



University
of Manitoba

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Post-Doctoral Positions in Spinal Cord Neurophysiology

Two post-doctoral positions are available immediately in the research area of Spinal Cord Motor Systems and Autonomic Integration. The positions are in the Spinal Cord Function and Brainstem-Spinal Neural Networks labs within the Spinal Cord Research Centre (SCRC) at the University of Manitoba, and will be directly supervised by Associate Professor Kristine Cowley and Assistant Professor Jeremy Chopek. The labs are physically located in the Basic Medical Sciences Building within the Rady Faculty of Health Sciences in Winnipeg, Manitoba Canada. The Post-Doctoral positions have a 2-3 year duration in an emerging area of spinal cord research that are part of a collaborative effort between the Chopek and Cowley laboratories.

The successful candidate will investigate the neural pathways and mechanisms integrating locomotor activity with the spinal sympathetic neural centres that provide metabolic and homeostatic support for movement. The successful candidate will use calcium imaging, intra and extracellular electrophysiology, immunohistochemistry, confocal imaging and genetic mice models. Ideally, the candidates will have received a PhD in neurosciences and have experience with *in vivo* or *in vitro* electrophysiology investigating neural mechanisms of motor control, spinal cord function or related neuroscience research areas. The project is part of a larger effort aimed at increasing function and health after spinal cord injury and the researchers at the SCRC are engaged in a wide range of research, spanning from molecular genetics to electrophysiological and optical recording techniques in pre-clinical research models to exercise physiological, kinematic and electromyographical techniques in clinical models. Further details regarding our centre and research interests can be found at www.scrs.umanitoba.ca/wp

Interested candidates should send their curriculum vitae summarizing all relevant experience, full list of publications, copies of educational certificates and transcripts of records and names and contact details of 2-3 references (include brief information of relation). These items and cover letter outlining their qualifications, expertise and reasons why this opportunity fits with their overall professional goals should be sent to Jeremy.Chopek@umanitoba.ca or Kristine.Cowley@umanitoba.ca. Applications will be received until May 31st, 2021. Anticipated start is Fall 2021.