

Resource Summary Report

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McConnell Brain Imaging Center

RRID:SCR_008364

Type: Tool

Proper Citation

McConnell Brain Imaging Center (RRID:SCR_008364)

Resource Information

URL: <http://www.bic.mni.mcgill.ca/>

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Description: Center dedicated to understanding and treatment of neurological diseases by creating and using imaging methods to study human nervous system. Dedicated to research imaging of human brain. Brain structure is imaged using anatomical Magnetic Resonance Imaging (aMRI) while brain physiology is imaged using Positron Emission Tomography (PET), Magnetic Resonance Spectroscopy (MRS), functional MRI (fMRI) and magnetoencephalography (MEG). BIC maintains linkages with clinical, clinical research and basic research communities within Montreal Neurological Institute (MNI), McGill University and has collaborations across Quebec, Canada, USA and internationally.

Abbreviations: BIC

Synonyms: McConnell Brain Imaging Center, McConnell Brain Imaging Centre, BIC

Resource Type: data or information resource, organization portal, portal

Keywords: emission, engineering, environment, fmri, functional mri, 3-dimensional, amri, anatomical, biomedical, brain, chemistry, clinical, computational, computer science, disease, disorder, human, imaging, magnetic, magnetoencephalography, medical, mri, mrs, nervous system, neurological, neurology, neuroscience, neurosurgery, pet, physics, physiology, positron, psychiatric, psychology, research, resonance, scanner, software, spectroscopy, spectrum, technology, tomography, treatment, neuroimaging, meg, atlas, database, data visualization software, data analysis software, data processing software

Funding: McConnell Family Foundation

Resource Name: McConnell Brain Imaging Center

Resource ID: SCR_008364

Alternate IDs: nif-0000-25551

Alternate URLs: <https://www.mcgill.ca/bic/resources/brain-atlases/ovine-brain-atlas>,
<https://www.mcgill.ca/bic/resources/brain-atlases/human>,
<https://www.mcgill.ca/bic/resources/brain-atlases/non-human-primate>

Record Creation Time: 20220129T080247+0000

Record Last Update: 20260729T044219+0000

Ratings and Alerts

No rating or validation information has been found for McConnell Brain Imaging Center.

No alerts have been found for McConnell Brain Imaging Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 129 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Zhu Q, et al. (2025) 7 Tesla multimodal MRI dataset of ex-vivo human brain. Scientific data, 12(1), 845.

Mosharov EV, et al. (2024) A Human Brain Map of Mitochondrial Respiratory Capacity and Diversity. bioRxiv : the preprint server for biology.

Chou T, et al. (2023) The default mode network and rumination in individuals at risk for depression. Social cognitive and affective neuroscience, 18(1).

Tanno Y, et al. (2023) Periictal water drinking revisited: Occurrence and lateralizing value in surgically confirmed patients with focal epilepsy. Epilepsia open, 8(1), 173.

Forkel SJ, et al. (2022) Stroke disconnectome decodes reading networks. Brain structure & function, 227(9), 2897.

Mackes NK, et al. (2022) A Prospective Study of the Impact of Severe Childhood Deprivation on Brain White Matter in Adult Adoptees: Widespread Localized Reductions in Volume But Unaffected Microstructural Organization. eNeuro, 9(6).

Migó M, et al. (2022) Dimensional Affective Processing in BD. Psychiatry research, 307, 114304.

Jacob MS, et al. (2021) Aperiodic measures of neural excitability are associated with anticorrelated hemodynamic networks at rest: A combined EEG-fMRI study. NeuroImage,

245, 118705.

Pijnenburg R, et al. (2021) Myelo- and cytoarchitectonic microstructural and functional human cortical atlases reconstructed in common MRI space. *NeuroImage*, 239, 118274.

Huang HC, et al. (2021) Gait-Related Brain Activation During Motor Imagery of Complex and Simple Ambulation in Parkinson's Disease With Freezing of Gait. *Frontiers in aging neuroscience*, 13, 731332.

Thiebaut de Schotten M, et al. (2020) Brain disconnections link structural connectivity with function and behaviour. *Nature communications*, 11(1), 5094.

Wang Q, et al. (2019) EECog-Comp: An Open Source Platform for Concurrent EEG/EECoG Comparisons-Applications to Connectivity Studies. *Brain topography*, 32(4), 550.

Jacob MS, et al. (2019) Aberrant activity in conceptual networks underlies N400 deficits and unusual thoughts in schizophrenia. *NeuroImage. Clinical*, 24, 101960.

Patterson L, et al. (2019) Neuropathological Changes in Dementia With Lewy Bodies and the Cingulate Island Sign. *Journal of neuropathology and experimental neurology*, 78(8), 717.

Mottaz A, et al. (2018) Modulating functional connectivity after stroke with neurofeedback: Effect on motor deficits in a controlled cross-over study. *NeuroImage. Clinical*, 20, 336.

Ferguson B, et al. (2018) Detailed T1-Weighted Profiles from the Human Cortex Measured in Vivo at 3 Tesla MRI. *Neuroinformatics*, 16(2), 181.

Rudolf S, et al. (2018) Neural Mechanisms Underlying Individual Differences in Control-Averse Behavior. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(22), 5196.

Lewis GJ, et al. (2018) Widespread associations between trait conscientiousness and thickness of brain cortical regions. *NeuroImage*, 176, 22.

Maldonado M, et al. (2018) The habenula as a novel link between the homeostatic and hedonic pathways in cancer-associated weight loss: a pilot study. *Journal of cachexia, sarcopenia and muscle*, 9(3), 497.

Phan TV, et al. (2018) Evaluation of methods for volumetric analysis of pediatric brain data: The childmetrix pipeline versus adult-based approaches. *NeuroImage. Clinical*, 19, 734.