



UNIVERSITÉ
LAVAL



PhD student in motor recovery after spinal cord injury

Our lab is interested in the supraspinal control of locomotion (Josset et al., 2018 Current Biology; Laflamme et al., 2019, Cerebral Cortex; Lemieux and Bretzner, 2019 Plos Biology). We are looking for a highly motivated PhD student to investigate the functional contribution of neuronal populations of the mesencephalic locomotor region and their interactions with reticulospinal subpopulations to locomotor recovery after spinal cord injury. Using transgenic or mutant mice, we will examine the intrinsic and synaptic properties of these neurons, their topography, their synaptic connectivity to the neural circuit, and their functional contribution to motor control and locomotor recovery after neurotraumatic injury of the spinal cord.

The laboratory is located in the research center of the CHUL in Quebec City, in a vibrant research environment bridging neuroscience, neuroinflammation, and neurophotonics.

The candidate (s) should have a good background in neuroscience (Bachelor or Master). Experience in mouse genetics, electrophysiology, neuroanatomy, and Matlab welcome. Applicants should send CV, statements of research interests, transcripts, and the names and contact information of three referees to Dr. Frederic Bretzner (frederic.bretzner.1@ulaval.ca).

Website: <http://www.crchudequebec.ulaval.ca/en/research/researchers/frederic-bretzner/>