Resource Summary Report

Generated by NIF on Apr 29, 2025

<u>cortex</u>

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 coregistration to be carried out using Freesurfer. The power analyses are implemented in the R software package.

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

Funding:

Availability: GNU General Public License, Acknowledgement requested

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

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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 352 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Viswanathan P, et al. (2024) Sequential neuronal processing of number values, abstract decision, and action in the primate prefrontal cortex. PLoS biology, 22(2), e3002520.

Babygirija R, et al. (2024) Protein restriction slows the development and progression of pathology in a mouse model of Alzheimer's disease. Nature communications, 15(1), 5217.

De Sousa Rodrigues ME, et al. (2024) Diet-induced metabolic and immune impairments are sex-specifically modulated by soluble TNF signaling in the 5xFAD mouse model of Alzheimer's disease. bioRxiv : the preprint server for biology.

Chevalier MT, et al. (2024) Therapeutic Polymer-Based Cannabidiol Formulation: Tackling Neuroinflammation Associated with Ischemic Events in the Brain. Molecular pharmaceutics, 21(4), 1609.

Tiberi A, et al. (2024) Reversal of neurological deficits by painless nerve growth factor in a mouse model of Rett syndrome. Brain : a journal of neurology, 147(1), 122.

Varma VR, et al. (2024) Longitudinal progression of blood biomarkers reveals a key role of astrocyte reactivity in preclinical Alzheimer's disease. medRxiv : the preprint server for health

sciences.

Jin Y, et al. (2024) Morphological characteristics of femoral neck fractures in young and middle-aged population: a retrospective descriptive study. BMC musculoskeletal disorders, 25(1), 100.

Zhang K, et al. (2024) Space-time mapping relationships in sensorimotor communication during asymmetric joint action. PeerJ, 12, e16764.

Hassanpour MS, et al. (2024) Primate V2 Receptive Fields Derived from Anatomically Identified Large-Scale V1 Inputs. Research square.

Jones DJ, et al. (2024) Effective knockdown-replace gene therapy in a novel mouse model of DNM1 developmental and epileptic encephalopathy. Molecular therapy : the journal of the American Society of Gene Therapy, 32(10), 3318.

Ishida T, et al. (2024) The Difference in the Assessment of Knee Extension/Flexion Angles during Gait between Two Calibration Methods for Wearable Goniometer Sensors. Sensors (Basel, Switzerland), 24(7).

Jahncke JN, et al. (2024) Inhibitory CCK+ basket synapse defects in mouse models of dystroglycanopathy. eLife, 12.

Bellver-Sanchis A, et al. (2024) G9a Inhibition Promotes Neuroprotection through GMFB Regulation in Alzheimer's Disease. Aging and disease, 15(1), 311.

Yang CC, et al. (2024) The effects of different iron shaft weights on golf swing performance. Frontiers in bioengineering and biotechnology, 12, 1343530.

Corrigan EK, et al. (2024) Conservation, alteration, and redistribution of mammalian striatal interneurons. bioRxiv : the preprint server for biology.

Trinidad Barnech G, et al. (2024) Enhancing Robotic Perception through Synchronized Simulation and Physical Common-Sense Reasoning. Sensors (Basel, Switzerland), 24(7).

Gholipour Aghdam GM, et al. (2024) Knee Biomechanics During Neurocognitively Challenged Drop Landings in Male Elite Soccer Players with Anterior Cruciate Ligament Reconstruction. Sports medicine - open, 10(1), 19.

Di Bello F, et al. (2024) Prefrontal cortex contribution in transitive inference task through the interplay of beta and gamma oscillations. Communications biology, 7(1), 1715.

Sani OG, et al. (2024) Dissociative and prioritized modeling of behaviorally relevant neural dynamics using recurrent neural networks. Nature neuroscience, 27(10), 2033.

Wang S, et al. (2024) Integrated multi-omics profiling highlights the diet-gut-brain axis in lowcalorie diets promoted novelty-seeking behavior. Current research in food science, 9, 100897.