



neuro C-BIG
repository

Centre universitaire
de santé McGill



McGill University
Health Centre

¹ C-BIGR, Montreal Neurological Institute, McGill University, Montreal, QC

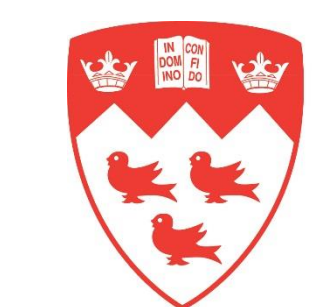
² Department of Neuropathology, Montreal Neurological Institute, McGill University, Montreal, QC



CANADIAN TISSUE
REPOSITORY NETWORK
RÉSEAU CANADIEN DE
BANQUES DE TISSUS



Institut et hôpital neurologiques de Montréal
Montreal Neurological Institute and Hospital



McGill

INTRODUCTION

Accelerating Translational Research on Neurological Diseases:

The Neuro's C-BIG Repository is a collection of biological samples, clinical information, imaging, and genetic data from patients with neurological disease as well as from healthy control subjects. This platform was created to allow patients to actively participate in advancing our understanding of the diseases affecting them, and reflects the vision of Dr. Penfield when he founded The Neuro. C-BIG will empower researchers to develop insights into the biology underlying neurological disease, and facilitate the development of new treatments for patients with neurological diseases.

Data and samples at C-BIG Repository will be made available to research teams with scientifically and ethically valid proposals around the world, congruent with Open Science principles.

BIOREPOSITORY

Our Repository consists of samples from donors suffering from various neurological conditions including but not limited to:

- ✓ Parkinson's Disease (PD)
- ✓ Amyotrophic Lateral Sclerosis (ALS)
- ✓ Multiple Sclerosis (MS)
- ✓ Myopathy
- ✓ Healthy Controls and more

The neuro already has key metrics to make this collection unique:

- ❖ SOP driven industry trained expert tissue processing team
- ❖ TissueMatrix, LIMS for sample storage, tracking and chain of custody
- ❖ Excellence in neuroimaging, Brain Imaging Center (BIC)
- ❖ Clinical and Translational research activities (MUHC/ MNI / McGill)
- ❖ Patients and Healthy Control Participants

SPECIMEN COLLECTED and ISOLATED

Whole blood

- ❖ PBMC
- ❖ Serum
- ❖ Plasma
- ❖ DNA
- ❖ RNA

Saliva

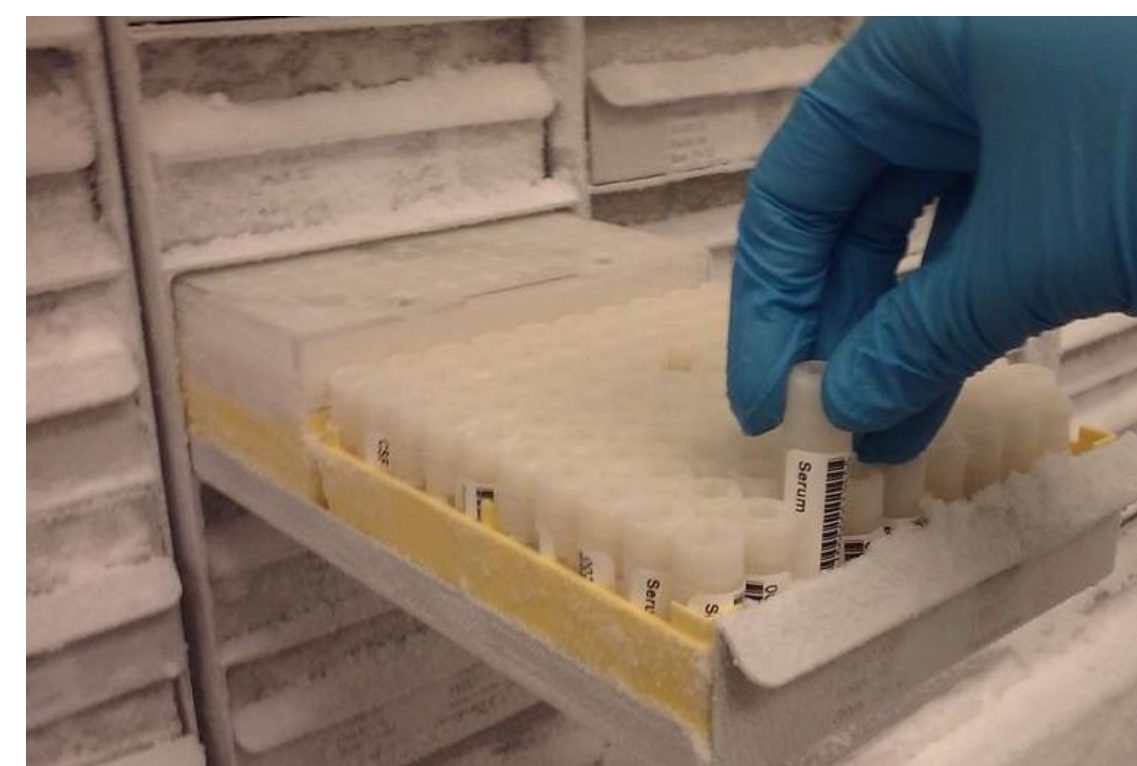
- ❖ DNA

Cerebrospinal fluid (CSF)

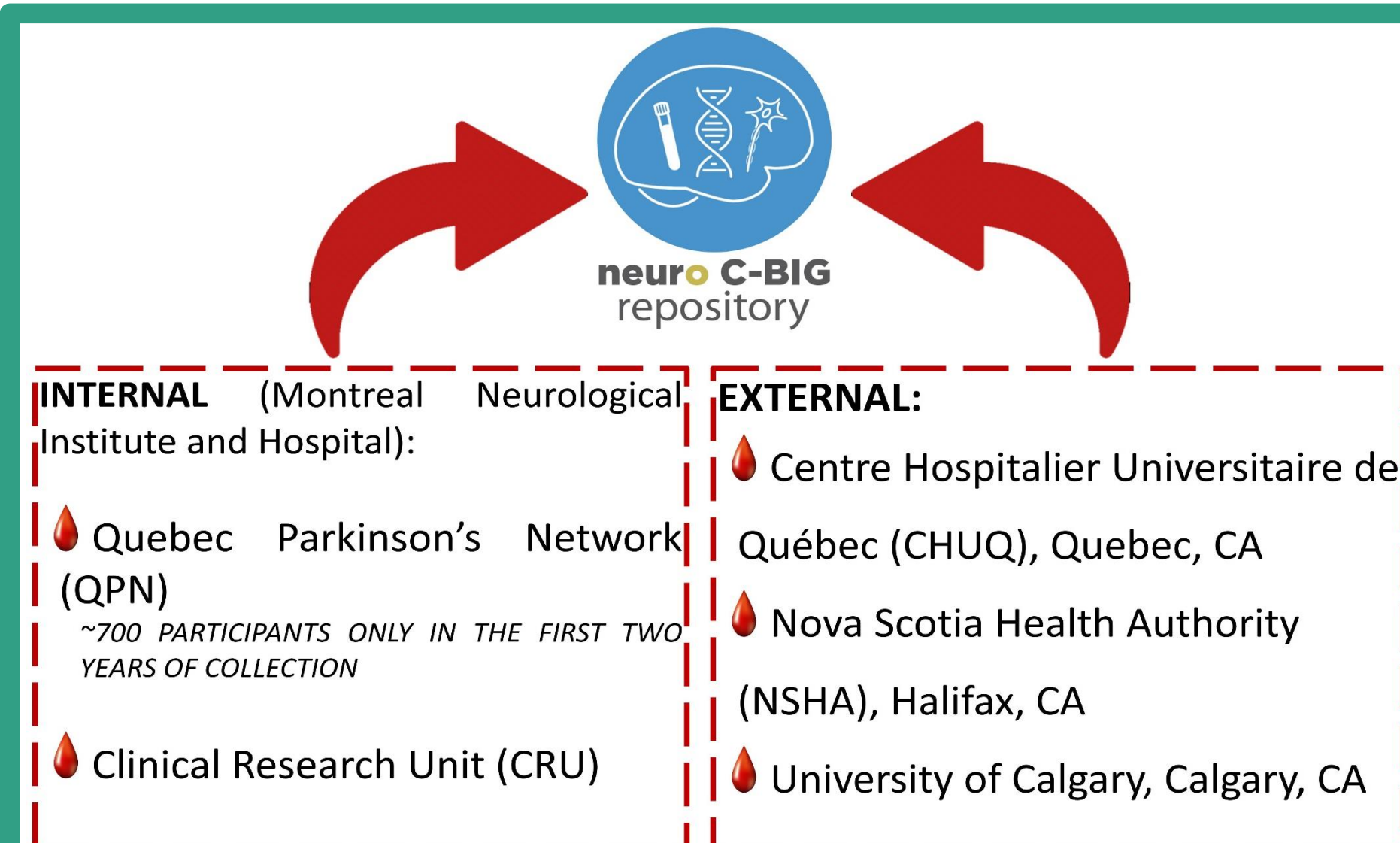
- ❖ Cells
- ❖ Supernatant

Biopsy

- ❖ Skin tissue (fibroblasts)
- ❖ Muscle tissue



COLLECTION SITES



PROJECTS

CURRENT:

- ❖ Collaboration with iPSC group at MNI
- ❖ Merck & Co. Pharmaceutical Company
- ❖ Takeda Pharmaceutical Company

FUTURE:

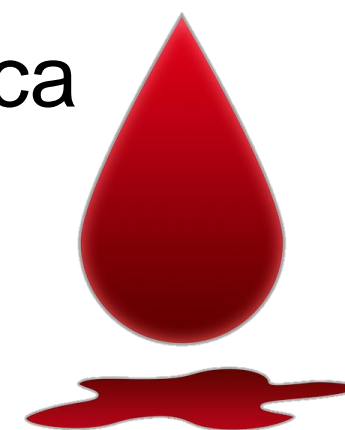
- ❖ Douglas Mental Health University Institute
- ❖ Centre Hospitalier Universitaire (CHU) Ste-Justine
- ❖ Canadian Open Parkinson Network (C-OPN)

WANT TO DONATE?

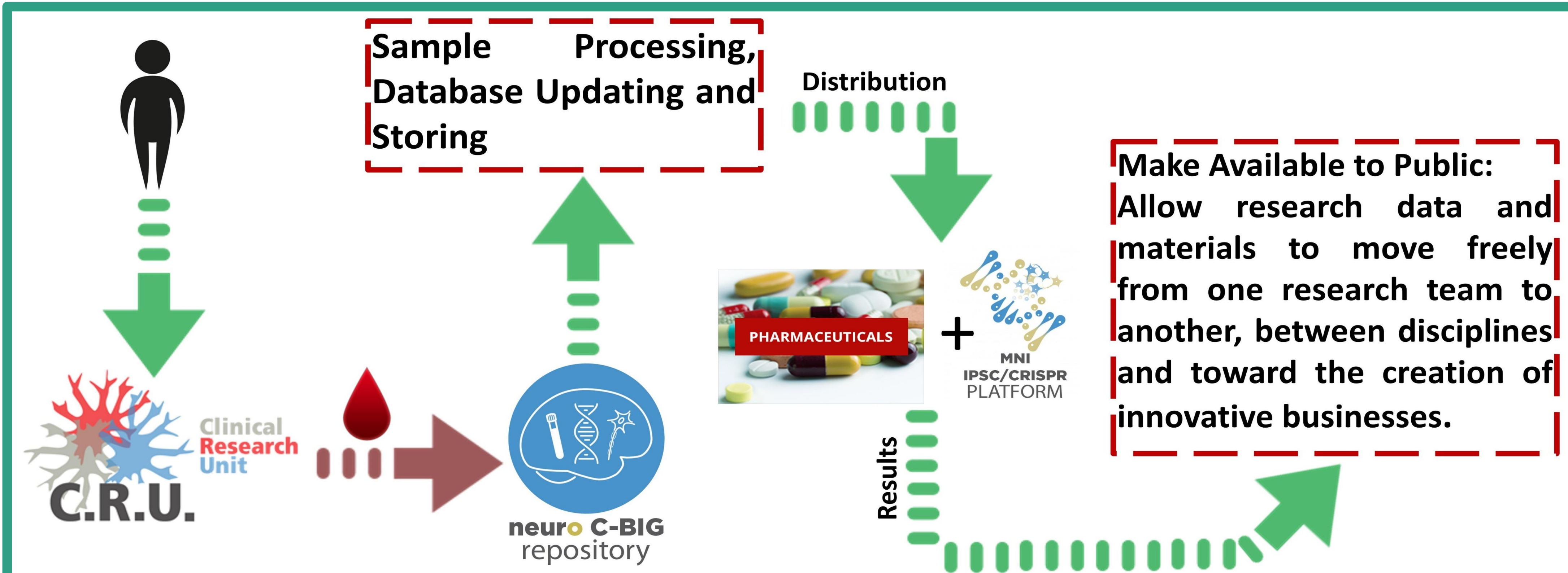
We encourage everyone to join in on our mission of accelerating research on neurodegenerative diseases by participating in our healthy control sample collection. Donate blood and help us on our journey to an innovative research approach for better understanding of the human brain diseases.

Send us an email or give us a call for more information:

cbig.mni@mcgill.ca
(514) 398-8439
(514) 398-8899



C-BIG IS PART OF OPEN SCIENCE PROGRAM



CORE FACILITY

C-BIG Repository at the MNI offers fee-for-service access to our core facility:

EQUIPMENT:

- ❖ Perkin Elmer Victor 3 Multilabel Reader
- ❖ Luminex 100 Multiplex Plate Reader
- ❖ Molecular Devices ImageXpress
- ❖ NanoDrop Spectrophotometer
- ❖ Perkin Elmer EnSpire Multimode Plate Reader
- ❖ Cellular Technology Limited ImmunoSpot, The ELISPOT
- ❖ Z Series Coulter Counter

SERVICES:

- ❖ Consultation on sample processing
- ❖ Training on how to organize your storage facility
- ❖ Training on TissueMatrix, database software (LIMS)
- ❖ SOP consultation
- ❖ Maintenance of equipment offered

TISSUE TRANSLATIONAL PLATFORM

Under the supervision of Dr. Jason Karamchandani, CBIG now oversees a core facility specialized for histology related studies.

This recently established facility houses many essential instruments for histological studies and there are many that are to be purchased for the platform such as:

- ❖ 2 types of Microtomes
- ❖ Cryostat
- ❖ Embedding Machine
- ❖ Tissue Processor
- ❖ Staining station
- ❖ Slide Labeler
- ❖ Cover-slipping machine
- ❖ And more

For more info visit our website or send us an email at <https://mcgill.ca/ttp/> ttp.mni@mcgill.ca



OTHER SERVICES

PERSONALIZED COLLECTION

Upon request, you can have your own collection dedicated to only your research group. We will collect, process and store them for you until you need them.

MOVE FAST WITH YOUR RESEARCH

Request multiple samples at once, making optimal use of your reagents and kits. Make your experiments time and cost efficient.

STAY FOCUSED

Don't worry about isolating your material of interest from whole blood, CSF, etc. Tell us what you are looking for and we will isolate it for you.

STORAGE RENTAL

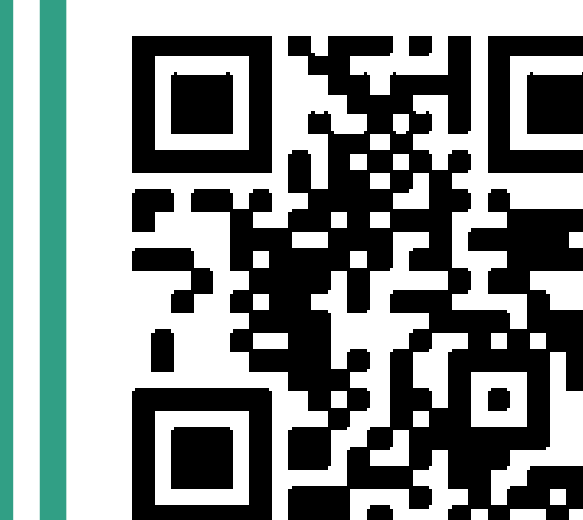
Give us the information regarding your sample vials, we will give it a barcode and store it for you in one of our backed up freezers or cryo tanks. Our storage facility is continuously monitored even during holidays thus making it possible for us to securely store your precious samples.

CONTACT US

GIVE US A CALL

Phone: (514) 398-8439
(514) 398-8899

Monday to Friday: 7:30 -16:00



Visit our website:

<https://mcgill.ca/c-bigneuro>



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You can find a copy of this poster here:

