



# Manitoba Neuroscience Network

Friday, December 17, 2010 | 9:00 - 10:00am



## Dr. Brent Fedirchuk

Associate Professor, Department of Physiology  
University of Manitoba

**Topic:** The facilitation of motor output by the regulation of spinal motoneuron excitability.

**071 Alumni Theatre, Apotex Centre Bannatyne Campus**

### Dr. Brent Fedirchuk's Summary of Research:

- Dr. Fedirchuk's research is aimed at determining the factors regulating the excitability of spinal neurons and determining how this regulation contributes to the production of useful motor output, such as locomotion. Using single-cell electrophysiological recording techniques coupled with experimental preparations able to exhibit complex motor activity, Dr. Fedirchuk and colleagues have been able to demonstrate a rapid and reversible enhancement of the excitability of spinal neurons from descending and intrinsic spinal systems.
- Dr. Fedirchuk is a native Manitoban, and received a B.Sc. (Hons) in Zoology from the University of Manitoba, followed by M.Sc. and Ph.D. degrees working with Dr. Susan Shefchyk in the Department of Physiology (University of Manitoba). Dr. Fedirchuk then undertook postdoctoral training (CIHR Fellowship) with Dr. Hans Hultborn (Copenhagen) and Dr. Michael O'Donovan (NIH). Dr. Fedirchuk was recruited back to Winnipeg, initially as a Research Associate in Dr. Larry Jordan's laboratory, and subsequently as an Assistant Professor. Dr. Fedirchuk is currently an Associate Professor in the Department of Physiology, University of Manitoba.

For more information, contact the MNN Office at  
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