C. elegans Neuronal Development, Synaptic Function & Behavior Conference Program

Sunday, June 29th

12 noon – 7:30 pm	**Registration Check-In**	**Annex**
12 noon – 9:00 pm	**Poster Set-up**	**Great Hall/Reception Room**
5:00 pm – 7:30 pm	**Opening Reception**	**Tripp Commons**
7:30 pm – 10:00 pm	**Oral Session #1** **Behavior and Plasticity** ***Chairs:*** *Chiou-Fen Chuang and Massimo Hilliard*	**Union Theater**
7:30 pm	**Opening Comments & Introductions – Organizers**	
7:40	**Keynote: Cori Bargmann** From neurons to behavior with the aid of the wiring diagram	
8:25	**Yuichi Iino** Behavioral Strategy for Salt Chemotaxis and Underlying Neurons	**(Lab: Yuichi Iino)**
8:40	**Lesley Emtage** MAGI-1 modulates behavioral plasticity and AMPA receptor Synaptic localization in response to prior experience	**(Lab: Christopher Rongo)**
8:55	**Tiffany A Timbers** Long-term Mechanosensory Habituation is Dependent upon CMK-1 and CRH-1 in *Caenorhabditis elegans*	**(Lab: Catharine Rankin)**
9:10	**Jennifer K Pirri** A tyramine-gated chloride channel is required for the suppression of head oscillations and modulates reversal behavior	**(Lab: Mark Alkema)**
9:25	**Niels Ringstad** Some *C. elegans* Ligand-gated Chloride Channels Are Receptors for Biogenic Amines	**(Lab: Bob Horvitz)**
9:40	**Dirk R Albrecht** *C. elegans* Behavior in Dynamic Microfluidic Environments	**(Lab: Cori Bargmann)**
10:00 pm – 12 mid	**Social**	**Union Theater Lobby**

Monday, June 30th

7:00 am – 7:30 pm	**Registration Continues**	**Annex Room**
7:30 am – 9:00 am	**Breakfast Buffet**	**Inn Wisconsin**

9:00 am – 12:30 pm	**Oral Session #2** **Neural Circuits and Behavior** ***Chairs:*** *Rex Kerr and Jamie White*	**Union Theater**
9:00	**Tribute to John White**	**Union Theater**
9:10	**John White** What might the structure of the *C. elegans* nervous system tell us?	
9:40	**Arantza Barrios** Sensory Regulation of *C. elegans* Male Mate-searching Behavior	**(Lab: Scott Emmons)**
9:55	**Yi Wang** Neural Circuits Governing *C. elegans* Male Copulation	**(Lab: Scott Emmons)**
10:10	**Juan Wang** Transcriptional Control and Patterning of Adult Sexual Behaviors	**(Lab: Maureen Barr)**
10:25-10:50	**Refreshment Break**	**Union Theater Lobby**
10:50	**Leon Avery** Strategic trade-offs in food and food-seeking behavior	
11:20	**Bo-mi Song** Serotonin Regulates Feeding in *C. elegans*	**(Lab: Leon Avery)**
11:35	**Young-jai You** cGMP and TGF β Signaling in ASI is Necessary for Regulating Food Intake and Quiescence	**(Lab: Leon Avery)**
11:50	**William R Mowrey** Distributed neural sex differences modify *C. elegans* locomotory behaviors	**(Lab: Douglas Portman)**
12:05	**Jagan Srinivasan** A synergistic blend of small molecules differentially regulates both mating behavior and population density in *Caenorhabditis elegans*	**(Lab: Paul Sternberg)**
12:30 pm – 2:00 pm	**Luncheon Buffet**	**Inn Wisconsin**
2:00 pm – 5:30 pm	**Oral Session #3** **Synaptic Function and Modulation** ***Chairs:*** *Stefan Eimer and Bruce Bamber*	**Union Theater**
2:00	**Janet Richmond** Molecular Bases for Synaptic Vesicle Docking and Priming at *C. Elegans* Neuromuscular Junctions	
2:30	**Michael Ailion** Feeling Unmotivated? Identification of Novel Gq Signaling Path ways	**(Lab: Erik Jorgensen)**
2:45	**Kenneth G. Miller** Impaired Neuropeptide Trafficking in *unc-108* (Rab2) Mutants	**(Lab: Kenneth Miller)**
3:00	**Stefan Eimer** Rab-2 affects neuro-peptide secretion from motor-neurons in *C. elegans*	**(Lab: Stefan Eimer)**

3:15	**Tao Xu** Towards a better understanding of docking/priming of dense core vesicles in *C. elegans* neurons	**(Lab:Tao Xu)**
3:30-4:00	**Refreshment Break**	**Union Theater Lobby**
4:00	**Steven J Husson** Combining peptidomics and reversed pharmacology to characterize neuropeptides and their G protein-coupled receptors	**(Lab: Liliane Schoofs)**
4:15	**Satoshi Suo** Dopamine Suppresses Octopamine Signal in the Absence of Food	**(Lab: Joseph Culotti)**
4:30	**Supriya Srinivasan** The Role of Serotonin in Energy Balance in *C. elegans*	**(Lab: Kaveh Ashrafi)**
4:45	**Thomas Boulin** Reconstituting the levamisole-sensitive AChR of Caenorhabditis elegans in Xenopus laevis oocytes	**(Lab: Jean-Louis Bessereau)**
5:00	**Alan P Robertson** Levamisole activated ion-channels on *C. elegans* muscle	**(Lab: Richard Martin)**
5:15	**Tamara M Stawicki** Genetic interactions between UNC-63 and ACR-2 reveal a neuron- specific function of UNC-63	**(Lab:Yishi Jin)**
5:30 pm – 7:00 pm	**Dinner Buffet**	**Inn Wisconsin**
7:00 pm – 11:30 pm	**Poster Session #1 & Refreshments** (**EVEN** number posters present) **Great Hall/Reception Room (4th floor)** Neural Circuits and Behavior (60 – 98) Neurodevelopment 99 – 131 Synaptic function and modulation (132 – 171 Sensation (172 – 183) Neural diseases and regeneration.(184 – 196) Technical Advances (197 – 201)	

Tuesday, July 1st

7:30 am – 9:00 am	**Breakfast Buffet**	**Inn Wisconsin**
9:00 am – 12:30 pm	**Oral Session #4** **Neurodevelopment** ***Chairs:*** Claire Bernard and Brian Ackley	**Union Theater**
9:00	**Mei Zhen** Regulation of Synaptic Structure by Neuronal Activity	
9:30	**Heather A Van Epps** Uncovering a Role of mRNA 3' Cleavage and Polyadenylation in Synapse Development	**(Lab:Yishi Jin)**

9:45	**Brian D Ackely** **(Lab: Brian Ackley)** A Calcium Signaling Pathway Functions Downstream of Nidogen-dependent Synapse Formation at Neuromuscular Junctions	
10:00	**Gloriana Gallegos** **(Lab:Yishi Jin)** Understanding the Role of a Novel Ubiquitin E2 Variant Protein in Axon Termination and Synaptogenesis	
10:15	**Chiou-Fen Chuang** **(Lab: Chiou-Fen Chuang)** Structure and function analysis of NSY-5 gap junction protein in network-dependent left-right neuronal asymmetry	
10:30-10:50	**Refreshment Break**	**Union Theater Lobby**
10:50	**Taulant Bacaj** **(Lab: Shai Shaham)** Amphid Sheath Glia Are Required for Sensory Neuron Morphology and Function	
11:05	**Maxwell G. Heiman** **(Lab: Shai Shaham)** The Extracellular Proteins DEX-1 and DYF-7 Promote Sensory Dendrite Outgrowth by Anchoring Dendritic Tips During Cell Migration	
11:20	**Jamie Chapman** **(Lab: Erik Lundquist)** MIG-15 NIK kinase is required for the polarization, maintenance of polarity, and migration of the Q neuroblasts and descendants	
11:35	**Mariam Alexander** **(Lab: Peter Roy)** MADD-2, A Homolog of the Opitz Syndrome Gene Mid1, Reglates Muscle Arm and Axon Extension to the Midline through an UNC-40 Pathway	
11:50	**Alexandra B Byrne** **(Lab: Peter Roy)** UNC-73 Functions Autonomously in an UNC-40 Pathway to Reglate Muscle Arm Extension	
12:30 pm – 2:00 pm	**Luncheon Buffet**	**Inn Wisconsin**
2:00 pm – 5:30 pm	**Oral Session #5** **Neural Diseases and Regeneration** ***Chairs:*** Laura Bianchi and Joy Alcedo	**Union Theater**
2:00	**Monica Driscoll** Neuronal Degeneration, Aging and Regeneration in *C. elegans*	
2:30	**Itzhak Mano** **(Lab: Monica Driscoll)** Molecular Analysis Reveals Conserved Signaling Pathways in Excitotoxic Neurodegeneration in *C. elegans*	
2:45	**Christopher V Gabel** **(Lab:Aravinthan Samuel)** Calcium Dynamics During Laser Axotomy and Neural Regeneration in *C. elegans*	
3:00	**Anindya Ghosh Roy** **(Lab:Yishi Jin)** Cyclic AMP Promotes Axonal Regeneration in *C. elegans*	

3:15	**Paola Nix** **(Lab: Michael Bastiani)** Nerve Regeneration Requires MAPK Signaling	
3:30-4:00	**Refreshment Break**	**Union Theater Lobby**
4:00	**Berangere Pinan-Lucarre** **(Lab: Monica Driscoll)** CED-3 Caspase Activity is Needed for Neuronal Regeneration in *C. elegans*	
4:15	**Mehmet F Yanik** **(Lab: Mehmet Yanik)** High-throughput on-chip neural-regeneration studies on *C. elegans* with microfluidics and femtosecond laser nanosurgery	
4:30	**Carl Procko** **(Lab: Shai Shaham)** *C. elegans*' thermosensory neurons and glia both require the otd/Otx homolog ttx-1 for temperature-dependent functions	
4:45	**David Biron** **(Lab: Piali Sengupta)** Understanding Small Neural Circuits - the AWC Olfactory Neuron of *C. elegans* Responds Stochastically to Temperature	
5:00	**Bi-Tzen Juang** **(Lab: Noelle L'Etoile)** HPL-2 and MUT-7 are required for odor-adaptation of the AWC neuron	
5:15	**Damien M O'Halloran** **(Lab: Noelle L'Etoile)** Alpha subunits of cGMP-gated channels CNG-1 and CNG-3 are required for plasticity of the AWC olfactory neurons	
5:30 pm – 7:00 pm	**Dinner Buffet**	**Inn Wisconsin**
7:00 pm – 10:30 pm	**Poster Session #2 & Refreshments** (**ODD** number posters present) **Great Hall/Reception Room (4th floor)** Neural Circuits and Behavior (60 – 98) Neurodevelopment (99 – 131 Synaptic function and modulation (132 – 171 Sensation (172 – 183) Neural diseases and regeneration.(184 – 196) Technical Advances (197 – 201)	
10:30 PM – 12:30 am	**Dance**	**Tripp Commons**

Wednesday, July 2nd

7:30 am – 9:00 am	**Breakfast Buffet**	**Inn Wisconsin**
9:00 am – 12:30 pm	**Oral Session #6** **Sensation and Technical Advances** ***Chairs:*** *Alexander Gottshalk and Dan Chase*	**Union Theater**
9:00	**Marty Chalfie** A Protein-Lipid Complex Transduces Touch in *C. elegans*	

9:30	**Laura Bianchi** A glial DEG/ENaC channel functions with neuronal channel DEG-1 to mediate specific sensory functions in *C. elegans*	**(Lab: Laura Bianchi)**
9:45	**Rhonda Hyde** Protein kinase C and MAPK signaling regulate *C. elegans* mechanosensory response	**(Lab: Anne Hart)**
10:00	**Alexander M Van Der Linden** Temperature- and Light-entrained Circadian Rhythms in C. elegans	**(Lab: Piali Sengupta)**
10:15	**Rajarshi Ghosh** Individual differences in thermosensation and thermal avoidance behavior in C.elegans	**(Lab: Leonid Kruglyak)**
10:30-10:50	**Refreshment Break**	**Union Theater Lobby**
10:50	**Hang Lu** Automated Rapid Microscopy, Phenotyping, and Screening at High Optical Resolutions Using Microfluidic Chips	**(Lab: Hang Lu)**
11:05	**Alexander Gottschalk** Optogenetic analysis of synaptic function by behavioral and electrophysiological parameterization	**(Lab: Alexander Gottschalk)**
11:20	**Christian Frøgkjær-Jensen** Single Copy Insertion of Transgenes in *C. elegans*	**(Lab: Erik Jorgensen)**
11:35	**Wen-hong Li** Tracking Dynamic Cell-Cell Junctional Coupling in Living Worms and Embryos Using a New Class of Photo-Activatable Fluorophores (Trojan LAMP)	**(Lab: Wen-hong Li)**
11:50	**Paolo Bazzicalupo** Cell Specific Knock-down of Gene Function in Targeted *C. elegans* Neurons	**(Lab: Paolo Bazzicalupo)**
12:05	**Rex A Kerr** The Multi-Worm Tracker: A Tool for Rapid Screening of Subtle Behavior	**(Lab: Rex A Kerr)**
12:20 pm	**Closing remarks, meeting evaluation, passing of the torch**	
12:30 pm – 2:00 pm	**Luncheon Buffet**	**Inn Wisconsin**