

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

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, image analysis software, software application, software resource

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

Funding: NCRR P41 RR14075;

NIBIB EB025145;

NIBIB R01 EB006385

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: 20260905T133045+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 250 mentions in open access literature.

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

Rahmawati M, et al. (2026) RUNX proteins and CBF γ create an interconnected network of transcriptional regulation in the male germline†. *Biology of reproduction*, 114(4), 1324.

Agarwal G, et al. (2026) Inherited resilience to clonal hematopoiesis by modifying stem cell RNA regulation. *Science (New York, N.Y.)*, 391(6780), 52.

Xu Y, et al. (2026) Brain activation, sleep disturbances, and psychological distress in women undergoing assisted reproductive treatment: a functional near-infrared spectroscopy study. *BMC psychology*, 14(1).

Huang SL, et al. (2026) Distinct neural mechanisms underlying the effects of agility and resistance-aerobic training on executive function and gait in young adults. *Frontiers in psychology*, 17, 1743946.

Choubey A, et al. (2026) Intermittent AP-1 activation in muscles contributes to exercise-induced health benefits. *bioRxiv : the preprint server for biology*.

Chang Y, et al. (2026) Enhanced interhemispheric functional connectivity in elderly anxiety patients with long-term benzodiazepine use: an fNIRS study. *Scientific reports*, 16(1).

Contini L, et al. (2026) Data-driven optimization of preschoolers' hemodynamic response in a VR setup: advancing analytic methods for children's fNIRS naturalistic data with the AICopt method. *Neurophotonics*, 13(2), 025004.

Zhai SN, et al. (2026) CIRCpedia v3: an interactive database for circular RNA characterization and functional exploration. *Nucleic acids research*, 54(D1), D78.

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

Sakong S, et al. (2026) Electrostatic properties of disordered regions control transcription factor search and pioneer activity. *Nature communications*, 17(1).

Xie G, et al. (2026) A spontaneous termination mechanism of RNA polymerase V shapes the DNA methylation landscape in plants. *The EMBO journal*, 45(9), 3192.

Wang H, et al. (2026) Dose-resolved control of somatic reprogramming by Rora. *Stem cell reports*, 21(4), 102870.

Muñoz D, et al. (2026) Influence of DNA methylation and chromatin accessibility on regulation of gene expression during *Trichomonas vaginalis*-host cell interaction. *mBio*, 17(1), e0317525.

Barney RM, et al. (2026) Allele-specific alternative polyadenylation links noncoding genetic variation to Alzheimer's disease risk. *bioRxiv : the preprint server for biology*.

Lin MT, et al. (2026) Safety and neuromodulation effect of transcranial focused ultrasound for motor recovery in patients with subacute stroke. *Journal of neuroengineering and rehabilitation*, 23(1).

Liu J, et al. (2026) Watching Together, Yet Feeling Apart: Interpersonal Neural Synchronization as a Marker of Symptom Severity in Children With Autism Spectrum Disorder During Naturalistic Viewing. *Human brain mapping*, 47(5), e70503.

Zhou X, et al. (2026) Addressing arbitrary choices of frequency band of interest in fNIRS hyperscanning. *Scientific reports*, 16(1).

Guo Z, et al. (2026) Acute Stress Impacts Executive-Social Function: Evidence From Prefrontal Activation and fNIRS-Based Hyperscanning. *Brain and behavior*, 16(1), e71214.

Ren H, et al. (2026) Anxiety Suppressed Prefrontal Cortex Brain Activity: Insights From a Large Sample of Functional Near-Infrared Spectroscopy (fNIRS) Data. *Depression and anxiety*, 2026, 9910013.

Zarifkar P, et al. (2026) Near-Infrared Spectroscopy to Assess Covert Volitional Brain Activity in Intensive Care. *Neurocritical care*, 44(1), 124.