Dopaminergic Signaling

Mornings of July 16 and 17 in Room B1

This workshop features talks by leading experimentalists and modelers in the field on

- Distinct subpopulations of dopamine neurons
- Coordinated signaling of populations of dopamine neurons
- Dopamine effects on striatal plasticity
- Novel hypotheses for the role of dopamine in motivation and action selection

This work is significant because of the cognitive, motor and motivational functional circuits that rely on dopaminergic signaling, with implications for disorders like depression, schizophrenia, Parkinson's and addiction.

For questions contact organizer Carmen Canavier (ccanav@lsuhsc.edu)

Tuesday July 16

9:30-9:55	, , , , ,
	"Dynamic diversity underlying pauses and bursting in SNc dopamine
	neurons"
10:00-10:25	Larry Zweifel (University of Washington, Seattle, USA)
	"Specialized dopamine projection neurons work cooperatively to max-
	imize reward reinforcement"
10:30-10:55	Kenji Doya (Okinawa Institute of Science and Technology, Japan)
	"Possible roles of dopamine in model-free and model-based decision
	and learning"
11:00-11:30	Coffee break
11:30-11:55	Denis Zakharov (Higher School of Economics, Moscow, Russia)
	"Role of VTA GABAergic neurons in high-frequency firing of dopamin-
	ergic neuron"
12:00-12:25	Martin Vinck (Ernst Struengmann Institute for Neuroscience, in Coop-
	eration with Max Planck Society, Frankfurt, Germany)
	"Tuning of neuronal interactions in the lateral Ventral Tegmental Area
	by dopamine sensitivity"
12:30-12:55	Rebekah Evans (NIH, Bethesda, USA)
	"A dendrite-specific striatonigral circuit facilitates dopamine rebound"

Wednesday July 17

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9:30-9:55	Joshua Berke (UCSF, San Francisco, USA)
	"Dissociable dopamine dynamics for learning and motivation"
10:00-10:25	Arif Hamid (Brown University, Providence, USA)
	"Wave-like spatio-temporal patterns organize dopamine transients into
	compartmentalized decision-signals"
10:30:10:55	Avrama Blackwell (George Mason University, Washington DC, USA)
	"The role of dopamine and post-synaptic signaling molecules in synap-
	tic plasticity and relapse to alcohol use"
11:00-11:30	Coffee Break
11:30-11:55	Laurent Venance (Collège de France, Paris, France)
	"Dopamine-endocannabinoid interactions mediate bidirectional spike
	timing dependent plasticity in the striatum"
12:00-12:25	Jeff Wickens (Okinawa Institute of Science and Technology, Japan)
	"Timing of dopamine directs synaptic plasticity"
12:30-12:55	Eleonora Russo (Central Institute of Mental Health, Mannheim, Ger-
	many)
	"Effects of phasic dopamine in sensory representations and their per-
	ceived salience"