

BAWM Past Agendas
Sept. 2016-May 2019

September 21, 2016

1. **Patrick O'Hern (Hart Lab)**
"Decreased SMN caused deleterious increases in neuronal M2 muscarinic receptors due to microRNA misregulation"
2. **Matthias Truttmann (Ploegh Lab)**
"Protein AMPylation: A novel post-translational modification that regulates HSP70 family proteins"
3. **Steven Flavell (Flavell Lab)**
"Neural Mechanisms for Persistent Behavioral States"
4. **Christopher Chute (Srinivasan Lab)**
"TYRA-2: A trace amine receptor's role in an innate avoidance response"

November 30, 2016

1. **Samuel Chung (Gabel Lab)**
"A novel form of neuronal regeneration shares links with activity-dependent ectopic outgrowth and mammalian lesion conditioning"
2. **Erel Levine (Levine lab)**
"Systems biology of host response in space and time"
3. **Marissa Fletcher (Kim lab, MIT)**
"Age-dependent DAF-7/TGF β neuroendocrine signaling modulates lifespan extension conferred by dietary restriction"
4. **Nic Lehrbach (Ruvkun lab)**
"Surveillance and regulation of the proteasome by SKN-1A/Nrf1"

February 8, 2017

1. **Joseph Zullo (Yankner Lab)**
"Regulation of Lifespan by REST-Mediated Effects on Neuronal Activity"
2. **Sebastian Boland (Faresse and Walther Lab)**
"PEGCs: novel glycosphingolipids that mobilize cholesterol in Caenorhabditis elegans"
3. **Anna Corrionero Saiz (Horvitz Lab)**
"The C. elegans homolog of the ALS/FTD gene C9orf72 functions in phagosomal, autophagosomal and endosomal degradation"
4. **Christoph Engert (Horvitz Lab)**
"SET-17/PRDM promotes spermatocyte transcriptional output and fertility"

March 22, 2017

1. **Erik Griffin (Griffin Lab)**
"PLK-1 links the MEX-5/6 and POS-1 gradients in the cytoplasm of the C. elegans zygote"
2. **Nicholas Burton (Horvitz Lab)**
"Maternal environment and offspring physiology: the transmission of information across a generation"
3. **Ziyun Wu (Blackwell Lab)**
"Longevity from dietary restriction and reduced insulin/IGF-1 signaling requires modulation of p38/ATF-7 innate immunity"
4. **Alejandro Vasquez Rifo (Ambros Lab)**
"A genomic analysis of the pathogenic relationship of P. aeruginosa with C. elegans"

May 17, 2017

1. **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"
2. **Cory Pender (Horvitz Lab)**
"HIF-1 regulates behavior and stress responses by controlling the activity of a cytochrome P450 and NHR"
3. **Mike O'Donnell (Sengupta Lab)**
"mTORC2 signaling and gut colonization regulates neuronal state"
4. **William Mohler (WormGUIDES Collaboration)**
"State of the WormGUIDES Collaboration"

September 27, 2017

1. **Amy Walker (Walker Lab)**
"Methylation and Stress-Induced Gene Expression"
2. **Charles Nelson (Ambros Lab)**
"Post-Transcriptional Regulation of the microRNA Let-7 in *C. elegans*"
3. **Albrecht Lab Members (TBA)**
"Hydrogel Encapsulation for Long-Term Imaging of Living Organisms"
4. **Gregoriy Dokshin (Mello Lab)**
"Optimized Genome Editing to Explore the Argonaute Diversity in *C. elegans*"

November 29, 2017

1. **Yue Zhang (Mair Lab)**
"Cell non-autonomous modulation of longevity by the TORC1 pathway"
2. **Zoë Hilbert (Kim Lab)**
"Neuroendocrine regulation of decision-making behavior in *C. elegans* males"
3. **Beste Mutlu (Mango Lab)**
"Chromatin organization during embryogenesis"
4. **Naina Kurup (Zhuang Lab)**
"Cytoskeletal regulation of synapse formation"

January 24, 2018

1. **Mansi Srivastava (Srivastava Lab - Harvard)**
"Every worm has its day: a new acoel model system reveals GRNs for regeneration"
2. **Youjun Wu (Griffin Lab - Dartmouth)**
"Single-particle dynamics underlying germlasm segregation in the *C. elegans* zygote"
3. **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"
4. **Dennis Kim (Kim Lab - MIT)**
"Regulation of development and physiology by neuronal eIF2a phosphorylation "

March 28, 2018

1. **Ross Lagoy (Albrecht Lab - WPI)**
"New automated screening technologies identify acute and chronic modulators of neural activity in *C. elegans*"
2. **Ahilya Sawh (Mango Lab - Harvard)**
"Dynamic organization of chromosomes during development by multiplexed FISH"
3. **Steve Sando (Horvitz Lab - MIT)**
" Spitting and gulping: opposing behaviors driven by a single pharyngeal neuron"
4. **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"

May 23, 2018

1. **Xintao Fan (Griffin Lab - Dartmouth)**
"Regulation of P granule Dynamics by ER and Mitochondria in the early *C. elegans* embryo"
2. **Eric Luth (Juo Lab - Tufts)**
" VER proteins regulate GLR-1 glutamate receptor surface levels to control behavior"
3. **Akiko Doi (Horvitz Lab - MIT)**
" The evolutionarily conserved DEAD-box helicase DDX-23 functions in stem cell biology"
4. **Simon Wang (Greer Lab - Harvard)**
"The dealkylating enzyme NMAD-1 regulates meiosis in *C. elegans*"

September 26, 2018

1. **Abdullah Yonar (Ramanathan Lab - Harvard)**
"A compressed sensing framework for efficient dissection of neural circuits"
2. **Frank Slack (Slack Lab – Harvard)**
"MicroRNAs and aging in *C. elegans*"
3. **Chris Hammell (Hammell Lab - Cold Spring Harbor Laboratory)**
"(Almost) lost in translation—Conserved mechanisms of protein translational amplification and its roles in antagonizing microRNA-mediated gene regulation in development"

November 28, 2018

1. **Hanchen Li** (Aroian Lab - UMMS)
"Engineering bacteria to kill parasitic nematode infections"
2. **Jaeseok Park** (D. Kim Lab - MIT)
"cGMP-dependent chemosensory signal transduction pathways in the detection of bacterial metabolites by *C. elegans*"
3. **Nicholas Peterson** (Pukkila-Worley Lab - UMMS)
"Nuclear hormone receptor-mediated innate immune activation in *C. elegans*"

January 30, 2019

1. **Vivek Dwivedi** (Horvitz Lab - MIT)
"Cell-cycle state drives caspase-independent apoptotic cell extrusion in *C. elegans*"
2. **Ashish Maurya** (Sengupta Lab - Brandeis)
"Two conserved kinases controlling sensory cilia structure and length"
3. **Amaranath Govindan** (Ruvkun Lab - Harvard)
"*E. coli* Siderophore Enterobactin Modulates Mitochondrial Function"
4. **Io Long Chan** (Rando Lab - UMMMS)
" Investigating parent-of-origin effects on gene expression in *C. elegans*"

March 27, 2019

1. **Amy Walker** (Walker Lab - UMMS)
"Worm Cat: a tool for annotating and visualizing *C. elegans* RNA seq data"
2. **Kirk Burkhart** (Horvitz Lab - MIT)
"Failure of H3.3 nucleosome assembly pathways leads to delayed-onset defects and mitochondrial stress"
3. **Kurt Warnhoff** (Ruvkun Lab - Harvard)
"Molybdenum cofactor transfer from bacteria to nematode mediates sulfite detoxification"
4. **Micah Belew** (Byrne Lab - UMMS)
"Divergent Poly-ADP Ribose Polymerase pathways regulate axon regeneration and synaptic reformation"

May 29, 2019

1. **Shaul Yogev** (Yogev Lab - Yale)
"Regulation of neuronal microtubule organization and synaptic cargo delivery"

Stephen Von Stetina (Esvelt Lab – MIT)
2. "C. elegans, Cas12a/Cpf1, and localized CRISPR gene drives: an emerging story"
3. **Chun Li** (Slack Lab - Harvard)
"Identification of novel genes in the *lin-28/let-7* pathway"
4. **Myung Choi** (Y. Zhang Lab – Harvard)
"The NMDAR-mediated desynchronized response of a gap junctional circuit regulates learning"