Resource Summary Report

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BrainMaps.org

RRID:SCR_006878 Type: Tool

Proper Citation

BrainMaps.org (RRID:SCR_006878)

Resource Information

URL: http://brainmaps.org

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Description: An interactive multiresolution brain atlas that is based on over 20 million megapixels of sub-micron resolution, annotated, scanned images of serial sections of both primate and non-primate brains and integrated with a high-speed database for querying and retrieving data about brain structure and function. Currently featured are complete brain atlas datasets for various species, including Macaca mulatta, Chlorocebus aethiops, Felis catus, Mus musculus, Rattus norvegicus, Tyto alba and many other vertebrates. BrainMaps is currently accepting histochemical, immunocytochemical, and tracer connectivity data, preferably whole-brain. In addition, they are interested in EM, MRI, and DTI data.

Abbreviations: BrainMaps

Synonyms: BrainMaps: An Interactive Multiresolution Brain Atlas, BrainMaps.org: High Resolution Brain Atlases, BrainMaps

Resource Type: service resource, data or information resource, storage service resource, data repository, image repository, atlas

Defining Citation: PMID:17229579

Keywords: aves, brain connection, callicebus moloch, c. auratus, connectivity, monodelphis, o. anatinus, tachyglossidae, brain mapping, virtual microscopy, brain atlas, non-primate, nissl stain, nissl, parvalbumin, smi-32, acetylcholinesterase, luxol fast blue, calbindin, myelin, neuroanatomy, image, brain structure, brain function, database, serial section, brain, tract tracing, coronal, horizontal, sagittal, web service, gene, FASEB list

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NIMH R01 MH77556

Availability: Acknowledgement requested

Resource Name: BrainMaps.org

Resource ID: SCR_006878

Alternate IDs: nif-0000-00093

Alternate URLs: http://www.nitrc.org/projects/brainmaps

Record Creation Time: 20220129T080238+0000

Record Last Update: 20250429T055124+0000

Ratings and Alerts

No rating or validation information has been found for BrainMaps.org.

No alerts have been found for BrainMaps.org.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 73 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Adusei M, et al. (2024) Parallel Streams of Direct Corticogeniculate Feedback from Mid-level Extrastriate Cortex in the Macaque Monkey. eNeuro, 11(3).

Coates A, et al. (2024) High-resolution dataset of manual claustrum segmentation. Data in brief, 54, 110253.

Ping A, et al. (2024) Brainwide mesoscale functional networks revealed by focal infrared neural stimulation of the amygdala. bioRxiv : the preprint server for biology.

Heuer K, et al. (2023) Diversity and evolution of cerebellar folding in mammals. eLife, 12.

Haines E, et al. (2023) Clade-specific forebrain cytoarchitectures of the extinct Tasmanian tiger. Proceedings of the National Academy of Sciences of the United States of America, 120(32), e2306516120.

Mishra A, et al. (2023) Disrupting nociceptive information processing flow through transcranial focused ultrasound neuromodulation of thalamic nuclei. Brain stimulation, 16(5), 1430.

Pastor-Bernier A, et al. (2023) Studying neural responses for multi-component economic choices in human and non-human primates using concept-based behavioral choice experiments. STAR protocols, 4(2), 102296.

Wei J, et al. (2023) Spatiotemporal proteomic atlas of multiple brain regions across early fetal to neonatal stages in cynomolgus monkey. Nature communications, 14(1), 3917.

de Sousa AA, et al. (2023) From fossils to mind. Communications biology, 6(1), 636.

Wilson KM, et al. (2022) Neural responses to pup calls and pup odors in California mouse fathers and virgin males. Behavioural brain research, 434, 114024.

Salinas AG, et al. (2021) Long-term alcohol consumption alters dorsal striatal dopamine release and regulation by D2 dopamine receptors in rhesus macaques. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 46(8), 1432.

Hasan MF, et al. (2021) Neuron and astrocyte aggregation and sorting in three-dimensional neuronal constructs. Communications biology, 4(1), 587.

Franchini LF, et al. (2021) Genetic Mechanisms Underlying Cortical Evolution in Mammals. Frontiers in cell and developmental biology, 9, 591017.

Muñoz-Castañeda R, et al. (2021) Cellular anatomy of the mouse primary motor cortex. Nature, 598(7879), 159.

Haddad A, et al. (2021) Reduced neuronal population in the dorsolateral prefrontal cortex in infant macaques infected with simian immunodeficiency virus (SIV). Journal of neurovirology, 27(6), 923.

Jiang X, et al. (2021) Fundamental functional differences between gyri and sulci: implications for brain function, cognition, and behavior. Psychoradiology, 1(1), 23.

Rumpler É, et al. (2020) Kisspeptin Neurons in the Infundibular Nucleus of Ovariectomized Cats and Dogs Exhibit Unique Anatomical and Neurochemical Characteristics. Frontiers in neuroscience, 14, 598707.

Andersson M, et al. (2020) Axon morphology is modulated by the local environment and impacts the noninvasive investigation of its structure-function relationship. Proceedings of the National Academy of Sciences of the United States of America, 117(52), 33649.

Fan Y, et al. (2020) Transcriptomic analysis reveals gender differences in gene expression profiling of the hypothalamus of rhesus macaque with aging. Aging, 12(18), 18251.

Xu K, et al. (2020) CircGRIA1 shows an age-related increase in male macaque brain and

regulates synaptic plasticity and synaptogenesis. Nature communications, 11(1), 3594.