



Invited Lecturer Series

Intrinsic neuromodulatory dynamics in the basal ganglia of mice

Nicolas Tritsch, PhD

Assistant Professor, New York University Grossman School of Medicine

Date and Time: May 18, 2023 (11:00 – 12:00)

Location: In-person at the Douglas Hall (Douglas Research Centre, 6875 Lasalle Boulevard, Montreal) and also available via [Zoom](#).

Special Invitation: If you are interested in joining a **Lunch and Learn** session after the official talk, please RSVP by sending an email to communications.psychiatry@mcgill.ca by Friday, May 12. Lunch will be provided.



Biography:

Nicolas Tritsch, Ph.D., is an Assistant Professor in the Department of Neuroscience and Physiology and a member of the Fresco Institute for Parkinson's and Movement Disorders at the New York University Grossman School of Medicine. He obtained his undergraduate and master's degrees in neuroscience from McGill University, his doctorate in neuroscience from Johns Hopkins University under the mentorship of Dr. Dwight Bergles before completing postdoctoral training with Dr. Bernardo Sabatini at Harvard Medical School. His laboratory combines molecular, genetic, optical and electrophysiological approaches to reveal how brain circuits that control voluntary movements

orchestrate the initiation, execution and learning of motor actions, and how neuromodulators like dopamine and acetylcholine modify these processes in health and disease.

Learning Objectives:

- To learn about novel methodologies to study neuromodulation in mice in vivo
- To learn about the spatiotemporal patterns of dopamine and acetylcholine release in basal ganglia circuits
- To learn about the molecular, cellular and circuit mechanisms shaping dopamine and acetylcholine dynamics