

Date	Speaker	Speaker Affiliation	Speaker title	Talk title	Alumni
9/18/13	Ivan Bodis-Wollner	SUNY Downstate Medical Center		Venturing into the no-man's land of the retina in Parkinson's Disease"	
10/2/13	Youping Zhao	SUNY Downstate Medical Center		Cortical mechanism of color perception	
10/16/13	Annalisa Scimemi	Department of Biology, SUNY Albany		Calcium channels and neurotransmitter vesicles in the active zone	
10/30/13	Jim Schwaber	Thomas Jefferson University		Thomas Jefferson University	
11/1/13	Alex Zhou and Andrzej Przekwas	CFD Research Corp.		Warfighter Biodynamics, Fatigue and Injury Protection: Modeling Perspective	
12/11/13	Qi Wang	Columbia University	Assistant Professor Biomedical Engineering	Thalamic synchrony and adaptive tradeoff between detection and discrimination in behavior	
1/15/14	Bijan Pesaran	New York University	Associate Professor, Center for Neural Science	The promise of local field potentials for neuroscience and neural engineering	
1/29/14	April Benasich	Rutgers University	Professor of Neuroscience, Director, Infant Studies Laboratory, Director, Carter Center for Neurocognitive Research, Center for Molecular and Behavioral Neuroscience	Electrophysiological maturation and evolution of infant oscillatory brain activity impacts auditory processing and early language	
2/12/14	Eric Lang	NYU Langone Medical Center	Associate Professor, Department of Neuroscience & Physiology	Synaptic Modulation of the Cerebellar Nuclei	
2/26/14	Joseph T. Francis	SUNY Downstate Medical Center	Associate Professor, Physiology & Pharmacology	Toward a fully integrated and autonomous brain machine interface	
3/12/14	Benjamin Backus	SUNY College of Optometry	Associate Professor, Department of Biological and Vision Sciences	Binocular vision: amblyopia and strabismus	
4/9/14	Hannah Choi	Northwestern University	Postdoc candidate, Department of Engineering Sciences and Applied Mathematics	Intrinsically bursting All amacrine cells drive oscillations both in wild type and rd1 retina	
4/25/14	Jason G. Fleischer	The Neurosciences Institute, La Jolla, CA	Data Scientist	Embodied neural models of hippocampus: studying the relationships between anatomy, activity, and spatial memory	
5/7/14	Russell Epstein	University of Pennsylvania	Professor, Department of Psychology	From Landmarks to Cognitive Maps: Spatial Navigation Systems in the Human Brain	
5/21/14	Kathy Rockland	Boston University		The claustrum and synaptic zinc	
6/4/14	Elizabeth Cropper	Mt. Sinai School of Medicine		Regulation of afferent transmission during a rhythmic motor program: Mechanisms and consequences	
9/17/14	Susana Martinez-Conde	SUNY Downstate Medical Center	Professor, Departments of Ophthalmology and Physiology & Pharmacology	From visual exploration to visual fixation: Towards a unified theory of oculomotor function	

10/1/14	Cliff Kentros	Norwegian University of Science and Technology, Trondheim, Norway	Professor of Medicine, Kavli Institute of Systems Neuroscience	Transgenic investigation of the Neural Circuitry of Memory	
10/15/14	Aurel A. Lazar	Columbia University	Professor, Department of Electrical Engineering	Spiking Neural Circuits with Dendritic Stimulus Processors: Encoding, Decoding and Identification	
10/29/14	Mark Baxter	Icahn School of Medicine at Mount Sinai	Professor of Neuroscience	Cognitive and socioemotional effects of postnatal anesthesia exposure: Animal models	
11/12/14	John F. Crary	Mount Sinai School of Medicine	Associate Professor of Pathology, Alumnus, SUNY Downstate Medical Center	Tautologies and tau: refining the diagnosis of Alzheimer's disease	*
12/5/14	Ashish Raj	Weill Cornell Medical College	Associate Professor of Computer Science in Radiology and Neuroscience, Co-Director, Image Data Evaluation and Analytics Lab (IDEAL)	Graph Theoretic Models for Exploring Brain Function and Disease	
12/10/14	Simon F. Giszter	Drexel University	Professor, Department of Neurobiology and Anatomy	Spinal motor primitives, recovery of function and cortical controls: a view from frogs and rats	
1/7/15	Yasmin Hurd	Icahn School of Medicine at Mount Sinai	Professor, Departments of Psychiatry, Neuroscience and Pharmacology and Systems Therapeutics of the Center for Addictive Disorders	The Vulnerable Brain: Pathway to Addiction Disorder	
1/21/15	Ernst Niebur	Johns Hopkins University	Professor, Department of Neuroscience	Attention to Objects and Perceptual Organization: A neurally plausible computational model for intermediate vision	
2/4/15	Peter Rudebeck	Icahn School of Medicine at Mount Sinai	Assistant Professor, Friedman Brain Institute	Reward, valuation and the prefrontal cortex: From emotion to decision-making	
3/11/15	Eva Pastalkova	Howard Hughes Medical Institute	Fellow, Janelia Research Campus	Hippocampal sequential firing and episodic memory	
3/18/15	Dmitriy Aronov	Princeton Neuroscience Institute	Postdoctoral Research Fellow	The rat spatial navigation system in 2D virtual reality	
4/10/15	Vladimir Miskovic	SUNY Binghamton University	Assistant Professor, Department of Psychology	Natural Selective Attention in the Human Visual System	
4/15/15	Dara L. Dickstein	Icahn School of Medicine at Mount Sinai	Assistant Professor, Friedman Brain Institute	The pathological effects of blast induced traumatic brain injury	
4/29/15	Edward Ziff	NYU School of Medicine	Professor	Homeostatic Synaptic Plasticity: A Mechanism and Some Novel Roles	

6/10/15	Charles Nicholson	NYU School of Medicine	Professor of Neuroscience and Physiology	Brain extracellular space and the clearance of molecules during sleep	
9/16/15	Juan Marcos Alarcon	SUNY Downstate Medical Center	Assistant Professor of Pathology	Persistent modifications of hippocampal synaptic function with remote spatial memory	
9/30/15	Farzan Nadim	New Jersey Institute of Technology	Professor of Neurobiology	How does a neuron maintain its phase in an oscillatory network?	
10/14/15	Janina Ferbinteanu	SUNY Downstate Medical Center	Research Assistant Professor, Department of Physiology and Pharmacology	Hippocampal and Striatal Contributions to Memory-Guided Behavior"	
10/28/15	Michael Halassa	NYU Langone Medical Center	Assistant Professor, Departments of Psychiatry, Neuroscience & Physiology	Thalamic inhibition as a mechanism for attentional allocation	
12/9/15	Stephen L. Macknik	SUNY Downstate Medical Center	Empire Innovator Scholar, Professor of Ophthalmology, Neurology, and Physiology & Pharmacology	Different Abnormal Blood Flow Sources Lead to Spatially Distinct Patterns of Cell Death in Epilepsy and Age-Related Macular Degeneration	
12/18/15	George J. Augustine	Nanyang Technological University, Singapore	Professor of Neuroscience and Mental Health, Lee Kong Chian School of Medicine	Optogenetic mapping of brain circuitry	
1/6/16	Diana Dow-Edwards	SUNY Downstate Medical Center	Professor, Department of Physiology and Pharmacology, Chair, Institutional Animal Care and Use Committee, Distinguished Visiting Research Chair in Brain Science, Child and Family Health & Wellness Fulbright Canada-Palix Foundation	Cannabinoids and Development of the Brain	
1/20/16	Mark Stewart	SUNY Downstate Medical Center	Dean, School of Graduate Studies and Vice Dean for Research	An explanation for sudden death in epilepsy	*
2/3/16	Nicolas Brunet	SUNY Downstate Medical Center	Research Assistant Professor, Department of Ophthalmology	Surfing across the visual cortex by riding the gamma wave	
2/17/16	Matthijs van der Meer	Dartmouth College	Assistant Professor, Department of Psychological and Brain Sciences	Ensemble representation of imagined places and rewards in the rat	
3/2/16	Randy M. Bruno	Columbia University Medical Center	Associate Professor, Department of Neuroscience	The Many Input Layers of the Neocortex	
3/16/16	Jeremy Barry	University of Vermont	Research Associate, Department of Neurological Sciences	Hippocampal neurophysiology and the assay of spatial cognition in basic and translational science	*
3/30/16	Oliver Clarke	Columbia University Medical Center	Research Associate, Department of Biochemistry and Molecular Biophysics	Structural studies of ryanodine receptor gating	

4/27/16	Christophe Dupre	Columbia University Medical Center	Neurobiology and Behavior PhD Program, Department of Biological Sciences	Calcium Imaging in Hydra	
5/25/16	Bence P. Olveczky	Harvard University	Professor, Department of Organismic and Evolutionary Biology and the Center for Brain Science	Neural circuits underlying motor skills	
6/8/16	David Foster	The John Hopkins University School of Medicine	Associate Professor	Hippocampal place cell sequences for memory and imagination	
6/10/16	James Kozloski	T.J. Watson Research Center, IBM, Yorktown Heights, NY	Research Staff Member, Master Inventor	Brain Modeling with Multimodal, Mutiscale Constraints	
9/7/16	Diego Contreras	University of Pennsylvania	Professor, Department of Neuroscience	Dynamic properties of thalamocortical synapses in the visual system in vivo	
9/21/16	Todd C. Sacktor	SUNY Downstate Medical Center	Distinguished Professor, Departments of Physiology & Pharmacology and Neurology	PKM ζ , LTP, and memory: controversy and resolution	
9/28/16	Luke Dittrich	New York Times Magazine/Freelance	Journalist	Patient H. M., A Story of Memory, Madness and Family Secrets	
10/5/16	James J. Knierim	Johns Hopkins University	Professor of Neuroscience, Krieger Mind/Brain Institute	Information Processing along the Hippocampal Transverse Axis	
10/19/16	Srdjan D. Antic	UCONN Health	Associate Professor, Department of Neuroscience	Dendritic Plateau Potential in Thin Dendrites of Cortical Pyramidal Neurons – Potential Role in Network Activity	
10/30/16	Joel D. Richter	University of Massachusetts Medical School	Arthur F. Koskinas Professor of Neuroscience, Professor of Molecular Medicine	Molecular Biology of the Fragile X Syndrome	
11/2/16	Nathaniel B. Sawtell	Columbia University	Associate Professor, Department of Neuroscience and Kavli Institute for Brain Science	Neural Mechanisms for Predicting the Sensory Consequences of Behavior	
12/14/16	Ellen M. Unterwald	Temple University	Professor of Pharmacology Director of the Center for Substance Abuse Research, Lewis Katz School of Medicine	Erasing cocaine memories	
1/11/17	Donald Pfaff	The Rockefeller University	Professor, Department of Neurobiology and Behavior	Waking up the brain: Generalized CNS arousal and estrogen-dependent sexual arousal	
1/25/17	Robert Froemke	New York University	Assistant Professor, Department of Neuroscience and Physiology	Oxytocin, maternal behavior, and synaptic plasticity	
2/8/17	Katherine Nagel	NYU School of Medicine	Assistant Professor Department of Neuroscience and Physiology	Neural encoding of wind direction in <i>Drosophila</i>	

3/8/17	Annelyn Torres-Reveron	University of Texas at Rio Grande Valley-School of Medicine	Assistant Professor, Department of Biomedical Sciences, Division of Neurosciences	Environmental enrichment as an effective alternative treatment to reduce endometriosis progression	X
3/29/17	Daphne Soares	New Jersey Institute of Technology	Associate Professor, Federated Department of Biological Sciences	Neural adaptations to cave environments	
4/12/17	Attila Losonczy	Columbia University	Department of Neuroscience, Mortimer B. Zuckerman Mind Brain Behavior Institute, Kavli-Simons Fellow, Kavli Institute for Brain Science	Dissecting Hippocampal Circuit Operations for Navigation and Learning	
5/17/17	Stephen L. Macknik	SUNY Downstate Medical Center	Professor and Empire Innovator Scholar, Departments of Ophthalmology, Neurology, Physiology & Pharmacology	The Temporal Neural Mechanisms Underlying Brightness and Visibility Perception	
5/31/17	Guillem Esber	Brooklyn College - CUNY	Assistant Professor of Psychology	The role of basolateral amygdala in the modulation of cue salience	
9/13/17	Kally O'Reilly	New York University	Postdoctoral Fellow, Center for Neural Science	Sub-circuit alterations in hippocampus metabolic coupling, structure, and function after global neurodevelopment insult	
9/27/17	Jacquelyn Meyers	SUNY Downstate Medical Center	Professor, Department of Psychiatry	Genetic, Psycho-Social, and Neurophysiological influences on Substance Use Disorders	
10/11/17	Erin Rich	Icahn School of Medicine at Mt Sinai	Assistant Professor, Department of Neuroscience	Dynamic encoding of choice in the orbitofrontal cortex	
10/25/17	Mariam Aly	Columbia University	Assistant Professor, Department of Psychology	Perception and attention in memory systems	
12/6/17	Marisa Carrasco	New York University	Professor of Psychology and Neural Science, Collegiate Professor	On Covert Attention and Presaccadic Attention	
12/8/17	Eric L. Hargreaves	Rutgers University - Robert Wood Johnson Medical School	Clinical DBS Neurophysiologist, Director of the DBS Clinical Research Program	Deep Brain Stimulation (DBS) Basics for Parkinson's Disease, plus a little clinical research on the side...	
12/20/17	Roger Traub	IBM Research Center	Research Staff Member	Gap junctions between the axons of pyramidal cells and their role in very fast oscillations (ripples)	
1/17/18	Jacqueline Gottlieb	Columbia University	Professor, The Kavli Institute for Brain Science, The Zuckerman Institute for Mind, Brain and Behavior	The hidden side of attention: how does the brain make the selection	
2/28/18	Eric Carmichael	Dartmouth College, New Hampshire	Department of Psychological and Brain Sciences	Probing the origin(s) of gamma oscillations in the rat ventral striatum and their role in information routing	

3/14/18	Kamran Diba	University of Michigan	Associate Professor, Department of Anesthesiology	Ripples over space and time: state-dependence in hippocampal spike patterns	
3/28/18	Micheal Goldberg	Columbia University Medical Center	Professor, Department of Neuroscience	Corollary Discharge and Oculomotor Proprioception - Two Mechanisms for Spatial Accuracy in the Monkey Brain	
4/25/18	Heather Read	University of Connecticut	Associate Professor Director, Brain Computer Interface Core, Departments of Psychological Sciences and Biomedical Engineering	Cortical Mechanisms for Discriminating Ears	
5/23/18	Andre Fenton	NYU Langone Medical Center	Professor, Center for Neural Science	The dynamic structure of cognition: If space was time	*
9/12/18	John Murray	Yale University School of Medicine	Assistant Professor of Psychiatry, Neuroscience, and Physics	Hierarchical specialization of human cortex	
9/26/18	George Dragoi	Yale University School of Medicine	Assistant Professor of Psychiatry and Neuroscience	Neuronal ensembles underlying internally-generated representations	
10/10/18	Mark Stewart	SUNY Downstate Medical Center	Dean, School of Graduate Studies, Professor, Departments of Physiology & Pharmacology, and Neurology	An explanation for sudden death in epilepsy (SUDEP)	*
10/24/18	Bruce S. McEwen	The Rockefeller University	Alfred E. Mirsky Professor, Department of Neuroscience and Behavior	Hormones and the Brain: Serendipity to Clinical Relevance	
12/19/18	Jeffrey Goodman	NYS Institute for Basic Research, Staten Island	Associate Professor, Department of Developmental Neurobiology	The Role of Prenatal Thyroid Hormone in Brain Development	
1/16/19	Herman Moreno	SUNY Downstate Medical Center	Associate Professor, Departments of Neurology, Physiology & Pharmacology	AD risk factors, -too many to make sense!!	
1/30/19	Samuel Neymotin	Nathan Kline Institute for Psychiatric Research	Research Scientist	Using Biophysical Computational Neural Models to Investigate Neuropsychiatric Disorders	*
2/13/19	Eric L. Hargreaves	Robert Wood Johnson Medical School, Rutgers University	linical DBS Neurophysiologist and Director of the DBS Clinical Research Program, Division of Neurosurgery	Deep Brain Stimulation (DBS) Overview & Research: 1) Predicting Device Duration, 2) Clinical Impact of Interleaving Contact Configuration	
2/27/19	J. Ashot Kozak	Wright State University	Associate Professor, Departments of Neuroscience, Cell Biology & Physiology	TRPM7: a cation channel and a kinase	
3/13/19	Linnaea Ostroff	University of Connecticut	Assistant Professor, Department of Physiology & Neurobiology	Local protein synthesis on both sides of the synapse in an emotional memory circuit	
3/20/19	Anne Murphy	Georgia State University	Professor, Neuroscience Institute	Sex differences in innate immunity & its impact on opioid modulation of pain	

3/27/19	Lorin S. Milesco	University of Missouri	Assistant Professor, Division of Biological Sciences	The (im) probability machine: how ion channels organize complex behavior in neurons and circuits	
4/3/19	Ian Wishaw	University of Lethbridge, Alberta, Canada	Professor of Neuroscience	Multiple Motor Channel Theory and Hands or How the Brain Works	
4/24/19	Barry Komisaruk	Rutgers University	Distinguished Professor, Department of Psychology	Brain activity related to sexual response and orgasm in women and men	
5/8/19	Amy Kohtz	Rutgers University	Department of Environmental Sciences, Brain Health Institute	Sex Differences in Addiction: Memory or Motivation?	
5/16/19	Panayiota Poirazi	Institute of Molecular Biology and Biotechnology (IBB), Foundation of Research and Technology-Hellas (FORTH), Heraklion, Crete, Greece	Computational Neuroscientist	Active dendrites and their role in neuronal and circuit computations	
6/5/19	Pantelis Hatzis	Biomedical Sciences Research Center, Athens, Greece	Researcher B and Head of Fleming Genomics Facility, Division of Molecular Biology & Genetics	Long non-coding RNAs in intestinal carcinogenesis and beyond	
9/18/19	Mitchell Goldfarb	Hunter College	Professor, Department of Biological Sciences	Essential and Pathological Functions of FHF Proteins in Excitable Tissues	
10/9/19	Charles E. Schroeder	Columbia University College of Physicians and Surgeons	Professor, Departments of Neurosurgery and Psychiatry	Dynamic mechanisms of temporal prediction in Active Sensing	
10/23/19	Brian Mathur	University of Maryland School of Medicine	Associate Professor, Department of Pharmacology	Reaching beyond consciousness to define claustrum function	
10/30/19	Gunnar Cedersund	Linkoping University, Sweden	Group Leader, Integrative Systems Biology	Mechanistic modeling of the brain neurovascular coupling: Merging electrophysiology with fMRI	
11/20/19	Nora Newcombe	Temple University	Laura H. Carnell Professor of Psychology and the James H. Glackin Distinguished Faculty Fellow	Cognitive Maps: some people make them, some people struggle	
12/11/19	Charles Nicholson	NYU School of Medicine	Professor of Neuroscience and Physiology	Computer Models Clarify Structure of Brain Extracellular Space	
1/15/20	René Hen	Columbia University	Professor, Departments of Neuroscience, Psychiatry, and Pharmacology	Harnessing Hippocampal neurogenesis to improve cognition and mood	
1/22/20	David Kaplan	Tufts University	Stern Family Professor in Engineering, Professor and Chair, Department of Biomedical Engineering	Tissue Engineering the Gut and Brain - Advances and Needs	
2/5/20	Anne Churchland	Cold Spring Harbor	Chair of Neuroscience	Decisions, movements and wholistic behavior	
2/12/20	Salvador Durá-Bernal	SUNY Downstate Medical Center	Research Assistant Professor, Department of Neurology	Data-driven multiscale modeling of cortical circuits	

2/26/20	Konrad Kording	University of Pennsylvania	Professor, Department of Neuroscience	The activity of neurons is affected by many aspects of our behavior and our visual world	
5/20/20	Anthony Zador	Cold Spring Harbor Laboratory	Alle Davis Harrison Professor of Biology	From Connectome to Computation	