

Resource Summary Report

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Probabilistic atlas of the human cerebellum

RRID:SCR_008797

Type: Tool

Proper Citation

Probabilistic atlas of the human cerebellum (RRID:SCR_008797)

Resource Information

URL: <http://www.icn.ucl.ac.uk/motorcontrol/imaging/propatlas.htm>

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Description: A probabilistic atlas of the cerebellar lobules in the space defined by the MNI152 template. The anatomical definitions are based on the fMRI atlas of an individual cerebellum by Schmahmann et al. (2000). To obtain a representative anatomical atlas, we separately masked the lobules on T1-weighted MRI scans (1mm isotropic resolution) of 20 healthy young participants (10 male, 10 female, average age 23.7 yrs). Using a different set of 23 participants, we also masked the deep cerebellar nuclei. These cerebella were then aligned using different commonly used normalization algorithms. The resultant probabilistic maps allow for the valid assignment of functional activations to specific cerebellar lobules and the nuclei, while providing a quantitative measure of the certainty of such assignments. Furthermore, maximum probability maps derived from these atlases can be used to define regions of interest (ROIs) in functional neuroimaging and neuroanatomical research. The atlas is included in the newer releases of FSL and the Anatomy toolbox. More version of the atlases for use with MRICroN are also available.

Abbreviations: Probabilistic Cerebellar Atlas

Resource Type: atlas, data or information resource

Defining Citation: [PMID:19457380](#)

Keywords: adult, early adult, cerebellum, functional magnetic resonance imaging

Funding: NSF BSC 0726685

Resource Name: Probabilistic atlas of the human cerebellum

Resource ID: SCR_008797

Alternate IDs: nlx_144298

Record Creation Time: 20220129T080249+0000

Record Last Update: 20260905T133154+0000

Ratings and Alerts

No rating or validation information has been found for Probabilistic atlas of the human cerebellum.

No alerts have been found for Probabilistic atlas of the human cerebellum.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Riedel MC, et al. (2015) Meta-analytic connectivity and behavioral parcellation of the human cerebellum. *NeuroImage*, 117, 327.

Tan RH, et al. (2015) Terra incognita-cerebellar contributions to neuropsychiatric and cognitive dysfunction in behavioral variant frontotemporal dementia. *Frontiers in aging neuroscience*, 7, 121.

Tan RH, et al. (2014) Cerebellar integrity in the amyotrophic lateral sclerosis-frontotemporal dementia continuum. *PloS one*, 9(8), e105632.