Resource Summary Report

Generated by T1D on Aug 1, 2026

neurosphere

RRID:SCR_005478
Type: Tool

Proper Citation

neurosphere (RRID:SCR_005478)

Resource Information

URL: http://neurosphere.wordpress.com/

Proper Citation: neurosphere (RRID:SCR_005478)

Description: This blog belongs to me, Dave J Hayes PhD, a Neuroscientist at the University of Ottawa''s Institute of Mental Health Research. My research focuses on the neuroscience of motivation and emotion particularly regarding how brains and people respond to aversive and rewarding things in their environment. A neurosphere is a free-floating group of neural stem cells which can multiply, outside of their natural environment, and retain the ability to differentiate into functional brain cells. I don''t work on neurospheres. However, i like the metaphor of a group of people coming together, outside of their natural environment, through their interest in all things neuro which, incidentally, is everything. The sphere of human thought.

Abbreviations: Neurosphere

Synonyms: neurosphere - neuroscience in everything

Resource Type: narrative resource, data or information resource, blog

Keywords: neuroscience, brain, environment, motivation, emotion, adverse event, reward

Resource Name: neurosphere

Resource ID: SCR_005478

Alternate IDs: nlx_144600

Record Creation Time: 20220129T080230+0000

Record Last Update: 20260801T042559+0000

Ratings and Alerts

No rating or validation information has been found for neurosphere.

No alerts have been found for neurosphere.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 23 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Wendt S, et al. (2025) A 3D human iPSC-derived multi-cell type neurosphere system to model cellular responses to chronic amyloidosis. Journal of neuroinflammation, 22(1), 119.

Gharabaghi A, et al. (2025) Accelerated symptom improvement in Parkinson's disease via remote internet-based optimization of deep brain stimulation therapy: a randomized controlled multicenter trial. Communications medicine, 5(1), 31.

Sahar H, et al. (2025) Travel distance may have a negative impact on the outcome of deep brain stimulation in Parkinson's disease. Scientific reports, 15(1), 29992.

Balboni A, et al. (2024) Acid-sensing ion channel 3 is a new potential therapeutic target for the control of glioblastoma cancer stem cells growth. Scientific reports, 14(1), 20421.

Thankathuraipandian S, et al. (2024) Development of a remote therapeutic monitoring platform: applications for movement disorders. Scientific reports, 14(1), 29837.

Marsan E, et al. (2023) Astroglial toxicity promotes synaptic degeneration in the thalamocortical circuit in frontotemporal dementia with GRN mutations. The Journal of clinical investigation, 133(6).

Bahia RK, et al. (2023) Epigenetic and molecular coordination between HDAC2 and SMAD3-SKI regulates essential brain tumour stem cell characteristics. Nature communications, 14(1), 5051.

Lee CF, et al. (2022) The central role of Sphingosine kinase 1 in the development of neuroendocrine prostate cancer (NEPC): A new targeted therapy of NEPC. Clinical and translational medicine, 12(2), e695.

Lithopoulos MA, et al. (2022) Neonatal hyperoxia in mice triggers long-term cognitive deficits via impairments in cerebrovascular function and neurogenesis. The Journal of clinical investigation, 132(22).

Frederico B, et al. (2022) DNGR-1-tracing marks an ependymal cell subset with damage-responsive neural stem cell potential. Developmental cell, 57(16), 1957.

Conti V, et al. (2021) mTORC1 promotes malignant large cell/anaplastic histology and is a targetable vulnerability in SHH-TP53 mutant medulloblastoma. JCI insight, 6(23).

Valtorta S, et al. (2021) Imaging Metformin Efficacy as Add-On Therapy in Cells and Mouse Models of Human EGFR Glioblastoma. Frontiers in oncology, 11, 664149.

Gagliardi F, et al. (2020) Enhanced SPARCL1 expression in cancer stem cells improves preclinical modeling of glioblastoma by promoting both tumor infiltration and angiogenesis. Neurobiology of disease, 134, 104705.

Mellai M, et al. (2020) Chondroitin Sulphate Proteoglycan 4 (NG2/CSPG4) Localization in Low- and High-Grade Gliomas. Cells, 9(6).

Zalfa C, et al. (2019) Transplantation of clinical-grade human neural stem cells reduces neuroinflammation, prolongs survival and delays disease progression in the SOD1 rats. Cell death & disease, 10(5), 345.

Neckel PH, et al. (2019) Wnt Receptor Frizzled-4 as a Marker for Isolation of Enteric Neural Progenitors in Human Children. Cells, 8(8).

Palumbo P, et al. (2018) Involvement of NOS2 Activity on Human Glioma Cell Growth, Clonogenic Potential, and Neurosphere Generation. International journal of molecular sciences, 19(9).

Mehrzad J, et al. (2017) Environmentally relevant level of aflatoxin B1 elicits toxic pro-inflammatory response in murine CNS-derived cells. Toxicology letters, 279, 96.

Zhou FW, et al. (2015) Functional integration of human neural precursor cells in mouse cortex. PloS one, 10(3), e0120281.

Lattanzi A, et al. (2013) Dynamic Activity of miR-125b and miR-93 during Murine Neural Stem Cell Differentiation In Vitro and in the Subventricular Zone Neurogenic Niche. PloS one, 8(6), e67411.