11th ANNUAL RETREAT
April 16-18, 2018
Mohonk Mountain House
New Paltz, NY

DEVELOPMENT & PLASTICITY
Chair: Dane Sanes, PhD
9:15 AM  Chyi Aoki, PhD, GABA makes teens moody but also resilient to stress
9:30 AM  Xavier Castellanos, MD, Just how plastic? Can we capture evidence of improved organizational skills in children using resting-state fMRI
9:45 AM  (Froemke Lab), Statistical learning in the auditory cortex of maternal mice
10:00 AM  Filipe Pinto-Teixeira, PhD (Deslpan Lab), Coupling Neurogenesis to Circuit Formation
10:15 AM  Richard Tsien, DPhil, Homeostatic plasticity can use Hebbian-like plasticity mechanism

BREAKOUT SESSIONS 11:15 AM - 1:00 PM
A: Translational
B: Big Data
C: New Imaging Technology

MOTOR
Chair: Michael Long, PhD
9:30 AM  Heidi Schambra, MD, Electrifying Neuroplasticity: Using Transcranial Direct Current Stimulation to Potentiate Motor Skill Learning in Humans
9:45 AM  Adeen Flinker, PhD, Redefining the Role of Broca’s Area in Speech
10:00 AM  Arkarup Banerjee, PhD (Long Lab), Cortical control of vocal communication in a neotropical singing mouse
10:15 AM  David Ehrlich, PhD (Schoppik Lab), How Fish Learn To Move
10:30 AM  Moses Chao, PhD, How does Exercise Affect the Brain

RESTORATION OF FUNCTION
Chair: Jyotiben Patel, PhD
11:00 AM  Shane Liddelow, PhD, The Mystery and Magic of Glia
11:15 AM  Dirk Trauner, PhD, Controlling Calcium Homeostasis with Photopharmacology
11:30 AM  Qiaosheng Zhang (Wang Lab), Ketamine Reduces Hyperactivity of the Anterior Cingulate Cortex to Provide Enduring Relief of Chronic Pain
11:45 AM  Andrew Feigin, MD, The SIGNAL Trial: Anti-Semaphorin 4D Immunotherapy in Huntington’s Disease

Cover Image: Aldh111-eGFP astrocytes (purple) and dapi-stained nuclei (blue) in the hippocampus of the adult mouse. Note the fine, branched processes of the astrocytes, and their distinct tiling domains.(Liddelow Lab)
**MONDAY 4.16.18**

- **2:15 PM** BUSES LEAVE NYU
- **4:30 PM** REGISTRATION
- **6:30 PM** DINNER Main Dining Room
- **8:00 PM - 10:00 PM** POSTER SESSION I Main Dining Room *Followed by “Retreat Trivia”*

**TUESDAY 4.17.18**

- **5:00 PM** KEYNOTE LECTURE*
  
  Kelsey C. Martin, MD, PhD, UCLA
  
  Dean for the David Geffen School of Medicine at UCLA, Professor, Biological Chemistry, Professor, Psychiatry and Biobehavioral Sciences
  
  *Making Memories Last: Genes, Neurons and Synapses*
- **6:00 PM** DINNER Main Dining Room
- **8:00 PM - 10:00 PM** POSTER SESSION II Main Dining Room *Followed by “Game Night”*

**WEDNESDAY 4.18.18**

- **9:30 AM - 10:30 AM** MOTOR*
  
  Schambra - Flinker - Banerjee - Ehrlich - Chao
- **11:00 AM - 11:45 AM** RESTORATION OF FUNCTION*
  
  Liddelow - Trauner - Zhang - Feigin
- **11:45 AM - 12:00 PM** CLOSING REMARKS*
  
  Richard Tsien
- **12:15 PM - 2:00 PM** LUNCH + Checkout Main Dining Room
- **2:00 PM** BUSES LEAVE MOHONK

*Denotes scientific sessions held in the Parlor.

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2018 Retreat Committee:
Robert Froemke (Chair), Dane Sanes, Kathy Nagel, Biyu He, Arjun Masurkar, Robert Egger, Kristen D’Elia, Nina Gray, Heather McKellar, Rihan Hassad