Sunday, April 21st

All talks are 20 min + 5 min for Q&A

3:00 pm	Check-in
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6:00 pm Reception

7:00 pm Dinner

8:00 pm Welcome and Opening Remarks (Cori Bargmann)

8:05 pm Session 1: Photoreception

Chair: Craig Montell

8:05 pm **David Berson**, Brown University

Retinal output channels: Linking cell types to visual behaviors

8:30 pm **Samer Hattar**, Johns Hopkins University

Atypical sensory photoreceptors in the mammalian retina

8:55 pm Refreshments available at Bob's Pub

NOTE:

Meals are in the **Dining Room**Talks are in the **Seminar Room**Posters are in the **Lobby**



Monday, April 22nd

7:30 am Breakfast (service ends at 8:45am) 9:00 am **Session 2: Mechanosensation** Chair: Cori Bargmann 9:00 am Ching Kung, University of Wisconsin - Madison Mechansensation, from bacteria to animals 9.25 am Jeffrey R. Holt, Boston Children's Hospital The role of transmembrane channel-like proteins in hair cell mechanotransduction 9:50 am William R. Schafer, Medical Research Council TMC proteins form channels involved in chemosensation and mechanosensation 10:15 am Break 10:45 am **Session 3: Mechanosensation Chair: Richard Benton** 10:45 am Teresa A. Nicolson, HHMI/The Vollum Institute The MET complex in fish: Protocaderin 15 interacts with transmembrane channel-like 2 (Tmc2a) 11·10 am David P. Corey, HHMI/Harvard Medical School Structure of a force-conveying cadherin bond essential for inner-ear mechanotransduction 11:35 am **Ardem Patapoutian**, The Scripps Research Institute May the force be with you: Search for ion channels that respond to pressure Discussion 12:00 pm 12:25 pm Lunch (service ends at 1pm) 2:00 pm **Session 4: Mechanosensation/nociception** Chair: Elena Gracheva 2:00 pm Michael Caterina, Johns Hopkins School of Medicine TRPV ion channels make skin sensational Miriam B. Goodman, Stanford University 2:25 pm *Illuminating touch mechanics*



2:50 pm	Bruce A. Bamber, University of Toledo Multiple independent calcium pools in a nociceptive neuron in C. elegans
3:15 pm	Break
3:45 pm	Session 5: Magnetoreception Chair: Gary Lewin
3:45 pm	David A. Keays , Institute of Molecular Pathology <i>Iron-rich sensory neurons in the pigeon Columbia livia</i>
4:10 pm	Steven Reppert , University of Massachusetts Medical School <i>Monarch butterfly migration: Sensory processing for navigational mechanisms</i>
4:35 pm	Discussion
5:00 pm	Poster Blitz! (5 mins / 3 slides each)
	Carolina Gomez-Diaz, University of Lausanne Kotaro Kimura, Osaka University Lindy McBride, Rockefeller University Lina Ni, Brandeis University Christopher Potter, Johns Hopkins University School of Medicine
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Session 6: Somatosensation Chair: Miriam Goodman
8:00 pm	Gary R. Lewin, Max-Delbrück Center for Molecular Medicine How extreme is the sensory world of the extremeophile mammal H. glaber: A phylogenetic perspective
8:25 pm	Elena Gracheva, Yale School of Medicine Mammalian hibernation as a model to study somatosensation and thermoregulation
8:50 pm	Piali Sengupta , Brandeis University A role for cGMP signaling and CaMKI in setting the operating range of the AFD thermosensory neurons
9:15 pm	Refreshments available in Bob's Pub



Tuesday, April 23rd

7:30 am Breakfast (service ends at 8:45am) 9:00 am **Session 7: Chemosensation/pheromones** Chair: Shawn Xu 9:00 am Catherine Dulac, HHMI/Harvard University Molecular and cellular architecture of circuits underlying opposing social behaviors 9:25 am Patrick McGrath, Georgia Institute of Technology Evolution of pheromone sensation in C. elegans 9:50 am Richard Benton, University of Lausanne Chemosensory evolution in Drosophila 10:15 am Break 10:45 am **Session 8: Chemosensation/olfaction Chair: Emily Liman** 10:45 am Frank Zufall, University of Saarland Olfactory signaling in mice 11:10 am C. Ron Yu, Stowers Institute for Medical Research Nonconventional signal transduction pathways in the activation of mouse vomeronasal organ 11:35 am Yehuda Ben-Shahar, Washington University in St. Louis Chemosensory roles for degenerin/epithelial sodium channels – pheromone receptors or modulators? Discussion 12:00 pm 12:25 pm Lunch (service ends at 1pm) 1:15 pm Tour (optional – meet at reception)



2:15 pm	Session 9: Chemosensation/olfaction Chair: William Schafer
2:15 pm	Cori Bargmann, HHMI/Rockefeller University Encoding time in the olfactory system
2:40 pm	Leslie B. Vosshall, HHMI/The Rockefeller University Multi-modal sensory integration in the mosquito
3:05 pm	Laurence Zwiebel , Vanderbilt University Genetics and genomics of olfaction in malaria vector mosquitoes and eusocial ants
3:30 pm	Break
4:00 pm	Session 10: Circuits Chair: Diana Bautista
4:00 pm	Dan Tracey, Duke University Photosystem gating of larval nociception behavior
4:25 pm	Michael N. Nitabach, Yale School of Medicine Multisensory integration in C. elegans
4:50 pm	Shawn Xu, University of Michigan Sensory transduction in C. elegans
5:15 pm	Discussion
5:40 pm	Poster Reception
7:15 pm	Dinner
8:15 pm	Refreshments available at Bob's Pub



Wednesday, April 24th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 11: Itch/chemosensation Chair: David Keays
9:00 am	Diana Bautista , University of California, Berkeley <i>Molecular and cellular mechanisms of chronic itch</i>
9:25 am	Xinzhong Dong , HHMI/Johns Hopkins School of Medicine <i>Itch receptors and itch-specific sensory neurons</i>
9:50 am	Craig Montell , Johns Hopkins School of Medicine <i>The molecular basis for Drosophila salt taste coding</i>
10:15 am	Break
10:45 am	Session 12: Chemosensation/taste Chair: Leslie Vosshall
10:45 am	Emily R. Liman, University of Southern California Cellular mechanisms of sour taste
11:10 am	Nicholas Ryba, National Institutes of Health Mammalian taste
11:35 am	Greg Suh , New York University Langone Medical Center <i>Interoceptive sugar sensing in Drosophila</i>
12:00 pm	Discussion
12:25 pm	Lunch / Departure
1:00 pm 2:00 pm 3:00 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

