UM | Rady Faculty of Health Sciences

Max Rady College of Medicine

EDGE OF SCIENCE AND MEDICINE VISITING SPEAKER SERIES

Wednesday, November 18, 2026 12:00 – 1:00 pm

Theatre C, Basic Medical Sciences Building, Bannatyne Campus

"Molecular architecture of the DCC–WAVE complex: Dual recruitment motifs control the axonal wiring of midline and motor circuits"



Frédéric Charron, PhD

Director, Molecular Biology of Neural Development Research Unit, Montreal Clinical Research Institute

Frédéric Charron is Director of the Molecular Biology of Neural Development Research Unit at the Montreal Clinical Research Institute (IRCM), Full Research Professor at the Université de Montréal, and Canada Research Chair (Tier 1) in Developmental Neurobiology. His research focuses on how the nervous system is wired during development, with particular emphasis on Sonic Hedgehog (Shh) signaling and axon guidance. Dr. Charron is internationally recognized for discovering novel roles of Shh in directing neuronal connections and for identifying key Shh receptors and signaling mechanisms that influence brain development and disease. His work has advanced our understanding of neurodevelopmental disorders and pediatric brain tumors, particularly medulloblastoma, and has contributed to the development of new strategies for neural repair and targeted cancer therapies.

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