

BAWM September 2015 – May 2016

BAWM 2015 to 2016 Schedule

October 7, 2015

- 1: Inna Nechipurenko (Sengupta Lab)** A conserved role for Girdin in ciliogenesis and basal body positioning "
 - 2: Amy Walker (Walker Lab)** "Ipin-1 is necessary for low-PC activation of SBP-1/SREBP-1 "
 - 3: Gareth Harris (Zhang Lab)** "Genes and circuits that drive sensory integration: How do worms integrate both food and repulsive stimuli?"
 - 4: Nikhil Bhatla (Horvitz Lab)** "Neural circuits that control feeding in response to light"
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November 18, 2015

- 1. Navonil Banerjee (Francis Lab)** "Neuropeptide signaling regulates the timing of *C. elegans* egg-laying."
 - 2: Ian McLachlan (Heiman Lab)** "Glia shape sensory dendrites through GRDN-1/Girdin and SAX-7/LICAM"
 - 3. Alexandra Byrne (Hammarlund Lab)** "Poly(ADP-ribosylation) regulates axon regeneration"
 - 4: Kaitlin Driscoll (Horvitz Lab)** "The Putative TRP Channel CED-11 Functions to Increase Nuclear Membrane Permeability in *C. elegans* Apoptosis"
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January 20, 2016

- 1: Louis Lapierre (Lapierre Lab)** "Autophagy-mediated longevity is modulated by lipoprotein biogenesis "
- 2: Caroline Heintz (Mair Lab)** "Pre-mRNA Splicing Homeostasis Predicts Life Expectancy & Can Be Targeted To Promote Healthy Aging"
- 3: Jeffrey Bouffard (Cram Lab)** "Analysis of calcium signaling in the spermatheca"

4: Roberto Perales (Kennedy Lab) "Regulation of trans-generational epigenetic inheritance in *C. elegans*"

March 23, 2016

1: Olga Minkina (Hunter Lab) "Germline- and soma-specific mechanisms of heritable epigenetic silencing at an endogenous locus"

2: Zoë Hilbert (Kim Lab) "A sexually dimorphic transcriptional switch integrates information about microbial environment and nutritional state to regulate exploratory behavior"

3: Anand Sitaram (Aroian Lab) "nck-1 and defense against bacterial pore-forming toxins"

4: Alyssa Cecchetelli (Cram Lab) "CACN-1 is required in the *Caenorhabditis elegans* somatic gonad for proper oocyte development"

May 25, 2016

1: Frank Slack (Slack Lab) "MicroRNAs and aging"

2: Erin Dahlstrom (Levine Lab) "The coordinated heat shock response in *C. elegans* "

3: Xico Gracida (Colarco Lab) "A heat-sensitive Elongin complex subunit identified in a pair of neurons regulates serotonin levels and modifies stimulus-induced behavior"

4: Meltem Isik (Blackwell Lab) "Elucidation of novel mTORC1 target genes and pathways "

BAWM September 2016 – May 2017

Boston Area Worm Meeting
TheBAWM



Agenda

Wednesday, September 21st at 6:00PM
1st Floor Conference Room of the MIT Biology Building

Patrick O'Hern (Hart Lab)

"Decreased SMN caused deleterious increases in neuronal M2 muscarinic receptors due to microRNA misregulation"

Matthias Truttmann (Ploegh Lab)

"Protein AMPylation: A novel post-translational modification that regulates HSP70 family proteins"

Steven Flavell (Flavell Lab)

"Neural mechanisms for persistent behavioral states"

Christopher Chute (Srinivasan Lab)

"TYRA-2: A trace amine receptor's role in an innate avoidance response"

Pizza and refreshments to be served

Boston Area Worm Meeting
TheBAWM



Agenda

Wednesday, November 30th at 6:00PM
1st Floor Conference Room of the MIT Biology Building

Samuel Chung (Gabel Lab)

"A novel form of neuronal regeneration shares links with activity-dependent ectopic outgrowth and mammalian lesion conditioning"

Erel Levine (Levine Lab)

"Systems biology of host response in space and time"

Marissa Fletcher (Kim Lab, MIT)

"Age-dependent DAF-7/TGF β neuroendocrine signaling modulates lifespan extension conferred by dietary restriction"

Nic Lehrbach (Ruvkun Lab)

"Surveillance and regulation of the proteasome by SKN-1A/Nrf1"

Pizza and refreshments to be served

Boston Area Worm Meeting

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Agenda

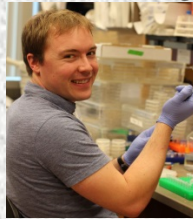
Wednesday, March 22 at 6:00PM

1st Floor Conference Room of the MIT Biology Building



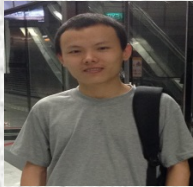
Erik Griffin (Griffin Lab)

" PLK-1 links the MEX-5/6 and POS-1 gradients in the cytoplasm of the *C. elegans* zygote"



Nicholas Burton (Horvitz Lab)

"Maternal environment and offspring physiology: the transmission of information across a generation"



Ziyun Wu (Blackwell Lab)

"Longevity from dietary restriction and reduced insulin/IGF-1 signaling requires modulation of p38/ATF-7 innate immunity"



Alejandro Vasquez Rifo (Ambros Lab)

"A genomic analysis of the pathogenic relationship of *P. aeruginosa* with *C. elegans*"

Pizza and refreshments to be served

Boston Area Worm Meeting

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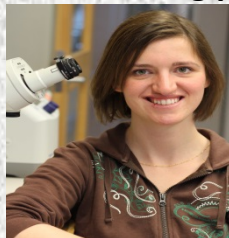
Agenda

Wednesday, May 17, 2017 at 6:00PM
1st Floor Conference Room of the MIT Biology Building



Alison Wirshing (Cram Lab)

"The *C. elegans* spermatheca is a novel *in vivo* model tube for elucidating the roles of actin interacting proteins in tissue contractility"



Cory Pender (Horvitz Lab)

"HIF-1 regulates behavior and stress responses by controlling the activity of a cytochrome P450 and NHR"



Mike O'Donnell (Sengupta Lab)

"mTORC2 signaling and gut colonization regulates neuronal state"



William Mohler (WormGUIDES Collaboration)

"State of the WormGUIDES Collaboration"

Pizza and refreshments to be served

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Wednesday, September 27th at 6:00PM

Conference Room # 68-181 (1st floor) of the MIT Biology Building



Amy Walker (Walker Lab)

"Methylation and Stress-Induced Gene Expression"

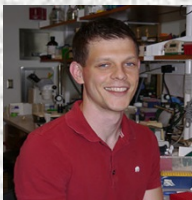


Charles Nelson (Ambros Lab)

"Post-Transcriptional Regulation of the microRNA Let-7 in *C.elegans*"

Albrecht Lab Members (TBA)

"Hydrogel encapsulation for long-term imaging of living organisms"



Gregoriy Dokshin (Mello Lab)

"Optimized genome editing to explore the argonaute diversity in *C. elegans*"

Pizza and refreshments to be served

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Agenda

Wednesday, November 29th at 6:00PM

Conference Room # 68-181 (1st floor) of the MIT Biology Building



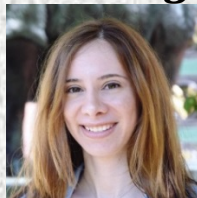
Yue Zhang (Mair Lab)

"Cell non-autonomous modulation of longevity by the TORC1 pathway"



Zoë Hilbert (Kim Lab)

"Neuroendocrine regulation of decision-making behavior in *C. elegans* males"



Beste Mutlu (Mango Lab)

"Chromatin organization during embryogenesis"



Naina Kurup (Zhuang Lab)

"Cytoskeletal regulation of synapse formation"

Pizza and refreshments to be served

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Agenda

Wednesday, January 24th at 6:00PM

Conference Room # 68-181 (1st floor) of the MIT Biology Building



Mansi Srivastava (Srivastava Lab - Harvard)

"Every worm has its day: a new acoel model system reveals GRNs for regeneration"



Youjun Wu (Griffin Lab - Dartmouth)

"Single-particle dynamics underlying germline segregation in the *C. elegans* zygote"



Alison Wirshing (Cram Lab - Northeastern)

"A screen of all actin binding proteins in *Caenorhabditis elegans* reveals spectrin as a key regulator of contraction and actin network organization in the spermatheca"



Dennis Kim (Kim Lab - MIT)

"Regulation of development and physiology by neuronal eIF2a phosphorylation "

Pizza and refreshments to be served

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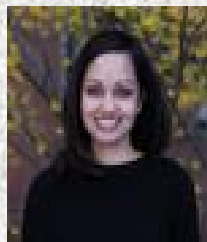
Agenda

Wednesday, March 28th at 6:00PM
Conference Room # 68-181 (1st floor) of the MIT Biology Building



Ross Lagoy (Albrecht Lab - WPI)

"New automated screening technologies identify acute and chronic modulators of neural activity in C. elegans"



Ahilya Sawh (Mango Lab - Harvard)

"Dynamic organization of chromosomes during development by multiplexed FISH"



Steve Sando (Horvitz Lab - MIT)

"Spitting and gulping: opposing behaviors driven by a single pharyngeal neuron"



Charlotte Kelley (Cram Lab - Northeastern)

"The myosin light chain kinase, MLCK-1, relocalizes during C. elegans ovulation to promote actomyosin bundle assembly and drive contraction"

Pizza and refreshments to be served

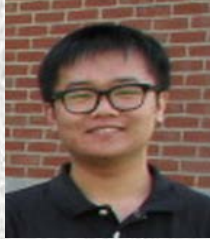
Boston Area Worm Meeting

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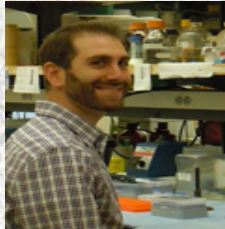
Wednesday, May 23th at 6:00PM

Conference Room # 68-181 (1st floor) of the MIT Biology Building



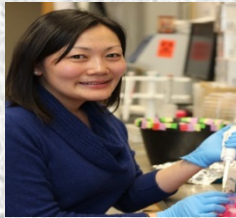
Xintao Fan (Griffin Lab - Dartmouth)

**"Regulation of P granule Dynamics by ER and Mitochondria
in the early *C. elegans* embryo"**



Eric Luth (Juo Lab - Tufts)

**"VER proteins regulate GLR-1 glutamate receptor surface levels
to control behavior"**



Akiko Doi (Horvitz Lab - MIT)

**"The evolutionarily conserved DEAD-box helicase
DDX-23 functions in stem cell biology"**



Simon Wang (Greer Lab - Harvard)

"The dealkylating enzyme NMAD-1 regulates meiosis in *C. elegans*"

Pizza and refreshments to be served