

Département
de neurosciences
Faculté de médecine

Université 
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Michael Hasselmo, Ph. D.

Director, Center for Systems Neuroscience
Department of Psychological and Brain Sciences
Neurophotonics NSF National Research Traineeship Program
Boston University

Encoding of space and time in cortical structures

Vendredi 9 décembre 2022

12 h à 13 h

En présentiel

Pavillon Paul-G.-Desmarais | 2960, chemin de la Tour, **local 1120**

En ligne

<https://umontreal.zoom.us/j/88066173443?pwd=ajlvdzA0a09FSGlFc3NuRUdFNVhNdz09>

Research Interest

Research in my laboratory concerns the cortical dynamics of memory-guided behavior, including effects of neuromodulatory receptors and the role of theta rhythm oscillations in cortical function. Neurophysiological techniques are used to analyze intrinsic and synaptic properties of cortical circuits in the rat, and to explore the effects of modulators on these properties. Computational modeling is used to link this physiological data to memory-guided behavior. Experiments using multiple single-unit recording in behavioral tasks are designed to test predictions of the computational models. Areas of focused research include episodic memory function and theta rhythm dynamics in the entorhinal cortex, prefrontal cortex and hippocampal formation. Research addresses physiological effects relevant to Alzheimer's disease, schizophrenia and depression.

Entrée libre

Personnes-ressources pour rencontrer le conférencier : Eilif Muller eilif.muller@umontreal.ca