

MSNseminars

presents

Mechanisms Regulating the Differentiation and Maturation of Distinct Interneuron Subtypes

At 12pm, postdocs and students are invited to chat with our speaker during a FREE PIZZA lunch in Icahn 10-84.

Friday September 9 at 4pm

Hess Seminar Room B

Everyone is invited to join us for a WINE and CHEESE reception after the talk from 5-7pm on the 9th floor of Hess.

Timothy Petros, PhD
Fishell Lab, New York University

GABAergic interneurons are the primary source of inhibition in the nervous system and play critical roles in every brain circuit. The abnormal development and function of cortical interneurons has been implicated in the pathobiology of many neurological disorders such as epilepsy, schizophrenia, and autism. As the onset of these diseases presents prior to adulthood, a better understanding of interneuron differentiation and maturation in normal development and disease models is required. Dr. Petros previously identified a novel mechanism regulating fate decisions for subgroups of interneurons derived from the medial ganglionic eminence. Currently, Dr. Petros is devising innovative strategies to distinguish the roles that intrinsic genetic programs and environment factors play in interneuron differentiation and maturation. His long-term career goal is to unravel the mechanisms that direct interneuron fate determination and maturation, with the hope of developing new therapeutic targets for treating a variety of neurological diseases.



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