

Sunday, September 20

- 3:00 pm Check-in
- 6:00 pm Reception (*Lobby*)
- 7:00 pm Dinner
- 8:15 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, September 21

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 1: Drug Addiction I**
Chair: David Sweatt
- 9:00 am **Paul Kenny**, Mount Sinai School of Medicine
MicroRNAs and drug addiction
- 9:25 am **Eric Nestler**, Mount Sinai School of Medicine
Epigenetic mechanisms of drug addiction
- 9:50 am **Anne E. West**, Duke University Medical Center
MeCP2 and the regulation of behavioral plasticity
- 10:15 am **Gregory C. Sartor**, University of Miami Miller School of Medicine
Inhibition of BET bromodomain proteins alters behavioral and molecular responses to cocaine
- 10:30 am Break
- 11:00 am Session 2: Drug Addiction II and Chromatin Biochemistry**
Chair: Ulrike Heberlein
- 11:00 am **Courtney A. Miller**, Scripps Research Institute - Florida
Methamphetamine-associated memory is regulated by a writer and an eraser of permissive histone methylation
- 11:25 am **Paolo Sassone-Corsi**, University of California, Irvine
The epigenetic language of the circadian clock
- 11:50 am **Ian Maze**, Icahn School of Medicine at Mount Sinai
Histone monoaminylation in the central nervous system: Novel mechanisms of epigenetic plasticity
- 12:15 pm Lunch (*service ends at 1:15pm*)

Behavioral Epigenetics: Conserved Mechanisms in Diverse Model Systems

2:00 pm **Session 3: Disease and Aging I**
Chair: Tim Bredy

2:00 pm **Paul R. Albert**, Ottawa Hospital Research Institute
Deaf1-MeCP2 interaction mediates of genotype- and methylation-dependent transcription of 5-HT1A receptor

2:25 pm **Elisabeth Binder**, Max-Planck Institute of Psychiatry
Gene x early adversity interactions - relevance of allele-specific epigenetic modifications

2:50 pm **Gustavo Turecki**, McGill University
Regulation of aggressive-impulsive behaviour by a novel lincRNA

3:15 pm Break

3:45 pm **Session 4: Disease and Aging II**
Chair: Lisa Monteggia

3:45 pm **Anne Schaefer**, Icahn School of Medicine at Mount Sinai
Polycomb repressive complex 2 (PRC2) activity controls neuronal function and survival

4:10 pm **Anne Brunet**, Stanford University
Epigenetic and metabolic regulation of aging

4:35 pm Poster Blitz! (5 minute / 3 slides each)

5:15 pm Poster Reception

7:00 pm Dinner

8:15 pm Refreshments available at Bob's Pub

Tuesday, September 22

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 5: Development and Parental Effects - I**
Chair: Farah Lubin
- 9:00 am **Frances A. Champagne**, Columbia University
Implications of paternal-maternal interplay for epigenetic outcomes in offspring
- 9:25 am **Catherine Dulac**, HHMI/Harvard University
Functional analysis of parent-of-origin expression bias in the brain
- 9:50 am **Tracy Bale**, University of Pennsylvania
Paternal stress epigenetic reprogramming of neurodevelopment via sperm miRNA
- 10:15 am Break
- 10:45 am Session 6: Development and Parental Effects - II**
Chair: Ian Maze
- 10:45 am **Michael Meaney**, McGill University
Parental regulation of the epigenome
- 11:10 am **Tallie Z. Baram**, University of California-Irvine
Synaptic rewiring & epigenetic programming of stress-responsive neurons by early-life experience
- 11:35 am **Alison Bell**, University of Illinois at Urbana-Champaign
Maternal and paternal effects on behavioral development in sticklebacks
- 12:00 pm **Brian Dias**, Emory University
Using the olfactory system to study ancestral influences on descendant generations
- 12:15 pm Lunch (*service ends at 1pm*)
- 1:00 pm Tour (*optional – meet at reception*)
- 2:00 pm Session 7: Learning and Memory I**
Chair: Anne Brunet
- 2:00 pm **Lisa Monteggia**, UT Southwestern
Analysis of individual HDACs in behavior and synaptic plasticity

Behavioral Epigenetics: Conserved Mechanisms in Diverse Model Systems

- 2:25 pm **Jeremy J. Day**, University of Alabama at Birmingham
Extra-coding RNAs regulate neuronal DNA methylation and long-term memory formation
- 2:50 pm **Timothy Bredy**, University of California, Irvine
Epitranscriptomic mechanisms of memory stability
- 3:15 pm Break
- 3:45 pm Session 8: Learning and Memory II**
Chair: Michael Meaney
- 3:45 pm **Farah Lubin**, University of Alabama at Birmingham
Histone ubiquitination boundaries: Regulation of trans-histone H3 methylation synaptic plasticity and memory formation
- 4:10 pm **Ted Abel**, University of Pennsylvania
The co-repressor Sin3a is a memory suppressor gene that regulates the expression of the synaptic scaffolding protein Homer1
- 4:35 pm **Li-Huei Tsai**, Massachusetts Institute of Technology
Chromatin remodeling, DNA breaks, and activity-induced gene expression in neurons
- 5:00 pm Break
- 5:15 pm Session 9: Learning and Memory III**
Chair: Shelley Berger
- 5:15 pm **Marcelo A. Wood**, University of California, Irvine
The role of nucleosome remodeling in synaptic plasticity, memory, and intellectual disability disorders
- 5:40 pm **David Sweatt**, University of Alabama at Birmingham
Epigenetic mechanisms in associative conditioning
- 6:05 pm **Sarah E. London**, University of Chicago
Experience alters epigenetic histone modifications in a brain area required for learning song, a complex natural behavior, in juvenile songbirds
- 6:20 pm Poster Reception
- 7:45 pm Dinner
- 8:45 pm Refreshments available at Bob's Pub

8/21/15

Wednesday, September 23

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 10: Behavior and Cognition I**
Chair: Eric Nestler
- 9:00 am **Hongjun Song**, Johns Hopkins University School of Medicine
Dynamic DNA modifications regulates neuronal flexibility
- 9:25 am **Schahram Akbarian**, Icahn School of Medicine at Mount Sinai School
Higher order chromatin affecting cognition and behavior in human and animal brain
- 9:50 am **Margarita Behrens**, Salk Institute
Regional and cell-type specific reconfiguration of DNA methylation patterns during brain development
- 10:15 am **Jessica Tollkuhn**, Cold Spring Harbor Laboratory
Epigenetic regulation of sex differences in the brain
- 10:30 am Break
- 11:00 am Session 11: Behavior and Cognition II**
Chair: Marcelo Wood
- 11:00 am **Shelley L. Berger**, University of Pennsylvania
Epigenetic (re)programming of caste-specific behavior in the carpenter ant
- 11:25 am **Amy L. Toth**, Iowa State University
*DNA methylation is not associated with sociality in the primitively eusocial wasp *Polistes dominula**
- 11:50 am Closing 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