

Resource Summary Report

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University of Washington Integrated Brain Project

RRID:SCR_008075

Type: Tool

Proper Citation

University of Washington Integrated Brain Project (RRID:SCR_008075)

Resource Information

URL: <http://sig.biostr.washington.edu/projects/brain/>

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Description: The UW Integrated Brain Project is one project within the national Human Brain Project, a national multi-agency effort to develop informatics tools for managing the exploding amount of information that is accumulating about the human brain. The objective of the UW Integrated Brain Project effort is to organize and integrate distributed functional information about the brain around the structural information framework that is the long term goal of our work. This application therefore extends the utility of the Digital Anatomist Project by using it to organize non-structural information. The initial driving neuroscience problem that is being addressed is the management, visualization and analysis of cortical language mapping data. In recent years, advances in imaging technology such as PET and functional MRI have allowed researchers to observe areas of the cortex that are activated when the subject performs language tasks. These advances have greatly accelerated the amount of data available about human language, but have also emphasized the need to organize and integrate the sometimes contradictory sources of data, in order to develop theories about language organization. The hypothesis is that neuroanatomy is the common substrate on which the diverse kinds of data can be integrated. A result of the work done by this project is a set of software tools for generating a 3-D reconstruction of the patient's own brain from MRI, for mapping functional data to this reconstruction, for normalizing individual anatomy by warping to a canonical brain atlas and by annotating data with terms from an anatomy ontology, for managing individual lab data in local laboratory information systems, for integrating and querying data across separate data management systems, and for visualizing the integrated results. Sponsors: This Human Brain Project research is funded jointly by the National Institute on Deafness and Other Communication Disorders, the National Institute of Mental Health, and the National Institute on Aging.

Synonyms: UW Brain Project

Resource Type: ontology, controlled vocabulary, data or information resource, software resource

Keywords: functional mri, anatomy, brain, imaging, neuroanatomy, neuroscience, open source license, pet, technology

Related Condition: Aging

Resource Name: University of Washington Integrated Brain Project

Resource ID: SCR_008075

Alternate IDs: nif-0000-10536

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260801T042637+0000

Ratings and Alerts

No rating or validation information has been found for University of Washington Integrated Brain Project.

No alerts have been found for University of Washington Integrated Brain Project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Detwiler LT, et al. (2009) Distributed XQuery-Based Integration and Visualization of Multimodality Brain Mapping Data. Frontiers in neuroinformatics, 3, 2.