

APFUS 2024

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Pr. Isabelle Aubert

Sunnybrook Research Institute

University of Toronto, Canada



Dr. Isabelle Aubert works as a Senior Scientist at Sunnybrook Research Institute and a Professor at the University of Toronto. She holds a Tier 1 Canada Research Chair in Brain Repair and Regeneration and is an elected Fellow of the Canadian Academy of Health Sciences.

She obtained her Ph.D. on brain plasticity in aging and neurodegenerative diseases at McGill University in the Department of Neurology and Neurosurgery. As a Medical Research Council of Canada fellow at the Salk Institute for Biological Studies, Dr. Aubert's post-doctoral research was on regenerative gene therapies for the brain.

Dr. Aubert has over 30 years of expertise in regenerative gene therapies for the aging and diseased brain. For the last 15 years at Sunnybrook, she has led the Brain Repair Group to evaluate the impact of focused ultrasound and blood-brain barrier modulation on the delivery of therapeutics to the brain and on the plasticity of molecular, cellular, and cognitive systems in animal models. Through her collaborative work, Dr. Aubert and team members are developing molecular, cellular, and gene therapies that can halt neurodegeneration and promote regeneration, particularly when combined with magnetic resonance image-guided focused ultrasound in preclinical models of neurodegenerative disorders, specializing in Alzheimer's disease.