

Resource Summary Report

Generated by [kravitz2](#) on Jul 30, 2026

Synapse

RRID:SCR_006307

Type: Tool

Proper Citation

Synapse (RRID:SCR_006307)

Resource Information

URL: <https://www.synapse.org/>

Proper Citation: Synapse (RRID:SCR_006307)

Description: A cloud-based collaborative platform which co-locates data, code, and computing resources for analyzing genome-scale data and seamlessly integrates these services allowing scientists to share and analyze data together. Synapse consists of a web portal integrated with the R/Bioconductor statistical package and will be integrated with additional tools. The web portal is organized around the concept of a Project which is an environment where you can interact, share data, and analysis methods with a specific group of users or broadly across open collaborations. Projects provide an organizational structure to interact with data, code and analyses, and to track data provenance. A project can be created by anyone with a Synapse account and can be shared among all Synapse users or restricted to a specific team. Public data projects include the Synapse Commons Repository (SCR) (syn150935) and the metaGenomics project (syn275039). The SCR provides access to raw data and phenotypic information for publicly available genomic data sets, such as GEO and TCGA. The metaGenomics project provides standardized preprocessed data and precomputed analysis of the public SCR data.

Abbreviations: Synapse

Resource Type: service resource, data or information resource, data repository, database, storage service resource

Keywords: data sharing, collaboration, data management, analysis, genome, phenotype, crowd sourcing, open data, provenance, resource management, annotation, authoring, markup, r, python, java, command-line, cloud, FASEB list

Related Condition: Cancer, Normal, Cardiovascular disease, Floppy hat syndrome

Funding: Life Sciences Discovery Fund ;
NCI ;
NHLBI ;

Alfred P. Sloan Foundation

Availability: The community can contribute to this resource

Resource Name: Synapse

Resource ID: SCR_006307

Alternate IDs: nlx_151983, DOI:10.17616/R3B934, r3d100011894, DOI:10.7303

Alternate URLs: <https://doi.org/10.17616/R3B934>,
<https://doi.org/10.48550/arxiv.1506.00272>, <https://doi.org/10.7303/>,
<https://dx.doi.org/10.7303>, <https://doi.org/10.17616/R3B934>

Record Creation Time: 20220129T080235+0000

Record Last Update: 20260729T044132+0000

Ratings and Alerts

No rating or validation information has been found for Synapse.

No alerts have been found for Synapse.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1002 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Rademacher K, et al. (2025) Chronic hyperactivation of midbrain dopamine neurons causes preferential dopamine neuron degeneration. eLife, 13.

Kobayashi H, et al. (2025) Neuro-Mesenchymal Interaction Mediated by a α 2-Adrenergic Nerve Growth Factor Feedforward Loop Promotes Colorectal Cancer Progression. Cancer discovery, 15(1), 202.

Fullard JF, et al. (2025) Population-scale cross-disorder atlas of the human prefrontal cortex at single-cell resolution. Scientific data, 12(1), 954.

de Bruijn I, et al. (2025) Sharing data from the Human Tumor Atlas Network through standards, infrastructure and community engagement. Nature methods, 22(4), 664.

Suzuki H, et al. (2025) GALNT7 Stratifies dMMR/MSI Colorectal Cancer into Distinct Molecular Subsets Associated with Prognosis and PD-L1 Expression. Cancer research communications, 5(9), 1530.

Tauro M, et al. (2025) Unc-51 Like Kinase 3 (ULK3) is essential for autophagy and cell survival in multiple myeloma. Research square.

Chen L, et al. (2025) Molecular characterization of gliosarcoma reveals prognostic biomarkers and clinical parallels with glioblastoma. Journal of neuro-oncology, 171(2), 403.

Brickner MA, et al. (2025) Basolateral amygdala dopamine transmits a nonassociative emotional salience signal. bioRxiv : the preprint server for biology.

Hsieh YH, et al. (2025) Telomeric repeat-containing RNA increases in aged human cells. Nucleic acids research, 53(13).

Drexler R, et al. (2025) Cholinergic neuronal activity promotes diffuse midline glioma growth through muscarinic signaling. Cell, 188(17), 4640.

Buonaiuto G, et al. (2025) LncRNA HSCHARME is altered in human cardiomyopathies and promotes stem cell-derived cardiomyogenesis via splicing regulation. Nature communications, 16(1), 7880.

Yan L, et al. (2025) Integrating single-cell regulatory atlas and multi-omics data for differential treatment response and multimodal predictive modeling in CDK 4/6 inhibitor-treated breast cancer. Frontiers in oncology, 15, 1585574.

Yamaoka Y, et al. (2025) Predictors of difficulty in robotic splenic flexure mobilization during rectal cancer surgery. International journal of colorectal disease, 40(1), 122.

Grewal JK, et al. (2025) Protocol for obtaining cancer type and subtype predictions using subSCOPE. STAR protocols, 6(2), 103705.

Bangs MC, et al. (2025) Proteomic Subtyping of Alzheimer's Disease CSF links Blood-Brain Barrier Dysfunction to Reduced levels of Tau and Synaptic Biomarkers. bioRxiv : the preprint server for biology.

Qiao J, et al. (2025) Contribution of leukocyte telomere length to cardiovascular disease onset from genome-wide cross-trait analysis. Nature communications, 16(1), 8677.

Tran TN, et al. (2025) AI cancer driver mutation predictions are valid in real-world data. Nature communications, 16(1), 8509.

Katano H, et al. (2025) Distribution of interscan measurement error in AI-based 3D MRI analysis of knee cartilage thickness in osteoarthritis. PloS one, 20(8), e0329610.

Agrawal P, et al. (2025) Integrated in vivo functional screens and multiomics analyses identify ?-2,3-sialylation as essential for melanoma maintenance. Science advances, 11(27), eadg3481.

Zammit AR, et al. (2025) Brain Multi-Omic Subtypes of Neuroticism reveal molecular signatures linked to Alzheimer's Disease. bioRxiv : the preprint server for biology.