Département de neurosciences
Faculté de médecine

Université de Montréal et du monde.

Séminaires scientifiques hebdomadaires

Joshua T. Dudman, Ph. D.

Senior group leader
Howard Hughes Medical Institute, Janelia Research Campus

Action specification in cortico-basal ganglia circuits

Vendredi 31 mars 2023
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=ajIvdzA0a09FSGlFc3NuRUdFNVhNdz09

Research Interest

Joshua Dudman investigates how animals learn flexible and skillful behaviors from experience – described in disciplines from machine learning to animal behavior as "reinforcement learning" – and seeks to understand pathologies of volition. Dudman and his team focus on the cortex and basal ganglia, areas which together constitute the major descending pathways controlling voluntary, goal-directed action. They use a range of technical approaches in their work, from electrophysiology and imaging in behaving mice, to development of computational models, to cell-type specific perturbation. In addition, the team contributes to the development of custom electronics, electrodes, and molecular tools to support their and others' neurobiological studies.

Entrée libre

Personnes-ressources pour rencontrer le conférencier :
Matthew Perich, matthew.perich@umontreal.ca