Sunday, May 7

3:00 pm    Check-in

6:00 pm    Reception *(Lobby)*

7:00 pm    Dinner

8:00 pm    Welcome and Opening Remarks

8:05 pm    **Oliver Hobert, HHMI/Columbia University**
            Neuron classification in *C. elegans* and underlying genetic specification mechanisms

8:30 pm    **Douglas Allan, University of British Columbia**
            Mapping BMP responsive cis-regulatory sites and genes underlying neuron terminal differentiation and plasticity in *Drosophila*

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, May 8

7:30 am  Breakfast (service ends at 8:45 am)

9:00 am  Session 1
         Chair: Tzumin Lee

9:00 am  Arnold Kriegstein, University of California, San Francisco
         Genomic insights into human cortical development, lissencephaly, and Zika microcephaly

9:25 am  Andrea Brand, University of Cambridge
         Genome wide transcriptional and epigenetic changes in neural stem cells and their progeny

9:50 am  Fernando Diaz-Benjumea, Centro de Biologia Molecular-Severo Ochoa
         Origin and specification of type II neuroblasts

10:15 am Break

10:45 am Session 2
        Chair: Stefan Thor

10:45 am  Chris Doe, HHMI/University of Oregon
          Extrinsic cues generate temporal identity in neural stem cell lineages

11:10 am  Claude Desplan, New York University
          Generation of neuronal diversity through temporal and spatial patterning

11:35 am  Minoree Kohwi, Columbia University
          Developmental regulation of nuclear architecture determines neural progenitor competence

12:00 pm Lunch (service ends at 1:00 pm)

2:00 pm  Session 3
        Chair: Claude Desplan

2:00 pm  Xin Li, University of Illinois
          The sharp transition between two temporal stages in Drosophila medulla neurogenesis relies on Notch signaling pathway and cell cycle

2:25 pm  James Truman, University of Washington
          Neuronal identity and the challenge of metamorphosis

Talks are 20 min + 5 min for Q&A
2:50 pm  Stefan Thor, Linköping University  
*Mechanisms underlying the establishment of the evolutionary conserved wedge-like structure of the central nervous system*

3:15 pm  Break

**3:45 pm**  
**Session 4**  
**Chair: Minoree Kohwi**

3:45 pm  Cédric Maurange, Developmental Biology Institute of Marseille  
*Regulation of neural stem cell self-renewing potential during development and tumorigenesis in Drosophila*

4:10 pm  Tzumin Lee, Janelia Research Campus/HHMI  
*Control of neuronal identity from RNA-binding proteins to transcription factors*

4:35 pm  Richard Mann, Columbia University  
*Origins and developmental logic in the generation of an adult neuropil in Drosophila*

5:00 pm  Poster reception

6:30 pm  Dinner

**8:00 pm**  
**Session 5**  
**Chair: Paola Arlotta**

8:00 pm  Stavros Lomvardas, Columbia University  
*Mechanisms of olfactory receptor gene choice*

8:25 pm  Mattias Alenius, Linköping University  
*A critical period determine the Odorant receptor choice in Drosophila*

8:50 pm  Refreshments available at Bob’s Pub
Tuesday, May 9

7:30 am  Breakfast *(service ends at 8:45 am)*

9:00 am  Session 6  
Chair: Josh Huang

9:00 am  Constance Cepko, Harvard Medical School  
*Cell fate determination in the vertebrate retina*

9:25 am  Gordon Fishell, New York University School of Medicine  
*Inhibitory projection and interneuron diversity is generated through parallel genetic trajectories of forebrain progenitors*

9:50 am  Songhai Shi, Memorial Sloan Kettering Cancer Center  
*Intricate cladistic organization of excitatory neuron synaptic connectivity and function in the neocortex*

10:15 am  Break

10:45 am  Session 7  
Chair: Vilas Menon

10:45 am  Su Guo, University of California, San Francisco  
*Generating cell type diversity through regulating modes of division in vertebrate neural stem cells*

11:10 am  Carina Hanashima, RIKEN Center for Developmental Biology  
*Mechanisms of neuronal subtype transitions and integration in the cerebral cortex*

11:35 am  Soo-Kyung Lee, Oregon Health & Science University  
*What does the Fox say?*

12:00 pm  Lunch *(service ends at 1:00 pm)*

1:00 pm  Tour *(optional - meet at reception)*

2:00 pm  Session 8  
Chair: Carina Hanashima

2:00 pm  Josh Huang, Cold Spring Harbor Laboratory  
*Exploring the biological basis of neuronal identity*

2:25 pm  Jane Johnson, University of Texas Southwestern Medical Center  
*Transcriptional control of neuronal diversity in the dorsal neural tube*
2:50 pm  **John Rubenstein, University of California, San Francisco**  
*Transcriptional control of telencephalic of subpallial telencephalic neuronal identity*

3:15 pm  Break

3:45 pm  **Session 9**  
**Chair:** Soo-Kyung Lee

3:45 pm  **Sacha Nelson, Brandeis University**  
*Tools and approaches for identifying neuronal cell type-specific enhancers in mice*

4:10 pm  **Vilas Menon, Janelia Research Campus/HHMI**  
*Using single-cell gene expression data to derive putative transcription factor interactions linked to neuronal phenotype*

4:35 pm  **Alex Nord, University of California, Davis**  
*Epigenomic programming of interneuron specification in the mouse*

4:45 pm  **Jessica Tollkuhn, Cold Spring Harbor Laboratory**  
*Sex differences in neuronal identity*

4:55 pm  **Stein Aerts, University of Leuven & VIB**  
*Single-cell transcriptomics and epigenomics reveal gene regulatory networks underlying neuronal states*

5:05 pm  Poster reception

6:30 pm  Dinner

**8:00 pm**  **Session 10**  
**Chair:** Andrea Brand

8:00 pm  **Javier Morante, Instituto de Neurociencias de Alicante-CSIC-UMH**  
*A Sema1a-Leptin-like sensor for body fat times reproductive maturation*

8:25 pm  **Nick Spitzer, University of California, San Diego**  
*Neurotransmitter switching in the developing and adult brain*

8:50 pm  Refreshments available at Bob’s Pub
Wednesday, May 10

7:30 am  Breakfast (service ends at 8:45 am)

9:00 am  Session 11
  Chair: James Truman

9:00 am  Martyn Goulding, Salk Institute for Biological Studies
  Probing functional diversity in the spinal cord

9:25 am  Hongjun Song, Johns Hopkins University School of Medicine
  Deconstructing complexity of hypothalamus ontology via clonal analysis of neural stem cells

9:50 am  Denis Jabaudon, University of Geneva
  Dynamic control of neuronal diversity in the developing neocortex

10:15 am  Break

10:45 am  Session 12
  Chair: Sacha Nelson

10:45 am  Tony Southall, Imperial College London
  Investigating neuronal identity specification using Targeted DamID (TaDa)

11:10 am  Paola Arlotta, Harvard University
  Maintaining and reprogramming neuronal diversity in the neocortex

11:35 pm  Closing Discussion /Final Remarks

12:00 pm  Lunch and Departure

12:30 pm  First shuttle to Dulles
1:30 pm  Second shuttle to Dulles
2:30 pm  Last shuttle to Dulles