Resident Research Rotation Opportunity

Name of Primary Investigator: Ian Winship

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Location of Laboratory: 12th floor of Clinical Sciences Building

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Area of Research Interest: rodent models of stroke, novel neuroprotective or neuroplastic treatments, cerebral blood flow, collateral blood flow, sensorimotor processing

General Description of Potential Projects:

I have a number of projects that may be of interest to neurology or neurosurgery residents with an interest in animal models and in vivo imaging. Most require learning surgical preparations for imaging or treatment, and as such are more suitable to longer placements. Details can be discussed further with any interested individuals.

Current research projects:

We are investigating collateral blood flow augmentation during stroke using minor surgical and/or pharmacological intervention. Blood flow is measured using in vivo imaging and efficacy evaluated in a number of ways.

We are also interested in plasticity after stroke, and how brain regions near the stroke or distal to the injury (e.g. Spinal cord) alter their functional or structural properties during recovery. These studies incorporate a number of approaches including imaging, behavioural assessment, and immunoassays.