55th Annual Drosophila Research Conference

Program Addendum

Town & Country Resort & Conference Center
San Diego, CA
March 26-30, 2014

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/ADDITIONS

Friday, March 28

11:15 am Chromatin & Epigenetics session #62 has been cancelled and is replaced by #793A Targeting Heterochromatin Formation in Drosophila. Sarah C R Elgin

11:45 am Chromatin & Epigenetics session #64 has been cancelled and is replaced by #823A The SUUR Chromatin Protein Promotes Underreplication Through Inhibition of Replication Fork Progression Jared T. Nordman

7:00-7:45 pm The Fly Room Movie Special Event California Room

Saturday, March 29

8:30 am Abstract #105 will be presented by Steve Small in the Regulation of Gene Expression Session.

11:00 am Abstract #127 will be presented by Doris Bachtrog in the Regulation of Gene Expression Session

POSTER CANCELLATIONS/CHANGES

Poster #272B (Wang) cancelled
Poster #273C (Gorski) cancelled
Poster #556A (Agrawal) Presenter changed to Anjalika Chongtham
Poster #625A (Yadav) cancelled
Poster #751A (Gutzwiller) cancelled
Poster #793A (Elgin) Changed to platform session

LATE ABSTRACTS
(see complete text of abstracts at www.drosophila-conf.org)

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<tr>
<th>Poster #</th>
<th>Presenting Author</th>
<th>Abstract Title and Co-Authors</th>
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<tr>
<td>892A</td>
<td>Anna Jang</td>
<td>The role of Rap1 in regulation of actin dynamics during Drosophila border cell migration. Anna C. Jang, Zih-Min Liao, Yi-Shan Huang, Yi-Chi Hsieh, Tzu-han Huang. Institute of Biotechnology, National Cheng Kung University, Tainan, Taiwan.</td>
</tr>
<tr>
<td>893B</td>
<td>Christopher Fields</td>
<td>Functional and expression analysis of a novel putative basement membrane degrader in Drosophila melanogaster. Christopher J. Fields, Ajay Srivastava. Biology, Western Kentucky University, Bowling Green, KY.</td>
</tr>
<tr>
<td>894C</td>
<td>James Caldwell</td>
<td>First X-ray crystal structure of a Drosophila muscle myosin. James Caldwell, Girish Melkani, Tom Huxford, Sanford Bernstein. Biology Dept, San Diego State University, San Diego, CA, 92182.</td>
</tr>
<tr>
<td>895A</td>
<td>Derek Dean</td>
<td>Wavy, a gene affecting wing morphology, encodes an inositol 1,4,5-triphosphate kinase. Derek M. Dean1, Eric Spana2, Luana Maroja1, Brent Bomkamp1, David L. Deitcher1. 1) Biology, Williams College, Williamstown, MA; 2) Biology, Duke University, Durham, NC; 3) Neurobiology and Behavior, Cornell University, Ithaca, NY.</td>
</tr>
<tr>
<td>896B</td>
<td>Janine Quijano</td>
<td>Lolal is maternally required for proper Dpp responsiveness. Janine Quijano, Jacob Seemann, Stuart Newfeld. School of Life Sciences, Arizona State Univ, Tempe, AZ.</td>
</tr>
<tr>
<td>897C</td>
<td>Hui-Ying Lim</td>
<td>ROS regulate cardiac function in Drosophila via a novel paracrine mechanism. Hui-Ying Lim1,2. 1) Free Radical Biology and Aging, Oklahoma Medical Research Foundation, Oklahoma City, OK; 2) Development, Aging and Regeneration Program, Sanford-Burnham Medical Research Institute, La Jolla, CA.</td>
</tr>
</tbody>
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Cell Division and Growth Control

899B John Poulton
Centrosomes are key components of mitotic spindle assembly and orientation in the symmetric divisions of Drosophila epithelial cells. **John Poulton**, John Cuningham, Mark Peifer. Biology, Univ North Carolina, Chapel Hill, NC.

Physiology, Organismal Growth, and Aging

900C Aditya Sen

901A Gayle Overend

902B Maria Stefana

903C Wen Bin Chng
Dietary regulation of amylase and maltase expression in the adult Drosophila midgut. **Wen-Bin Alfred Chng**, Global Health Institute, School of Life sciences, Station 19, EPFL, 1015 Lausanne, Switzerland.

904A Sahar Emran

905B Kai Huang
The putative role of DCISD3 in Drosophila. **KT Huang**, JC Li, HD Wang, CH Chen. 1) National Tsing Hua University, Hsinchu, Taiwan, Taiwan; 2) National Health Research Institutes, Miaoli, Taiwan, Taiwan.

Gametogenesis and Organogenesis

906C Ming-Der Lin
Molecular dissection of Vasa function in germ plasm localization and assembly. *Szu-Chieh Wang*, Hao-Jen Hsu, Gee-Way Lin, Ting-Fang Wang, Chun-Che Chang, **Ming-Der Lin**. 1) Dept. of Mol. Biol. & Human Genetics, Tzu-Chi University, Hualien, Taiwan; 2) Dept. of Life Science, Tzu-Chi University, Hualien, Taiwan; 3) Department of Entomology, National Taiwan University, Taipei, Taiwan.

Stem Cells

907A Yalan Xing
Pineapple eye, a putative Drosophila E3 ligase, functions as an essential factor in germline and intestinal stem cell self-renewal. **Yalan Xing**, Hannele Ruohola-Baker. Department of Biochemistry, University of Washington, Seattle, WA.

908B Kyu-Sun Lee
Roles of PINK1, mTORC2, and mitochondria in preserving brain tumor-forming stem cells in a noncanonical Notch signaling pathway. **Kyu-Sun Lee**, Zhihao Wu, Yan Song, Siddhartha S. Mitra, Abdullah H. Feroze, Samuel H. Cheshier, Bingwei Lu. 1) Department of Pathology, Stanford University, Stanford, CA 94305 USA; 2) Bio Nanotechnology Research Center, Korea Research Institute of Bioscience and Biotechnology, Daejeon, Korea; 3) Peking-Tsinghua Center for Life Sciences, Peking University, Beijing, China; 4) Institute of Stem Cell Biology and Regenerative Medicine, Stanford, CA 94305 USA; 5) Department of Neurosurgery, Stanford University School of Medicine, Stanford, CA 94305 USA.

909C Chenhui Wang
EGFR and Notch signaling respectively regulate proliferative activity and multiple cell lineage differentiation of Drosophila gastric stem cells. **Chenhui Wang**, Xingting Guo, Rongwen Xi. 1) National Institute of Biological Sciences, No. 7 Science Park Road, Zhongguancun Life Science Park, Beijing 102206, China; 2) College of Life Sciences, Beijing Normal University, Beijing, 100875, China.

Immunity and Pathogenesis

910A Lei Zhou
P53-Mediated Rapid Induction of Apoptosis Conveys Resistance to Viral Infection. Bo Liu, Susanta Behura, Rollie Clem, Anette Schneemann, James Becnel, David Severson, **Lei Zhou**. 1) Dept Molec Genetics/Microbiol, Univ Florida Col Medicine, Gainesville, FL; 2) Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN; 3) Division of Biology, Kansas State University, Manhattan, KS; 4) Department of Molecular Biology, The Scripps Research Institute, La Jolla, CA; 5) Center for Medical, Agricultural and Veterinary Entomology, USDA/ARS, Gainesville, FL.

Neural Development

911B Dominique Siegenthaler
Molecular mechanisms underlying Neuroglian (L1 CAM) mediated axonal interactions essential for mushroom body development. **Dominique Siegenthaler**, Eva-Maria Enneking, Eliza Moreno, Jan Pielage. Friedrich Miescher Institute, Basel, Switzerland.

912C Cecilia Lu
The Conserved MicroRNA miR-8 Regulates Synapse Morphogenesis. **Cecilia S. Lu**, Bo Zhai, Alex Mauss, Matthias Landgraf, Stephen Gygi, David Van Vactor. 1) Okinawa Institute of Science and Technology, Okinawa, Japan; 2) Department of Cell Biology, Harvard Medical School, Boston, MA, USA; 3) Department of Zoology, University of Cambridge, Cambridge, UK; 4) Max Planck Institute of Neurobiology, Martinsried, Germany.

913A Husam Babikir
Aplip1/JIP1 is a transport adaptor for axonal transport of active zone proteins. **Husam Babikir**, Matthias Siebert, Matthias Böhme, Nicole Holton, Stephan Sigrist. 1) Institute of Biology & Genetics -FU Berlin, Berlin, Germany; 2) NeuroCure Cluster of Excellence, Charité Berlin, Berlin, Germany; 3) Institut für Chemie und Biochemie, Abteilung Strukturbiochemie, Freie Universität Berlin.,
| 914B | Matthew Meiselman | Ecdysis Triggering Hormone: Metamorphosis of a Developmental Signal into a Regulator of Reproduction in the Fruit Fly Drosophila melanogaster. Matthew R. Meiselman1, Hongjiu Dai1, Sang Soo Lee1, Crisalejandra Rivera-Perez2, Fernando Noriega2, Thilini Wijesekera3, Brigitte Dauwalder1, Michael Adams1,2. 1) Department of Cell, Molecular, and Developmental Biology, University of California; 2) Department of Entomology and Cell Biology & Neuroscience, University of California, Riverside, Riverside, CA 92521; 3) Department of Biological Sciences, Florida International University, Miami, FL 33199; 4) Department of Biology and Biochemistry, University of Houston, 369 SR2, Houston, TX 77204. |
| 915C | Mohammed Khan | Functional Consequences of Amyloid-like Oligomerization of Drosophila Orb2. Mohammed R. Khan. Stowers Institute For Medical Research, Kansas City, KS. |
| 916A | Sang Soo Lee | Ecdysis Triggering Hormone Mediates Courtship Memory via Regulation of Juvenile Hormone Levels. Sang Soo Lee1, Natalie Karapetians2, Crisalejandra Rivera-Perez2, Fernando Noriega1, Thilini Wijesekera4, Brigitte Dauwalder1,2, Michael Adams1,2. 1) Neuroscience Graduate Program; 2) Department of Entomology and Cell Biology & Neuroscience, University of California, Riverside, Riverside, CA 92521; 3) Department of Biological Sciences, Florida International University, Miami, FL 33199; 4) Department of Biology and Biochemistry, University of Houston, 369 SR2, Houston, TX 77204. |

**Drosophila Models of Human Diseases**

| 917B | Santiago Pineda | The BK Channel Slowpoke and Cardiac Function. Santiago Pineda1, Karen Ocorr1, Rolf Bodmer1, Diane Fatkin1. 1) Biomedical Sciences, Sanford Burnham Medical Research Institute, La Jolla, CA; 2) Victor Chang Cardiac Research Institute, 405 Liverpool Street, Darlinghurst NSW 2010. |
| 918C | Mark Kankel | Identification of Modifiers of Amyotrophic Lateral Sclerosis in Drosophila. Mark W. Kankel1, Anindya Sen1, Doug Dimlich2, Marianthi Kiparaki2, Marina Theodorou2, Nicole Sakellaris1, Basil Tarab1, Spyrkos Artavanis-Tsakonas1,2. 1) Molecular Discovery, BiogenIdec, Cambridge, MA; 2) Department of Cell Biology, Harvard Medical School, Boston, MA. |
| 919A | Anindya Sen | Identification of modifiers of Parkinson’s disease in Drosophila. Anindya Sen1, Mark Kankel1, Doug Dimlich2, Harsha Kuthethur Gururaj1, Basal Tarab1, Christina Wong2, Nicole Sakellaris2, Samia Aly2, Chapman Beekman1, Spyrkos Artavanis-Tsakonas1,2. 1) Molecular Discovery, Biogen-Idec, Cambridge, MA; 2) Department of Cell Biology, 240 Longwood Avenue, LHRBB 410, Boston, MA 02115. |
| 920B | David Hess-Homeier | Astrocyte-specific regulation of human MeCP2 expression in Drosophila. David Hess-Homeier1, Chia-Yu Fan1, Tanun Gupta2, Ann-Shyn Chiang3,4, Sarah Certe1,2. 1) Department of Biological Sciences, University of Montana, Missoula, MT; 2) Neuroscience Graduate Program, University of Montana, Missoula, MT; 3) Brain Research Center, National Tsing Hua University, Taiwan; 4) Institute of Biotechnology, National Tsing Hua University, Taiwan. |
| 921C | Patricia Jumbo-Lucioni | Altered Glycosylated Synaptomatrix Composition and Synaptic Architecture in a Drosophila Classic Galactosemia Disease Model. Patricia P. Jumbo-Lucioni1, Kendal S. Broadie. Department of Biological Sciences, Vanderbilt University, Nashville, TN. |
| 922A | Dominika Korzekwa | Systems biology and metabolomics approaches: towards the core metabolic map of Drosophila melanogaster. Dominika Korzekwa1, Dan Erben1, Shireen A. Davies1, David G. Watson2, Julian A. T. Dow1. 1) University of Glasgow, Glasgow, United Kingdom; 2) University of Strathclyde, Glasgow, United Kingdom. |

**Evolution and Quantitative Genetics**

| 925A | Shuoyang Wen | Courtship songs in the Drosophila montium species-subgroup. Chuancheng Chen1, Xiaoshen Lu1, Masayoshi Watada1, Michael G. Ritchie1, Shuoyang Wen1. 1) Department of Entomology, South China Agricultural Univ. 483 Wushan Road, Guangzhou, Guangdong, China; 2) Graduate School of Science and Engineering, Ehime University, 3 Bunkyo-Cho, Matsuyama, Ehime 790-8577, Japan; 3) School of Biology, University of St Andrews, St Andrews, Fife KY16 9TH, UK. |
| 926B | Yerbol Kurmangaliyev | Allele-specific splicing in panel of genotype-specific transcriptomes of Drosophila melanogaster. Yerbol Kurmangaliyev1,2, Kjong Lehmann1, Daniel Campo1, Peter Chang1, Alexander Favorov3, John Tower1, Mikhail Gelfand1, Sergey Nuzhdin1. 1) Molecular and Computational Biology, University of Southern California, Los Angeles, CA; 2) Institute for Information Transmission Problems, Moscow, Russia; 3) Memorial Sloan-Kettering Cancer Center, New York, NY; 4) Johns Hopkins University School of Medicine, Baltimore, MD. |
| 927C | Allison McClish | Cytoplasmic incompatibility and infection frequency of Wolbachia in a Michigan population of D. melanogaster. Allison McClish. Roger Albertson.Albion College Biology Department, Albion, MI. |
| 928A | Alison Egge | Genotype-by-environment interactions of demographic values in fluctuating thermal environments using Drosophila melanogaster. Alison Egge, Olivia Eller, Theodore Morgan. Kansas State University, Manhattan, KS. |
| 929B | Timothy Karr | Protein evolution through the lens of the sperm proteome. Timothy Karr. Biodesign Inst, PO Box 875001, Arizona State Univ, Tempe, AZ. |
| 930C | Minako Izutsu | Comprehensive Analysis of Genes Involved in the Dark Adaptation of a Drosophila Line. Minako Izutsu1, Osamu Nishimura2, Kiyokazu Agata1, Naoyuki Fuse1. 1) Laboratory for Molecular Developmental Biology, Graduate School of Science, Kyoto University; 2) RIKEN Center for Developmental Biology, Japan. |
Pattern Formation

931A Jennifer Winstanley
A Structure-Function analysis of Drosophila Tolloid. Jennifer Winstanley, Clair Baldock, Hilary Ashe.Faculty of Life Sciences, University of Manchester, Manchester, United Kingdom.

932B Emilia Esposito
Dynamic Regulation of Eve Stripe 2 Expression in Living Embryos. Emilia Esposito,1,3 Jacques Bothma1,3, Gavin Shissel1,3, Hernan Garcia2, Thomas Gregor2, Michael Levine1.1) Dept. of MCB, UC Berkeley, Berkeley, CA; 2) Dept of Physics, Princeton University, Princeton, NY; 3) These authors contributed equally to the work.

933C Sudha Kumar

934A Adam Majot
E(spl)A-meditated repression of R8 cell-fate occurs independently of N19. Adam Majot, Ashok Bidwai.Biology, West Virginia University, Morgantown, WV.

Regulation of Gene Expression

935B Jasmine Kharazmi
Investigation of dmyc Promoter and Regulatory Regions. Jasmine Kharazmi,1 Cameron Moshfegh1.1) Department of Neuroanatomy, UZH, Zurich, Switzerland; 2) Department of Health Sciences, ETHZ, Zurich, Switzerland.

936C Hsiao-Yun Liu

937A Lisa Deignan
Dynamic regulation of the Dpp signalling-responsive transcriptional network in the Drosophila embryo. Lisa Deignan, Abbie Saunders, Catherine Sutcliffe, Tim Burgess, Leo Zeef, Ian Donaldson, Hilary L. Ashe.Faculty of Life Sciences, University of Manchester, Manchester, United Kingdom.

947A Laura Youngblood
Drosophila melanogaster and the role of genetic background in eggshell phenotype. Laura Youngblood, Lisa Goering.St. Edward's University, Austin, TX.

Chromatin and Epigenetics

938B Jack Bateman
Analysis of transvection using fluorescent reporters. Jack R. Bateman, Amanda J. Blick, Ilana Mayer-Hirshfeld, Beatriz Malibiran, Justine E. Johnson.Biology Department, Bowdoin College, Brunswick, ME.

939C Qingjiao Li
Analysis of the D. melanogaster genome organization. Qingjiao Li, Harianto Tjong, Xianghong Jasmine Zhou, Frank Alber, CMB, University of Southern California, Los Angeles, CA.

RNA Biology

940A Ya-Chen Lin
Role of MicroRNA Turnover in the Maternal to Zygotic Transition in Drosophila. YC Lin,1 JC Li2, HD Wang, CH Chen.1) National Tsing Hua University, Hsinchu, Taiwan; 2) National Health Research Institutes, Miaoli, Taiwan.

941B Coline Goriaux

942C Sachi Inagaki
Lobe-less RNA is essential for mushroom body morphogenesis in Drosophila. Sachi Inagaki, Masanao Sato1,2, Tomoyuki Miyashita3, Natsuki Nakamura3, Satoru Kobayashi1,2, Minoru Saitoe4, Yuji Kageyama1,5. 1) Research Center for Environmental GenomicsKobe University, Kobe, Japan; 2) Okazaki Institute for Integrative Bioscience, Japan; 3) National Institute for Basic Biology, National Institutes of Natural Sciences, Japan; 4) Tokyo Metropolitan Institute of Medical Science, Japan; 5) Department of Biology, Graduate School of Sciences, Kobe University, Japan.

943A Jenna Schwarz

Techniques and Resources

944B Andrew Bassett

945C Susan Celniker
De novo Assemblies of Drosophila melanogaster using third-generation PacBio sequencing. Jane Landolin2, Kristi Kim3, Sergey Koren4, Chen-Shan Jason Chin5, Charles Yu5, Bill Fisher1, Roger Hoskins1, Casey Bergman4, Adam M. Phillippy3, Susan E. Celniker1. 1) Berkeley Dros Genome Ctr, Lawrence Berkeley National Lab, Berkeley, CA; 2) Pacific Biosciences, 1380 Willow Road, Menlo Park, CA 94025; 3) 3125 Biomolecular Sciences Bldg #296, University of Maryland, College Park, MD 20742; 4) Michael Smith Building, Oxford Road, University of Manchester, M13 9PT.

946C Moises Paramo
Dispersal at the Chromosomal Level of the NK gene family in Drosophila willistoni. Moises S. Paramo, Carolus Chan, Jose Ranz.University of California, Irvine, Irvine, CA.