

8th Annual Boston Area Drosophila Meeting

Tuesday, May 21, 2024

UMass Chan Medical School

Local organizers

Neal Silverman, PhD, Professor of Medicine

Phillip Zamore, PhD, Gretchen Stone Cook Professor of Biomedical Sciences

Andreas Bergmann, PhD, Professor of Molecular, Cell and Cancer Biology

Travis Thomson, PhD, Assistant Professor of Neurobiology

9:00 AM Registration, 1st Floor Lobby, **Albert Sherman Center**

Session I: (Albert Sherman Center; AS2.2102 Auditorium)

Moderators: Panos Velentzas, Instructor, UMass Chan and Lucas Restrepo, Graduate Student, UMass Chan

9:30 AM Opening remarks: Travis Thomson, PhD, Assistant Professor of Neurobiology, UMass Chan

9:40 AM **Peter M'Angale**, PhD, UMass Chan
Cryo-EM Structure of the Copia Capsid hints at Structural Antagonism with dArc1 to Regulate Synaptic Plasticity

9:55 AM **Mikhail S. Klenov**, PhD, RNA Therapeutics Institute, UMass Chan
Piwi and piRNAs Repress Transcription of Aberrant rRNA Genes containing Retrotransposon Fragments

10:10 AM **Ratna Chaturvedi**, PhD, UMass Chan
A Glia-Enriched Transporter Controlling Sleep in Drosophila

10:25 AM **Emily Rivard**, Harvard University
Evolving Molecular Mechanisms of Fate Specification within the Drosophila Genus

10:40 AM Coffee Break (Outside Auditorium)

11:00 AM **Roger White**, University of Rochester
Monitoring fatty acid trafficking in follicles reveals a critical role for the triglyceride synthase DGAT1 in protecting mitochondrial integrity

11:15 AM **Torrey Mandigo**, PhD, Massachusetts General Hospital, Harvard
Dissecting the Causal Role of Insomnia in Cardiovascular Disease

11:30 AM **Indrayani Waghmare**, PhD, UMass Lowell
Understanding Glypican-Based Mechanisms of Extracellular Wnt Distribution

11:45 AM **Amelie Raz**, PhD, Whitehead Institute, MIT
Combinatorial signal integration in the maintenance and renewal of adult germline stem cell fate

12:00 PM Lunch (Medical School; Faculty Conference Room S1-342)

1:00 PM Poster Session (Lobby in Medical School Building)

Session II: (Albert Sherman Center; AS2.2102 Auditorium)

Moderators: Prathibha Yarikipati, Postdoctoral Fellow, UMass Chan, Molly Murphy, Graduate Student, UMass Chan and Bao Ho, Graduate Student, UMass Chan

3:00 PM **Loiselle Gonzalez-Baez**, Boston College

Melanization Regulates Wound Healing by Limiting Polyploid Cell Growth in the Drosophila Abdominal Epithelium

- 3:15 PM **Sarah Crawford**, PhD, Southern Connecticut State University
Innate Immune System Involvement in Brain Tumor Formation in Drosophila melanogaster Brat mutant: A Research Model of Pediatric Brain Tumor Development
- 3:30 PM **Nelson Lau**, PhD, Boston University
Traffic jam regulates the Drosophila piRNA cluster flamenco via novel shadow enhancer elements to ensure female fertility
- 3:45 PM **Lianne Cohen**, PhD, Boston University
Identifying the Enhancers and Regulatory Logic of the Drosophila Innate Immune System
- 4:00 PM **Pushpa Verma Sharma**, PhD, Harvard Medical School
Brain specific microRNA mediated regulation of metabolic homeostasis in Drosophila melanogaster
- 4:15 PM Coffee Break (Outside auditorium)
- 4:45 PM **Yu-Chieh David Chen**, PhD, New York University
Codes of cell surface proteins coordinate stochastic and deterministic cell fates during Drosophila color vision circuit assembly
- 5:00 PM **Ting Miao**, PhD, Harvard Medical School
Role of Malpighian tubule-specific Coenzyme A biosynthesis in systematic metabolic control and maintenance of tissue homeostasis in high-turnover tissues
- 5:15 PM **Vanitha Nithianandam**, PhD, Brigham and Women's Hospital, Harvard Medical School
Integrative Multi-Omics Analysis Reveals a Conserved Role for the Amyloid Precursor Protein in Proteostasis
- 5:30 PM **Beverley Matthews**, PhD, Harvard University
New and Classic Features in FlyBase
- 5:45 PM Speaker Introduction: Phillip Zamore, PhD, Gretchen Stone Cook Professor of Biomedical Sciences, UMass Chan
- 5:50 PM **Yukiko Yamashita**, PhD, Whitehead Institute, MIT,
Asymmetric cell divisions in Drosophila
- 7:00 PM Closing remarks: Neal Silverman, PhD, Professor of Medicine, UMass Chan

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