



Canada Takes the Lead in Global Brain Imaging

Joins with International Partners to Create a “Google for Neuroscientists”

Project Name: Global Brain Imaging Research Network (GBRAIN)

Project Lead: McGill University, Montreal Neurological Institute

CANARIE Contribution: \$ 1.8 M

Participants:

- Laboratory of Neuroimaging, University of California Los Angeles
- Computational Neuroimaging Laboratory, Hanyang University, Seoul, South Korea
- Institute for Neuroscience and Medicine, Julich, Germany
- National Research Council, Ottawa
- Compute Canada and CLUMEQ

What is GBRAIN?

GBRAIN leverages the CANARIE high-speed network and CANARIE project funding to create an international network of brain imaging centres, including sites in Europe, Canada, the USA and Korea. This project incorporates high-bandwidth connectivity to allow real-time, joint intercontinental exploration of large individual brain imaging datasets that enable researchers to accelerate our knowledge of brain development, deterioration and disease.

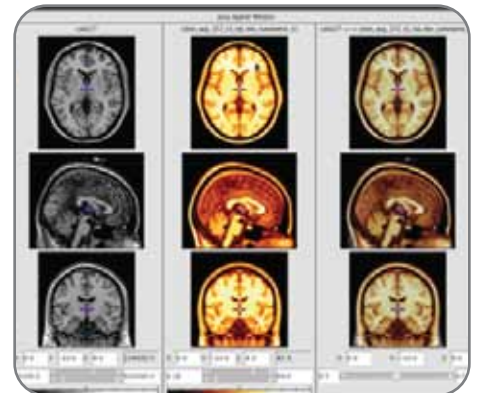
Through GBRAIN, Canada takes another step to remain in the forefront of brain imaging science and technology innovation. The collaboration with foreign researchers and datasets results in improved medical research efficiency that will ultimately improve quality of life, as breakthroughs in brain research lead to improved diagnoses and treatments.

Value to Research and to Canada:

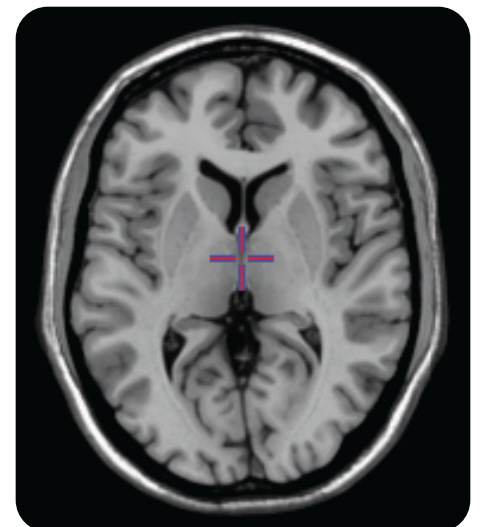
- Through GBRAIN Canada remains one of the major global players in brain imaging research
- Improves our understanding of brain function and our ability to diagnose and treat brain disease
- Access to more data results in improved medical research efficiency that accelerates discovery and can lead to breakthrough treatments that improve quality of life for millions

Did you know?

GBRAIN is partnering with US and European brain imaging centres to create outGRID, a global network of research platforms being funded by the 7th framework of the European Commission.



Different forms of brain imagery



Brain Magnetic Resonance Image shows detailed internal structures.

Find out more: www.CANARIE.ca/en/programs