Département de neurosciences
Faculté de médecine
Université de Montréal

SÉMINAIRES SCIENTIFIQUES HEBDOMADAIRES

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Cibler la région locomotrice mésencéphalique dans la maladie de Parkinson

Vendredi 22 avril 2022
12 h à 13 h

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

Intérêts de recherche

I am a neuroscientist with expertise in locomotor control. The long-term goal of my research is to identify the role of brainstem neurons in locomotor control in limbed vertebrates using electrophysiology, calcium imaging, neuroanatomy and movement analysis in two model organisms. I use the salamander model, a tetrapod with the remarkable ability to regenerate its spinal cord and dopaminergic system, making it ideal to study mechanisms of brain repair. I use transgenic mice to examine the role of dopaminergic inputs to brainstem locomotor networks using in vivo optogenetics and to study locomotor function in models of Parkinson's disease. The new knowledge will provide a more comprehensive view of the role of brainstem neurons in locomotor control and should help identify relevant clinical strategies to improve locomotor function in people with Parkinson's disease, spinal cord injury and other motor disorders.

Entrée libre

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