



UNIVERSITY
OF MANITOBA

Rady Faculty of
Health Sciences



The Department of Pharmacology and Therapeutics

DR. ERIN MAZEROLLE

Will give a Research Presentation

“Neurovascular underpinnings of functional brain connectivity and neurological disease: an MRI perspective”

Thursday, August 10, 2017

12:00pm - 1:00pm

BMSB Theatre C

And a Teaching Presentation

"Introduction to MRI and fMRI for pharmacology”

Friday, August 11, 2017

12:00pm - 1:00pm

Apotex Centre 164

Student & Postdoctoral Fellows lunch to follow in Apotex Centre 069

Dr. Erin Mazerolle is currently a postdoctoral researcher with Prof. Bruce Pike at the University of Calgary. Her main research interest is in understanding how brain connectivity and plasticity is supported by the interplay of neural activity, brain energetics, and cerebral hemodynamics in the human brain. To this end, she applies advanced functional brain mapping acquisition and analysis techniques to probe neurovascular coupling in health and disease. Dr. Mazerolle earned her PhD in Psychology & Neuroscience at Dalhousie University under the supervision of Prof. Ryan D’Arcy. She demonstrated that functional magnetic resonance imaging (fMRI) activation can be detected in white matter (the long-range connections of the brain), challenging previous dogma and opening new research avenues into functional brain connectivity and distributed brain networks. She performed diffusion imaging on the 4 TMRI, increasing capacity for structural brain connectivity research, and studied white matter structure in patients with multiple sclerosis. At Dalhousie her excellent productivity included 16 peer reviewed journal publications (six first-author), 28 refereed conference abstracts, and five national scholarships. Dr. Mazerolle now studies neurovascular coupling associated with cognition, connectivity, and neurological disease, and her research applies advanced MRI techniques known collectively as quantitative fMRI.

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