

Resource Summary Report

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Homer2

RRID:SCR_009586

Type: Tool

Proper Citation

Homer2 (RRID:SCR_009586)

Resource Information

URL: <http://www.nmr.mgh.harvard.edu/DOT/resources/homer2/home.htm>

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Description: Software matlab scripts used for analyzing fNIRS data to obtain estimates and maps of brain activation. Graphical user interface (GUI) for visualization and analysis of functional near-infrared spectroscopy (fNIRS) data.

Synonyms: HOMER1, Photon Migration Imaging toolbox

Resource Type: data processing software, software resource, software application, image analysis software

Keywords: Analysis, optical, imaging, fnirs, map, brain, activation, BRAIN Initiative

Funding: NIBIB EB025145;
NIBIB R01 EB006385;
NCRR P41 RR14075

Availability: Free, Available for download, Freely available

Resource Name: Homer2

Resource ID: SCR_009586

Alternate IDs: nlx_155773

Alternate URLs: <http://www.nitrc.org/projects/homer2>, <https://homer-fnirs.org/>

Record Creation Time: 20220129T080253+0000

Record Last Update: 20250416T063553+0000

Ratings and Alerts

No rating or validation information has been found for Homer2.

No alerts have been found for Homer2.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 178 mentions in open access literature.

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

Chi WY, et al. (2025) Single-cell mapping of regulatory DNA:Protein interactions. bioRxiv : the preprint server for biology.

Gamwell-Muscarello HE, et al. (2025) Improving locomotor performance with motor imagery and tDCS in young adults. Scientific reports, 15(1), 1748.

Rahrig H, et al. (2024) Managing emotions in the age of political polarization: A randomized controlled trial comparing mindfulness to cognitive reappraisal. Research square.

McDonald BR, et al. (2024) Enhancers associated with unstable RNAs are rare in plants. Nature plants, 10(8), 1246.

Hurton MD, et al. (2024) H3K4me2 distinguishes a distinct class of enhancers during the maternal-to-zygotic transition. bioRxiv : the preprint server for biology.

Duttke SH, et al. (2024) Position-dependent function of human sequence-specific transcription factors. Nature, 631(8022), 891.

Huang Z, et al. (2024) Functional near-infrared spectroscopy-based diagnosis support system for distinguishing between mild and severe depression using machine learning approaches. Neurophotonics, 11(2), 025001.

Xiang K, et al. (2024) Chromatin Remodeling in Patient-Derived Colorectal Cancer Models. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(16), e2303379.

Shamay-Tsoory SG, et al. (2024) Post-interaction neuroplasticity of inter-brain networks

underlies the development of social relationship. *iScience*, 27(2), 108796.

Herrero-Fernández B, et al. (2024) Role of lamin A/C on dendritic cell function in antiviral immunity. *Cellular and molecular life sciences : CMLS*, 81(1), 400.

Murray KL, et al. (2024) Short-term cortical activation changes associated with postural compensation in swallowing. *Experimental brain research*, 242(11), 2623.

Kim HI, et al. (2024) Association of Compensatory Mechanisms in Prefrontal Cortex and Impaired Anatomical Correlates in Semantic Verbal Fluency: A Functional Near-Infrared Spectroscopy Study. *Psychiatry investigation*, 21(10), 1065.

Ghoochani A, et al. (2024) Cell-Type Resolved Protein Atlas of Brain Lysosomes Identifies SLC45A1-Associated Disease as a Lysosomal Disorder. *bioRxiv : the preprint server for biology*.

Wu P, et al. (2024) Network-based statistics reveals an enhanced subnetwork in prefrontal cortex in mild cognitive impairment: a functional near-infrared spectroscopy study. *Frontiers in aging neuroscience*, 16, 1416816.

Chen X, et al. (2024) The impact of sleep disorders on brain network connectivity in postpartum women: a functional near-infrared spectroscopy-based study. *Frontiers in neurology*, 15, 1487985.

Zhao G, et al. (2024) Differences in the effect of repetitive transcranial magnetic stimulation and median nerve electrical stimulation in patients with prolonged disorders of consciousness after intracerebral hemorrhage: a randomized controlled trial protocol. *Frontiers in neurology*, 15, 1511767.

Deng D, et al. (2024) Functional Divergence in Orthologous Transcription Factors: Insights from AtCBF2/3/1 and OsDREB1C. *Molecular biology and evolution*, 41(5).

Schynkel T, et al. (2024) Interactome of the HIV-1 proteome and human host RNA. *EMBO reports*, 25(9), 4078.

Muñoz-Caracuel M, et al. (2024) Systemic neurophysiological entrainment to behaviorally relevant rhythmic stimuli. *Physiological reports*, 12(19), e70079.

Guo X, et al. (2024) Disrupted cognitive and affective empathy network interactions in autistic children viewing social animation. *Social cognitive and affective neuroscience*, 19(1).