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Timothy Kennedy, Ph.D. joined McGill University in 1996, where he is a full professor in the departments of neurology and neurosurgery and anatomy and cell biology, and co-director of the McGill Program in NeuroEngineering.

Dr. Kennedy's laboratory at the Montreal Neurological Institute investigates the molecular mechanisms that regulate cell movement and cell-cell interactions in the mammalian central nervous system. Ongoing studies are investigating the biochemical mechanisms that regulate synaptogenesis, synapse maintenance and plasticity, and myelination. A major focus addresses the function of netrins, a family of secreted proteins critical for normal neural development, in which mutations in humans are correlated with the susceptibility to develop Parkinson's disease, amyotrophic lateral sclerosis and Alzheimer's disease. Active projects targeting demyelinating diseases, including multiple sclerosis, aim to promote myelin maintenance and enhance remyelination by addressing the mechanisms that regulate axonal-oligodendroglial interactions. In Neuroengineering, ongoing projects aim to manipulate cell-cell interactions to enhance regeneration and to form stable synthetic synaptic connections onto engineered surfaces to extend the function of the damaged or degenerating nervous system.

Dr. Kennedy is a recipient of research grants from the Canadian Institutes of Health Research (CIHR), the Natural Sciences and Engineering Research Council (NSERC), the Alzheimer Society of Canada and the Multiple Sclerosis Society of Canada. In addition, he has received a Fonds de la Recherche en Santé du Québec (FRSQ) Chercheur Nationaux Award and is a Killam Foundation Scholar.