Dendritic Integration 2025

Thursday, December 11th, 2025

11:00 AM - 4:00 PM EST | 17:00 - 22:00 CET

NEURO TECHNOLOGY CENTER
COLUMBIA UNIVERSITY

NIH National Institute of Neurological Disorders and Stroke

Hosted by the **NeuroTechnology Center at Columbia University.**
Sponsored by the Collaborative Opportunities for Multidisciplinary, Bold, and Innovative Neuroscience **(COMBINE)** Program from the National Institute of Neurological Disorders and Stroke **(NINDS)**

US EST (UTC-5)	CET (UTC+1)	
11:00a - 11:10a	17:00 - 17:10	Rafael Yuste, Columbia University
11:10a - 11:15a	17:10 - 17:15	Nina Hsu & Karen David, National Institute of Neurological Disorders and Stroke

Dendritic Function

11:15a - 11:45a	17:15 - 17:45	Valentina Emiliani, Institut de la Vision *Holographic manipulation of dendritic integration*
11:45a - 12:15p	17:45 - 18:15	Yukiko Goda, Okinawa Institute of Science and Technology *Synapse-astrocyte interactions in fine-tuning of synaptic strengths in hippocampal pyramidal neurons*
12:15p - 12:45p	18:15 - 18:45	Megha Sehgal, Ohio State University *Role of compartmentalized dendritic plasticity in memory organization*
12:45p - 1:15p	18:45 - 19:15	***Panel Discussion*** Moderated by Jayeeta Basu, New York University
1:15p - 1:45p	19:15 - 19:45	*Break*

Circuit Function

1:45p - 2:15p	19:45 - 20:15	Kristen Harris, University of Texas at Austin *Why do we need a rat model to investigate the dendritic spine apparatus and axonal cisternal organelle?*
2:15p - 2:45p	20:15 - 20:45	Kaspar Podgorski, Allen Institute for Neural Dynamics *Measuring neuronal input-output operations in vivo*
2:45p - 3:15p	20:45 - 21:15	Michael Hawrylycz, Allen Institute for Brain Science *A Community Standard Multispecies Cell Atlas of the Basal Ganglia: TheBRAIN Initiative Cell Atlas Network*
3:15p - 3:45p	21:15 - 21:45	***Panel Discussion*** Moderated by Jeff Lichtman, Harvard University
3:45p - 3:50p	21:45 - 21:50	Rafael Yuste, Columbia University