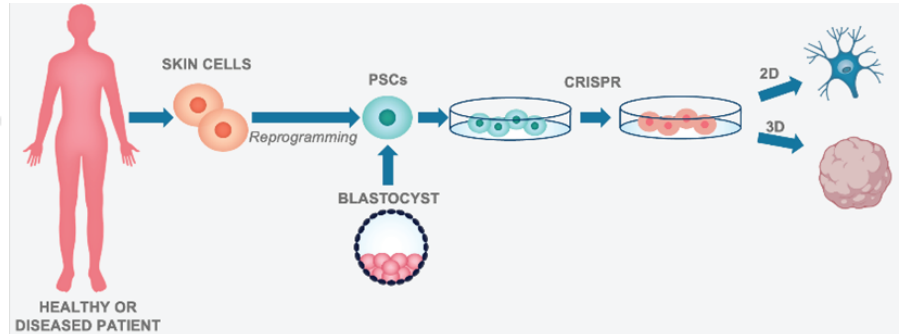
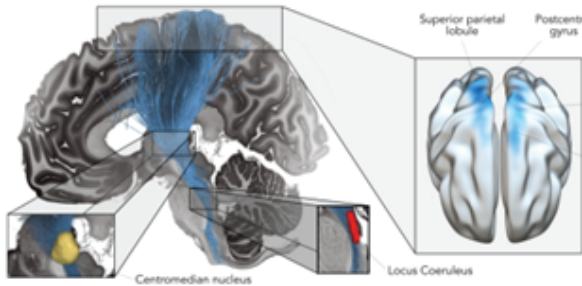


RESEARCH CONNECTIONS

A Research Institute seminar series showcasing scientists in different research programs or in basic and clinical research, including successful partnerships or thematically aligned studies. Each seminar is designed to highlight or stimulate the connections that lead to impactful discoveries.

NEW MODELS AND TREATMENTS FOR EPILEPSY



Featured Speakers

GEORGE M IBRAHIM MD PhD FRCSC FAANS FACS

Abe Bresver Chair in Functional Neurosurgery, Senior Scientist, Neurosciences and Mental Health, The Hospital for Sick Children; Associate Professor, Institute of Biomedical Engineering, Institute of Medical Science and Department of Surgery, University of Toronto

YUN LI PHD

Senior Scientist, Developmental, Stem Cell and Cancer Biology, The Hospital for Sick Children; Assistant Professor, Department of Molecular Genetics, University of Toronto

Modulation of epileptic networks through electrical stimulation in humans

George Ibrahim

Although physicians can consider several neurotechnologies to reduce seizure frequency in children with epilepsy, it is not known which intervention should be personalized to each child. This talk will provide an overview of novel connectomic biomarkers to guide precision-based electrical stimulation.

Understanding neurodevelopmental disorders using human neurons and brain organoids

Yun Li

This talk will highlight how human stem cell-derived neurons and brain organoids can capture patient-specific mutations and cellular phenotypes relevant to epilepsy and related brain disorders, providing novel potential therapeutic strategies.

Panel

Christine Bear, PhD

Senior Scientist, Molecular Medicine, Executive Advisory Group, Cystic Fibrosis Centre, The Hospital for Sick Children; Professor, Department of Physiology, University of Toronto

Darren Kadis, PhD

Scientist, Neurosciences and Mental Health, Director, Human Neurophysiology Core, The Hospital for Sick Children; Associate Professor, Department of Physiology, University of Toronto