**Sunday May 23**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>3:00 pm</td>
<td>Check-in</td>
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<tr>
<td>6:00 pm</td>
<td>Reception (Lobby)</td>
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<tr>
<td>7:00 pm</td>
<td>Dinner</td>
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<tr>
<td>8:00 pm</td>
<td><strong>Session 1: Milestones in olfactory research</strong></td>
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<td>Chair: Kazushige Touhara</td>
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<tr>
<td>8:00 pm</td>
<td><strong>Linda Buck, HHMI/Fred Hutchinson Cancer Research Center</strong>&lt;br&gt;<strong>Olfactory mechanisms in mammals</strong></td>
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<tr>
<td>8:35 pm</td>
<td><strong>Richard Axel, HHMI/Columbia University</strong></td>
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<td><strong>Representations of odor in the piriform cortex</strong></td>
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<tr>
<td>9:10 pm</td>
<td>Refreshments available at Bob’s Pub</td>
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</tbody>
</table>
**Monday May 24**

7:30 am  Breakfast

**9:00 am**  
**Session 2: Behavior I**  
**Chair:** Leslie Vosshall

9:00 am  ❄️ Jing Wang, University of California, San Diego  
*Presynaptic facilitation by neuropeptide signaling mediates starvation-dependent olfactory behavior*

9:35 am  ❄️ Mark Frye, HHMI/University of California, Los Angeles  
*Temporal properties of plume tracking behavior vary with odor identity*

10:10 am  ❄️ Highlight Talk: Florence Roullet, National Institutes of Health  
*Scent marking and countermarking behaviors as a measure of olfactory communication in a mouse model of autism*

10:20 am  ❄️ Highlight Talk: Ajay Mathuru, Neuroscience Research Partnership  
*Alarm substances in the zebrafish*

10:30 am  Break and Group Photo

**11:00 am**  
**Session 3: Behavior II**  
**Chair:** Ivan Rodriguez

11:00 am  ❄️ Jane L. Hurst, University of Liverpool  
*Rodent major urinary proteins: Multifunctional signals of genetic identity and status*

11:35 am  ❄️ Lisa Stowers, The Scripps Research Institute  
*The vomeronasal organ mediates interspecies defensive behaviors through detection of protein pheromone homologs*

12:10 pm  ❄️ Highlight Talk: Vanessa Ruta, Columbia University  
*Tracing a dimorphic pheromone responsive circuit from peripheral input to descending output*

12:20 pm  ❄️ Highlight Talk: Matt Smear, Janelia Farm Research Campus/HHMI  
*Mice can smell time: Olfactory discrimination of purely temporal cues*

12:30 pm  Lunch

1:00 pm  Tour (optional - meet at reception)
2:10 pm  Session 4: Circuits I  
Chair: Stephen Shea  

2:10 pm  Zachary Mainen, Instituto Gulbenkian de Ciência  
*Neural mechanisms underlying odor-guided decisions*  

2:35 pm  Naoshige Uchida, Harvard University  
*Neural mechanisms of rapid olfactory decisions*  

3:00 pm  Maxim Bazhenov, University of California, Riverside  
*Network mechanisms that govern a transition from temporal integration to coincidence detection in the insect olfactory system*  

3:35 pm  Break  

4:05 pm  Session 5: Evolution/Function  
Kazushige Touhara  

4:05 pm  Bill S. Hansson, Max Planck Institute for Chemical Ecology  
*Natural facts - Drosophila neuroethology*  

4:40 pm  Leslie B. Vosshall, HHMI/The Rockefeller University  
*Regulation of mosquito host-seeking behavior*  

5:00 pm  Kazushige Touhara, The University of Tokyo  
*Sensing odorant and pheromone*  

5:20 pm  **Highlight Talk: Hugh Robertson**, University of Illinois at Urbana-Champaign  
*The insect chemoreceptor superfamily is ancient in animals*  

5:30 pm  Poster Reception 1  

7:00 pm  Dinner  

8:00 pm  Session 6: Behavior III  
Chair: Ilona Grunwald-Kadow  

8:00 pm  Mamiko Ozaki, Kobe University  
*Chemical sensing for social communication in ant*  

8:35 pm  Consuelo De Moraes, Penn State University  
*Chemical ecology of host-parasite interactions*  

9:10 pm  Refreshments available at Bob’s Pub
Tuesday May 25

7:30 am Breakfast

9:00 am Session 7: Peripheral to the bulb I
Chair: Stefan Fuss

9:00 am Matt Wachowiak, Boston University
*Active sensing in the olfactory system: Testing the sorption hypothesis in the awake animal*

9:35 am Charles Greer, Yale University School of Medicine
*Early development in the olfactory pathway*

10:10 am Haiqing Zhao, The Johns Hopkins University
*The olfactory response is efficiently terminated by NCKX4, a regulator of calcium dynamics*

10:30 am Break

11:00 am Session 8: Circuits II
Chair: Dima Rinberg

11:00 am Liquan Luo, HHMI/Stanford University
*Cortical representation of olfactory bulb input revealed by retrograde monosynaptic labeling*

11:35 am Rachel I. Wilson, Harvard Medical School
*Transduction and spiking dynamics in Drosophila olfactory receptor neurons promote rapid detection of odor fluctuations*

12:10 pm Andreas Schaefer, Max Planck Institute for Medical Research
*Synaptic inhibition in the olfactory bulb accelerates odor discrimination in mice*

12:30 pm Lunch

2:00 pm Session 9: Peripheral to the bulb II
Chair: Marc Spehr

2:00 pm Timothy E. Holy, Washington University School of Medicine
*Visualizing responses to sulfated steroids in the vomeronasal organ*

2:35 pm Frank Zufall, University of Saarland
*Recognition and coding of social cues by the mammalian olfactory system*

3:10 pm Steven D. Munger, University of Maryland School of Medicine
*GC-D neurons, necklace glomeruli and a role in social communication*
3:30 pm Break

4:00 pm Session 10: Circuits III
Chair: Hugh Robertson

4:00 pm Cori Bargmann, HHMI/Rockefeller University
Flexible behavioral circuits for pheromone-guided behavior

4:35 pm Yoshihiro Yoshihara, RIKEN Brain Science Institute
Neural circuit genetics of zebrafish olfactory system

5:10 pm Mark A. Willis, Case Western Reserve University
The interaction of environment, locomotion and sensor determines odor-tracking behavior

5:30 pm Poster Reception 2

7:00 pm Dinner

8:00 pm Session 11: Peripheral to the bulb III
Chair: Pierre-Marie Lledo

8:00 pm Peter Mombaerts, Max Planck Institute of Biophysics
Olfaction targeted

8:35 pm Hitoshi Sakano, The University of Tokyo
Autonomous topographic map formation by olfactory axons in mouse

9:10 pm Refreshments available at Bob’s Pub
**Wednesday May 26**

7:30 am    Breakfast

**9:00 am**    Session 12: Circuits IV  
Chair: Tom Bozza

9:00 am    Alex Koulakov, Cold Spring Harbor Laboratory  
*Sparse incomplete representations: A novel role for olfactory granule cells*

9:20 am    Nathan Urban, Carnegie Mellon University  
*Computing with olfactory circuits*

9:55 am    Dima Rinberg, Janelia Farm Research Campus/HHMI  
*Timing in olfaction*

10:30 am    Break

**11:00 am**    Session 13: Cortex  
Chair: Noam Sobel

11:00 am    Peter Brunjes, University of Virginia  
*Higher olfactory processing - The anterior olfactory nucleus*

11:20 am    Jay A. Gottfried, Northwestern University  
*Perceptual modulation of odor quality codes in human olfactory cortex*

11:55 am    Stuart Firestein, Columbia University  
*Scents and sensibility. Mapping a multidimensional stimulus*

12:30 pm    Lunch (Take-out boxes available from servery for those on first shuttle) and Departure

1:00 pm    First shuttle to Dulles

1:45 pm    Second shuttle to Dulles

2:30 pm    Last shuttle to Dulles