 4:30 Tissue Organization in a Small Multicellular Structure. **Jasmin Imran Alsous**

76 - 4:45 Repression of a CDK1 - Myb - Aurora B network remodels mitotic cycles into polyploid endocycles. **Michael Rotelli**

77 - 5:00 Variant cell cycles ensure a functional blood-brain barrier in Drosophila. **Jessica Von Stetina**

78 - 5:15 JNK and Yorkie cooperate to drive tumor progression by generating polyploid giant cells in *Drosophila*. **BoJie Cong**

79 - 5:30 Investigating the interaction of inflammatory pathways in tumor microenvironment
using *Drosophila* cancer models. **KIRTI SNIGDHA**

80 - 5:45 Deciphering the complexity of oncogenic Ras signaling. **Chiswili Chabu**

81 - 6:00 The CAF-1 complex couples Hippo pathway target expression and cell cycle progression. **William Yee**

82 - 6:15 Genetic analysis of invasive pathways engaged by the EcR-coactivator protein Taiman reveals requirement of Toll/Imd pathways and systemic immune response. **Phil Byun**

Friday, April 13
4:30 p.m. – 6:30 p.m.
5th Floor, Salons F-G

Patterning, Morphogenesis and Organogenesis II

Session Chairs:
Helen McNeill,
Sarah Hughes,
Oguz Kanca

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83 - 4:30 Integrins act as mechanosensors to regulate cell survival in *Drosophila* wing imaginal
disc. **ANDREA VALENCIA EXPÓSITO**

84 - 4:45 Ecdysone limits wing imaginal disc regeneration through Broad
Z1. **Faith Karanja**

85 - 5:00 Regulation of the stability of selector gene expression by the Hippo pathway co-activator Yorkie. **Jo Downes**

86 - 5:15 The architectural balance of the Ventral Nerve Cord depends on the level of JNK signaling activity. **Enrique Martin-Blanco**

87 - 5:30 Programmed cell senescence is required for sensory organ development in *Drosophila*. **Yiran Zang**

88 - 5:45 Roles of tricellular junctions and spindle orientation in tissue morphogenesis. **Eric van Leen**

89 - 6:00 Cell Size and Nuclear Scaling Relationships in Multinucleated Muscle Fibers. **Stefanie Windner**

90 - 6:15 Quantitative analysis of cell organization in tracheal tubes reveals unexpected cell behaviors and suggests an alternative role for Src42 in tracheal morphogenesis. **Ran Yang**

Friday, April 13
4:30 p.m. – 6:30 p.m.
5th Floor, Salon H

Neural Development and Physiology

Session Chairs:
Mani Ramaswami,
Quentin Gaudry,
Sonia Sen

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91 - 4:30 Unc-4 governs the identity of cholinergic neurons in the ventral nerve cord. **Haluk Lacin**

92 - 4:45 Phenotypic convergence in the brain: distinct transcription factors regulate common terminal neuronal characters. **Nikos Konstantinides**

93 - 5:00 The mechanism controlling stochastic photoreceptor specification in the fly eye. **Alexandra Neuhaus-Follini**

94 - 5:15 The Krebs cycle enzyme Isocitrate Dehydrogenase 3A couples mitochondrial metabolism to synaptic transmission. **Berrak Ugur**

95 - 5:30 Combinations of DIPs and Dprs control olfactory receptor neuron axon sorting in *Drosophila*. **PELIN VOLKAN**

96 - 5:45 Basigin regulates peripheral glia function and morphology. **Vanessa Auld**

97 - 6:00 *dCORL* expression and function in insulin producing cells reversibly influences adult longevity. **Stuart Newfeld**

98 - 6:15 Neto - the obligatory subunit of glutamate receptors, functions in both pre- and post-synaptic compartments to enable synapse development and homeostasis at the *Drosophila* neuromuscular junction. **Mihaela Serpe**

Notes

Friday, April 13
6:30 p.m. – 7:30 p.m.
5th Floor, Salon E

Education Platform Session

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99 - 6:30 Examination of Perception and Performance in an Undergraduate Genetics Flipped Classroom. **Judith Leatherman**

100 - 6:45 Inspiring Genetics Classroom Innovation with the Journal *CourseSource*. **Michelle Smith**

101 - 7:00 The Genomics Education Partnership: Infusing Genomics into the Undergraduate Curriculum through Course-Based Research Experiences. **Justin DiAngelo**

102 - 7:15 Frontiers for Young Minds - Fruit Fly Genetics in Science Communication. **Michelle Juarez**

These talks will also be available as posters in the Educational Initiatives section of the poster boards.

Notes

Notes

Saturday, April 14
8:30 a.m. – 10:15 a.m.
5th Floor, Salon E

Intracellular Dynamics: Cytoskeleton, Organelles and Trafficking

Session Chairs:
Brooke McCartney,
Avi Rodal,
Steve DelSignore

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103 - 8:30 dOCRL maintains immune quiescence by regulating endosomal traffic. **Steven Del Signore**

104 - 8:45 A morphogenetic switch that reprograms membrane trafficking from recycling to degradation. **Sara Laiouar**

105 - 9:00 Self-organization of the actin cytoskeleton drives secretion in *Drosophila* salivary glands. **Eyal Schejter**

106 - 9:15 Phosphatidylinositol 4,5-bisphosphate (PIP2) is essential for cilium assembly and function in Drosophila. **Julie Brill**

107 - 9:30 Coordinated contractility initiates cell dispersal at the onset of migration. **Benjamin Lin**

108 - 9:45 Multiple feedback mechanisms fine-tune Rho signaling to regulate morphogenetic outcomes. **Katy Ong**

109 - 10:00 The Role for Microtubules in Organizing Actomyosin Contractility during Ventral Furrow Formation. **Clint Ko**

Saturday, April 14
8:30 a.m. – 10:15 a.m.
5th Floor, Salons F-G

Models of Human Disease: Developmental and Physiological Disorders

Session Chairs:
Jun-Yuan Ji,
Hong Xu,
Zhe Chen

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110 - 8:30 Role of lipid droplets in *Drosophila* models of kidney disease. **Aleksandra Lubojemska**

111 - 8:45 Interphase localization of Abnormal Spindle to the nucleus is important for proper brain size. **Todd Schoborg**

112 - 9:00 Notch induced tumorigenesis in a *Drosophila* transition zone model. **Sheng-An Yang**

113 - 9:15 A genetic screen in Drosophila uncovers functional modulators of the NUP98-HOXA9 human oncoprotein. **Caroline Baril**

114 - 9:30 Branchless mediates muscle wasting in obesity-enhanced tumorigenesis. **Holly Newton**

115 - 9:45 Optogenetic Control of Drosophila Cardiac Function with Red-light Excitation. **Jing Men**

116 - 10:00 The multifaceted mechanisms of mitochondrial DNA selective inheritance in *Drosophila*. **Zhe Chen**

Saturday, April 14
8:30 a.m. – 10:15 a.m.
5th Floor, Salon H

Chromatin and Epigenetics

Session Chairs:
Kami Ahmad,
Yukiko Yamashita,
Jonathan Nelson

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117 - 8:30 Metazoan Nuclear Pores provide a scaffold for poised genes and stabilized induced Enhancer-Promoter contacts. **Pau Pascual**

118 - 8:45 Pairing TADs (PairiTs) drive homologous chromosomes together to promote interchromosomal gene regulation. **Kayla Viets**

119 - 9:00 Phase separation drives heterochromatin domain formation. **Amy Strom**

120 - 9:15 Small RNA and the epigentics of X recognition. **Nikita Deshpande**

121 - 9:30 The addition and removal of chrY in *D. melanogaster* females can alter expression of rDNA-associated sequences with phenotypic consequences. **Katherine Silkaitis**

122 - 9:45 rDNA-specific retrotransposons maintain rDNA copy number in the *Drosophila* male germline. **Jonathan Nelson**

123 - 10:00 Inaccessible chromatin and transcriptional repression cooperate to promote late replication during S phase. **Robin Armstrong**

Notes

Saturday, April 14
10:45 a.m. – 12:30 p.m.
5th Floor, Salon E

Cell Biology & Signal Transduction I

Session Chairs:
Laurel Raftery,
Andrea Page-McCaw,
Vicki Losick

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124 - 10:45 Store-operated calcium entry functions downstream of *Oamb* in mature follicle cells for *Drosophila* ovulation. **Lylah Deady**

125 - 11:00 Emei Regulates ER Ca^{2+} storage to Drive Hippo-mediated Tumorigenesis. **Xianjue Ma**

126 - 11:15 A Yorkie-inhibitory checkpoint downstream of the tumor suppressor dFbw7. **Joanna Wardwell-Ozgo**

127 - 11:30 The transcriptional corepressor CtBP functions antagonistically to the JNK pathway to control tissue growth via regulation of the pro-growth microRNA *bantam*. **Taryn Sumabat**

128 - 11:45 Polyploid cell growth is required for wound repair to prevent mitotic induced cell death. **Vicki Losick**

129 - 12:00 Two distinct actin regulations are controlled by Annexins, RhoGEFs, and Rho family GTPases to orchestrate actomyosin ring dynamics in cell wound repair. **Mitsutoshi Nakamura**

130 - 12:15 The regulation of E-cadherin endocytosis by p120-catenin is dependent on RhoA and Arf1. **Joshua Greig**

Saturday, April 14
10:45 a.m. – 12:30 p.m.
5th Floor, Salon F

Regulation of Gene Expression I

Session Chairs:
Victoria Meller,
Judy Kasis,
Sandip De

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131 - 10:45 Defining the solution space for the *even-skipped* expression pattern suggests regulatory plasticity in Drosophila. **Ben Vincent**

132 - 11:00 Nuclear microenvironments modulate transcription from low-affinity enhancers. **Justin Crocker**

133 - 11:15 Assessing the role of Hox-cofactor interactions *in vivo*. **Siqian Feng**

134 - 11:30 Changes in a Hox gene and its downstream regulatory network drive microevolution. **Yang Liu**

135 - 11:45 Transcriptional bursting of segmentation gene expression in living *Drosophila* embryos. **Bomyi Lim**

136 - 12:00 Mechanisms regulating Grainy head activity during development. **Markus Nevil**

137 - 12:15 The Ecdysone Hormone Receptor directs genome-wide changes in gene expression and chromatin accessibility during wing morphogenesis. **Christopher Uyehara**

Saturday, April 14
10:45 a.m. – 12:30 p.m.
5th Floor, Salon H

Physiology, Metabolism and Aging I

Session Chairs:
Stephen Helfand,
Daniela Drummond-Barbosa,
Jackson R. Taylor

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138 - 10:45 Protein valuation modulates aging under a complex nutritional environment. **Yang Lyu**

139 - 11:00 Regulation of lifespan by dSirt6 in *Drosophila melanogaster*. **Jackson Taylor**

140 - 11:15 The translation inhibitor 4E-BP regulates the effect of ambient temperature on *Drosophila* metabolism and lifespan. **Ilaria Drago**

141 - 11:30 A genetic program for germline quiescence. **Ethan Greenblatt**

142 - 11:45 A Virus-acquired host cytokine controls systemic aging by antagonizing apoptosis. **Jason Karpac**

143 - 12:00 Increasing glucose uptake prevents age-dependent reductions in local ATP levels in brain neurons and suppresses declines in locomotor functions in *Drosophila*. **Mikiko Oka**

144 - 12:15 An ABC transporter regulates aging-induced intestinal stem cell dysplasia in the midgut of Drosophila. **Ayaka Sasaki**

Notes

Saturday, April 14
4:00 p.m. – 6:00 p.m.
5th Floor, Salon E

Cell Biology & Signal Transduction II

Session Chairs:
Laurel Raftery,
Andrea Page-McCaw,
Vicki Losick

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145 - 4:00 Role of the adherens junction protein α-Catenin in the regulation of tissue growth. **Lidia Kazakova**

146 - 4:15 Class III PI3K (PI3K-III) controls epithelial integrity through endosomal LKB1 regulation. **Fergal O'Farrell**

147 - 4:30 Characterization of a putative prion-like phosphatase, CG5830, in *Drosophila melanogaster*. **Zelha Nil**

148 - 4:45 Extracellular adenosine as a cytoprotectant and growth regulator. **Michal Zurovec**

149 - 5:00 Activation-induced substrate engagement in ERK signaling. **Sayantanee Paul**

150 - 5:15 Ras-dependent control of tissue morphogenesis. **Jared Toettcher**

151 - 5:30 Dynamic 3D tissue architecture directs BMP morphogen signaling during *Drosophila* wing morphogenesis. **Martin Kracklauer**

152 - 5:45 'Tethered' Wingless (Nrt-Wg) is released and signals at a distance, consistent with Wg function as a morphogen. **Samuel Petshow**

Saturday, April 14
4:00 p.m. – 6:00 p.m.
5th Floor, Salons F-G

Regulation of Gene Expression II

Session Chairs:
Victoria Meller,
Judy Kasis,
Sandip De

---

153 - 4:00 Damage-Activated Regeneration Enhancers (DAREs) permit control of regenerative capacity independent of the developmental program in imaginal discs. **Rob Harris**

154 - 4:15 M1BP, a master regulator of housekeeping genes, functions with TRF2 and a coactivator that has glutathione S transferase activity. **David Gilmour**

155 - 4:30 Promoter proximal pausing as a possible mechanism for transcriptional regulation by HP1 paralogs. **Schoelz John**

156 - 4:45 Context matters: chromatin context effects Polycomb domain formation and function. **SANDIP DE**

157 - 5:00 Multiple roles for insulator complex LBC in regulating gene expression in Drosophila at the local and global levels. **Amina Kurbidaeva**

158 - 5:15 A DNA/RNA dual activity topoisomerase regulates transcription through distinct mechanisms . **Seung Kyu Lee**

159 - 5:30 Activating and repressing stochastic gene expression between chromosomes. **Elizabeth Urban**

160 - 5:45 LlamaTags: A genetic tool to visualize rapid transcription factor dynamics in living embryos. **Jacques Bothma**

Saturday, April 14
4:00 p.m. – 6:00 p.m.
5th Floor, Salon H

Physiology, Metabolism and Aging II

Session Chairs:
Stephen Helfand,
Daniela Drummond-Barbosa,
Jackson R. Taylor

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161 - 4:00 VEGF/Pvf1 mediated muscle-oenocyte communication regulates systemic lipid homeostasis. **Arpan Ghosh**

162 - 4:15 Lipid droplets: Novel mediators of antibacterial immunity in *Drosophila*. **SNEH HARSH**

163 - 4:30 Mechanisms underlying peripheral insulin resistance and metabolic dysfunction caused by chronic immune activation. **Brittany Martinez**

164 - 4:45 Non-canonical autophagy controls steroid hormone synthesis and developmental timing by regulating cholesterol trafficking. **Xueyang Pan**

165 - 5:00 Pigment-dispersing factor signalling functions in the *Drosophila* prothoracic gland to regulate body size and developmental timing. **Melissa Saligari**

166 - 5:15 Allatostatin-A promotes larval developmental progression. **Nuria Romero**

167 - 5:30 The *Drosophila* mitochondrial citrate transporter regulates L-2-hydroxyglutarate accumulation by coupling the tricarboxylic acid cycle with glycolysis. **Hongde Li**

168 - 5:45 Regulation of Mitochondrial Complex I Biogenesis in *Drosophila* Flight Muscles. **Edward Owusu-Ansah**

Notes

Sunday, April 15
8:30 a.m. – 12:00 noon
5th Floor Salons E-H

Plenary Session II

Session Chairs:
Pam Geyer,
Noah Whiteman,
Gio Bosco

Presentations:

8:30 Non-conventional autophagy in the prothoracic gland mediates a larval nutritional checkpoint through alteration of cholesterol trafficking. **Michael O'Connor**

9:00 Sexual interactions and the evolution of species isolating barriers. **Leonie Moyle**

9:30 Regulation of stem cell number in the intestine. **Benjamin Ohlstein**

10:00 - **Break**

10:30 Highways for repair: nuclear actin filaments and myosins relocalize heterochromatic DNA breaks to the nuclear periphery. **Irene Chiolo**

11:00 Effects of the gut microbiota on host behavior and homeostasis. **Julien Royet**

11:30 Looking at chromosomes. **Chaoting Wu**

Notes

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POSTERS

Intracellular Dynamics: Cytoskeleton, Organelles & Trafficking

169 Phosphorylation of septin protein Pnut is important during early stages of embryonic development in *Drosophila*. **Katarina Akhmetova**

170 Myosin regulation during *Drosophila* salivary gland invagination. **Se-Yeon Chung**

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

172 The polarity protein kinase Par-1 promotes Diaphanous activity for cleavage furrow ingression in the syncytial *Drosophila* embryo. **Tao Jiang**

173 Microtubules and microtubule plus end-binding proteins EB1 and CLIP-190 are essential for the spatiotemporal regulation of actin cable initiation and for the organization of the actin cable array during oogenesis. **Ashley Leslie**

174 Spatiotemporal precision of actin cable production is regulated by actin assembly factors and microtubule crosstalk in nurse cells of the Drosophila egg chamber. **Gregory Logan-Graf**

175 Novel concepts of microtubule regulation during neuronal growth, maintenance and degeneration. **Andreas Prokop**

176 Echinoid Negatively Regulates Actomyosin network during Epithelial Morphogenesis. **Rahul Rote**

177 Proximity-dependent biotinylation as a tool to identify ring canal protein interactomes in the *Drosophila* ovary. **Rebecca Starble**

178 Identification of components of Abl signaling pathways that direct cell migration during morphogenesis. **Madison Ward**

179 Zasp52 LIM domains mediate protein recruitment to the Z-discs. **Yushu Xiao**

180 Collision of expanding actin caps with actomyosin borders for cortical buckling and mitotic rounding in a syncytium. **Yixie Zhang**

181 Endosomal vacuoles of the prepupal salivary glands of *Drosophila* play an essential role in the metabolic reallocation of iron. **Robert Farkas**

182 Non-apoptotic function of the executioner caspase drICE is required for endosomal trafficking and tracheal elongation. **Saoirse McSharry**

183 Proper Endoplasmic Reticulum partitioning is necessary for mitotic progression in Drosophila neuroblast. **Jose Ortega**

184 Mechanisms for EGFR signaling regulation by intracellular trafficking in Glioblastoma. **Marta Portela Esteban**

185 Cholinergic activity-dependent episodic anterograde transport of Choline Acetyltransferase by Kinesin-2. **Krishanu Ray**

186 The V-ATPase V1 subunit A1 is required for rhodopsin anterograde trafficking in *Drosophila*. **Haifang Zhao**

187 Coordination of Class II PI3-kinase and Mtm PI3-phosphatase functions in autophagy. **Amy Kiger**

188 Regulation of endosomal Microautophagy in Drosophila. **Ana Mesquita**

189 Stabilized Acinus manages cellular stress and extends life by elevating basal levels of Autophagy. **NILAY NANDI**

190 The role of Clueless in mitochondrial function. **Kelsey Sheard**

191 Inappropriate physical interactions between storage organelles interfere with their normal trafficking during embryogenesis. **Michael Welte**

192 Tracking Centrosomes to Follow Endoplasmic Reticulum Inheritance in *Drosophila* Embryos. **Cecelia Brown**

193 Dynein associates the endoplasmic reticulum with centrosomal microtubules but is not required for mitotic partitioning of the organelle. **Darya Karabasheva**

194 Maintenance of visual neurotransmission during prolonged light requires AMPylation of BiP. **Andrew Moehlman**

195 Roles of spastic paraplegia proteins in organising a dynamic axonal ER network. **Cahir O'Kane**

196 Investigating the role of nucleocytoplasmic transport in Inclusion Body Myositis. **Kyla Britson**

197 Nuclear Wash functions in multiple nuclear complexes to affect nuclear morphology/events. **Susan Parkhurst**

198 Dynamics of histone nuclear import in the early *Drosophila* embryo. **Yuki Shindo**

199 A New Twist in an Old Saga: an Essential Role of *Drosophila* RanGAP at the Nuclear Pore. **Shane Chen**

200 Analysis of Gp210 function in *Drosophila melanogaster*. **Sean Speese**

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202 Investigating the roles of Fascin in collective cell migration using Drosophila border cell migration. **Maureen Lamb**

203 Balance of action by integrin-associated proteins revealed by myofibril attachment. **Nicholas Brown**

Cell Biology & Signal Transduction

204 Understanding how Hedgehog signaling regulates Cubitus Interruptus using the CRISPR/Cas9 gene editing system. **Jamie Little**

205 Examining the effectiveness of knocking down the Hedgehog signaling pathway using different RNAi lines in *Drosophila*. **Julia Spear**

206 Screening Candidates from a Genetic Screen to Identify Novel Regulators of Wingless Signaling. **Alan Gutierrez**

207 Emc regulates wingless signaling through Hippo-dependent non-apoptotic caspase signaling. **Sudershana Nair**

208 Drosophila Glioma models to study therapy resistance. **Logan Roebke**

209 Dally-like differentially regulates Wnt ligands in *Drosophila* germarium to promote GSC maintenance and differentiation. **Indrayani Waghmare**

210 Wg signaling *in vivo* alters Axin-Sgg interactions to inhibit destruction complex activity. **Marcel Wehrli**

211 Length and Organization of Interfollicular Stalks is Critical for Oogenesis and Fecundity. **Alexandra Mascaro**

212 Muscle secreted Myoglianin regulates imaginal disc size. **Ambuj Upadhyay**

213 Stem cell-niche interactions in the *Drosophila* ovarian germline. **Scott Wilcockson**

214 The *Drosophila* TGF-beta/Activin-like ligands Dawdle and Myoglianin modulate adult lifespan through regulation of 26S proteasome function in adult muscle. **Changqi Zhu**

215 Lgl regulates endosomal vesicle acidification and Notch signaling by promoting Vap33 interaction with the V-ATPase complex. **Marta Portela Esteban**

216 Molecular characterization of JAK/STAT regulation of spermatid differentiation. **Sepideh Dadkhah**

217 Understanding the role of a nurse cell protein Cup, in border cell migration during *Drosophila* oogenesis. **Banhisikha Saha**

218 Mind bomb 2, a negative regulator of STAT activity, is required for normal border cell migration. **Sunny Trivedi**

219 Loss of the mucosal barrier alters the progenitor cell niche via JAK/STAT signaling. **Liping Zhang**

220 Tools for tracking Akt kinase kinetics in *Drosophila melanogaster*. **Didem Sarikaya**

221 Identifying the molecular mechanism of the Jub/α-Catenin mechanosensitive interaction. **Herve Alegot**

222 β-Integrin is required for wound-induced polyploidization. **Rose Besen-McNally**

223 The role of Yorkie in different stages of eye development through the utilization of different binding partners of?*Drosophila melanogaster*. **Batoul Nasser**

224 Dorsal/NF-κB in the Drosophila Embryo Exhibits a Ventral-to-Dorsal Gradient in Mobility. **Hadel Al Asafen**

225 Feedback by Sprouty controls the effects of activating mutations from RASopathies. **Rob Marmion**

226 A functional screen identifying novel *Drosophila* Egf receptor targets with roles in eggshell morphology. **Alexis Morgan**

227 Investigation of eRpL22-like function in *Drosophila melanogaster* eye development through consequences on EGF signaling. **Caroline Pritchard**

228 Probing PLC-γ function in Drosophila by *in vitro* mutagenesis. **Justin Thackeray**

229 A Deficiency Screen for Genetic Interactors of Jagunal in Drosophila. **Sydney Alvarado**

230 Characterization of Antibodies Developed against Two Basement Membrane Degraders in *Drosophila melanogaster*. **Afolasayo Aromiwura**

231 Genetic dissection of interommatidial cell calcium signaling. **Henry Chang**

232 Ecdysone regulates epithelial barrier maturation in wing imaginal discs. **Danielle DaCrema**

233 4e Binding Protein is essential for adaptation to hypoxia in *Drosophila*. **Maximiliano Katz**

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235 Differential response of *Drosophila* cell lines to high extracellular adenosine. **Lucie Kucerova**

236 Functional characterization of concentrative nucleoside transporter 2 (CNT2) in *Drosophila melanogaster*. **Houda Ouns Maaroufi**

237 Role of STIM and Orai Ca^{2+} signaling proteins in developmental cardiomyocyte growth. **Courtney Petersen**

238 Identification of Novel Proteins Required for Ras Membrane Localization Using the *Drosophila* Eye. **Julie Gates**

239 Identification of a conserved Rabex-5 ubiquitination signal in Ras. **Rewatee Gokhale**

240 The small GTPase Rala is required for lymph gland homeostasis in *Drosophila* . **Helene Knaevelsrud**

241 Calcium-dependent regulation of actomyosin contractility in epithelia. **Megan Levis**

242 Investigating precise regulation of the RhoA GTPase in tissue folding. **Marlis Kristina Denk-Lobnig**

243 Protein Kinase C δ regulates the structure and dynamics of cellular protrusions of migrating border cells. **Dorothea Godt**

244 Role of α-Catenin actin-binding domain in regulating cadherin complex interaction with the F-actin cytoskeleton. **Ritu Sarpal**

245 Using pathway-specific downstream genes to quickly evaluate changes in signaling status in RNA-seq data. **Wei Song**

246 Coordinated regulation of microRNAs by ATM/E2F1/p53 in Drosophila at physiological condition and at DNA damage response. **Xiaolin Bi**

247 Defining the mechanisms by which the Crk family of adaptor proteins regulate cell adhesion and actin dynamics during neural development and morphogenesis. **Andrew Spracklen**

248 Identifying kin17 as a potential novel regulator of autophagy, using GWAS technologies in *D. melanogaster*. **AXelle Weeger**

249 Establishing a model of BM damage and analyzing its repair. **Angela Howard**

250 Calcium signaling dynamics in the early response to epithelial wounds. **James O'Connor**

251 A targeted RNAi screen for conserved cell junction genes involved in collective cell migration of border cells in the Drosophila ovary. **Nirupama Kotian**

252 Study the roles of *mir-274* on cell invasion in the *Drosophila* wing epithelia model. **Chih-Hsuan Chang**

253 Defining the Role of the Novel Protein CG1674 in Adult Muscle Development. **Emily Czajkowski**

254 Maintenance of retinal integrity by the Abelson kinase during *Drosophila* eye morphogenesis. **Xiao Sun**

255 A novel role for Sex Peptide in packaging seminal proteins in the male accessory gland for delivery to females. **Mark Wainwright**

256 Coordination and crosstalk between muscle development and innate immunity in *Drosophila melanogaster*. **Nicole Green**

257 Elucidating the Role of Eip63E in *Drosophila* Axonal Transport. **Susan Klinedinst**

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259 Sensing mechanical force during cell division. **Ines Cristo**

260 Crumbs and Xpd regulate mitotic motor kinesin-5 for chromosome segregation in Drosophila. **Jihyun Hwang**

261 IRBIT promotes differentiation during tissue regeneration in the Drosophila midgut. **Alexei Arnaoutov**

262 Collective Dynamics of Cell Cycles in the Drosophila Germline. **Caroline Doherty**

263 Noncanonical functions of Phenylalanyl tRNA synthetase. **Beat Suter**

264 Genetic control of tissue-specific growth in the larval trachea of *Drosophila*. **Kayla Wilson**

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266 Regulation of the meiotic spindle and sister centromere cohesion in oocytes by antagonism between PP2A and Aurora B kinase. **Amy Gladstein**

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268 Redox state alteration at the onset of development in *D. melanogaster*. **Boryana Petrova**

269 The roles of Dalmatian in meiotic cohesin regulation in *Drosophila*. **Zachary Sisco**

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271 Structural-Functional characterization of Pericentrin like proteinprotein(*Plp*). **RAMYA VARADARAJAN**

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273 Error-prone DNA repair in *Drosophila*: the missing link between polymerase theta structure and function. **Justin Blanch**

274 Elucidating the multiple functions of POLDIP2 in *Drosophila melanogaster*. **Juan Castaneda**

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280 The role of systemic factors in regulating mitotic and hypertrophic injury responses. **Scott Allen**

281 An RNAi screen to discover deubiquitinases (DUBs) important for the cell cycle. **Jennifer Bandura**

282 Stem cell proliferation is regulated by Myt1 in the *Drosophila* intestine. **Reegan Willms**

283 *jim lovell* (*lov*) acts downstream of *dmyc* to regulate endopolyploid growth in the larval stages. **Kathleen Beckingham**

284 A switch from compensatory proliferation to compensatory hypertrophy in the injured *Drosophila* hindgut. **Erez Cohen**

285 Cell cycle re-entry in the adult *Drosophila melanogaster* brain. **Shyama Nandakumar**

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288 A new paradigm for regulation of apoptosis by intracellular pH dynamics. **Jobelle Peralta**

289 Modulation of $CRL4^{Cdt2}$ activity in the syncytial embryo. **Christina Swanson**

290 Regulation of Dap protein stability in the female germline. **Christina Swanson**

291 $CRL4^{Cdt2}$ function during chorion gene amplification. **Christina Swanson**

292 Modification of tumorigenesis microenvironment by a microRNA. **Wu-Min Deng**

293 Expression pattern observation of *CG6191* (*Mary Shelley*) in *Drosophila melanogaster* and the link between its homolog *Cables1* and epithelial based cancers in humans. **Amber Elinsky**

294 Regulation of *dronc* in development and cancer. **Karishma Gangwani**

295 Yorkie drives tumor progression by antagonizing Pointed/ETS-mediated cellular senescence. **Takao Ito**

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298 Cell Type-Specific Response to Spindle Misorientation and Effects on Tissue Growth. **Amalia Parra**

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300 Cell competition eliminates aneuploid cells after irradiation. **Zhejun Ji**

301 Growth regulation by the bZip-domain protein Xrp1 in *Minute* ($Rp^{+/-}$) cells . **Amit Kumar**

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304 Loss of *foxo* rescues stem cell aging in *Drosophila* germ line. **Hannele Ruohola-Baker**

305 Tsc/Tor pathway regulates specific *de2f1* transcript-isoforms to control cell size and proper development. **Mary-Rose Bradley-Gill**

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308 Cut alters the chromatin landscape of the reaper locus to facilitate neuroblast death. **Seda Gyonjyan**

309 Restriction of apoptosis in *Drosophila* neural stem cells. **Katherine Harding**

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311 Exocytosis and lysosomal gene involvement in nurse cell phagoptosis. **Oandy Naranjo**

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313 Loss of the fatty acid elongase ELOVL6 rescues ER stress-induced apoptosis. **Rebecca Palu**

314 Investigating the scramblase function for corpse clearance in the *Drosophila* ovary. **Jeanne Peterson**

315 The ABC transporter *Eato* promotes cell clearance in the *Drosophila melanogaster* ovary. **Clarissa Santoso**

316 Characterizing stretch follicle cell dynamics during nurse cell phagoptosis. **Yuanhang Zhang**

317 Actin cytoskeletal remodelling mediates activation of apoptosis-induced cell proliferation. **Luchi Farrell**

318 Use of fluorescent bacteria to probe the phagosomal environment in wild-type and mutant hemocytes. **Catherine Brennan**

319 Determining the role of innate immunity in phagocytic defect-driven neurodegeneration. **Johnny Elguero**

320 Nubbin isoform antagonism governs intestinal immune homeostasis. **Bo Lindberg**

321 Induction and inhibition of host immune responses to Kallithea Virus, a natural dsDNA virus of *D. melanogaster*. **William Palmer**

322 Defining the Transcriptional Program that Limits Enteric Viral Infections in Drosophila. **Elisha Segrist**

323 *Drosophila* crystal cells undergo pyroptosis to release pro-phenoloxidase at wound sites. **Alexis Dziedziech**

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325 Natural variation in larval crystal cell number across the DGRP. **Brian Tang**

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328 Impact of Chronic Infection on Tolerance and Resistance in *Drosophila melanogaster*. **Francesco Satriale**

329 Enterotoxigenic *E. coli* heat-stable toxin disrupts trafficking to intercellular junctions. **Curtis Sera**

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336 Absorbing epithelium of the midgut as the model to study toxicity mechanisms of the heavy metal cadmium. **Anton Bryantsev**

337 Dissecting JNK-mediated cell elimination in *Drosophila*. **Mai Nakamura**

338 Investigating neurodegeneration that arises from defective glial phagocytosis. **Katie Tiemeyer**

Physiology, Metabolism & Aging

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342 A phenotypic landscape of mechanisms underlying resistance to multiple stressors. **hiroshi nishida**

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344 A transcriptional switch during oxidative stress of p38 MAP Kinases revealed through species comparisons. **Kaitie Wildman**

345 The control of fat storage by splicing factors in *Drosophila*. **Ryan Bennick**

346 Examination of the competition between the SR proteins 9G8 and RFS1 in the alternative splicing of CPT1 in lipid metabolism. **Benjamin Borokhovsky**

347 The regulation of triglyceride storage by Ornithine decarboxylase (Odc1) in *Drosophila*. **Austin Fruin**

348 The gene alan shepard (shep) regulates organismal energy homeostasis in multiple metabolic organs. **Claire Gillette**

349 Role of Chloride intracellular channels in the aging heart. **Shubha Gururaja Rao**

350 Downregulation of mTOR requires cysteine degradation and anaplerosis. **Patrick Jouandin**

351 The Regulation of Lipid Metabolism by Heterogeneous Nuclear Ribonucleoproteins (hnRNPs) in *Drosophila*. **Jacqueline Kanaskie**

352 Defining how dERR regulates growth during *Drosophila* Oogenesis. **Nader Mahmoudzadeh**

353 Large Scale Genetic Screen to Identify Metabolic Regulators of Specification and Differentiation. **Rose Massey**

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358 Metabolic characterization of the *Drosophila* E78 nuclear receptor. **Sophia Praggastis**

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360 Drosophila ceramide synthase Schlank regulates transcription according to lipid status. **Mariangela Sociale**

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362 The identification of SR proteins crucial to the alternative splicing of the glucose-6-phosphate dehydrogenase coding gene by NADPH production assays. **Mason Tracewell**

363 Reduced lipogenesis alters lipid profiles and exacerbates type 2 diabetic phenotypes in *Drosophila*. **Bryon Tuthill**

364 Muscle directs diurnal energy homeostasis through a myokine-dependent hormone module in Drosophila. **xiao zhao**

365 Intergenerational Effects of Nutrition on Abdominal Cuticle Pigmentation in *Drosophila Melanogaster*. **Carolina Alvarez**

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367 A novel dye-based method for measuring solid media consumption in adult Drosophila. **Michael Grotewiel**

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369 SIK2 coordinates animal growth via protein and carbohydrate sensing. **Linda Parsons**

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371 Effects of Diet and Genotype on Cardiovascular Health in Drosophila. **Christopher Quaglia**

372 GATA factor Pannier plays an essential role for proper sperm storage in adult spermathecae. **Wei Shen**

373 Metabolic analysis of critical weight. **Tharindu Fernando**

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378 The mitochondrial alternative oxidase mitigates the effects of cold stress in *Drosophila melanogaster*. **Geovana Garcia**

379 Mitochondrial Genotype Alters Metabolic and Transcriptional Regulation by TOR Signaling in *Drosophila*. **John Santiago**

380 The role of the ribonucleoprotein Clu in mitochondrial health and protein import. **Aditya Sen**

381 A soma to germline signaling relay triggers OXPHOS biogenesis during early oogenesis essential for *Drosophila* mitochondrial inheritance. **Zong-Heng Wang**

382 A mitochondrial rescue of a nuclear defect in starvation resistance and lipid levels in Drosophila. **Shawn Williams**

383 Effects of Hemocytes and Hemocyte Signaling on Longevity in Drosophila. **Anton Bryantsev**

384 Exploring the role of histones in replicative and organismal ageing in *Drosophila melanogaster*. **Sudarshan Chari**

385 RiboTag Profiling of aging and oxidative stress responses in adult hepatocyte-like cells. **Kerui Huang**

386 Circadian environmental cues modulate aging in *Drosophila melanogaster*. **Jacob Johnson**

387 The Anti-aging Effect of Resveratrol-Enriched Rice Callus DJ526 on Wild-type *Drosophila melanogaster*. **Mousumee Khan**

388 De novo retrotransposon insertions mediated by Myc affect lifespan and aging-associated phenotypes in *Drosophila melanogaster*. **Shannon Lightcap**

389 How can the anti-senolytic drug combination of Dasatinib and Quercetin extend lifespan in *Drosophila melanogaster*? **Joel Parker**

390 How does social environment affect aging in *Drosophila melanogaster*? **Joel Parker**

391 Toward a Genome-Wide Association Study of Diet Related Mortality in *Drosophila melanogaster*: High Sugar Diet. **Sumit Patel**

392 Dh31 signaling regulates *Drosophila* oogenesis. **Tianlu Ma**

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394 Octopamine drives endurance exercise adaptations in *Drosophila*. **Alyson Sujkowski**

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397 Structure-function analysis of Tribbles identifies conserved motifs in the protein regulating subcellular trafficking and novel targets modulating Notch signaling. **Leonard Dobens**

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677 Functional evolutionary genomics of duplicated genes in the *Drosophila melanogaster* lineage. **Alexandra Jones**

678 Behavioral analysis of mate discrimination by *Drosophila sechellia* against *D. melanogaster* by using partial hemizygous hybrid females. **Masatoshi Tomaru**

679 Expanding functional horizons or evolutionary combat? Evaluating drivers of the rapid evolution of *bag of marbles* in *Drosophila.* **Jaclyn Bubnell**

680 Variation in stress tolerance is associated with environmental differences in *Drosophila americana* group. **Jeremy Davis**

681 X chromosome homozygosity in D. melanogaster females does not reduce lifespan as predicted by the unguarded X hypothesis. **Christopher Kimber**

682 Maximum likelihood estimation of sex-dependent fitness costs of a *yellow* mutant allele in *Drosophila melanogaster*. **Jingxian Liu**

683 Nuclear influence on mitochondrial DNA competition and transmission. **Hansong Ma**

684 A battle for mitochondrial DNA transmission. **Hansong Ma**

685 Impacts of Recurrent Hitchhiking on Divergence and Demographic Inference in *Drosophila*. **John Pool**

686 Discerning the historical and genetic relationship between the endosymbiotic bacteria *Wolbachia* and the *Drosophila* germline stem cell gene *bag of marbles*. **Miwa Wenzel**

687 Evolutionary Probability: A population-orthogonal framework for investigating ancient and contemporary selection. **Ravi Patel**

688 Pervasive correlation of molecular evolutionary rates in the tree of life. **Qiqing Tao**

689 Putting up with parasites: *bruno* reduces tolerance of transposition in the female germline. **Erin Kelleher**

690 Satellite Repeats are Associated with Host Tolerance of an Active TE. **Jyoti Lama**

691 Natural genetic variation in color perception in *Drosophila*. **India Reiss**

692 Identifying genetic modifiers of flight performance using the Drosophila Genetic Reference Panel. **Adam Spierer**

693 Genome Wide Association studies on nutraceutical effects of various chili peppers on *Drosophila melanogaster*. **Nirwan Tandukar**

694 Repeated horizontal gene transfer from bacteria to *Drosophila*. **Kirsten Verster**

695 *Scaptomyza flava* as a model for testing the role of gut bacteria in the evolution of herbivory. **Rebecca Duncan**

696 Interspecific bias in *Drosophila* aggression depends on genetic distance. **Brent Lockwood**

Evolution of development, other species

697 Determining binding specificities of cell adhesion molecules from *Drosophila* and other related Dipterans. **Leah Anderson**

698 Identifying mechanisms of cold hardiness across metamorphosis in *Drosophila melanogaster*. **Philip Freda**

699 Identifying the genetic basis of eye size variation in *Drosophila* melanogaster and *Drosophila simulans* . **Pedro Gaspar**

700 Axon Guidance at the Midline: Evolution of the Commissureless Protein Family. **DAVID GLASBRENNER**

701 Incorporation of horizontally transferred genes into the embryonic patterning network of the wasp *Nasonia*. **Daniel Pers**

702 Investigating morphological novelty in the evolution of the *Drosophila* genitalia. **Gavin Rice**

703 Investigating the developmental network of the posterior lobe, a novel morpholical structure. **Donya Shodja**

704 The cellular mechanisms accounting for the evolutionary adaptation of closed to open rhabdoms in compound eyes. **Andrew Zelhof**

705 Stop codon readthrough of a POU/Oct transcription factor regulates *Drosophila* development. **Yunpo Zhao**

706 Interommatidial bristles: An exceptionally variable trait in the Dipteran tree of life. **Markus Friedrich**

707 The show must go on: Maintaining a segmented body plan after the loss of a key regulatory gene. **Alys Cheatle Jarvela**

708 Identification of *Aedes* Cadherin protein function and examination of its localization by recent gene editing tools. **Jianwu Chen**

709 Epistatic interspecies allelic interactions generate facial developmental defects in haploid hybrid Nasonia wasps. **Jeremy Lynch**

710 Canonical telomeres in *Photinus* pyralis. **Isaac Wong**

711 Sexed Adult Tissue Expression Atlas for the Drosophila genus. **Haiwang Yang**

Patterning, Morphogenesis and Organogenesis

712 Rpd3 controls the concentration-dependent gap genes homeostasis in *Drosophila* embryos. **Paromita Das**

713 Understanding diversity along Antero-posterior body axis. **Narendra Singh**

714 Opposing transcriptional and post-transcriptional roles for Scalloped in Hippo-dependent fate decisions. **Tiffany Cook**

715 Eyeless/Pax6 Promotes Eye Development from the Peripodial Membrane through Pattern Formation and Dpp Expression. **Luke Baker**

716 Armadillo (β-catenin) transduces canonical Wnt signaling to specify the peripodial epithelium of the developing *Drosophila* eye. **Dana DeSantis**

717 Growth Regulatory Pathway collaborates with Axial Patterning Genes to regulate Patterning and Growth in *Drosophila* Eye. **NEHA GOGIA**

718 Yki promotes non-neural PE fate in the eye imaginal disc and is indirectly regulated by PP2A. **Scott Neal**

719 Identifying Gene Regulatory Networks within the Drosophila Eye-Antennal Disc. **Bonnie Weasner**

720 The IAP inhibitors *reaper, hid, and grim* prevent neoplastic transformation of regenerating tissues. **Cristina D'Ancona**

721 The role of the *Rbf1* tumor suppressor in the differentiation and maintenance of *Drosophila* muscles. **Anton Bryantsev**

722 Examining the genetic mechanisms underlying muscle identity. **Krista Dobi**

723 Mrtf has an early SRF-independent role in adult muscle development. **Tracy Dohn**

724 Analysis of novel heart defects in *akirin* mutants. **Hayley Milner**

725 Akirin interacts with chromatin remodeling complexes to influence myogenic gene transcription. **Kristina Palermino-Rowland**

726 Slik phosphorylation of talin T152 is crucial for proper talin recruitment and muscle attachment in *Drosophila*. **Frieder Schoeck**

727 dLmx1a is required for the development of the ovarian stem cell niche in *Drosophila*. **Benoit Biteau**

728 Pri peptides temporally repress the expression on cuticle genes during Drosophila development. **Helene Chanut-Delalande**

729 Trithorax Group proteins cooperate with Pax6 to control proper fate identity in the *Drosophila* eye-antennal disc. **Alison Ordway**

730 *Mirror* Regulates Proper fate Determination in the *Drosophila* Eye-Antennal Disc. **Gary Teeters**

731 Loss of general transcription factors leads to tissue specific phenotypes. **Lena Weber**

732 Functional divergence between eRpL22 paralogues in *Drosophila melanogaster* interommatidial bristle morphogenesis. **Brett Gershman**

733 Characterizing the regulatory role of DV patterning during axis elongation. **Matthew Lefebvre**

734 *Drosophila melanogaster* imaginal disc model to identify and determine the regeneration potential of *Notophthalmus viridescens*-newt- genes. **Abijeet Mehta**

735 Integrins: Shaping organs and cells. **Carmen Santa-Cruz Mateos**

736 Mechanical stress-induced cell cycle modification in epithelial morphogenesis. **Yoichiro Tamori**

737 CRISPR/Cas9 Survey of Drosophila modENCODE Cell Lines. **Andrew Zelhof**

738 Influence of Ecdysone Receptor Signaling on Border Cell Migration Kinetics. **Mallika Bhattacharya**

739 Modifier screen in *D. melanogaster* identifies genes involved in tubulogenesis. **Claudia Espinoza**

740 Biophysical and genetic analysis of mechanical forces behind collective cell migration. **Anna Kabanova**

741 The extracellular protease *AdamTS-B* plays an important role in tracheal tube formation during embryogenesis. **Abigail Thuringer**

742 *Macroglobulin complement-related* is required for border cell migration in *Drosophila melanogaster*. **Lindsay Ussher**

743 The separation of Dorsal-Ventral layers during cellularization is orchestrated by a morphogen-regulated cell migration. **Yongqiang Xue**

744 *kayak* isoforms in Drosophila. **CARLOS ALFONSO GONZALEZ**

745 *Macroglobulin complement-related* is required for egg shape during *Drosophila melanogaster* oogenesis. **Haifa Alhadyian**

746 What's in a wrap? Steps that link patterning and morphogenesis during dorsal appendage formation. **Rachel Dam**

747 Synchrony and Timing of Nuclear Cycles Ensure Proper Epithelial Morphogenesis. **Nareg Djabrayan**

748 Spindle Orientation Drives Tissue Regularity in an Elongating Epithelium. **Tara Finegan**

749 The FERM protein Yurt is required for the stability of adherens junctions and couples DE-cadherin to actomyosin. **Milena Pellikka**

750 Cytonemes mediate formation of a morphogen gradient of FGF during branching morphogenesis of Drosophila trachea
. **Sougata Roy**

751 Proteolytic cleavage of Bnl is necessary for its long-range dispersion and signaling. **Alex Sohr**

752 The Notch signaling pathway specifies cardiac cell subtypes by utilizing distinct permissive and instructive mechanisms to regulate the expression of different pericardial genes. **John Dalloul**

753 Drosophila *fibulin* is required for proper somatic and visceral muscle development during embryogenesis. **Anna Doane-Ramkhalawon**

754 Downstream targets of the Forkhead domain transcription factor Jumeau mediate cardiac progenitor cell specification and division. **Andrew Kump**

755 The role of Forkhead domain transcription factors and their downstream targets in mediating proper positioning of cardiac cells. **Manoj Panta**

756 Ribbon determines cell growth during tubulogenesis by transcriptional regulation of the translational machinery. **Rajprasad Loganathan**

757 Septate junction proteins play a critical role during dorsal closure. **Clinton Rice**

758 A different perspective on the role of *crumbs* in rhabdomere morphogenesis: linking redox balance and sphingolipid metabolism in eye development. **Sarita Hebbar**

759 Functional domains of the ADAMTSL-protein Lonely heart and its role on cardiac matrix formation. **Yanina Post**

760 *Imaginal Disc Growth Factor (IDGF)* mutant phenotype worsens under CO_2 stress. **Anne Sustar**

Regulation of Gene Expression

761 Using Oxford Nanopore Sequencing to Investigate the Y Chromosomes of the Malaria Mosquitoes. **Austin Compton**

762 Investigating sequence interdependencies in *Drosophila* and human core promoter elements. **Jacqueline Dresch**

763 The role of protein-protein interaction motifs in coordinating the DNA binding and regulatory specificity of Hox proteins. **William Glassford**

764 A structural and biochemical dissection of the Histone Locus Body. **James Kemp**

765 A CTD of RNA polymerase II composed solely of consensus heptads is sufficient for *Drosophila* development. **Feiyue Lu**

766 An optogenetic approach to investigate Zelda function in the early embryo. **Stephen McDaniel**

767 Post-Translational Modification of Vestigial Is Required for Proper Fate Specification in Wings and Embryonic Muscle. **Virginia Pimmett**

768 The gene *tfiia-s-2* encodes a testis-specific homolog of a TFIIA subunit. **Helen Shapiro-Albert**

769 Systematic Screening for Transcriptional Regulators of Adult Myogenesis in Drosophila by RNAi. **Tommy Soudachanh**

770 Pointed is necessary and sufficient for establishing the posterior end of the follicular epithelium. **Cody Stevens**

771 modERN project update. **Alec Victorsen**

772 Insulators flanking the *even skipped* locus, *homie* and *nhomie*, block transcription read-through that would otherwise cause enhancer imbalance. **Miki Fujioka**

773 Notch actvity elicits changes in Su(H) nuclear dynamics. **Sarah Bray**

774 Dynamic localization of Zelda in syncytial mitoses. **Shao-Kuei Huang**

775 A dominant modifier genetic screen for factors that interact with CDK8-Cyclin C identifies components of the Dpp signaling pathway in *Drosophila*. **Mengmeng Liu**

776 Identifying Gcm/Repo transcription co-regulators in glial cell development. **Glendin Pano**

777 Novel roles for Retinoblastoma proteins: linking cell cycle and cellular growth. **David Arnosti**

778 Polymerization-driven transcriptional regulation and dysregulation in the developing fly eye: a view from the human ETS repressor TEL/ETV6. **Juana Delao**

779 Understanding the role of Capicua in genome-wide regulation in the early fly embryo. **Shannon Keenan**

780 Temporal features of transcriptional enhancer activity dynamically specify segment polarity in *Drosophila*. **Philippe Batut**

781 Unused program number

782 Capturing the MicroFoam Structure of Regulatory Modules via Maximal Homology Alignment. **Albert Erives**

783 Visualization of transvection suggests the occurrence of transcription hubs in living *Drosophila* embryos. **Tyler Heist**

784 Investigating the evolutionary conservation of insulator sequences in *Drosophila*. **Laya Manoj**

785 *Cis*-regulatory requirements for wing-specific expression of the *apterous* gene. **Martin Müller**

786 Enhancer decommissioning during *Drosophila* wing development. **Matthew Niederhuber**

787 Proper coordination of gene expression and chromatin accessibility during wing metamorphosis requires the Broad-Complex. **Spencer Nystrom**

788 Enhancer communication: Individual enhancers with non-overlapping expression patterns can modulate each other's activity. **Joao Raimundo**

789 Dissection of the regulatory logic that underlies color vision. **Jens Rister**

790 Caudal counter-represses Hunchback to regulate *even-skipped* stripe 2 expression in Drosophila embryos. **Ben Vincent**

791 Characterizing the regulatory network of Salvador-Warts-Hippo pathway. **Lan-Hsin Wang**

792 Zelda Coordinates Transcriptional Kinetics in the Early Drosophila Embryo. **Peter Whitney**

793 Determination of EGFR Signaling Output by Opposing Gradients of BMP and JAK/STAT Activity. **Scott De Vito**

794 The Holes in Muscles Gene is a contributor to myogenesis and muscle development. **Sam McKitrick**

795 The m^6A pathway facilitates sex determination and neuronal function in *Drosophila*. **lijuan kan**

796 Tools to Regulate Gene Expression in *Drosophila*. **Thomas Jacobsen**

797 Translational regulation during embryogenesis by the Bin3 RNA methyltransferase. **Ryan Palumbo**

798 miRNA regulation of *dacapo* expression in the *Drosophila* embryo. **Christina Swanson**

799 *miR-31b* regulates adult muscle development in *Drosophila melanogaster*. **Daniel Wilson**

800 Temperature regulated silencing of genomic repeats. **Elinor Wood**

801 Identifying chromatin modifiers that regulate stochastic *spineless* expression. **Luorong xin Yuan**

802 Predicting microRNA targeting efficacy in Drosophila. **Vikram Agarwal**

803 Expanding the *Drosophila melanogaster* pigmentation gene regulatory network to include post-transcriptional regulation by microRNAs. **Abigail Lamb**

804 Evolutionarily conserved transcription factor binding sites and S2 cell occupancy as context-specific gene regulatory network priors. **Isabelle Berger**

805 Exploring the universal mechanism of feedback regulation of gene activity in *Drosophila*. **Daiki Kitamura**

806 Determining the function of the transcription factor Zelda in driving neural stem-cell fate. **Elizabeth Larson**

807 Cooperative recruitment of Yan to paired high affinity ETS sites organizes repression to confer specificity and robustness to cardiac cell fate specification. **Jean-Francois Lachance**

808 Deciphering the role of *cis*-regulatory elements in stochastic gene expression. **Jin Lu**

809 *cis*-regulatory architecture of an EGFR organizing center in *Drosophila melanogaster* distal leg. **Roumen Voutev**

810 Profiling the Effects of Endogenously Expressed Fat Intracellular Domain Mutants on the Wing Disc Transcriptome. **Daniel Potter**

811 Generation of Novel Tools to Study *IroC* Gene Function and Transcriptome-wide Analysis of *Iroquois-Complex* Target Genes in the *Drosophila* Olfactory System. **Ecem Cayiroglu**

812 Optogenetic control of gene expression in Drosophila ex vivo cultures. **Lorena de Mena**

813 Step-by-step evolution of Bicoid's target specificity. **Pinar Onal**

814 *Drosophila* third instar larval testes transcriptome study by single cell RNA sequencing (scRNA-Seq). **Sharvani Mahadevaraju**

Chromatin and Epigenetics

815 Positional information dependent acquisition of unique chromatin accessibility states. **Shelby Blythe**

816 Condensin II and *Drosophila* telomere clustering dynamics. **Vibhuti Rana**

817 Histone abundance changes chromatin accessibility in the early Drosophila embryo. **Henry Wilky**

818 The chromatin remodeling protein Kismet regulates synaptic pruning by controlling steroid hormone receptor expression. **Nina Latcheva**

819 HDAC inhibitors rescue aberrant phenotypes associated with loss of chromatin reader Kismet. **Jennifer Viveiros**

820 Using photoswitchable proteins to assess chromatin stability. **Julianne Ray**

821 Identification and characterization of inseparabile, a mutation that gives rise to compound chromosomes. **Farah Bughio**

822 Driving Gene Expression in the Heterochromatic Environment of the Fourth Chromosome of *D. melanogaster*. **Jacob Cantrell**

823 Repeat-induced Silencing in *Drosophila melanogaster*. **Sarah Elgin**

824 Epigenetic changes but no derepression of transposable elements or global loss of gene regulation in aging *D. melanogaster* germline and reproductive tissue. **Alexandra Erwin**

825 Epigenetic effects of transposable elements in 3D nuclear space. **Grace Lee**

826 Sequence and organization of *Drosophila melanogaster* centromeres. **Barbara Mellone**

827 Functions of the *Drosophila melanogaster* HP1 homolog HP1B. **Mina Momeni**

828 Reassessing the fundamental mechanisms of transgenerational epigenetic inheritance. **Nicholas Panayi**

829 Functional genomics study of satellite DNAs in *Drosophila* melanogaster. **Xiaolu Wei**

830 Germline stem cell maintenance factor Stonewall regulates transposons and testis-specific clusters in ovaries. **Daniel Zinshteyn**

831 Zinc-finger containing protein CLAMP promotes *gypsy* chromatin insulator function. **INDIRA BAG**

832 Determining isoform and cell-type specificity of RNA-binding protein Shep in antagonism of *gypsy* insulator activity. **Margarita Brovkina**

833 High content genome-wide RNAi screening for factors involved in the formation of *gypsy* insulator bodies. **shue chen**

834 COMPASS-like complex regulation of cell survival in *Drosophila* eye development. **David Ford**

835 The recognition of target gene transcriptional state by Polycomb Group Proteins. **Elnaz Ghotbi Ravandi**

836 Early developmental roles of the Cmi/Trr COMPASS-like complex in *Drosophila*. **Timothy Nickels**

837 Uncovering a role for the nucleoporin Megator in dosage compensation. **Jennifer Aleman**

838 Chromatin-bound nuclear pore proteins recruit chromatin remodeling complexes to induce DNA decondensation. **Terra Kuhn**

839 Dissecting the mechanism of X recognition in *Drosophila melanogaster* using a luciferase reporter. **Reem Makki**

840 Functional interplay between MSL1 and Cdk7 in transcription regulation. **Maria Samata**

841 Do satellite-binding proteins play a role in *D. melanogaster* dosage compensation? Do satellite-binding proteins play a role in *D. melanogaster* dosage compensation? **Maggie Sneideman**

842 The role of satellite-binding protein, proliferation disrupter, in chromocenter formation. **Ryan Cummings**

843 Argonaute2 and LaminB modulate gene expression by controlling chromatin topology. **Ezequiel Nazer**

844 Condensin II drives large-scale chromatin folding and genome compartmentalization in Drosophila. **Leah Rosin**

845 Similarity in replication timing between polytene and diploid cells is associated with the organization of the *Drosophila* genome. **Tatiana Kolesnikova**

846 Rif1 inhibits replication fork progression and controls copy number in Drosophila. **Jared Nordman**

847 A screen to identify genes that modify cell survival after loss of a single telomere in *Drosophila melanogaster*. **Rebeccah Kurzhals**

848 Social isolation mediates epigenetic changes in dopaminergic neurons of *Drosophila*. **Pavan Agrawal**

849 The histone demethylase KDM5 is essential for larval growth. **Coralie Drelon**

RNA Biology

850 The microRNA *miR-33* is a regulator of pigmentation in *D. melanogaster*. **Charmaine Chan**

851 Fragments of tRNA in Drosophila development. **Lingyu Guan**

852 Functional divergence among adaptively evolving TE regulators in *Drosophila*. **Luyang Wang**

853 Transposon landscapes in aging *Drosophila* and hybrid dysgenesis crosses. **Nelson Lau**

854 Long non-coding RNA regulation of Autophagy in Drosophila. **Mark Bouska**

855 *abd-A* regulation by the *iab-8*ncRNA. **Javier Castro-Alvarez**

856 Modeling polycystic kidney disease in the fly. **Chiara Gamberi**

857 Muscleblind is a novel modifier of FUS-associated amyotrophic lateral sclerosis (ALS). **Udai Pandey**

858 *Drosophila* germ granule mRNAs self-organize through a nucleation and cis-regulated recruitment mechanism. **Matthew Niepielko**

859 Mechanism of mRNA localization to *Drosophila* germ granules. **Tatjana Trcek Pulisic**

860 Epigenetic control of metazoan transcription and pre-mRNA processing by histone PTMs. **A. Gregory Matera**

861 Exploring a possible link between mRNA splicing and Nuclear Envelope Budding. **Sean Speese**

862 Regulation of Grk translation by cytoplasmic polyadenylation. **Krista Budinich**

863 Tet function in Drosophila. **Hiep Tran**

Techniques and Technology

864 Convolutional Neural Networks Based Segmentation of *in vivo* Drosophila Heart Imaging with Optical Coherence Microscopy. **Lian Duan**

865 Measuring Feeding Behavior of Individual Flies in a 96-well Format. **Sean Karott**

866 Using shRNA-mediated embryonic arrest to control for size differences in pooled sequencing. **Hyunho Lee**

867 Cell-based screen technologies at the Drosophila RNAi Screening Center. **Stephanie Mohr**

868 Optimized tissue-specific knockout via CRISPR/Cas9 reveals gene perdurance and redundancy in neuronal morphogenesis in *Drosophila*. **Chun Han**

869 A new resource from the TRiP: sgRNA stocks for gene overexpression and knockout by CRISPR-Cas9. **Jonathan Zirin**

870 Functional characterization of ultra-conserved small open reading frame (smORF) genes. **Justin Bosch**

871 482 Billion Reads and Counting: Re-mapping the Entire Drosophila Sequence Read Archive. **Justin Fear**

872 Pool-ddRADseq: accelerating the discovery of subtle segregation distortion. **Sarah Sander**

873 CloneScape: Discovering the landscape of clonal architecture from bulk sequencing profiles. **Sayaka Miura**

874 A web system for super-fast mining of Drosophila data using Sequence Bloom Trees. **Anton Nekrutenko**

875 FlyAtlas2.org - just like FlyAtlas.org, but even better. **Julian Dow**

876 DRSC Informatics Tools for Functional Genomics Studies – 2018 update. **Claire Hu**

877 FlyExpress 7: A novel discovery platform that integrates genome sequence data with spatiotemporal patterns of expression from in situ hybridizations in Drosophila. **Rob Kulathinal**

878 New supervised and unsupervised machine-learning methods on p38 MAPK longevity reveals regulation of age-dependent disease proteins. **Basheer Becerra**

879 Combining the auxin-inducible degradation system with CRISPR/Cas9-based genome editing: a novel tool for the conditional depletion of endogenous proteins in *Drosophila melanogaster*. **Melinda Bence**

880 Toward an automated systematic approach to multicellular motif analysis in tissue organization. **Tomer Stern**

881 Transgenesis 2.0: Selection-based genome manipulation in *Drosophila melanogaster*. **Nick Matinyan**

882 Drosophila larval fat body preparations to reveal regionalized gene expression. **Dilan Khalili**

Educational Initiatives

883 You're a fly scientist? How do I get the flies out of my kitchen? **Thomas Merritt**

884 Why the Fly? A K-12 outreach program that promotes the use of *Drosophila* as a model organism. **Alexis Nagengast**

885 Sequencing of a novel mutation in *Stat92E* by a student-led, open-ended research course. **Jennifer Armstrong**

886 Identification of genes required for viability through undergraduate research experiences. **Jamie Dyer**

887 First Year Research Experience [FYRE, course based research]: Introducing undergraduates to the research enterprise using Drosophila adult myogenesis as a model. **Joyce Fernandes**

888 Exploring PCR and RT-PCR as wet-bench alternatives to augment student experiences in a genomics based CURE. **Princess Mae Visconde**

D

E

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W

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Y

Z

WORKSHOPS AND SPECIAL EVENTS

Workshop applications were submitted and approved by the conference organizers. For a full agenda, where available, visit the conference website.

Wednesday, April 11
9:00 a.m. – 4:00 p.m.
4th Floor, Rm 411

New Faculty Forum

Your first faculty appointment brings many new challenges. Network, learn, and find support at the New Faculty Forum, a one-day workshop designed for new faculty (those within the first five years of their appointment) and advanced postdocs. Attendees will discuss common challenges, share their elevator pitches, and have opportunities to learn about:

- tools and techniques for managing budgets effectively;
- tips for negotiating and establishing relationships with vendors;
- how to be a supportive mentor;
- the basics of designing and teaching a new course;
- and more!

Revised to reflect participant feedback from last year, this focused event will allow you to form a strong network of peers with whom you can continue to collaborate, commiserate, and celebrate long after the meeting ends.

Wednesday, April 11
2:30 p.m. – 4:30 p.m.
5th Floor, Salon D

Ecdysone Workshop

Organizers:
Elizabeth Ables, **Kim Rewitz**

The Ecdysone Workshop highlights the diverse roles of insect hormones (e.g., 20-hydroxyecdysone, juvenile hormone, peptide hormones, insulin) and hormone receptors in growth, metamorphosis, reproduction, and metabolism. Presentations from trainees and new investigators will highlight recent findings in insect endocrinology, and foster discussion among individuals from diverse research interests. Topics include, but are not limited to: hormone synthesis and secretion, hormone-gated signaling and transcription, cross-talk between hormone signaling pathways, and hormonal control of differentiation, morphogenesis, growth, metabolism, reproduction, and behavior

Part I: Wednesday, April 11
2:30 p.m. – 4:30 p.m.
4th Floor, Rm 405

Part II: Friday, April 13
2:30 p.m. – 4:30 p.m.
4th Floor, Rm 4

GENETICS Peer Review Workshop

This two-part workshop will provide an introduction to peer reviewing for early career researchers, including graduate students. Led by *GENETICS* editors, the workshop will cover best practices and reviewing exercises. Becoming a better reviewer will help you hone some of the skills central to scientific success, including critical thinking, evaluating research, providing helpful feedback, and understanding the mindset and expectations of peer reviewers and editors.

NOTES

Thursday, April 12
7:45 p.m. – 9:45 p.m.
5th Floor, Salons F-G

Advocating Drosophila through using it as an Efficient Teaching Tool

Organizer:
Andreas Prokop

Science communication and science education are closely interlinked. Science education provides uniquely powerful opportunities to advocate Drosophila by reaching out to audiences at young age. This workshop will introduce to effective strategies and resources for extracurricular school events, curricular lessons taught by teachers, K12 practicals, and the training of university students. All these modalities use the fly as a teaching tool, introducing students to the idea of Drosophila research through teaching science WITH flies rather than educating ABOUT flies. Both, the scientist and the teacher perspective will be explained, alerting to the need of engaging in true school collaboration.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
5th Floor, Salon E

Drosophila Microbiome

Organizers:
Nichole Broderick, **Will Ludington**, **Brooke McCartney**

Microbiomes have profound impacts on the physiology and development of animal hosts and Drosophila has risen as a model to investigate mechanisms underlying these associations. This workshop will assemble a diverse group of presentations that highlight recent advances in the field of Drosophila-microbiome interactions. A major goal of the workshop is to provide a discussion forum that fosters the exchange of ideas and collaboration. The workshop will also provide an entry point to researchers who are interested in the microbiome, but less familiar with the techniques and field.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
4th Floor, Rm 411-412

Reverse-engineering methods and quantitative analysis of signaling and organogenesis

Organizers:
Jeremiah Zartman, **Gregory Reeves**, **Stanislav Shvartsman**

The goal of the workshop is to identify new problems in which engineering and tools from disciplines such as microfluidics, machine learning, control theory, computational modeling, ex vivo organ culture, novel biosensors, and synthetic constructs are integrated into the experimental analysis of cell signaling and organ development. A focus is the integration of multiple disciplines including engineering, biophysics, systems and synthetic biology, and applied math to quantitatively analyze gene regulation, cell signaling and organ development. An additional goal of the workshop is to provide a forum to identify new questions in the fields of biophysics and systems bioengineering that are best posed in the fruit fly. The emphasis is on identifying applications for the Drosophila model system as an ideal testbed for testing new ideas and inventions.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
5th Floor, Salon J

Overcoming barriers to effectively utilize *Drosophila melanogaster* in scholarship, research, and teaching at PUIs

Organizers:
Matthew Logan Johnson, **Afshan Ismat**, **Jamie Sanford**

The workshop will have two components, lighting talks followed by a breakout session as described below: Each lightning talk will focus on one of four common obstacles within PUIs. These areas include challenges in data collection in undergraduate research, student involvement in publishing, interdisciplinary studies, and effective experimental procedures. During breakout sessions, attendees will join small group discussions on one of the four areas that most interest them. Discussions will focus on strategies for effectively overcoming the particular barrier of interest.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
5th Floor, Salon K

The Hows and Whys of Drugging Flies – A Chemical Screening Workshop

Organizers:
Daniela Zarnescu, **Michele Markstein**

Whole animal drug screens, using Drosophila and other model systems, are emerging as a method of choice to chemically probe features of biology that cannot be easily recapitulated in vitro. These include cell-cell signaling, behavior, stem cell biology, and whole organ function. Talks from expert speakers will focus on the challenges and opportunities of screening for therapeutics in Drosophila. Topics will include paradigms relevant to human disease and recent advances screening technologies. A summary panel discussion will focus on identifying opportunities and challenges associated with using simple models for drug discovery, and strategies for increasing visibility with funding agencies and pharmaceutical companies.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
4th Floor, Rm 405

Publishing Genetics Classroom Activities in CourseSource

Organizer:
Michelle Smith

This workshop is designed for GSA members who have designed and taught an activity, and are ready for specific advice for how to publish it in CourseSource.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
5th Floor, Salon H

Biogenic Amines and Behaviors

Organizers:
Sonali A. Deshpande, **David E. Krantz**, **Kyung-An Han**

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.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
4th Floor, Franklin 2

Building Community Through Mentoring

Organizers:
Zach Farrow, **Alexandra Erwin**, **Alessandro Bailetti**

The purpose of this event is to continue the GSA's and community's efforts to build a supportive and inclusive scientific community. We aim to begin fostering meaningful and lasting relationships that connect scientists within and across scientific fields. Attendees will learn strategies for building successful mentorship relationships and addressing their needs with a supportive network of mentors.

Thursday, April 12
7:45 p.m. – 9:45 p.m.
5th Floor, Salon L

Autophagy in Development and Disease

Organizers:
Andreas Jenny, **Tor Erik Rusten**, **Serge Birman**

Autophagy is a highly conserved process that delivers cytosolic components including aggregated proteins and damaged organelles to lysosomes for degradation. It is essential for cellular homeostasis and stress resistance. In addition to its requirement during development, autophagy is deregulated in various diseases, and its reduction leads to aging-like phenotypes. In this workshop, an overview of recent progress in the field given by Dr. Gábor Juhász will be followed by talks selected from interested applicants that will show novel data and discuss pressing open questions with the goal to foster discussions and interactions among scientists at various stages of their careers.

Friday, April 13
1:45 p.m. – 3:45 p.m.
4th Floor, Franklin 2

Spotlight on Undergraduate Research

Organizers:
Eric Stoffregen, **Kimberly A. Carlson**, **Jennifer Mierisch**

This session will highlight undergraduate research accomplishments from Drosophila research labs. Selected by faculty reviewers, student speakers will deliver oral presentations on their projects. This undergraduate-specific 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, April 13
1:45 p.m. – 3:45 p.m.
5th Floor, Salon J

Feeding Behavior, Nutrition and Metabolism

Organizers:
Tânia Reis,
William W. Ja

Drosophila has emerged 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.

Friday, April 13
1:45 p.m. – 3:45 p.m.
5th Floor, Salon I

Everything you ever wanted to know about sex

Organizers:
Michelle Arbeitman, **Rita Graze**, **Brian Oliver**, **Artyom Kopp**, **Mark Siegal**, **Mark Van Doren**

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, April 13
1:45 p.m. – 3:45 p.m.
5th Floor, Salon H

Developmental Mechanics

Organizers:
Guy Tanentzapf,
Rodrigo Fernandez-Gonzalez

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 study of tissue morphogenesis. In particular, the establishment of tools to measure and manipulate mechanical forces in living organisms has demonstrated that mechanical forces profoundly shape animal development. In this workshop, we will review the most recent technical advances to visualize and quantify force generation in Drosophila, and we will discuss the latest results demonstrating the interplay between physical forces, molecular dynamics and tissue morphogenesis.

Friday, April 13
1:45 p.m. – 3:45 p.m.
5th Floor, Salon E

Functional Genomics Resources from the DRSC & TRiP

Organizers:
Jonathan Zirin, **Claire Hu**,
Norbert Perrimon

As the *Drosophila* RNAi Screening Center (DRSC) enters its 15th year, and the Transgenic RNAi Project (TRiP) enters its 10th, we are looking to the future. We will present an overview of functional genomics technologies we offer to the *Drosophila* research community, including RNAi and CRISPR technologies in cells and *in vivo*, and bioinformatics resources that support identification of reagents, data mining, and additional applications. From the workshop, attendees will learn how to make best use of our resources, online tools, and data sets, as well as learn about new technologies in cell modification, gene editing, and functional screening, and vectors to be used.

Friday, April 13
1:45 p.m. – 3:45 p.m.
5th Floor, Salon K

Drosophotoxicology: Examples and opportunities for fly research in toxicological sciences

Organizers:
Matthew D. Rand,
Robert Anholt

This workshop will exemplify the use of Drosophila in modern regimens of toxicological science. Toxicology is largely about gene X environment interactions hence, the fly model is poised to greatly expand understanding of toxicant action. Likewise, toxicants offer unique inroads to understanding fly development and behavior. The demand for high throughput, high information content and low cost assays for environmental toxicology and drug development has turned attention to small organism models. This workshop will highlight recent applications of Drosophila genomics, molecular and behavioral assays in toxicological studies. Discussion will center on the strengths of Drosophila for mechanism-based toxicity studies.

Friday, April 13
2:00 p.m. – 4:00 p.m.
4th Floor, Rm 411-412

Professional Development Tool Kit

The value of transferable skills gained during an advanced degree in the life sciences has been shared anecdotally with recent work quantifying skill strengths and gaps provided by doctoral training. This workshop aims to f.amiliarize trainees with data on skills organizations seek, highlight the value of transferable skills, and help trainees identify strengths and gaps in their own experiences that can be utilized to develop plans to strengthen skills.

This is an index of genes mentioned in the abstracts. The current FlyBase-approved gene symbol is given in each case; non-current symbol synonyms or full names used in the abstracts are not indexed. The index was prepared computationally based solely on the FBgn & gene symbol information provided by authors during abstract submission. FlyBase has performed a cross-check between the FBgn and gene symbol provided to ensure the intended gene is indexed. FlyBase is not responsible for any omissions from the index where authors did not provide information, nor for any incorrect indexing where genes stated to feature in an abstract do not actually appear.

Indexed terms are in bold. Numbers following each term refer to abstract program numbers: 168 and less are oral presentations and 166 and beyond are poster presentations.

KEYWORD INDEX

The following index is composed of keywords selected by presenting authors from a list on the Abstract Submission Site. Abstract program numbers follow each keyword.

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Tired of reformatting manuscripts? We welcome initial submissions in any format and impose no limits on length, figures, or supplemental information. Plus, we answer pre-submission inquiries within days—and can even fast-track handling in some circumstances.

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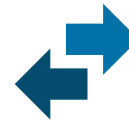
If you submit a manuscript to GENETICS that reports high-quality and useful findings—but lacks the broad appeal, significance, or novelty of a published GENETICS article—you may be offered a transfer to G3. This seamless process either guarantees review at G3, or G3 editors will use the GENETICS reviews to offer a decision within days.



After Acceptance

Within days, manuscripts are published Early Online, indexed in PubMed, and available to colleagues. You may be selected for highlights in GENETICS, featured article in G3, cover art, press releases, promotion on GSA's Genes to Genomes blog, social media, e-news, and other outreach. We enhance discovery and use of your research, which in turn increases its impact.

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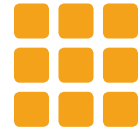
Our journals are run by and for scientists under the aegis of the Genetics Society of America. GSA represents us, advocates for us, convenes us, publicizes us, provides educational resources, and fosters our work.

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 show mentions on Twitter, Facebook, in the popular press, plus other alternative metrics.

Access to Data

Our data policy, instituted in 2010, requires that all primary data and source code associated with the paper's findings must be publicly available. Besides providing everything needed for replication, this policy allows your research to have the greatest possible impact and ensures your findings will be used for years to come.



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Cultivate an active learning practice in lecture classes in which undergraduate students are engaged in their own learning

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- Learn best practices in teaching and in assessing active learning
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1. Establish mentor-Fellow relationship
2. Submit PALM proposal
3. Fellow submits pre-mentoring teaching video
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5. Fellow records post-mentoring teaching video
6. Present to PALM Network

For more information, including **eligibility requirements**, **application details**, and to **learn about how to be paired with a mentor** if you don't have one in mind, visit

palmnetwork.org

2018 Application Deadlines: Feb 28, April 30, July 30, Oct 30

PALM is funded by NSF Research Coordination Network in Undergraduate Biology Education grant #1624200.

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FlyBook continues to grow

In October 2015, *GENETICS* launched FlyBook, a comprehensive compendium of review articles presenting the current state of knowledge in *Drosophila* research. Each month, *GENETICS* publishes one or two FlyBook articles spanning the breadth of biology, genetics, genomics, and evolution of *Drosophila*.

Here are the most recent entries to this exciting collection:

Development and Growth

Regulation of Carbohydrate Energy Metabolism in *Drosophila melanogaster*
Jaakko Mattila and Ville Hietakangas
December 2017. 207: 1231-1253.

Ecology and Evolution

Moving Speciation Genetics Forward: Modern Techniques Build on Foundational Studies in *Drosophila*
Dean M. Castillo and Daniel A. Barbash
November 2017. 207: 825-842.

Molecular Population Genetics
Sònia Casillas and Antonio Barbadilla
March 2017. 205: 1003-1035.

Gene Expression

Polycomb and Trithorax Group Genes in *Drosophila*
Judith A. Kassis, James A. Kennison, and John W. Tamkun
August 2017. 206: 1699-1725.

Three-Dimensional Genome Organization and Function in *Drosophila*
Yuri B. Schwartz and Giacomo Cavalli
January 2017. 205: 5-24.

Repair, Recombination, and Cell Division

Female Meiosis: Synapsis, Recombination, and Segregation in *Drosophila melanogaster*
Stacie E. Hughes, Danny E. Miller, Angela L. Miller, and R. Scott Hawley
March 2018. 208: 875-908.

DNA Replication Control During *Drosophila* Development: Insights into the Onset of S Phase, Replication Initiation, and Fork Progression
Brian L. Hua and Terry L. Orr-Weaver
September 2017. 207: 29-47.

The Centrioles, Centrosomes, Basal Bodies, and Cilia of *Drosophila melanogaster*
Ramona Lattao, Levente Kovács, and David M. Glover
May 2017. 206: 33-53.

DNA Repair in *Drosophila*: Mutagens, Models, and Missing Genes
Jeff Sekelsky
February 2017. 205: 471-490.

Methods

RNA Interference (RNAi) Screening in *Drosophila*
Florian Heigwer, Fillip Port, and Michael Boutros
March 2018. 208: 853-874.

Mosaic Analysis in *Drosophila*
Federico Germani, Cora Bergantinos, and Laura A. Johnston
January 2018. 208: 473-490.

Advances in Engineering the Fly Genome with the CRISPR-Cas System
Ethan Bier, Melissa M. Harrison, Kate M. O'Connor-Giles, amd Jill Wildonger
January 2018. 208: 1-18.

Gene Tagging Strategies To Assess Protein Expression, Localization, and Function in *Drosophila*
Oguz Kanca, Hugo J. Bellen, and Frank Schnorrer
October 2017. 207: 389-412.

Metabolomic Studies in *Drosophila*
James E. Cox, Carl S. Thummel, and Jason M. Tennessen
July 2017. 206: 1169-1185.

A Short History and Description of *Drosophila melanogaster* Classical Genetics: Chromosome Aberrations, Forward Genetic Screens, and the Nature of Mutations
Thomas C. Kaufman
June 2017. 665-689.

Nervous System and Behavior

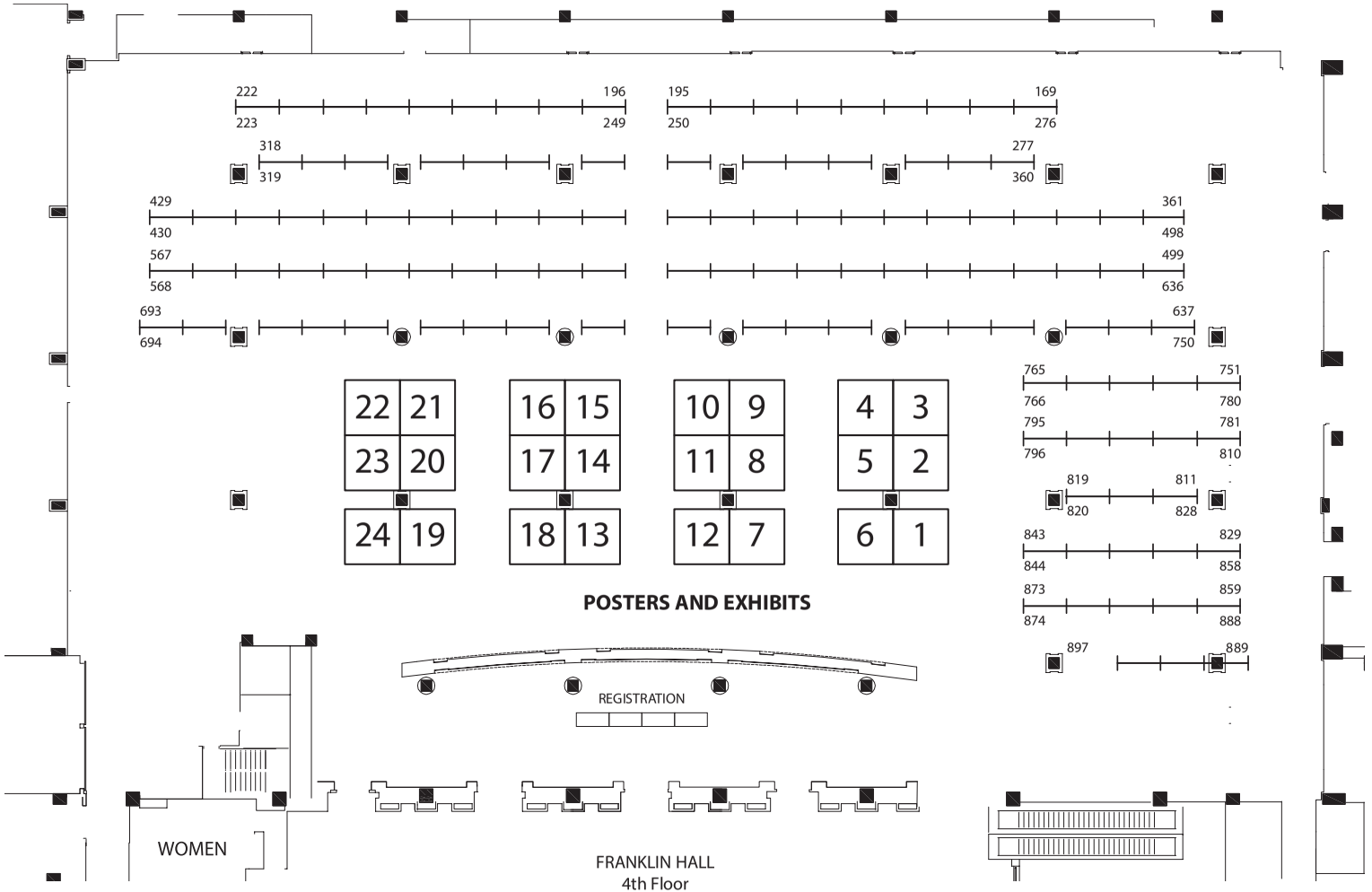
Circadian Rhythms and Sleep in *Drosophila melanogaster*
Christine Dubowy and Amita Sehgal
April 2017. 205: 1373-1397.

Stem Cells and Germline

Protecting and Diversifying the Germline
Ryan J. Gleason, Amit Anand, Toshie Kai, and Xin Chen
January 2018. 208: 435-471.

Subcellular Specialization and Organelle Behavior in Germ Cells
Yukiko M. Yamashita
January 2018. 208: 19-51.

genetics.org/content/flybook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POSTERS AND EXHIBITS
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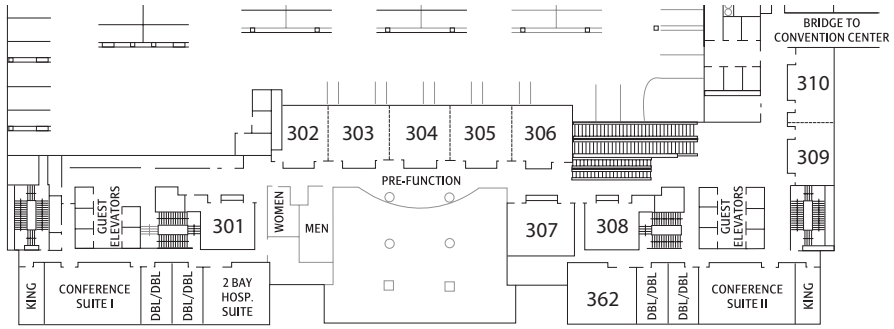

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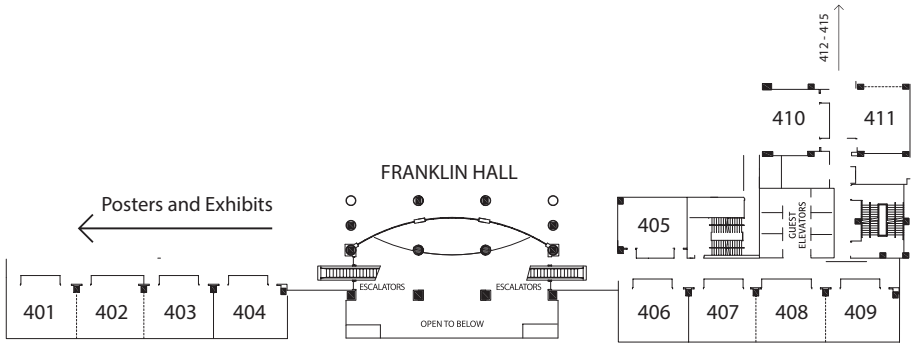

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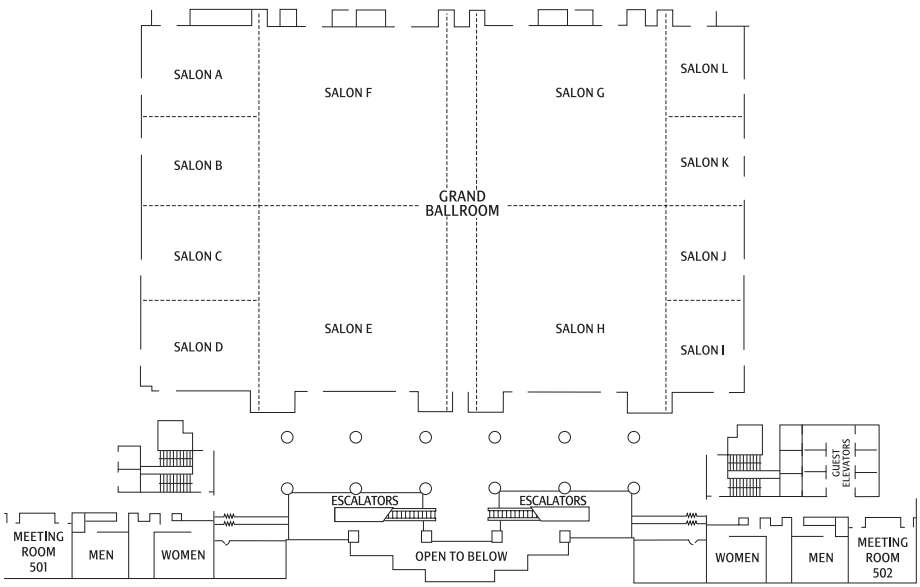

5th FLOOR

WEDNESDAY, April 11*		
3:00 p.m. - 6:30 p.m.	Speaker Ready Room	5th Floor, Rm 502
7:00 p.m. - 9:05 p.m.	Opening Session/Keynote	5th Floor, Salons E-H
9:15 p.m. - 11:00 p.m.	Mixer/Reception	4th Floor, Franklin Hall
THURSDAY, April 12*		
7:00 a.m. - 3:00 p.m.	Speaker Ready Room	5th Floor, Rm 502
7:15 a.m. - 8:30 a.m.	Publishing Q & A	5th Floor, Salons I-K
8:30 a.m. - 12:15 p.m.	Plenary Session	5th Floor, Salons E-H
12:00 noon - 1:45 p.m.	Community Lunch *Ticket required*	5th Floor, Salons I-K
1:00 p.m. - 5:00 p.m.	FlyBase Demo Room Open	4th Floor, Rm 407-409
1:45 p.m. - 2:00 p.m.	Special Reading from *First in Fly*	5th Floor, Salons I-K
2:00 p.m. - 4:00 p.m.	Exhibits & Poster Presentations	4th Floor, Franklin Hall
4:30 p.m. - 6:30 p.m.	Concurrent Platform Sessions	5th Floor, Grand Ballroom
7:45 p.m. - 9:45 p.m.	Concurrent Workshops	Multiple Locations
8:00 p.m. - 11:00 p.m.	Exhibits Open & Poster Viewing	4th Floor, Franklin Hall
FRIDAY, April 13*		
7:00 a.m. - 3:00 p.m.	Speaker Ready Room	5th Floor, Rm 502
8:30 a.m. - 12:30 p.m.	Concurrent Platform Sessions	5th Floor, Grand Ballroom
1:00 p.m. - 6:00 p.m.	FlyBase Demo Room Open	4th Floor, Rm 407-409
1:45 p.m. – 3:45 p.m.	Concurrent Workshops/Events	Multiple Locations
2:00 p.m. - 4:00 p.m.	Open Poster and Exhibit Viewing	4th Floor, Franklin Hall
4:30 p.m. - 6:30 p.m.	Concurrent Platform Sessions	5th Floor, Grand Ballroom
6:30 p.m. - 7:30 p.m.	Education Platform Session	5th Floor, Salon E
9:00 p.m. - 11:00 p.m.	Exhibits Open & Poster Viewing	4th Floor, Franklin Hall
SATURDAY, April 14*		
7:00 a.m. - 3:00 p.m.	Speaker Ready Room	5th Floor, Rm 502
8:30 a.m. - 12:30 p.m.	Concurrent Platform Sessions	5th Floor, Grand Ballroom
1:30 p.m. - 3:30 p.m.	Exhibits & Poster Presentations	4th Floor, Franklin Hall
4:00 p.m. - 6:00 p.m.	Concurrent Platform Sessions	5th Floor, Grand Ballroom
7:45 p.m. - 8:45 p.m.	FLYght of the Champions!	5th Floor, Salon H
8:45 p.m. - 10:00 p.m.	ScienceSlam	5th Floor, Salon H
SUNDAY, April 15		
8:30 a.m. - 12:00 noon	Plenary Session	5th Floor, Salons E-H

***Posters** open 24 hours Wed 5 p.m.-Sat 4 p.m.; **Nursing Mothers** Room 362