

Resource Summary Report

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Hipposeq

RRID:SCR_015730

Type: Tool

Proper Citation

Hipposeq (RRID:SCR_015730)

Resource Information

URL: <http://hipposeq.janelia.org/>

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Description: Database of RNA-seq gene expression in hippocampal principal neurons. Hipposeq can analyze and visualize RNA-seq data for all excitatory cell populations in the hippocampus at multiple levels of granularity.

Synonyms: Hippocampus RNA-seq atlas

Resource Type: data or information resource, data analysis software, database, web application, software application, software resource, sequence analysis software, data processing software

Defining Citation: [PMID:27113915](#)

Keywords: rna seq, gene expression, sequencing, hippocampus, principal neuron

Funding: Howard Hughes Medical Institute

Availability: Freely available

Resource Name: Hipposeq

Resource ID: SCR_015730

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260801T190518+0000

Ratings and Alerts

No rating or validation information has been found for Hipposeq.

No alerts have been found for Hipposeq.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Lewczuk A, et al. (2025) Integrated computational and experimental approach to identify Nrf2-regulated molecular targets in cerebral ischemia. *Pharmacological reports* : PR, 77(6), 1639.

Wu KY, et al. (2025) Stk24 deficiency causes disrupted hippocampal neurogenesis and anxiety-like behavior in mice. *Communications biology*, 8(1), 663.

Kim MJ, et al. (2025) Neuronal APOE4 drives damaging lipid accumulation via contact-dependent neuron-oligodendrocyte-microglia interaction in Alzheimer's disease. *bioRxiv* : the preprint server for biology.

Blumenfeld J, et al. (2025) Neuronal APOE4 alone is sufficient to drive tau pathology, neurodegeneration, and neuroinflammation in an Alzheimer's disease mouse model. *bioRxiv* : the preprint server for biology.

Anneser L, et al. (2024) Molecular organization of neuronal cell types and neuromodulatory systems in the zebrafish telencephalon. *Current biology* : CB, 34(2), 298.

Liakath-Ali K, et al. (2024) Cartography of teneurin and latrophilin expression reveals spatiotemporal axis heterogeneity in the mouse hippocampus during development. *PLoS biology*, 22(5), e3002599.

Banks E, et al. (2024) An enhancer-AAV approach selectively targeting dentate granule cells of the mouse hippocampus. *Cell reports methods*, 4(1), 100684.

Li Y, et al. (2024) Data-driven discovery of cell-type-directed network-correcting combination therapy for Alzheimer's disease. *bioRxiv* : the preprint server for biology.

Stevenson ME, et al. (2023) Neuronal activation of G α q EGL-30/GNAQ late in life rejuvenates cognition across species. *Cell reports*, 42(9), 113151.

Akol I, et al. (2023) Multimodal epigenetic changes and altered NEUROD1 chromatin binding in the mouse hippocampus underlie FOXG1 syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, 120(2), e2122467120.

Wild AR, et al. (2022) Exploring the expression patterns of palmitoylating and de-palmitoylating enzymes in the mouse brain using the curated RNA-seq database BrainPalmSeq. *eLife*, 11.

Petersen PC, et al. (2021) CellExplorer: A framework for visualizing and characterizing single neurons. *Neuron*, 109(22), 3594.

Sanchez-Aguilera A, et al. (2021) An update to Hippocampome.org by integrating single-cell phenotypes with circuit function in vivo. *PLoS biology*, 19(5), e3001213.

Qiu WQ, et al. (2021) The Sez6 Family Inhibits Complement by Facilitating Factor I Cleavage of C3b and Accelerating the Decay of C3 Convertases. *Frontiers in immunology*, 12, 607641.

Kerloch T, et al. (2021) The atypical Rho GTPase Rnd2 is critical for dentate granule neuron development and anxiety-like behavior during adult but not neonatal neurogenesis. *Molecular psychiatry*, 26(12), 7280.

Maioli S, et al. (2021) Estrogen receptors and the aging brain. *Essays in biochemistry*, 65(6), 913.

Birt IA, et al. (2021) Genetic Liability for Internalizing Versus Externalizing Behavior Manifests in the Developing and Adult Hippocampus: Insight From a Meta-analysis of Transcriptional Profiling Studies in a Selectively Bred Rat Model. *Biological psychiatry*, 89(4), 339.

Lathe R, et al. (2020) The interoceptive hippocampus: Mouse brain endocrine receptor expression highlights a dentate gyrus (DG)-cornu ammonis (CA) challenge-sufficiency axis. *PloS one*, 15(1), e0227575.

Chen R, et al. (2020) The Spatial and Cell-Type Distribution of SARS-CoV-2 Receptor ACE2 in the Human and Mouse Brains. *Frontiers in neurology*, 11, 573095.

Apóstolo N, et al. (2020) Synapse type-specific proteomic dissection identifies IgSF8 as a hippocampal CA3 microcircuit organizer. *Nature communications*, 11(1), 5171.