

Resource Summary Report

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Whole Brain Atlas

RRID:SCR_005390

Type: Tool

Proper Citation

Whole Brain Atlas (RRID:SCR_005390)

Resource Information

URL: <http://www.med.harvard.edu/AANLIB/>

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Description: An atlas of normal and abnormal brain images intended as an introduction to basic neuroanatomy, with emphasis on the pathoanatomy of several leading central nervous system diseases that integrates clinical information with magnetic resonance (MR), x-ray computed tomography (CT), and nuclear medicine images. A range of brain abnormalities are presented including examples of certain brain disease presented with various combinations of image type and imaging frequency. Submissions of concise, exemplary, clinically driven examples of neuroimaging are welcome.

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

Keywords: atlas, brain, human, abnormal brain image, neuroanatomy, imaging

Related Condition: Inflammatory disease, Infectious disease, Degenerative disease, Neoplastic disease, Brain tumor, Cerebrovascular disease, Stroke

Funding: American Academy of Neurology ;
Brigham and Womens Hospital; Massachusetts; USA ;
Departments of Radiology and Neurology ;
Countway Library of Medicine

Availability: Copyrighted, Acknowledgement required, Non-commercial, The community can contribute to this resource

Resource Name: Whole Brain Atlas

Resource ID: SCR_005390

Alternate IDs: nif-0000-00079

Record Creation Time: 20220129T080230+0000

Record Last Update: 20250423T060232+0000

Ratings and Alerts

No rating or validation information has been found for Whole Brain Atlas.

No alerts have been found for Whole Brain Atlas.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Kamireddy RR, et al. (2024) Brain MRI detection and classification: Harnessing convolutional neural networks and multi-level thresholding. PloS one, 19(8), e0306492.

Liang N, et al. (2024) Medical image fusion with deep neural networks. Scientific reports, 14(1), 7972.

Powers JM, et al. (2024) Pain is what you think: functional magnetic resonance imaging evidence toward a cognitive and affective approach for pain research. Frontiers in pain research (Lausanne, Switzerland), 5, 1388460.

Dida H, et al. (2022) Image registration of computed tomography of lung infected with COVID-19 using an improved sine cosine algorithm. Medical & biological engineering & computing, 60(9), 2521.

Lou XC, et al. (2021) Multimodal Medical Image Fusion Based on Multiple Latent Low-Rank Representation. Computational and mathematical methods in medicine, 2021, 1544955.

Ghouschi SJ, et al. (2021) An Extended Approach to Predict Retinopathy in Diabetic Patients Using the Genetic Algorithm and Fuzzy C-Means. BioMed research international, 2021, 5597222.

Xiao Y, et al. (2021) TReC: Transferred ResNet and CBAM for Detecting Brain Diseases.

Frontiers in neuroinformatics, 15, 781551.

Stroman PW, et al. (2021) Investigation of the neural basis of expectation-based analgesia in the human brainstem and spinal cord by means of functional magnetic resonance imaging. *Neurobiology of pain* (Cambridge, Mass.), 10, 100068.

Hoz SS, et al. (2021) The most recommended neuroanatomy resources for neurosurgeons: an international survey. *Surgical neurology international*, 12, 11.

Hamzenejad A, et al. (2021) Clustering of Brain Tumor Based on Analysis of MRI Images Using Robust Principal Component Analysis (ROBPCA) Algorithm. *BioMed research international*, 2021, 5516819.

Ding Z, et al. (2020) Brain Medical Image Fusion Based on Dual-Branch CNNs in NSST Domain. *BioMed research international*, 2020, 6265708.

Xu Z, et al. (2020) LatLRR-FCNs: Latent Low-Rank Representation With Fully Convolutional Networks for Medical Image Fusion. *Frontiers in neuroscience*, 14, 615435.

Kuriakose D, et al. (2020) Pathophysiology and Treatment of Stroke: Present Status and Future Perspectives. *International journal of molecular sciences*, 21(20).

Chen L, et al. (2020) An event based topic learning pipeline for neuroimaging literature mining. *Brain informatics*, 7(1), 18.

Huang C, et al. (2019) A New Pulse Coupled Neural Network (PCNN) for Brain Medical Image Fusion Empowered by Shuffled Frog Leaping Algorithm. *Frontiers in neuroscience*, 13, 210.

Wang C, et al. (2018) The same modality medical image registration with large deformation and clinical application based on adaptive diffeomorphic multi-resolution demons. *BMC medical imaging*, 18(1), 21.

Qiu C, et al. (2017) Image Fusion of CT and MR with Sparse Representation in NSST Domain. *Computational and mathematical methods in medicine*, 2017, 9308745.

Zhang Y, et al. (2013) An MR brain images classifier system via particle swarm optimization and kernel support vector machine. *TheScientificWorldJournal*, 2013, 130134.

Fang Y, et al. (2010) Estimating view parameters from random projections for Tomography using spherical MDS. *BMC medical imaging*, 10, 12.

Labriole M, et al. (2010) Promoting brain-science literacy in the k-12 classroom. *Cerebrum : the Dana forum on brain science*, 2010, 15.