

Other Reports

57th Annual *Drosophila* Research Conference

The 57th Annual *Drosophila* Research Conference was held on 13-17 July 2016 at the Orlando World Center Marriott in Orlando, Florida. The Conference Organizers were Susan Celniker, Chair, (Lawrence Berkeley National Laboratory), David Bilder (University of California, Berkeley), Nancy Bonini (University of Pennsylvania, HHMI), and Ross Cagan (Mount Sinai School of Medicine). 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

Susan Celniker: Welcome

Thom Kaufman: Remembering Bill Gelbart

Opening Session Panel: Discovery of the Homeobox

Michael Levine (Princeton University), William McGinnis (University of California, San Diego), Matthew Scott (Carnegie Institute for Science), Cassandra Extavour, Moderator (Harvard University)

Plenary Lectures (in presentation order)

Adam Martin (MIT). Organizing the contraction that changes tissue shape.

Ingrid Lohmann (Heidelberg University). Hox transcription factors and their cell type-specific role in development.

Annette Schenck (Radboud University Medical Center). Modelling intellectual disability disorders in *Drosophila*: From genes to functional modules and clinical applications.

Doujia Pan (Johns Hopkins School of Medicine). Hippo signaling in growth control and beyond.

Iris Salecker (Francis Crick Institution). Coordination of neuroepithelial specification and neurogenesis modes in the *Drosophila* visual system.

Pierre Leopold (Institut Valrose Biologie). Growth coordination mechanisms during *Drosophila* development.

Pamela Geyer (University of Iowa). Networking at the nuclear periphery: Contributions of *Drosophila* LEM domain proteins.

Artyom Kopp (University of California, Davis). Molecular genetics of sex-specific evolutionary innovations.

Workshops

Automated Tracking for Quantitative Phenotyping

Organizers: Andre Brown (Imperial College London), Gordon Berman (Emory University), and Megan Carey (Champalimaud Centre for the Unknown)

CRISPR-based Genome Engineering

Organizer: Mike Boxem (Utrecht University, Netherlands)

Using CyVerse Cyberinfrastructure to Enable Data Intensive Research, Collaboration, and Education

Organizers: Joslynn Lee and Jason Williams (Cold Spring Harbor Laboratory)

Model Organisms to Face Environmental Problems

Organizers: Cristina Miceli (University of Camerino, Italy), Michael Lynch (Indiana University), and Wei Miao (China Academy of Sciences)

Integrating Research and Teaching: Professional Development for Current and Future Faculty Members

Organizers: Rebecca Kurzahls (Southeast Missouri State University), Joyce Fernandes (Miami University), Pamela Hanson (Birmingham-Southern College), Paula Checchi (Marist College), Gretchen Edwalds-Gilbert (Claremont McKenna, Pitzer, and Scripps Colleges), Eric Stoffregen (Lewis-Clark State College), and Christina Swanson (Arcadia University)

Informatics Resources to Aid the Genetic Dissection of Neural Circuitry

Organizers: David Osumi-Sutherland (European Bioinformatics Institute [EMBL-EBI]), Owen Randlett (Harvard University), and Paul Sternberg (Caltech University)

Everything You Wanted to Know About Sex

Organizers: Artyom Kopp (University of California, Davis), Michelle Arbeitman (Florida State University), and Mark Van Doren (Johns Hopkins University)

modMetabolome: Model Organism Metabolomics Consortium Workshop

Organizers: Laura Reed (University of Alabama), and Arthur Edison (University of Georgia)

Feeding Behavior, Nutrition, and Metabolism: Emerging Model Organisms

Organizers: Tania Reis (University of Colorado), William Ja (The Scripps Research Institute), Supriya Srinivasan (The Scripps Research Institute), and Amnon Schlegel (University of Utah)

Functional Genomics for Conserved Gene Function Discovery

Organizers: Stephanie Mohr (Harvard Medical School), Brenda Andrews (University of Toronto), Susan Dutcher (Washington University in St. Louis), Norbert Perrimon (Harvard Medical School), and Yi Zhou (Harvard University)

Cell Competition in Flies and Mice

Organizers: Erika Bach (New York University Langone Medical Center), Nicholas Baker (Albert Einstein College of Medicine), and Laura Johnston (Columbia University Medical Center)

Developmental Mechanics

Organizers: Rodrigo Fernandez-Gonzalez (University of Toronto), Guy Tanentzapt (University of British Columbia), and Ronen Zaidel-Bar (National University of Singapore)

Model Systems in Drug Discovery

Organizer: Daniela Zarnescu (University of Arizona)

CRISPR/Cas9 – Techniques and Applications in Fish, Flies, and Mice

Organizers: Lauryl Mj Nutter (The Centre for Phenogenomics), John Seavitt (Baylor College of Medicine), and Edward Ryder (Wellcome Trust Sanger Institute)

Utilizing NCBI Databases for Model Organism Research

Organizer: Terence Murphy (NIH)

Systems Genetics in Complex Populations

Organizers: Martin Ferris (University of North Carolina, Chapel Hill), Fernando Pardo-Manuel de Villena (University of North Carolina, Chapel Hill), and Logan Everett (North Carolina State University)

An Introduction to Using Galaxy Genetic Data Analysis

Organizer: Dave Clements (Johns Hopkins University)

The InterMOD Consortium: A Common Interface to Model Organism Data

Organizers: Rachel Lyne and Julie Sullivan (University of Cambridge)

Spotlight on Undergraduate Research Using Genetics Research Models

Organizers: Eric Stoffregen (Lewis-Clark State College), Elyse Bolterstein (Northeastern Illinois University), Emily Wiley (Claremont McKenna College), Michelle A. Mondoux (College of the Holy Cross), and Mary Miller (Rhodes College)

The Ecdysone Workshop

Organizers: Nick Sokol (Indiana University) and Rebecca Spokony (Baruch College)

Genetic and Genomic Models of Polyploidy

Organizers: Don Fox (Duke University), David Pellman (Harvard University), Andrew Duncan (University of Pittsburgh), and Eduardo Orias (University of California, Santa Barbara)

Microbiota

Organizers: Brooke McCartney (Carnegie Mellon University) and Will Ludington (University of California, Berkeley)