

Resource Summary Report

Generated by PRECISE-TBI on Jul 29, 2026

SynGO

RRID:SCR_017330

Type: Tool

Proper Citation

SynGO (RRID:SCR_017330)

Resource Information

URL: <https://syngoportal.org/>

Proper Citation: SynGO (RRID:SCR_017330)

Description: Evidence based, expert curated knowledge base for synapse. Universal reference for synapse research and online analysis platform for interpretation of omics data. Interactive knowledge base that accumulates available research about synapse biology using Gene Ontology annotations to novel ontology terms.

Synonyms: Synaptic Gene Ontologies

Resource Type: service resource, data or information resource, data analysis service, production service resource, ontology, controlled vocabulary, analysis service resource

Defining Citation: [PMID:31171447](#)

Keywords: Synapse, evidence, curated, base, reference, analysis, omics, data, ontology, gene, annotation

Funding: Stanley Center for Psychiatric Research at The Broad Institute of MIT and Harvard ;
European Union ;
CERCA Program/Generalitat de Catalunya ;
NINDS NS36251;
German Federal Ministry of Education and Research

Availability: Free, Freely available

Resource Name: SynGO

Resource ID: SCR_017330

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260729T044433+0000

Ratings and Alerts

No rating or validation information has been found for SynGO.

No alerts have been found for SynGO.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 134 mentions in open access literature.

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

Arcego DM, et al. (2026) Sex-specific interaction effects of Syntaxin 1A coexpression network and childhood trauma on adult depressive symptoms. EBioMedicine, 123, 106062.

Drumond-Bock AL, et al. (2025) Parallel Gene Expression Changes in Ventral Midbrain Dopamine and GABA Neurons during Normal Aging. eNeuro, 12(5).

Fatemi SH, et al. (2025) Impaired Aggrephagy, Interrupted Vesicular Trafficking, and Cellular Stress, Lead to Protein Aggregation, and Synaptic Dysfunction in Cerebellum of Children and Adults with Idiopathic Autism. Cerebellum (London, England), 24(5), 140.

Anschuetz A, et al. (2025) Proteomic and non-proteomic changes of presynaptic proteins in animal models of Alzheimer's disease: A meta-analysis 2015-2023. Journal of Alzheimer's disease : JAD, 107(2), 452.

Jiang Z, et al. (2025) The X chromosome's influences on the human brain. Science advances, 11(4), eadq5360.

Traunm??ller L, et al. (2025) Novel environment exposure drives temporally defined and region-specific chromatin accessibility and gene expression changes in the hippocampus. Nature communications, 16(1), 7787.

Liu Y, et al. (2025) Co-Conservation of synaptic gene expression and circuitry in collicular neurons. Nature communications, 16(1), 9146.

Kirikae H, et al. (2025) Gene Expression Profiling in the Cortex of Fabp4 Knockout Mice. Neuropsychopharmacology reports, 45(1), e70006.

Marcassa G, et al. (2025) Synaptic signatures and disease vulnerabilities of layer 5 pyramidal neurons. Nature communications, 16(1), 228.

Oh HS, et al. (2025) A cerebrospinal fluid synaptic protein biomarker for prediction of cognitive resilience versus decline in Alzheimer's disease. Nature medicine, 31(5), 1592.

Wang J, et al. (2025) A multi-omic approach implicates novel protein dysregulation in post-traumatic stress disorder. *Genome medicine*, 17(1), 43.

Fraser SD, et al. (2025) Milestone Review: Unlocking the Proteomics of Glycine Receptor Complexes. *Journal of neurochemistry*, 169(4), e70061.

Chen H, et al. (2025) The Hao-Fountain syndrome protein USP7 regulates neuronal connectivity in the brain via a novel p53-independent ubiquitin signaling pathway. *Cell reports*, 44(2), 115231.

Gandu SR, et al. (2025) Cypin regulates K63-linked polyubiquitination to shape synaptic content. *Science advances*, 11(28), eads5467.

Yin L, et al. (2025) CNKSR2 interactome analysis indicates its association with the centrosome/microtubule system. *Neural regeneration research*, 20(8), 2420.

Sahin F, et al. (2025) Enhancing proteasome activity by NMDAR antagonists explains their therapeutic effect in neurodegenerative and mental diseases. *Scientific reports*, 15(1), 1165.

Gross J, et al. (2025) Candidate Key Proteins of Tinnitus in the Auditory and Motor Systems of the Thalamus. *International journal of molecular sciences*, 26(12).

Nakatochi M, et al. (2025) Copy number variations in RNF216 and postsynaptic membrane-associated genes are associated with bipolar disorder: a case-control study in the Japanese population. *Psychiatry and clinical neurosciences*, 79(1), 12.

Bizzotto S, et al. (2025) Cell-type-informed genotyping of mosaic focal epilepsies reveals cell-autonomous and non-cell-autonomous disease-associated transcriptional programs. *Proceedings of the National Academy of Sciences of the United States of America*, 122(29), e2509622122.

Stein-O'Brien GL, et al. (2025) Transcriptional signatures of hippocampal tau pathology in primary age-related tauopathy and Alzheimer's disease. *Cell reports*, 44(3), 115422.