Resource Summary Report

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NIMH CORTEX

RRID:SCR_006837
Type: Tool

Proper Citation

NIMH CORTEX (RRID:SCR_006837)

Resource Information

URL: http://dally.nimh.nih.gov/index.html

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Description: A program developed by the NIMH Laboratory of Neuropsychology for data acquisition and experimental control of neurophysiological experiments. The purpose of this website is to make it easier to access new versions of NIMH CORTEX and its supporting documents. Ultimately, it is also hoped that these pages will make it easier for users to report bugs, request enhancements, and obtain help. Download the latest version and unzip it into a new sub-directory. Then read the on-line documentation. For the new user, the User''s Manuals are invaluable in specifying system requirements and giving an overview of the features and necessary hardware. The Function reference goes into more detail about how to write experiments using NIMH CORTEX. The Demos reference is a good place for new and experienced users to start to get an idea of what NIMH CORTEX can do these days.

Abbreviations: NIMH CORTEX

Synonyms: Laboratory of Systems Neuroscience, Software and Hardware for Neurophysiology: The home of NIMH Cortex, NIMH Laboratory of Systems Neuroscience

Resource Type: data acquisition software, data or information resource, data processing software, portal, software application, software resource, software toolkit, topical portal

Keywords: neurophysiology, neuropsychology, behavioral control

Funding: NIMH

Resource Name: NIMH CORTEX

Resource ID: SCR_006837

Alternate IDs: nif-0000-04365

Old URLs: http://www.cortex.salk.edu/

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260905T132602+0000

Ratings and Alerts

No rating or validation information has been found for NIMH CORTEX.

No alerts have been found for NIMH CORTEX.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 36 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Marc IB, et al. (2026) Dynamics of oscillatory power support the integration of perceptual and mnemonic information within the premotor cortex. Nature communications, 17(1).

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

Smart C, et al. (2023) Tissue-type plasminogen activator induces conditioned receptive field plasticity in the mouse auditory cortex. iScience, 26(2), 105947.

Parto-Dezfouli M, et al. (2023) Enhanced behavioral performance through interareal gamma and beta synchronization. Cell reports, 42(10), 113249.

Dasilva M, et al. (2021) Contribution of Ionotropic Glutamatergic Receptors to Excitability and Attentional Signals in Macaque Frontal Eye Field. Cerebral cortex (New York, N.Y. : 1991), 31(7), 3266.

Vezoli J, et al. (2021) Brain rhythms define distinct interaction networks with differential dependence on anatomy. Neuron, 109(23), 3862.

Confais J, et al. (2020) Is there an Intrinsic Relationship between LFP Beta Oscillation Amplitude and Firing Rate of Individual Neurons in Macaque Motor Cortex? Cerebral cortex communications, 1(1), tgaa017.

Dasilva M, et al. (2019) Cell class-specific modulation of attentional signals by acetylcholine in macaque frontal eye field. Proceedings of the National Academy of Sciences of the United States of America, 116(40), 20180.

Gilson M, et al. (2018) Nonparametric test for connectivity detection in multivariate autoregressive networks and application to multiunit activity data. Network neuroscience (Cambridge, Mass.), 1(4), 357.

Sanayei M, et al. (2018) Perceptual learning of fine contrast discrimination changes neuronal tuning and population coding in macaque V4. Nature communications, 9(1), 4238.

Gray H, et al. (2017) The use of preferred social stimuli as rewards for rhesus macaques in behavioural neuroscience. PloS one, 12(5), e0178048.

Lowet E, et al. (2017) A quantitative theory of gamma synchronization in macaque V1. eLife, 6.

Marcos E, et al. (2016) Determining Monkey Free Choice Long before the Choice Is Made: The Principal Role of Prefrontal Neurons Involved in Both Decision and Motor Processes. Frontiers in neural circuits, 10, 75.

Zhou H, et al. (2016) Pulvinar-Cortex Interactions in Vision and Attention. Neuron, 89(1), 209.

Brincat SL, et al. (2016) Prefrontal Cortex Networks Shift from External to Internal Modes during Learning. The Journal of neuroscience : the official journal of the Society for Neuroscience, 36(37), 9739.

Karkhanis AN, et al. (2014) Spatial effects of shifting prisms on properties of posterior parietal cortex neurons. The Journal of physiology, 592(16), 3625.

Lara AH, et al. (2014) Executive control processes underlying multi-item working memory. Nature neuroscience, 17(6), 876.

Mansouri FA, et al. (2014) The essential role of primate orbitofrontal cortex in conflict-induced executive control adjustment. The Journal of neuroscience : the official journal of the Society for Neuroscience, 34(33), 11016.

Steinmetz NA, et al. (2014) Eye movement preparation modulates neuronal responses in area V4 when dissociated from attentional demands. Neuron, 83(2), 496.

Pani P, et al. (2014) Alpha- and beta-band oscillations subserve different processes in reactive control of limb movements. Frontiers in behavioral neuroscience, 8, 383.