

Resource Summary Report

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cortex

RRID:SCR_002467

Type: Tool

Proper Citation

cortex (RRID:SCR_002467)

Resource Information

URL: <https://sites.google.com/a/brain.org.au/ctp/>

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Description: Software package with functions that will help researchers plan how many subjects per group need to be included in an MRI-based cortical thickness study to ensure a thickness difference is detected. The package requires cortical thickness mapping and co-registration to be carried out using Freesurfer. The power analyses are implemented in the R software package., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Abbreviations: cortex

Synonyms: Sample Size Estimates for Well-Powered Cross-Sectional Cortical Thickness Studies

Resource Type: software application, software resource

Defining Citation: [PMID:22807270](#)

Keywords: clinical neuroinformatics, mgh/mgz, magnetic resonance, r, surface analysis, thickness, mri, cortical thickness, morphometry, neuroimaging, power analysis, study design, bio.tools

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: cortex

Resource ID: SCR_002467

Alternate IDs: nlx_155842, biotools:cortex

Alternate URLs: <http://brain.org.au/software/cortex/power>, <http://www.nitrc.org/projects/cortex>, <https://bio.tools/cortex>

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260727T040314+0000

Ratings and Alerts

No rating or validation information has been found for cortex.

No alerts have been found for cortex.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 374 mentions in open access literature.

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

Hahner L, et al. (2025) Volitional spatial attention is lateralized in crows. *Proceedings. Biological sciences*, 292(2039), 20242540.

Wigman JTW, et al. (2025) Digital health technologies in the accelerating medicines Partnership® Schizophrenia Program. *Schizophrenia (Heidelberg, Germany)*, 11(1), 83.

Liu Y, et al. (2025) Predicting the potential habitats of two *Lycium* species and the quality suitability of *Lycium chinense* Mill. *Cortex under climate change. BMC ecology and evolution*, 25(1), 74.

Shaw L, et al. (2025) Projection-Specific Intersectional Optogenetics for Precise Excitation and Inhibition in the Marmoset Brain. *bioRxiv : the preprint server for biology*.

Xu Y, et al. (2025) Four-week heat acclimation lowers carbohydrate oxidation of trained runners during submaximal exercise in the heat. *Frontiers in physiology*, 16, 1581594.

Schmidbauer P, et al. (2025) Crows recognize geometric regularity. *Science advances*, 11(15), eadt3718.

Natarajan D, et al. (2025) Chronic α 3 adrenergic agonist treatment improves neurovascular coupling responses, attenuates blood-brain barrier leakage and neuroinflammation, and enhances cognition in aged mice. *Aging*, 17(2), 448.

Gapińska N, et al. (2025) Effect of SSR504734, a Selective Glycine Transporter Type 1 Inhibitor, on Seizure Thresholds, Neurotransmitter Levels, and Inflammatory Markers in Mice. *ACS chemical neuroscience*, 16(6), 1210.

Lee SH, et al. (2025) A wearable ankle-assisted robot for improving gait function and pattern in stroke patients. *Journal of neuroengineering and rehabilitation*, 22(1), 89.

Ma X, et al. (2025) Alzheimer's disease risk ABCA7 p.A696S variant disturbs the microglial response to amyloid pathology in mice. *Neurobiology of disease*, 206, 106813.

Vincent HK, et al. (2025) Reference biomechanical parameters and natural asymmetry among runners across the age spectrum without a history of running-related injuries. *Frontiers in sports and active living*, 7, 1560756.

Li H, et al. (2025) Impaired hippocampal circuit function underlying memory encoding and consolidation precede robust A β deposition in a mouse model of Alzheimer's disease. *Scientific reports*, 15(1), 21957.

Ouattas A, et al. (2025) Higher fall rates and broader kinematic diversity in bilateral versus unilateral unconstrained slips. *PloS one*, 20(8), e0328900.

Kasiri M, et al. (2025) Effect of EMG-activated vibrotactile biofeedback on skill learning in children with genetic and acquired dystonia during practice of a point-to-point and a cyclic task. *Research square*.

Cha YJ, et al. (2025) Lipidomic Network Analysis Reveals Amyloid- β -Induced Lysosomal Lipid Accumulation in the Cortex and Hippocampus of 5xFAD Mice. *Journal of proteome research*, 24(7), 3389.

Cheng YA, et al. (2025) A neural geometry approach comprehensively explains apparently conflicting models of visual perceptual learning. *Nature human behaviour*, 9(5), 1023.

Wannemacher R, et al. (2025) Infection of a β -galactosidase-deficient mouse strain with Theiler's murine encephalomyelitis virus reveals limited immunological dysregulations in this lysosomal storage disease. *Frontiers in immunology*, 16, 1467207.

Bessaguet H, et al. (2025) Effect of tibialis anterior focal muscle vibration for gait rehabilitation in hemiplegic individuals during the subacute phase after stroke: the NEUROVIB-AVC study protocol - a multicentric randomised controlled trial. *BMJ open*, 15(5), e102838.

Mongay-Ochoa N, et al. (2025) Structural covariance analysis for neurodegenerative and neuroinflammatory brain disorders. *Brain : a journal of neurology*, 148(9), 3072.

Promsri A, et al. (2025) Changes in Walking Stability at Different Percentages of Preferred Walking Speed in Healthy Young and Older Adults: Insights From Movement Component Analysis. *TheScientificWorldJournal*, 2025, 9971520.