58th Annual Drosophila Research Conference

The 58th Annual Drosophila Research Conference was held on 29 March – 1 April 2017 at the Town & Country Resort & Convention Center, San Diego, CA. The Conference Organizers were Leanne Jones, Chair, Doris Bachtrog, Claude Desplan, and Amy Kiger. The conference was sponsored by The Drosophila Board in association with the Genetics Society of America, 9650 Rockville Pike, Bethesda, MD 20814-3998.

Opening Remarks

Leanne Jones, Welcome

R. Hawley: Larry Sandler Award Winner Talk

Opening Session Talk

Sean Carroll: The making and unmaking of the animal kingdom.

Plenary Lectures (in presentation order)

Bruno Lemaitre: The Drosophila-Spiroplasma interaction as a model to dissect the molecular mechanisms underlying insect endosymbiosis.

Virginie Courtier-Orgogozo: The mutation behind species evolution.

Peter R Hiesinger: Simple rules in neural circuit assembly.

Irene Miguel-Aliaga: How the gut talks and listens.

Buzz Baum: Tissue refinement: a noisy path to order.

Francois Payre: Orchestrating the proliferation differentiation switch of adult intestine stem cells.

Marcos Gonzalez-Gaitan: Asymmetric signaling endosomes in asymmetric division.


Marta Zlatic: Circuits principles of memory-based behavioral choice.

Erika Bach: Stem cell homeostasis in the Drosophila testes.

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

Julius Brennecke: The piRNA pathway – a small RNA based genome defense system.
Workshops

PI Early Career Forum
Organizers: Guy Tanentzapf and Amy Bejsovec

Ecdysone Workshop
Organizers: Rebecca Spokony and Elizabeth Ables

Integrating Research and Teaching at PUIs Using *Drosophila melanogaster* as a Model Organism
Organizers: Afshan Ismat, Norma Velazquez Ulloa, and Judy Leatherman

Wound Healing and Regeneration
Organizers: Adrian Halme and Rachel Smith-Bolton

Feeding Behavior, Nutrition and Metabolism
Organizers: Tânia Reis and William W. Ja

Everything You Ever Wanted to Know About Sex
Organizers: Mark Van Doren, Michelle Arbeitman, and Artyom Kopp

Navigating the Career Decision Making Process
Organizer: Sonia Hall

Spotlight on Undergraduate Research
Organizers: Eric Stoffregen, Kimberly A. Carlson, Jennifer Jeme Mierisch, and Catherine Silver Key

*Drosophila* Microbiome
Organizers: Will Ludington, Brooke McCartney, and Nichole Broderick

Developmental Mechanics
Rodrigo Fernandez-Gonzalez and Guy Tanentzapf

Biogenic Amines and Behaviors
Sonall A. Deshpande, Seth Tomchik, and Kyung-An Han

The North American *Drosophila* Board

The Board’s duties include: overseeing community resource centers and addressing other research and resource issues that affect the entire *Drosophila* research community. The Board also administers the finances for the annual North America *Drosophila* Research Conference and its associated awards, and it chooses the organizers and the site of the annual meeting. The Board consists of nine regional representatives and four international representatives, who serve 3-year terms. The three elected officers are President, President-Elect, and Treasurer. In addition, the Board has *ex officio* members who represent *Drosophila* community resources or centers. For more information about the Board and the summaries of the annual Board meetings, see: Fly Board under the News menu at the FlyBase web site: flybase.bio.indiana.edu.