

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: software resource, software application, data processing software, 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: 20260731T042823+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 223 mentions in open access literature.

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

Xiao NG, et al. (2026) Evidence of Top-Down Sensory Prediction in Neonates Within 2 Days of Birth. *Developmental science*, 29(2), e70114.

Daman AW, et al. (2025) Microbial cancer immunotherapy reprograms hematopoiesis to enhance myeloid-driven anti-tumor immunity. *Cancer cell*, 43(8), 1442.

Wang X, et al. (2025) Effective Motor Skill Learning Induces Inverted-U Load-Dependent Activation in Contralateral Pre-Motor and Supplementary Motor Area. *Human brain mapping*, 46(5), e70208.

Kostorz K, et al. (2025) Investigating short windows of interbrain synchrony: A step toward fNIRS-based hyperfeedback. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Baba Y, et al. (2025) Tcf21 modulates fibroblast activation and promotes cardiac fibrosis after injury via Pdgfrb signaling. *Scientific reports*, 15(1), 28260.

Sharma G, et al. (2025) IGF2BP3 redirects glycolytic flux to promote one-carbon metabolism and RNA methylation. *Cell reports*, 116330.

Duan C, et al. (2025) An fNIRS-based investigation of cerebral hemodynamic responses during verbal fluency task and n-back task in individuals with mild cognitive impairment. *Frontiers in neurology*, 16, 1571964.

Liang Y, et al. (2025) Differences in Prefrontal Cortex Activation Between Predominantly Positive and Negative Symptom Profiles in Schizophrenia: A Functional Near-Infrared Spectroscopy Study. *Medical science monitor : international medical journal of experimental and clinical research*, 31, e950780.

Mosteller S, et al. (2025) Neural signatures of word learning during adult-child interactions. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Rahrig H, et al. (2025) Examining emotion reactivity to politically polarizing media in a randomized controlled trial of mindfulness training versus active coping training. *Scientific reports*, 15(1), 5209.

Brooks EP, et al. (2025) NKX2.2 and KLF4 cooperate to regulate β -cell identity. *Genes & development*, 39(3-4), 242.

Zhao X, et al. (2025) Asymmetric Inter-Hemisphere Communication Contributes to Speech Acquisition of Toddlers with Cochlear Implants. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(20), e2309194.

Chen X, et al. (2025) Effective Functional Pattern Between Prefrontal fNIRS Activity and Cognitive Performance in Patients With Parkinson's Disease: A Data-Driven PLS Approach. *Brain and behavior*, 15(9), e70915.

Hunold P, et al. (2025) DynaTag for efficient mapping of transcription factors in low-input samples and at single-cell resolution. *Nature communications*, 16(1), 6585.

Kim M, et al. (2025) Alteration of prefrontal functional connectivity in preclinical Alzheimer's disease: an fNIRS study. *Frontiers in aging neuroscience*, 17, 1507180.

Cai Y, et al. (2025) RNA-Seq and ChIP-Seq Identification of Unique and Overlapping Target Genes and Pathways Regulated by TBX4 in Human Pulmonary Fibroblasts and Pericytes. *Pulmonary circulation*, 15(1), e70058.

Wang Z, et al. (2025) Study on cognitive impairment evaluation based on photoelectric neural information. *Journal of Alzheimer's disease reports*, 9, 25424823251325537.

Chen J, et al. (2025) Simultaneous Mental Fatigue and Mental Workload Assessment With Wearable High-Density Diffuse Optical Tomography. *IEEE transactions on neural systems and rehabilitation engineering : a publication of the IEEE Engineering in Medicine and Biology Society*, 33, 1242.

Deng Y, et al. (2025) Targeting the HLA-E-NKG2A axis in combination with MS-275 enhances NK cell-based immunotherapy against DMG. *Journal of experimental & clinical cancer research : CR*, 44(1), 133.

Zhao J, et al. (2025) Stage-specific functional networks associated with cognitive impairment in Parkinson's disease: a pilot fNIRS study. *Frontiers in aging neuroscience*, 17, 1562203.