Resource Summary Report

Generated by NIF on May 7, 2025

Johns Hopkins Laboratory of Brain Anatomical MRI

RRID:SCR_005280
Type: Tool

Proper Citation

Johns Hopkins Laboratory of Brain Anatomical MRI (RRID:SCR_005280)

Resource Information

URL: http://cmrm.med.jhmi.edu/

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Description: The goal of our laboratory is to develop new MR technologies to improve the resolution and contrast of MRI and apply them to observe brain anatomy to answer various types of biological questions. Currently we have three major research targets: Characterization of mouse brain development; Human white matter anatomy and development; and Development of diffusion tensor imaging technique and technology dissemination. The DTI database (Under the DTI Download Tab) contains raw and processed DTI data of normal population. Currently we have 2.5 mm isotropic resolution images and 2.2 mm isotropic resolution images. Only 2.5 mm data are available from this site. If you are interested in the high-resolution images, please contact susumu @ mri.jhu.edu. This database is open to public once the user is registered. Basic imaging parameters can be also downloaded.

Abbreviations: Laboratory of Brain Anatomical MRI

Synonyms: Johns Hopkins Medical Institute Laboratory of Brain Anatomical MRI

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

Keywords: magnetic resonance imaging, brain, image, human, mouse, diffusion tensor imaging, white matter, brain development, monkey, pediatric, neonate, atlas, template, software, FASEB list

Funding:

Resource Name: Johns Hopkins Laboratory of Brain Anatomical MRI

Resource ID: SCR_005280

Alternate IDs: nlx_144314

Record Creation Time: 20220129T080229+0000

Record Last Update: 20250507T060308+0000

Ratings and Alerts

No rating or validation information has been found for Johns Hopkins Laboratory of Brain Anatomical MRI.

No alerts have been found for Johns Hopkins Laboratory of Brain Anatomical MRI.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 97 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Tabata K, et al. (2024) Association of homocysteine with white matter dysconnectivity in schizophrenia. Schizophrenia (Heidelberg, Germany), 10(1), 39.

Ma X, et al. (2024) Development and advancements in rodent MRI-based brain atlases. Heliyon, 10(6), e27421.

Köhler C, et al. (2024) Atlas-based assessment of hypomyelination: Quantitative MRI in Pelizaeus-Merzbacher disease. Human brain mapping, 45(13), e70014.

Taoka T, et al. (2024) Diffusion Tensor Image Analysis ALong the Perivascular Space (DTI-ALPS): Revisiting the Meaning and Significance of the Method. Magnetic resonance in medical sciences : MRMS : an official journal of Japan Society of Magnetic Resonance in Medicine, 23(3), 268.

Ma R, et al. (2023) White matter abnormalities are associated with the declined ability of reasoning and problem-solving in major depressive disorder. Brain and behavior, 13(7), e3047.

Failla A, et al. (2022) The relationship between interhemispheric synchrony, morphine and microstructural development of the corpus callosum in extremely preterm infants. Human brain mapping, 43(16), 4914.

He C, et al. (2022) Evaluation of White Matter Microstructural Alterations in Patients with Post-Stroke Cognitive Impairment at the Sub-Acute Stage. Neuropsychiatric disease and treatment, 18, 563.

Zhao X, et al. (2021) Brain Development From Newborn to Adolescence: Evaluation by Neurite Orientation Dispersion and Density Imaging. Frontiers in human neuroscience, 15, 616132.

Dolatshahi M, et al. (2021) White matter changes in drug-naïve Parkinson's disease patients with impulse control & probable REM sleep behavior disorders. Journal of the neurological sciences, 430, 120032.

Mendez Colmenares A, et al. (2021) White matter plasticity in healthy older adults: The effects of aerobic exercise. NeuroImage, 239, 118305.

Ma J, et al. (2020) Changes in Empathy in Patients With Chronic Low Back Pain: A Structural-Functional Magnetic Resonance Imaging Study. Frontiers in human neuroscience, 14, 326.

Kamali A, et al. (2020) Uncovering the Dorsal Thalamo-hypothalamic Tract of the Human Limbic System. Neuroscience, 432, 55.

Suarez A, et al. (2020) Influence of age, lesion volume, and damage to dorsal versus ventral streams to viewer- and stimulus-centered hemispatial neglect in acute right hemisphere stroke. Cortex; a journal devoted to the study of the nervous system and behavior, 126, 73.

Kamali A, et al. (2020) A direct visuosensory cortical connectivity of the human limbic system. Dissecting the trajectory of the parieto-occipito-hypothalamic tract in the human brain using diffusion weighted tractography. Neuroscience letters, 728, 134955.

Strömmer JM, et al. (2020) Physical Activity Predicts Population-Level Age-Related Differences in Frontal White Matter. The journals of gerontology. Series A, Biological sciences and medical sciences, 75(2), 236.

Barahona-Corrêa JB, et al. (2020) Right-sided brain lesions predominate among patients with lesional mania: evidence from a systematic review and pooled lesion analysis. Translational psychiatry, 10(1), 139.

Liu D, et al. (2020) Alterations of white matter integrity associated with cognitive deficits in patients with glioma. Brain and behavior, 10(7), e01639.

Sun J, et al. (2020) APOE ?4 allele accelerates age-related multi-cognitive decline and white matter damage in non-demented elderly. Aging, 12(12), 12019.

Chen Y, et al. (2019) The positive impacts of early-life education on cognition, leisure activity, and brain structure in healthy aging. Aging, 11(14), 4923.

Zhu H, et al. (2019) Basal Ganglia-Cortical Circuit Disruption in Subcortical Silent Lacunar Infarcts. Frontiers in neurology, 10, 660.