53rd Annual Drosophila Research Conference

Program Addendum

Sheraton Chicago Hotel & Towers
Chicago, IL
March 7-11, 2012

Sponsored by The Genetics Society of America
9650 Rockville Pike
Bethesda, MD 20814-3998
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Society@genetics-gsa.org
http://www.drosophila-conf.org

PROGRAM CHANGES

Thursday, March 8

7:15 am-8:30 am **Publishers Breakfast (moved from Friday, March 9)** **Sheraton 1 Level 4**

WORKSHOP SPEAKERS
(where available at time of printing)

•**Wednesday, March 7 – 12:00-6:00 pm**

Ecdysone
Michael O'Connor
Michael Adams
Alexander Shingleton
Michelle Arbeitman

•**Friday, March 9 – 1:45-3:45 pm**

Apoptosis, Autophagy and Other Cell Death Mechanisms
Clemence Levet (Mollereau lab)
Allison K. Timmons (McCall lab)
Asuka Takeishi (Miura Lab)
Madhuri Kango-Singh
Can Zhang (Zhou lab)
Jun Morishita (Ryoo lab)
Wu-Min Deng
John Fullard (Baker lab)

Organelles in the Drosophila Ovary
Mahala Burn / Lynn Cooley (Yale University)
Rachel Cox (Uniformed Services University of the Health Sciences)
Robert Duronio (University of North Carolina at Chapel Hill)
Zehra Nizami / Joseph Gall (Carnegie Institution)
Elizabeth Gavis (Princeton University)
Hongying Qi / Haifan Lin (Yale University)
Ji-Long Liu (MRC FGU, Oxford University)

Chromosome Pairing and Dynamics in Meiotic and Somatic Cells
Amber M. Hohl1,2,3, Ting Wu3, and Pamela K. Geyer1,2
1. University of Iowa 2. Department of Biochemistry, University of Iowa 3. Department of Genetics, Harvard Medical School
Judy Kassis (NICHD/NIH)
Thomas Lum and Thomas Merritt (Laurentian University)
Jack Bateman, Justine Johnson, and Melissa Locke (Bowdoin College)
Natalia Wesolowska, Yikang S. Rong (National Institutes of Health, Graduate Partnership Program with Johns Hopkins University)
Giovanni Bosco, Chris Bauer, Tim Hartl, Maureen Peterson, Bhavani Bagevalu Siddegowda, Stephen Butcher and R. John Manak. (University of Arizona, University of Iowa)
Irene Chiolo, Ryan Kunitake, Gary Karpen (Lawrence Berkeley National Laboratory)
Stacie E. Hughes, Elisabeth Bauerly, Dana R. Vietti, and R. Scott Hawley (Stowers Institute for Medical Research)
Pei Zhou, Fan Zheng, Sharon Bickel (Dartmouth College)

Undergrad Researcher Workshop (session ends at 4:15 pm)
Amita Seghal
Scott Hawley (Stowers Institute for Medical Research)

•**Saturday, March 10 – 6:45-8:45 pm**

Everything You Ever Wanted to Know about Sex
Doris Bachtrog, UC - Berkeley
Emily Clough, NIH
Geoffrey Ganter, University of New England
Artyom Kopp, UC - Davis
Kosei Sato, Tohoku University
Alexander Shingleton, Michigan State University
Jessica Sintik, Cornell University

ADDITIONAL EXHIBITOR

NanoString Technologies **Booth #504**

530 Fairview Ave. N
Seattle, WA 98109
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POSTER CHANGES

- **Presentations Cancelled:**

Abstract #160A (Hatori)
Abstract #185B (Aldrich)
Abstract 225C (Babur)
Abstract #233B (Ishio)
Abstract #343A (Tang)
Abstract #350C (Hallson)
Abstract #645C (Zlatic)
Abstract #743B (Collier)
Abstract #817A (Ferrari)

- **Late Poster Abstracts (see complete text of abstracts at www.drosophila-conf.org):**

Poster #	First Author/Presenter	Abstract Title and Co-Authors
Cell biology & signal transduction		
893B	Dániel Lakatos	X Chromosome Screen for Novel Regulators of Oocyte Polarity. **Dániel Lakatos[1], Andrea Leibfried[1], Shinya Yamamoto[2], Hugo J. Bellen[2], Anne Ephrussi[1].** 1) Developmental Biology Unit, European Molecular Biology Laboratory, Heidelberg, Germany; 2) Howard Hughes Medical Institute, Baylor College of Medicine, Houston, TX. USA.
894C	Bo Zhou	Analyzing role of different SNXs in the apical-basal polarity in epithelial cells. **Bo Zhou[1], Peng Zhang[2], Xinhua Lin[1,2].** 1) Dev Biol, Cincinnati Children's Hosp, Cincinnati, OH; 2) Institute of Zoology, Chinese Academy of Sciences, Beijing, China.
895A	Sougata Roy	Contact dependent uptake of Dpp over long distance by Drosophila tracheal cytonemes. **Sougata Roy, Thomas Kornberg.** Cardiovascular Research Institute, University of California San Francisco, San Francisco, CA.
896B	Shu-Fen Chen	Drosophila king tubby (ktub) mediates light-induced rhodopsin endocytosis and retinal degeneration. **Shu-Fen Chen, Yu-Chen Tsai, Seng-Sheen Fan.** Life Science, Tunghai University, Taichung, Taiwan.
897C	Cristina Baratta	Role of SPARC in *Drosophila melanogaster* Fat Body Development and Basal Lamina Stability. **Cristina Baratta, Maurice Ringuette.** University of Toronto, Toronto, Ontario.
898A	Danfeng Cai	DE-Cadherin Has an Essential Role in Border Cell Migration. **Danfeng Cai[1,2], Jessica Sawyer[1], Denise Montell[1].** 1) The Department of Biological Chemistry, Johns Hopkins University, Baltimore, MD; 2) Johns Hopkins School of Medicine, Baltimore, MD.
899B	Pascal Therond	Regulation of the Hedgehog Gradient: Transduction of Different levels of Hedgehog Signaling. **Pascal Therond, Nadia Ranieri, Laurent Ruel, Armel Gallet, Sophie Raisin.** CNRS iBV, Univ Nice Sophia-Antipolis, Nice.
900C	Imilce A. Rodriguez-Fernandez	Screening for genetic modifiers of AP-3, a protein complex involved in intracellular protein trafficking and implicated in Hermansky-Pudlak syndrome. **Imilce A. Rodriguez-Fernandez, Veronica T. Cheli, Diego J. Hoyle, Esteban C. Dell'Angelica.** Department of Human Genetics, UCLA, Los Angeles, CA.
901A	Rishita Changede	Understanding the spatio-temporal dynamics of guidance signaling during border cell migration in Drosophila. **Rishita Changede, Pernille Rorth.** IMCB, Singapore, Singapore.
902B	Nachen Yang	Roles of microtubules in border cell migration. **Nachen Yang, Adam Cliffe, Pernille Rørth.** Institute of Molecular and Cell Biology, Singapore.
903C	Yaoting Deng	Akt is Negatively Regulated by Hippo Signaling for Growth Inhibition in Drosophila. **Yaoting Deng[1], Xin Ye[2], Zhi-Chun Lai[3].** 1) Biochemistry and Molecular Biology, Penn State University, University Park, PA; 2) Department of Genetics, Penn State University, University Park,PA; 3) Department of Biology, Penn State

		University, University Park,PA.
904A	Aniket Ghosh	Genome-wide RNAi screen to identify glia specific function in adult *Drosophila*. **Aniket Ghosh[1], Aaron Voigt[2], Jörg B. Schulz[2], Mikael Simons[1].** 1) Cellular Neuroscience, Max Planck Institute for Experimental Medicine, Goettingen,Germany; 2) Department of Neurology, University Medical Center, RWTH Aachen, Aachen, Germany.
905B	Shirley Weiss	Ca2+ buffering by calphotin is essential for prevention of light induced retinal degeneration. **Shirley Weiss, Elkana Kohn, Daniela Dadon, Ben Katz, Maximilian Peters, Baruch Minke.** Department of Medical Neurobiology, Hadassah Medical School, The Hebrew University, Jerusalem, Israel.
906C	Michal Zurovec	Differential response of *Drosophila* cell lines to extracellular adenosine. **Michal Zurovec[1], Jana Fleischmannova[2], Lucie Kucerova[1,2], Vaclav Broz[1,2].** 1) Dept. Genetics, Biology Centre, Inst Entomology, Ceske Budejovic, Czech Republic; 2) Faculty of Sciences, University of South Bohemia, Ceske Budejovic, Czech Republic.
907A	Jennifer A. Kennell	Regulation of adult *Drosophila* cuticle pigmentation by Insulin signaling. **Jennifer A. Kennell, Iryna Shakhmantsir.** Biology, Vassar College, Poughkeepsie, NY.
908B	Alejandro Zúñiga	*In vivo* and *in vitro* functional characterization of RhoGEF3, a new guanine nucleotide exchange factor (GEF) of *Drosophila melanogaster*. **Alejandro Zúñiga, Leandro Farías, Verónica Cambiazo.** INTA - Universidad de Chile & Center for Genome Regulation (CGR). Santiago, Chile.
909C	Xiaofang Tang	Roles of N-glycosylation and lipidation in Wg secretion and signaling. **Xiaofang Tang[1], Yihui Wu[2], Tatyana Belenkaya[1], Qinzhu Huang[3], Lorraine Ray[1], Jia Qu[3], Xinhua Lin[1,2].** 1) Developmental Biol, Cincinnati Children's Hosp, Cincinnati, OH; 2) State Key Laboratory of Biomembrane and Membrane Biotechnology, and Key Laboratory of Stem Cell and Developmental Biology, Institute of Zoology, Chinese Academy of Sciences, Beijing, 100101, China; 3) Wenzhou Medical College, Wenzhou, Zhejiang, 325000, China.
910A	Yihui Wu	Snx3 influences Wnt/Wingless secretion through regulating retromer-dependent recycling of Wntless. **Yihui Wu[1], Peng Zhang[1], Tanya Belenkaya[2], Xinhua Lin[1,2].** 1) State Key Laboratory of Biomembrane and Membrane Biotechnology, Institute of Zoology, Chinese Academy of Sciences, Beijing, P.R.China; 2) Division of Developmental Biology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, 45229, USA.
911B	Jia You	Sulfated is a negative feedback regulator of wingless in *Drosophila*. **Jia You[1], Tatyana Belenkaya[1], Xinhua Lin[1,2].** 1) Dev Biol, Cincinnati Chld Hosp Med Ctr, Cincinnati, Oh; 2) State Key Laboratory of Biomembrane and Membrane Biotechnology, Institute of Zoology, Chinese Academy of Siences, Beijing , China.
Cell cycle and checkpoints		
912C	Beatriz P. Alvarado	Cyclin B3 appears a better target for inhibition of mitotic exit in reducing mitotic slippage. **Beatriz P. Alvarado, Blake Riggs.** San Francisco State University, San Francisco, CA.
913A	Jared T. Nordman	Regulation of DNA copy number during development. **Jared T. Nordman[1], Helena Kashevsky[1], Terry L. Orr-Weaver[1,2].** 1) Whitehead Institute, Cambridge, MA; 2) Dept. of Biology, MIT, Cambridge, MA.
914B	Tharanga N. Senaratne	Investigating the mechanism of homolog recognition in *Drosophila melanogaster*. **Tharanga N. Senaratne, Eric F. Joyce, C.-Ting Wu.** Genetics, Harvard Medical School, Boston, MA.
Cell death		
915C	Sung Yeon Park	The role of apoptosis and JNK signaling in *dpp*-mediated ventral head development. **Sung Yeon Park, Brian Stultz, Deborah Hursh.** CBER/FDA, Bethesda, MD.
916A	Asuka Takeishi	Caspase activity in gut mediates systemic response against tissue damage. **Asuka Takeishi[1], Erina Kuranaga[2], Ayako Tonoki[3], Hirotaka Kanuka[4], Masayuki Miura[1].** 1) Department of Genetics, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan and CREST, JST, Tokyo, Japan; 2) Laboratory for Histogenetic Dynamics, RIKEN Center for Developmental Biology, Kobe, Japan; 3) Department of Neuroscience, The Scripps Research Institute, Jupiter, Florida, USA; 4) Department of Tropical Medicine, The Jikei University School of Medicine, Tokyo, Japan.
917B	Robert Farkas	Endocytosis, vacuolation, non-lysosomal endosome trafficking, and massive calcium release are major activities of Drosophila prepupal salivary glands prior to their ecdysone-triggered programmed histolysis. **Robert Farkas[1,2], Lucia Mentelova[1,2], Zuzana Datkova[1,2], Daniel Vlcek[2], Milan Beno[1], Silvia Mahmood[1,3], Peter Danis[1,2], Ludmila Pecenova[1,2], Dusan Cmarko[4], Lubos Kovacik[4], Ivan Raska[4], Bruce Chase[5], Bernard Mechler[4,6].** 1) Inst Experimental Endocrinology, Slovak Academy Sciences, Vlarska 3, 83306 Bratislava, Slovakia; 2) Department of Genetics, Faculty of Science, Comenius University, 842 15 Bratislava, Slovakia; 3) Department of Biochemistry, Jessenius Faculty of Medicine, Comenius University, Mala Hora 4, 03645 Martin, Slovakia; 4) Institute of Cellular Biology and Pathology, 1st Faculty of Medicine, Charles University, Albertov 4, 12801 Prague, Czech Republic; 5) Department of Biology, University of Nebraska, Omaha, NE 68182-0040, USA; 6) Department of Developmental Genetics, Deutsches Krebsforschungszentrum-ZMBH Allianz, INF 581, D-69120 Heidelberg, Germany.
918C	Cuiyun Geng	*lin-52* prevents apoptosis in *Drosophila* imaginal discs. **Cuiyun Geng[1], Peter Lewis[2], Michael Botchan[3], Joseph Lipsick[1].** 1) Department of Pathology and Genetics, Stanford University, Stanford, CA; 2) Laboratory of Chromatin Biology and Epigenetics, The Rockefeller University, New York, NY; 3) Department of Molecular and Cell Biology, University of California Berkeley, Berkeley, CA.
Cell division and growth control		
919A	Maurizio Gatti	Roles of the Drosophila RZZ complex in membrane traffic and cytokinesis. **Maurizio Gatti[1], Maria Grazia Giansanti[1], Michael Goldberg[2], Alan Wainman[1,3].** 1) Dept Biology & Biotechnology, Univ Rome La Sapienza, Rome, Italy; 2) Department of Molecular Biology and Genetics, Biotechnology Building, Cornell University, Ithaca, NY 14853, USA; 3) Present address: Sir William Dunn School of Pathology, University of Oxford, South Parks Road, Oxford, OX1 3RE, UK.

920B	Elisabeth Bauerly	Mutations from a screen for interactors of the *Axs^{KO}* mutation cause divergent meiotic phenotypes. **Elisabeth Bauerly[1], Stacie Hughes[1], R. Scott Hawley[1,2].** 1) Stowers Institute for Medical Research, Kansas City, MO; 2) Department of Molecular and Integrative Physiology, University of Kansas Medical Center, Kansas City, KS.
921C	Yu-ichiro Nakajima	Interkinetic nuclear migration in the developing *Drosophila* wing. **Yu-ichiro Nakajima, Emily J. Meyer, Matthew C. Gibson.** Stowers Institute for Medical Research, Kansas City, MO.
922A	Shalaka Chitale	Role of chromatin modifications in *Drosophila* imaginal disc regeneration. **Shalaka Chitale, Andrea Skinner, Rachel K. Smith-Bolton.** Department of Cell and Developmental Biology, University of Illinois, Urbana-Champaign, Urbana, IL.
923B	Andrea Skinner	Characterizing the Role of Trithorax in Regeneration. **Andrea Skinner, Shalaka Chitale, Rachel K. Smith-Bolton.** Cell & Developmental Biology, University of Illinois Urbana-Champaign, Urbana, IL.
924C	Arthur Chase	RNAi Screen for Mitotic Spindle Matrix Components among Nuclear Envelope Proteins. **Arthur Chase, Blake Riggs.** Biology, San Francisco State University, San Francisco, CA.
925A	Peter C. DeJongh	Imaging regenerating imaginal discs. **Peter C. DeJongh, Brenten Popiel, Rachel K. Smith-Bolton.** University of Illinois at Urbana-Champaign, Urbana, IL.
926B	Fergal O'Farrell	Developmental role of the RTK Stitcher. **Fergal O'Farrell[1,2], Shenqiu Wang[2], Christos Samakovlis[2], Tor Erik Rusten[1].** 1) Dept of Biochemistry, Institute of Cancer Research, Norwegian Radium Hospital, Oslo, Norway; 2) Dept of Developmental Biology, Stockholm University, Stockholm, Sweden.
Chromatin and epigenetics		
927C	Gury Alvarez	Annotation of *Drosophila erecta* Fosmid 41. **Gury Alvarez, Edgar Nunez, Suryaveer Dogra, Katie Lopez-Galvez, Georgina Aguilar-Portillo, Grigor Deremsezyan, Luz Ramos, Mahyar Pourdavoud, John Samuel Sukumar palukuri, Jasmin Abdulla, Catherine Coyle-Thompson.** Biology, California State University, Northridge, Northridge, CA.
928A	Theresa R. Bustamante	Annotation of *Drosophila erecta* Fosmid 28 of Chromosome 3L. **Theresa R. Bustamante[1], Katie V. Lopez-Galvez[2], Luz Ramos[2], Catherine Coyle-Thompson[2].**1) Engineering Department/ Biology Department, California State University, Northridge, Northridge, CA; 2) Biology Department, California State University, Northridge, Northridge, CA.
Drosophila models of human diseases		
929B	Theresa Logan	The Role of PI3K and Insulin Signaling in Mediating Fetal Alcohol Syndrome in *Drosophila melanogaster*. **Theresa Logan, Melissa Ruiz, Omar Fateen, Janet Lafler, Rachael French.** Biological Sciences, San Jose State University, San Jose, CA.
930C	Norma Velazquez Ulloa	*Drosophila* as model system to study cross-tolerance between nicotine and ethanol and the effects of chronic nicotine exposure on behavior. **Norma Velazquez Ulloa, Ulrike Heberlein.** Anatomy, UCSF, San Francisco, CA.
931A	Nicole K. Barnette	A P_{5B}-type ATPase is required for Drosophila polyamine transport. **Nicole K. Barnette[1,2], Victoria Kreinbrink[1], Laurence von Kalm[1,2].** 1) Department of Biology, University of Central Florida, Orlando, FL; 2) Biomolecular Science Center, University of Central Florida, Orlando, FL.
932B	Ryan T. Birse	Genetic mediators of diet-induced cardiac dysfunction. **Ryan T. Birse, Kathryn Reardon, Hanna Catan, Rolf Bodmer.** The Dell E Webb Center for Neuroscience Aging and Stem Cell Research, Sanford-Burnham Institute, La Jolla, CA.
933C	Peter Luu	The Role of the EGFR Pathway in a Drosophila Model of Fetal Alcohol Syndrome. **Peter Luu[1], David Do[2], Luke LaJoie[3], Brianna Hagen[1].** 1) Biology, SJSU, San Jose, CA; 2) Computer Science, SJSU, San Jose, CA; 3) Mathematics, SJSU, San Jose, CA.
934A	Mokhlasur Rahman	*mauve* encodes the *Drosophila* homolog of the Chediak-Higashi Syndrome protein LYST and is necessary late during phagocytosis. **Mokhlasur Rahman[1], Adam Haberman[2], Charles Tracy[1], Sanchali Ray[1], Helmut Kramer[1].** 1) Neuroscience, UT Southwestern Medical Center, Dallas, TX; 2) Oberlin Collage, Oberlin, Ohio.
935B	Joseph E. Faust	Peroxisome Biogenesis in Drosophila melanogaster. **Joseph E. Faust, Arvind Manisundaram, Michael Stern, James A. McNew.** Biochemistry and Cell Biology, Rice University, Houston, TX.
936C	Minpei Wang	Characterization of anti-cancer compounds targeting the polyamine transport system in imaginal discs. **Minpei Wang[1,2], Aaron Muth[3], Otto Phanstiel[2,4], Laurence von Kalm[1,2].** 1) Department of Biology, University of Central Florida, Orlando, FL; 2) Biomolecular Science Center, University of Central Florida, Orlando, FL; 3) Department of Chemistry, University of Central Florida, Orlando, FL; 4) Department of Medical Education, College of Medicine, University of Central Florida, Orlando, FL.
937A	Girish S. Ratnaparkhi	*Drosophila* RNAi screen to identify genetic interactors of VAP-B. **Girish S. Ratnaparkhi[1], Senthilkumar Deivasigamani[1], Hemant Verma[1], Ryu Ueda[2], Anuradha Ratnaparkhi[3].** 1) Indian Institute of Science Education & Research, Pune, Maharashtra, INDIA; 2) National Institute of Genetics, Mishima Shizuoka, JAPAN; 3) Agharkar Research Institute, Pune, Maharashtra, INDIA.
938B	Andrew Steffensmeier	Role of signaling pathways in Amyloid-β-dependent cell death in *Drosophila* eye. **Andrew Steffensmeier[2], Oorvashi Roy Puli[1], Meghana Tare[1], Madhuri Kango-Singh[1,2,3], Amit Singh[1,2,3].** 1) Department of Biology, University of Dayton, 300 College Park Drive, Dayton, OH, 45469; 2) Premedical Program, University of Dayton, 300 College Park Drive, Dayton, OH, 45469; 3) Center for Tissue Regeneration and Engineering at Dayton (TREND), University of Dayton, 300 College Park Drive, Dayton, OH, 45469.
939C	Sallie McLean McSwain	The Effect of Up-regulation of SOD1 in a *Drosophila* Model of Spinocerebellar Ataxia 3 (Machado-Joseph Disease). **Sallie McLean McSwain, John M. Warrick.**Biology Dept, University of Richmond, Richmond, VA.
Evolution and quantitative genetics		
940A	Veer Bhan	Latitudinal cline for sexual dimorphism: correlated response to mating behavior, body size variations and flight adaptations. **Veer Bhan.** Department of Biotechnology, UIET, M D University, Rohtak, Haryana, India.

941B	Héloïse D. Dufour	Generation of a novel wing colour pattern in Drosophila : when engrailed crosses the line. **Héloïse D. Dufour[1,2], Cédric Finet[1,2], Shigeyuki Koshikawa[1], Jane E. Selegue[1], Sean B. Carroll[1].** 1) Howard Hughes Medical Institute, University of Wisconsin, Madison; 2) These authors contributed equally to this work.
942C	Christian E. Hodar	The gene CG6234 is conserved outside Drosophilidae species as part of the genetic regulatory network which contributes to amnioserosa development. **Christian E. Hodar[1,2], Veronica Cambiazo[1,2].** 1) Universidad de Chile - INTA, Santiago, Chile; 2) Center for Genome Regulation.
943A	Prohor A. Proshakov	Regulatory and exon-intron nucleotide sequence variability of gene *Dras1* in *Drosophila virilis* group. **Prohor A. Proshakov[1], Anna I. Checunova[1], Maxim I. Barsukov[1], Larisa N. Gause[1], George N. Bachtojarov[2], Svetlana Yu. Sorokina[1], Vladimir G. Mitrofanov[1].** 1) Dept Genetics, Koltsov Institute of Developmental Biology, RAS, Moscow, Russian Federation; 2) Mechnikov Research Institute of Vaccines and Sera, RAMS.
944B	Jun Zhou	Genetic and Functional Divergence of Y Chromosomes Over 550 Generations of Mutation Accumulation. **Jun Zhou[1], Thomas Eickbush[2], Lene Martinsen[1], Bernardo Lemos[1], Daniel Hartl[1].** 1) Organismic and Evolutionary Biology, Harvard University, Cambridge, MA; 2) Biology, University of Rochester, Rochester, NY.
945C	Fabian Staubach	Bacterial species associated with Drosophila simulans and Drosophila melanogaster in the wild and in the laboratory. **Fabian Staubach[1], Alan O. Bergland[1], Sven Kunzel[2], John F. Baines[2], Dmitri A. Petrov[1].** 1) Biology, Stanford University, Stanford, CA; 2) Max Planck Institute for Evolutionary Biology, Ploen, Germany.
946A	Ryuichi Sugino	Genome scans for positive selection in African and non-African populations of Drosophila melanogaster. **Ryuichi Sugino[1], John Pool[1], Kristian Stevens[2], Charis Cardeno[2], Marc Crepeau[2], Russell Corbett-Detig[3], Pablo Duchen[4], James J. Emerson[5], David Begun[2], Charles Langley[2].** 1) Laboratory of Genetics University of Wisconsin-Madison; 2) Department of Evolution and Ecology University of California, Davis; 3) Department of Organismal and Evolutionary Biology Harvard University; 4) Department of Evolutionary Biology Ludwig Maximilians University, Munich; 5) Department of Integrative Biology University of California, Berkeley.
947B	SHAMA SINGH	Changes in body melanisation and not body size affect mating success in Drosophila immigrans. **SHAMA SINGH.** ZOOLOGY, UNIVERSITY OF DELHI, DELHI.
Gametogenesis and organogenesis		
948C	Arnaldo Carreira-Rosario	Cytoplasmic Rbfox1/A2BP1 regulates early germline cyst development by repressing translation through a 3'UTR mediated-mechanism. **Arnaldo Carreira-Rosario, Michael Buszczak.** Department of Molecular Biology, University of Texas-Southwestern Medical Center, Dallas, TX.
949A	Lathiena A. Manning	Characterization of a calcyphosine-like protein required for proper border cell migration during oogenesis. **Lathiena A. Manning, Michelle Starz-Gaiano.** Biological Sciences, University of Maryland Baltimore County, Baltimore, MD.
950B	Xing Ma	Chk2 mutation rescues germline stem cell loss induced by DNA damage. **Xing Ma[1,2], Ting Xie[1,2].** 1) Stowers Institute for Medical Research, Kansas City, MO; 2) University of Kansas Medical Center, Dept of Anatomy & Cell Biology, Kansas City, KS.
951C	Akram M. Abou-Zied	Nuclear localization of the Drosophila ovo protein. **Akram M. Abou-Zied.** Dept. of Zoology, Faculty of Science, Suez Canal University, Ismailia, Egypt.
952A	Delbert A. Green	Independent Evolution of a Reproductive Trait Through Distinct Developmental Mechanisms in *Drosophila*. **Delbert A. Green[1], Cassandra Extavour[2].** 1) Molecular and Cellular Biology, Harvard University, Cambridge, MA; 2) Organismic and Evolutionary Biology, Harvard University, Cambridge, MA.
953B	Janet E. Rollins	Smt3 Posttranslational Modifications Mediate Critical Regulatory Events during *Drosophila* Spermiogenesis and Spermatogenesis. **Janet E. Rollins[1,2], Keumsil Hwang[2], Patricia Morris[2,3].** 1) Natural Sci, Col Mt Saint Vincent, Riverdale, NY; 2) 2Center for Biomedical Research, Population Council, New York, N.Y; 3) 3The Rockefeller University, New York, N.Y.
Immunity and pathogenesis		
954C	Carine Meignin	The antiviral RNAi pathway interactome in *Drosophila Melanogaster*. **Carine Meignin[1], Karim Majzoub[1], Yann Verdier[2], Joëlle Vinh[2], Jean-Luc Imler[1].** 1) CNRS-UPR9022, Institut de Biologie Moléculaire et Cellulaire, Strasbourg, France; 2) Laboratory of Biological Mass Spectrometry and Proteomics (SMBP), CNRS USR3149, ESPCI ParisTech, Paris, France.
955A	Annabel E. Guichard	Cholera toxin disrupts exocyst-mediated trafficking to intestinal cell junctions. **Annabel E. Guichard[1], Beatriz Cruz-Moreno[1], Nina M. Van Sorge[2,5], Guillaume P. Pineton de Chambrun[3], Declan Mc. Cole[3], Victor Nizet[2,4], Bier Ethan[1].** 1) Dept Biol, Univ California, San Diego, La Jolla, CA. USA; 2) Dept of Pediatrics, Univ California, San Diego, La Jolla, CA USA; 3) Dept of Medicine, Univ of California, San Diego, La Jolla, CA USA; 4) Skaggs School of Pharmacy & Pharmaceutical Sciences, Univ of California, San Diego, La Jolla, CA USA; 5) Medical Microbiology, University Medical Center Utrecht, Heidelberglaan, The Netherlands.
956B	Kristin L. Latham	Toxicity response of *Drosophila melanogaster* larvae to *Pseudomonas fluorescens* Pf-5. **Kristin L. Latham[1], Amy Nicholson[1], Jenna Schneider[1], Adam Pettitt[1], Patricia Flatt[2].** 1) Biology, Western Oregon Univ, Monmouth, OR; 2) Chemistry, Western Oregon Univ, Monmouth, OR.
957C	Claudine Neyen	A novel PGRP-LC splice variant encodes a putative negative regulator of the imd pathway. **Claudine Neyen, Bruno Lemaitre.** Global Health Institute, EPFL, Lausanne, Switzerland.
958A	Ana M. Hernandez	Increased immunoreactivity in the aged *Drosophila* Malpighian Tubule. **Ana M. Hernandez[1], Florentina Rus[2], Neal Silverman[2], Marc Tatar[1].** 1) Ecology and Evolutionary biology, Brown University, Providence, RI; 2) Division of Infectious Disease, Department of Medicine, University of Massachusetts Medical School, 364 Plantation Street, Worcester, MA 01605, USA.
Neurophysiology and behavior		

959B	Johanna E. Pfitzenmaier	Behavioral analysis for different sugars in Drosophila larvae with respect to survival, choice and learning. **Johanna E. Pfitzenmaier[1,2], Astrid Rohwedder[1,2], Noel Ramsperger[1], Anthi Apostolopoulou[1,2], Annekathrin Widmann[1,2], Andreas S. Thum[1,2].** 1) Department of Biology, University of Konstanz, 78457 Konstanz, Germany; 2) Department of Biology, University of Fribourg, CH-1700 Fribourg, Switzerland.
960C	Kosei Sato	*longitudinals lacking* cooperates with *fruitless* in generating sexual differences in neuronal structures and behavior. **Kosei Sato, Gakuta Toba, Masayuki Koganezawa, Daisuke Yamamoto.** Tohoku University, Sendai, Miyagi, Japan.
961A	Gonzalo Budelli	The *Drosophila* high-conductance Na^+-activated K^+ channel. **Gonzalo Budelli, Alice Butler, Lawrence Salkoff.** Dept. of Anatomy and Neurobiology, Washington University in St. Louis, Saint Louis, MO.
962B	Asako Tsubouchi	An actin rich mechanosensory organelle in *Drosophila* somatosensory neurons. **Asako Tsubouchi, Jason Caldwell, W. Daniel Tracey.** Anesthesiology, DUKE University, Durham, NC.
963C	Scott A. Kreher	Two odor receptors contribute distinct and complex signals in response to structurally similar odor molecules. **Scott A. Kreher, Raquel Robles, Michael Wesolowski.**Dominican University, River Forest, IL.
Neural development		
964A	Milan Petrovic	Identification of Cell Recognition Molecules controlling Mechanosensory Neuron Wiring in the Drosophila CNS. **Milan Petrovic, Dan Dascenco, Olivier Urwyler, Dietmar Schmucker.** VIB, KU Leuven, Leuven, Belgium.
965B	Robin Harris	A set of reagents for addressing neuroblast hemilineages in the adult VNC. **Robin Harris, Barret Pfeiffer, Gerald Rubin, James Truman.** Janelia Farm Research Campus, Howard Hughes Medical Institute, Ashburn, VA.
966C	Haluk Lacin	Descriptive Genetic and Genomic Analysis of Post-Embryonic Neurogenesis. **Haluk Lacin, Elizabeth Cozart, Yi Zhi, Beth Wilson, James Skeath.** Dept. of Genetics, Washington University in St Louis, St Louis, MO.
967A	Mala Misra	Identification of localized mRNAs in Drosophila sensory neurons using a novel genetic screen. **Mala Misra[1], Janet A. Tambasco[1], Marissa A. Schlueter[1], Ida L. Barlow[1], Nair JayaNandanan[2,3], Maria Leptin[2,3], Elizabeth R. Gavis[1].** 1) Molecular Biology, Princeton University, Princeton, NJ; 2) EMBL, Heidelberg, Germany; 3) Institute of Genetics, University of Cologne, Cologne, Germany.
968B	Sudeshna Das	The T-box transcription factor midline collaborates with the insulin-regulated dFOXO transcription factor to regulate cell-fate specification in the developing eye of Drosophila melanogaster. **Sudeshna Das[1], Deepak Kumar[1], Yan Zong[2], Brandon Drescher[1], Sarah Morgan[2], Sandra Leal[1].** 1) Biological Sciences, University Of Southern Mississippi, Hattiesburg, MS; 2) School of polymers and high performance materials,University Of Southern Mississippi, Hattiesburg, MS.
969C	Elaine R. Reynolds	A NetLogo model of *Notch-Delta* interactions in the determination of the neural-epidermal lineages. **Elaine R. Reynolds[1], Christopher Sanginiti[1], Jeffrey Pfaffmann[2].** 1) Neuroscience Program, Lafayette Col, Easton, PA; 2) Dept of Computer Science, Lafayette Col, Easton PA.
970A	Yusuke Hara	Cell type-specific role of ecdysone signal in the optic lobe cell death and development in *Drosophila*. **Yusuke Hara[1,2], Yu Togane[1,2], Hiromi Akagawa[1,2], Tatsuya Sudo[1], Ayano Ishitsuka[1], Masashi Iwamura[1], Rie Ayukawa[1], Keiichiro Hirai[1], Kengo Beppu[1], Takashi Takahashi[1], Kikuo Iwabuchi[2], Hidenobu Tsujimura[1].** 1) Devlopmental Biology, Tokyo Univ of Agriculture and Technology, Tokyo, Japan; 2) Dept of Biological Production Science, Tokyo Univ of Agricluture and Technology, Tokyo Japan.
971B	Sam Galindo	Role of Piccolo homolog Fife in synapse assembly and function. **Sam Galindo[1], Joseph Bruckner[2], Scott Gratz[1], Jessica Slind[1], Richard Geske[1], Kate O'Connor-Giles[1,2].** 1) Laboratory of Genetics, University of Wisconsin-Madison, Madison, WI; 2) Laboratory of Cell and Molecular Biology, University of Wisconsin-Madison, Madison, WI.
972C	Hyun-Gwan Lee	Akt1 regulates GluRIIA localization and subsynaptic reticulum expansion in *Drosophila* neuromuscular junction. **Hyun-Gwan Lee, Na Zhao, Scott B. Selleck.**Biochemistry and Molecular Biology, The Penn State University, University Park, PA.
Pattern Formation		
973A	Fiona Hails	The T-box transcription factor *midline* defines the posterior limit of dorsal anterior fates in the *Drosophila* follicular epithelium. **Fiona Hails, Mariana Fregoso Lomas, Laura Nilson.** Biology, McGill, Montreal, Quebec.
974B	Marie-Anaïs Tiberghien	The Drosophila Hox gene Deformed (Dfd/Hoxb4-d4) modulates cell adhesion within the eye-antennal imaginal disc. **Marie-Anaïs Tiberghien[1], Magali Suzanne[1], David Cribbs[2], Corinne Benassayag[1].** 1) Université Paul Sabatier, LBCMCP UMR 5088, Toulouse, France; 2) Université Paul Sabatier, CBD UMR 5547, Toulouse, France.
975C	Keaton J. Schuster	A screen for genes regulating repatterning in regenerating wing imaginal discs. **Keaton J. Schuster, Andrea Skinner, Rachel K. Smith-Bolton.** Cell & Developmental Biology, University of Illinois at Urbana-Champaign, Urbana, IL.
Physiology and aging		
976A	Jyoti R. Misra	Transcriptional Control of Xenobiotic Detoxification in *Drosophila*. **Jyoti R. Misra, Mike A. Horner, Geanette Lam, Carl S. Thummel.** Dept Human Gen, Univ Utah, Salt Lake City, UT.
977B	Xiao-Jun Xie	CDK8-Cyclin C negatively regulates SREBP-dependent lipogenesis. **Xiao-Jun Xie[1], Qun Wang[1], Lu-Ping Liu[2], Eun Joo Kim[1], Yani Zheng[1], Jian-Quan Ni[2], Jun-Yuan Ji[1].** 1) Department of Molecular and Cellular Medicine, College of Medicine, Texas A&M Health Science Center, College Station, TX 77843, USA; 2) School of Medicine, Tsinghua University, Beijing 100084, China.
978C	Christine Sansone	The enlarged crop phenotype observed in *drop-dead* mutants does not correlate with starvation. **Christine Sansone, Edward Blumenthal.** Biological Sci, Marquette Univ, Milwaukee, WI.

979A	David J. Casso	Expression and characterization of Drosophila signal peptide peptidase-like (sppL), a gene that encodes an intramembrane protease. **David J. Casso[1,2], Songmei Liu[2,3], Brian Biehs[2], Katja Brückner[1], Thomas B. Kornberg[2,3].** 1) Department of Cell and Tissue Biology, Univ California, San Francisco, San Francisco, CA; 2) Department of Biochemistry and Biophysics, Univ California, San Francisco, San Francisco, CA; 3) Cardiovascular Research Institute, Univ California, San Francisco, San Francisco, CA.
Regulation of gene expression		
980B	Hilary Cara Archbold	Transcriptional Twister: characterizing the plasticity of a bipartite dTCF binding motif . **Hilary Cara Archbold[1], Kenneth M. Cadigan[1,2].** 1) Cellular and Molecular Biology Program, University of Michigan, Ann Arbor, MI; 2) Department of Molecular, Cellular and Developmental Biology, University of Michigan, Ann Arbor, MI.
981C	Dimitri C. Bieli	Identification of cis-regulatory elements at the endogenous apterous locus. **Dimitri C. Bieli[1], Oguz Kanca[1], Martin Müller[1], Daryl Gohl[2], Paul Schedl[2], Markus Affolter[1].** 1) Biozentrum, University of Basel, Basel, Switzerland; 2) Princeton University Department of Molecular Biology.
982A	Jacqueline M. Dresch	Two-level developmental gene regulatory model to incorporate cis-regulatory and temporal information. **Jacqueline M. Dresch[1], Rupinder Sayal[2], Chichia Chiu[1], David N. Arnosti[2].** 1) Mathematics, Michigan State University, East Lansing, MI; 2) Biochemistry and Molecular Biology, Michigan State University, East Lansing, MI.
983B	Emily R. Wyskiel	Regulation of *Sex combs reduced* within the transverse row bristle primordia of legs in the first thoracic segment of *Drosophila Melanogaster*. **Emily R. Wyskiel, Christopher L. McCallough.** Biological Sciences, University of Illinois at Chicago, Chicago, IL.
984C	Aditi Ravindranath	Exploring the role of the C-clamp in TCF mediated Wnt/β-catenin signaling. **Aditi Ravindranath, Ken Cadigan.** Dept. of Molecular, Cellular and Developmental Biology, University of Michigan, Ann Arbor, MI.
985A	KURTULUS KOK	Corepressor Preferences and Distinct Chromatin Features induced by Hairy Transcriptional Repressor in the Drosophila Embryo. **KURTULUS KOK[1], LI LI[2], DAVID ARNOSTI[1].** 1) GENETICS, MSU, EAST LANSING, MI; 2) MOLECULAR AND CELL BIOLOGY, UNIVERSITY OF CALIFORNIA, BERKELEY, CA.
RNA biology		
986B	Neal A. L. Cody	Transcriptome-wide profiling implicates *Drosophila* Muscleblind in mRNA subcellular localization. **Neal A. L. Cody[1,2], Eric T. Wang[3,4], Daniel Treacy[3], Thomas T. Wang[3], Christopher B. Burge[3,4], Eric Lécuyer[1,2].** 1) RNA Biology, Institute de Recherches Cliniques de Montréal, Montréal, QC; 2) Department of Biochemistry, Université de Montréal, Montréal, QC; 3) Department of Biology, Massachusetts Institute of Technology, Cambridge, MA; 4) Harvard-MIT Division of Health Sciences and Technology, Cambridge, MA.
987C	Vítor Trovisco	*bcd* mRNA localizes by random transport and cortical anchoring at stage 9 of oogenesis. **Vítor Trovisco[1], Katsiaryna Belaya[1], Liz Gavis[2], Daniel St. Johnston[1].** 1) Gurdon Institute, The University of Cambridge, Cambridge, Cambridgeshire, UK; 2) Department of Molecular Biology, Princeton University, Princeton, NJ 08544, USA.
Stem cells		
988A	Yijie Li	Ecdysone Regulation of Stem Cell Maintenance in the *Drosophila* Testis Niche. **Yijie Li, Qing Ma, Erika Matunis*.** Cell Dept, Johns Hopkins Medical Inst, Baltimore, MD.
989B	Su Wang	Escort stem cell as germline stem cell differentiation niche in Drosophila ovary. **Su Wang[1,2], Daniel Kirilly[1], Ting Xie[1,2].** 1) Stowers Institute for Medical Research, Kansas City, MO; 2) University of Kansas Medical Center, Dept of Anatomy & Cell Biology, Kansas City, KS.
990C	Gabriel B. Ferguson	Hippo Pathway effectors Yorkie and Scalloped are required for proper maintenance of hematopoietic progenitors in the larval lymph gland. **Gabriel B. Ferguson[1], Julian A. Martinez-Agosto[1,2].** 1) Molecular Biology Institute, UCLA, Los Angeles, CA; 2) Department of Human Genetics, UCLA, Los Angeles, CA.
991A	Lindy A. McClelland	Tis11 mediated mRNA degradation regulates Intestinal Stem Cell Quiescence. **Lindy A. McClelland[1], Heinrich Jasper[2], Benoît Biteau[2].** 1) Department of Biomedical Genetics, University of Rochester Medical Center, Rochester, NY; 2) Department of Biology, University of Rochester, Rochester, NY.
992B	Dani Osman	Exploring the role of Upd ligands in the adult Drosophila midgut. **Dani Osman[1], Nicolas Buchon[1], Sveta Chakrabarti[1], Yu-Ting Huang[2], Yu-Ting Chiu[2], Mickaël Poidevin[3], Yu-Chen Tsai[2], Bruno Lemaitre[1].** 1) GHI, EPFL, Lausanne, Switzerland; 2) Dep. of Life Science, Tunghai University, Taichung, Taiwan; 3) CGM, CNRS, Gif-sur-Yvette, France.
993C	Judith L. Leatherman	The Role of Zfh-1 in the Cyst Stem Cells of the Testis Stem Cell Niche. **Judith L. Leatherman, Elizabeth Overturf.** School of Biological Sciences, University of Northern Colorado, Greeley, CO.
Techniques and functional genomics		
994A	Heuijong Kim	Mutagenesis by imprecise excision of the *piggyBac* transposon in *Drosophila melanogaster*. **Heuijong Kim, Kiyoung Kim, Jaekwang Kim, Song-Hee Kim, Jeongbin Yim.** School of Biological Sciences, Seoul National University, Seoul, Republic of Korea.