

CONFERENCE SCHEDULE

Day 1 Thursday, August 11th		
3:00 PM	Registration Open	Annex Room
6:30 PM	Session 1 Session Chairs: Max Heiman, Harvard Medical School, Boston Children's Hospital and Jessica Feldman, Stanford University	Shannon Hall
6:30 PM	Welcome	Shannon Hall
6:40 PM	Niche regulation of primordial germ cells in the embryonic gonad	Jeremy Nance, <i>New York University</i>
7:05 PM	Active mechanisms prevent ectopic condensation of FG nucleoporins in the cytoplasm	Laura Thomas <i>John Hopkins University</i>
7:23 PM	Asymmetric BAR-1/-catenin expression regulates neuron position during <i>C. elegans</i> ventral nerve cord assembly	Wesley Chan <i>University of Ottawa</i>
7:41 PM	Refreshment Break	Shannon Hall Lobby
8:00 PM	CED-3/caspase and opposing kinesins direct mitochondrial confinement to govern compartmentalized cell elimination	Rashna Sharmin <i>University of Texas at Arlington</i>
8:18 PM	Constructing Alae: How the worm gets its racing stripes **	Trevor Barker <i>University of Pennsylvania</i>
8:36 PM	Endocytosis in the axon initial segment maintains neuronal polarity	Kelsie Eichel <i>Stanford University</i>
8:54 PM	The chromokinesin Klp-19 regulates microtubule number and overlap in the midzone throughout mitosis in <i>C. elegans</i>	Stefanie Redemann <i>University of Virginia</i>
9:15 PM	Mixer	Tripp Commons

**i indicates talk with undergraduate/post-bacc presenter

Day 2 Friday, August 12th		
8:00 AM	Registration opens	Annex Room
9:00 AM	Session 2 Session Chair: Paul Goetsch, Michigan Technical University	Shannon Hall
9:00 AM	Achieving proper force balance in the spindle during oocyte meiosis	Sadie Wignall <i>Northwestern University</i>
9:25 AM	Understanding how actomyosin dynamics drive apical constriction	Pu Zhang <i>University of North Carolina Chapel Hill</i>
9:43 AM	A sex-specific switch in glial gene expression patterns the apical extracellular matrix	Wendy Fung <i>Boston Children's Hospital</i>
10:01 AM	Kinesin-II Motors differentially impact biogenesis of distinct extracellular vesicle subpopulations shed from <i>C. elegans</i> sensory cilia	Jessica Tanis <i>University of Delaware</i>
10:19 AM	Refreshment Break	Shannon Hall Lobby
10:35 AM	Analyzing the spatiotemporal structure of heterochronic miRNA transcription using microfluidics based long term live-imaging	Shubham Sahu <i>Institut Curie, CNRS</i>
10:53 AM	Loss of sensory dendrite cilia is detected by surrounding glia via neuron/glia protein pair DGS-1/ FIG-1	Katherine C Varandas <i>The Rockefeller University</i>
11:11 AM	DAF-18 prevents oocyte wastage through activating calcium signaling and contractility in the distal spermatheca.	Patrick Narbonne <i>Université du Québec à Trois-Rivières</i>
11:30 AM	Lunch	Tripp Commons
1:00 PM	Featured Workshop: Education and Outreach Workshop Chair: Sara Olson, Pomona College	Shannon Hall
1:00 PM	CUREs that integrate undergrad research throughout a biology curriculum increase STEM equity	Teresa Lee <i>University of Massachusetts Lowell</i>
1:25 PM	Characterization of a potential gene interaction between chromatin modifiers <i>spr-5</i> , <i>met-2</i> , and <i>mep-1</i> in determining germline versus soma in <i>C. elegans</i> **	Sindy Chavez, <i>Emory University</i>

1:35 PM	Epithelial polarity requires WAVE-dependent transport of E-Cadherin/HMR-1 **	Luigy Cordova Burgos <i>Rutgers University</i>
1:45 PM	A fluorescent toolkit for studying organelle biology <i>in vivo</i> reveals a distinct mitochondrial subclass lacking mtDNA **	Jackie Lanzalotto <i>University of California Berkeley</i>
1:55 PM	Break	Shannon Hall Lobby
2:10 PM	Featured Workshop: Single-Molecule Approaches Workshop Chair: Benjamin Weaver, <i>UT Southwestern Medical Center</i>	Shannon Hall
2:10 PM	Watching signaling protein search dynamics in live nuclei	Lexy von Diezmann <i>University of Utah (Univ Minn 2023!)</i>
2:35 PM	Improved and emerging methods to image single mRNA molecules	Erin Osborne Nishimura <i>Colorado State University</i>
3:00 PM	Single-molecule dissection of PAR polarity, <i>in vivo</i> and <i>ex vivo</i>	Dan Dickinson <i>University of Texas Austin</i>
3:25 PM	Refreshment Break	Shannon Hall Lobby
4:00 PM	Session 3 Session Chair: Brian Hiester, <i>Luther College</i>	Shannon Hall
4:00 PM	Apical ECM dynamics throughout the molt cycle	Meera Sundaram <i>University Pennsylvania</i>
4:25 PM	Polyploidy is essential for high rates of biosynthesis in the <i>C. elegans</i> intestine	Alex Lessenger <i>Stanford University</i>
4:43 PM	A central role for cofilin in maintaining cortical actin cytoskeleton network integrity through filament turnover	Rachel Kadzik <i>University of Chicago</i>
5:01 PM	Break	Shannon Hall Lobby
5:20 PM	SPE-13 is a sperm-specific small transmembrane protein required for fertilization in <i>C. elegans</i>	Yamei Zuo <i>Rutgers University</i>
5:38 PM	Identification of direct insulin-signaling transcriptional targets in muscle cells **	Shifei Wu <i>University of Toronto</i>
5:56 PM	SYD-2 Acts through AP complexes to regulate cell body retention and polarized trafficking of an LRK-1 dependent synaptic vesicle-lysosomal intermediate compartment	Sandhya Koushika <i>Tata Institute of Fundamental Research</i>
6:14 PM	Lightning Talks	Shannon Hall

6:30 PM	Dinner	Tripp Commons
8:00 PM	Dessert and Poster Session A – Odd Numbers	Great Hall & Main Lounge

Day 3 Saturday, August 13th		
8:00 AM	Registration Open	Annex Room
9:00 AM	Session 4 Session Chair: Amy Walker, UMass Medical School	Shannon Hall
9:00 AM	Rabs, motors, and ABC transporters promote the asymmetric localization of organelles within embryonic intestinal cells	Greg Hermann <i>Lewis and Clark College</i>
9:25 AM	Rapid rates of transcription in the early <i>C. elegans</i> embryo	Priya Sivaramakrishnan <i>University of Pennsylvania</i>
9:43 AM	Cluster assistance factors ERH and SAFB2 globally inhibit miRNA biogenesis in the <i>C. elegans</i> embryo	Bing Yang <i>John Hopkins University</i>
10:01 AM	Refreshment Break	Shannon Hall Lobby
10:20 AM	TOM-1/Tomosyn acts with the UNC-6/Netrin receptor UNC-5 to inhibit VD growth cone protrusion during outgrowth	Snehal Mahadik <i>University of Kansas</i>
10:38 AM	Cyclin B isoforms coordinate mitotic entry and exit events to ensure the normal pace of embryonic divisions	Pablo Lara Gonzalez <i>University of California Irvine</i>
10:56 AM	CED-12/ELMO/ELMOD can switch from promoting to inhibiting F-actin formation in the same tissue	Martha Soto <i>Rutgers University</i>
11:14 AM	Lightning Talks	Shannon Hall
11:30 AM	Lunch & Free Time	Great Hall
2:00 PM	Poster Session B – Even numbers	Great Hall & Main Lounge

4:00 PM	Session 5 Session Chair: Brandon Carpenter, Kennesaw State University	Shannon Hall
4:00 PM	Ciliary extracellular vesicles are signaling devices	Maureen Barr <i>Rutgers University</i>
4:25 PM	TES-1/Tes protects junctional actin networks under tension from self-injury during epidermal morphogenesis in the <i>C. elegans</i> embryo	Yuyun Zhu <i>National Institutes of Health</i>
4:43 PM	The conserved, secreted protease inhibitor MLT-11 is necessary for <i>C. elegans</i> molting and embryogenesis	Jordan Ward <i>University of California, Santa Cruz</i>
5:01 PM	Neuroendocrine regulation of the <i>Caenorhabditis elegans</i> microbiome by aryl-hydrocarbon receptor	Ciara Hosea <i>Baylor College of Medicine</i>
5:19 PM	Break	Shannon Hall Lobby
5:30 PM	Cohesin and a PLZF protein act together to direct a GABAergic neural fate and inhibit a tyraminerbic neural fate	Dongyeop Lee <i>HHMI, MIT, Department of Biology</i>
5:48 PM	TOP-2 is differentially required for the proper maintenance of sister chromatid cohesion pathway components on meiotic chromosomes in spermatogenesis and oogenesis	Christine Rourke <i>University of Delaware</i>
6:06 PM	Identifying functional interaction motifs within <i>C. elegans</i> eggshell vitelline layer proteins	Sara Olson <i>Pomona College</i>
6:30 PM	Dinner	Great Hall
8:00 PM	the worm Party & Dance	Great Hall

Day 4 Sunday, August 14		
8:00 AM	Registration Open	Annex Room
9:00 AM	Session 6 Session Chair: Claire de la Cova, University of Wisconsin-Milwaukee	Shannon Hall
9:00 AM	Linker cell death	Shai Shaham <i>Rockefeller University</i>
9:25 AM	Anaphase B spindle elongation and rigidity in <i>C. elegans</i> female meiosis	Wenzhe Li <i>University of California Davis</i>
9:43 AM	Modeling congenital generalized lipodystrophy in <i>Caenorhabditis elegans</i>	Xiaofei Bai <i>NIH</i>
10:01 AM	TORC1, BORC, ARL-8 cycling, and Kinesin-1 drive vesiculation of cell corpse phagolysosomes	Ann Wehman <i>University of Denver</i>
10:19 AM	Refreshment Break	Shannon Hall Lobby
10:35 AM	Variants in the neurodevelopmental disorder gene <i>unc-116</i> (KIF5C) alter axon targeting by disrupting function of the NEKL-3 (NEK6/NEK7) kinase in axons	Cody J. Drozd <i>University of Wisconsin-Milwaukee</i>
10:53 AM	Lysosome-related organelles contain an expansion compartment that mediates zinc transporter delivery to promote zinc homeostasis in <i>C. elegans</i>	Adelita Mendoza <i>Washington University Saint Louis</i>
11:11 AM	MIG-6/papilin and extracellular matrix remodelling in the context of neuronal architecture	Malika Nadour <i>Université du Québec à Montréal</i>
11:29 PM	Concluding Remarks	Shannon Hall