

R. Loch Macdonald

Dr. Macdonald completed his [Neurosurgery residency](#) at the University of [Toronto](#), after obtaining his MD degree at the University of British Columbia and PhD in Experimental Surgery at the University of Alberta. Following a clinical fellowship in Toronto, Dr. Macdonald was recruited to the University of Chicago Medical Center in 1993 as an Assistant Professor. He assumed the role of Neurosurgery Residency Program Director from 2000-2003 and was appointed as a Full Professor of Surgery (Neurosurgery) and of Radiation and Cellular Oncology in 2003. In 2007, Dr. Macdonald was recruited back to Toronto as the Head of the Division of Neurosurgery at St. Michael's Hospital, where he holds the Keenan Endowed Chair in Surgery.

Dr. Macdonald's clinical expertise includes cerebrovascular surgery, intracranial aneurysms and malformations, cerebral arterial bypass surgery, carotid artery disease, brain tumors, neurooncology, spinal vascular malformations and spinal tumors. He maintains an active research program focused on the basic mechanisms of contraction of vascular smooth muscle by blood and hemoglobin, cerebral vasospasm after subarachnoid hemorrhage, mechanisms of intimal proliferation and thrombosis of arteriovenous fistulas. Dr. Macdonald is currently a Full Professor of Surgery and Member of the Institute of Medical Science at the University of Toronto and a Scientist at the Li Ka Shing Knowledge Institute and Keenan Research Center, St. Michael's Hospital. He is married to Sheilah and has three children, Iain, Robyn and Erin.

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