

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**

Talks are 20 min + 5 min for Q&A

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 Biología 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

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- 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