Resource Summary Report

Generated by NIF on Aug 10, 2026

BRAIN Initiative

RRID:SCR_006770
Type: Tool

Proper Citation

BRAIN Initiative (RRID:SCR_006770)

Resource Information

URL: http://www.nih.gov/science/brain/

Proper Citation: BRAIN Initiative (RRID:SCR_006770)

Description: Project aimed at revolutionizing understanding of human brain, to show how individual cells and complex neural circuits interact, enable rapid progress in development of new technologies and data analysis tools to treat and prevent brain disorders. BRAIN Initiative encourages collaborations between neurobiologists and scientists from disciplines such as statistics, physics, mathematics, engineering, and computer and information sciences. Institutes and centers contributing to NIH BRAIN Initiative support those research efforts.

Abbreviations: NIH BRAIN Initiative

Synonyms: , Brain Research through Advancing Innovative Neurotechnologies Initiative, NIH Brain Research through Advancing Innovative Neurotechnologies Initiative

Resource Type: organization portal, portal, data or information resource

Keywords: brain, connectomics, disorder, cell, neural, circuit, neurotechnology, data, repository, analysis

Related Condition: Alzheimer's disease, Schizophrenia, Autism, Epilepsy, Traumatic brain injury

Funding: BRAIN Initiative

Resource Name: BRAIN Initiative

Resource ID: SCR_006770

Alternate IDs: nlx_155554

Alternate URLs: http://braininitiative.nih.gov/, http://www.whitehouse.gov/share/brain-initiative, http://en.wikipedia.org/wiki/BRAIN_Initiative

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260810T040428+0000

Ratings and Alerts

No rating or validation information has been found for BRAIN Initiative.

No alerts have been found for BRAIN Initiative.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

Gao WJ, et al. (2026) Grand challenges for systems neuroscience: perspectives and opportunities. Frontiers in systems neuroscience, 20, 1818506.

Olson HA, et al. (2025) Measuring and interpreting individual differences in fetal, infant, and toddler neurodevelopment. Developmental cognitive neuroscience, 73, 101539.

Chen KS, et al. (2025) Navigation strategies in Caenorhabditis elegans are differentially altered by learning. PLoS biology, 23(3), e3003005.

Avila B, et al. (2024) Fibration symmetries and cluster synchronization in the Caenorhabditis elegans connectome. ArXiv.

Fukushi T, et al. (2024) East Asian perspective of responsible research and innovation in neurotechnology. IBRO neuroscience reports, 16, 582.

Weidig G, et al. (2024) 3D octopus kinematics of complex postures: Translation to long, thin, soft devices and their potential for clinical use. PloS one, 19(5), e0303608.

Weiss KR, et al. (2024) T-CLEARE: a pilot community-driven tissue clearing protocol repository. Frontiers in bioengineering and biotechnology, 12, 1304622.

Potenzieri A, et al. (2024) Early IGF-1 receptor inhibition in mice mimics preterm human brain disorders and reveals a therapeutic target. Science advances, 10(9), eadk8123.

Avila B, et al. (2024) Fibration symmetries and cluster synchronization in the Caenorhabditis elegans connectome. PloS one, 19(4), e0297669.

Iyer S, et al. (2024) The BRAIN Initiative data-sharing ecosystem: Characteristics, challenges, benefits, and opportunities. eLife, 13.

Dawood Y, et al. (2023) Human embryonic and fetal biobanking: Establishing the Dutch Fetal Biobank and a framework for standardization. Developmental cell, 58(24), 2826.

Curreli S, et al. (2022) Complementary encoding of spatial information in hippocampal astrocytes. PLoS biology, 20(3), e3001530.

Bliss-Moreau E, et al. (2022) A pragmatic reevaluation of the efficacy of nonhuman primate optogenetics for psychiatry. Oxford open neuroscience, 1, kvac006.

Bourget MH, et al. (2022) Microscopy-BIDS: An Extension to the Brain Imaging Data Structure for Microscopy Data. Frontiers in neuroscience, 16, 871228.

Parker D, et al. (2022) Neurobiological reduction: From cellular explanations of behavior to interventions. Frontiers in psychology, 13, 987101.

Rogers N, et al. (2020) Impact of Brain Surface Boundary Conditions on Electrophysiology and Implications for Electrocorticography. Frontiers in neuroscience, 14, 763.

Buzs??ki G, et al. (2015) Tools for probing local circuits: high-density silicon probes combined with optogenetics. Neuron, 86(1), 92.

Chen H, et al. (2015) Optimization of large-scale mouse brain connectome via joint evaluation of DTI and neuron tracing data. NeuroImage, 115, 202.

Sobolev A, et al. (2014) Integrated platform and API for electrophysiological data. Frontiers in neuroinformatics, 8, 32.

Buniak L, et al. (2014) A four-part working bibliography of neuroethics: part 1: overview and reviews--defining and describing the field and its practices. Philosophy, ethics, and humanities in medicine : PEHM, 9, 9.