



HOME DIRECTORY FOR SCIENTISTS TALKS NEWS EVENTS VISITOR INFO OUTREACH CONTACT HELP Jul 05, 2015

KITP Conference: Olfaction

(Jul 7-10, 2015)

Coordinators: Sandeep R. Datta, Anne-Marie M. Oswald

Tuesday, Jul 07, 2015

Odor-Guided Behaviors, Chair: Anne-Marie Oswald (U Pitt)

8:50am	Lars Bildsten (KITP)	Welcome
9:00am	Lucia Jacobs (UC Berkeley)	The PROUST hypothesis: the evolution of the olfactory and vomeronasal systems and their complementary functions in tracking odors across space and time
9:45am	David Gire (U Washington)	Mice develop efficient strategies for foraging and navigation using turbulent odor plumes
10:30am		Morning Break
11:00am	Ellisa Hallem (UCLA)	Olfactory circuit modulation in free-living and parasitic nematodes
11:45am	Dimitri Chklovskii (Simons Ctr)	Similarity matching: a new framework for neural computation
12:30pm		Lunch Break

Odor-Guided Behaviors "cont.", Chair: Lucia Jacobs (UC Berkeley)

2:00pm	Ian Davison (Boston U)	Mating-dependent plasticity in the female accessory olfactory bulb
2:45pm	Gloria Choi (MIT)	Oxytocin mediates entrainment of sensory stimuli to social cues of opposing valence
3:30pm		Afternoon Break
4:00pm	Lisa Stowers (Scripps)	A sensory rationale for the unpredictable nature of female behavior
		POSTER SESSION
5:30pm		RECEPTION
6:00pm		SPECIAL EVENTS DINNER
8:00pm		SHUTTLE TO BWSCI

Wednesday, Jul 08, 2015

Early Odor Processing, Chair: Bob Datta (Harvard)

9:00am	Hitoshi Sakano (U Fukui)	Neural Map Formation in the Mouse Olfactory System
9:45am	Tim Holy (Washington U)	Ligogenetics: where do we stand on exhaustive functional typology of sensory neurons?
10:30am		Morning Break
11:00am	Gilad Barnea (Brown U)	trans-Tango: Transsynaptic Mapping and Manipulation of Neural Circuits
11:45am	Stavros Lomvardas (Columbia U)	TBD
12:30pm		Lunch Break

Early Odor Processing "cont.", Chair: Tim Holy (Washington U)

2:00pm	Joel Mainland (Monell Institute)	The role of a single receptor in human odor perception.
2:45pm	Chakra Chennubhotla (U Pitt)	Designing a computational similarity metric for categorizing odors
3:30pm		Afternoon Break

4:00pm Ron Yu (Stowers Institute) Specific receptors and lousy sensors
 4:45pm Vikas Bhandawat (Duke U) Independently controlled behavioral primitives underlie behavioral response to odors
 5:30pm **SHUTTLE TO BWSCI**

Thursday, Jul 09, 2015

Higher-Order Odor Processing, Chair: Kevin Franks (Duke U)

9:00am John Bekkers (ANU) Functional calcium imaging of spontaneous and odor-evoked activity in the piriform cortex in vivo
 9:45am Glenn Turner (CSH) Olfactory Signaling in Mushroom Body Output Neurons: Neural Coding as a Circuit Converges
 10:30am **Morning Break**

11:00am Alex Fleischmann (Coll. de France) Neural identity and odor coding in the piriform cortex
 11:45am Anne-Marie Oswald (U Pitt) Spatial Profiles of Inhibition in piriform cortex
 12:30pm **Lunch Break**

Higher-Order Odor Processing "cont.", Chair: David Gire (U Washington)

2:00pm Kevin Franks (Duke U) Piriform cortex is necessary and sufficient to normalize its own output
 2:45pm Brent Doiron (U Pitt) Assembly formation in the face of spontaneous cortical dynamics
 3:30pm **Afternoon Break**

4:00pm Bob Datta (Harvard) New Behavioral Methods for Olfaction
 4:45pm TBD
 5:30pm **RECEPTION**

6:00pm **SPECIAL EVENTS DINNER**

8:00pm **SHUTTLE TO BWSCI**

Friday, Jul 10, 2015

Descending Control of Odor Processing, Chair: Venkatesh Murthy (Harvard)

9:00am Andreas Schaefer (MRC, UK) Inhibition in the mouse OB
 9:45am Dinu Florin Albeanu (CSH) An interglomerular circuit gates glomerular output and implements gain control in the mouse olfactory bulb
 10:30am **Morning Break**

11:00am Stephen Shea (CSH) "Top-down" and neuromodulatory influences on granule cell activity
 11:45am Hermann Riecke (Northwestern) Cortical control of network structure and odor discrimination
 12:30pm **Lunch Break**

Descending Control of Odor Processing "cont.", Chair: Bob Datta (Harvard)

2:00pm TBD
 2:45pm Charles Stevens (Salk Institute) What the fly's nose tells the fly's brain
CONFERENCE END

3:45pm **SHUTTLE TO BWSCI**