Resource Summary Report

Generated by dkNET on Apr 16, 2025

SynSysNet

RRID:SCR_003180
Type: Tool

Proper Citation

SynSysNet (RRID:SCR_003180)

Resource Information

URL: http://bioinformatics.charite.de/synsysnet/

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Description: A curated database for synaptic proteins that provides adequate definitions of pre- and post-synaptic proteins, proteins present in sub-domains of the synapse, e.g. the synaptic vesicle and associated proteins, lipid rafts and postsynaptic density. In addition to data that was and will be gathered from the experiments conducted within SynSys - A European expertise Network on building the synapse, they have extracted and manually curated all relevant data on these proteins from other sources and provided an ontology for these. Novel splice forms are being identified that can be matched with proteomics data. Information on proteins, their 3D structure, binding small molecules Protein-Protein-Interactions (PPIs) and Compound-Protein-Interactions are integrated. Proteins or compounds can be searched and Interactive Networks can be visualized. The point Diseases present neurological diseases, to illustrate the role of SynSysNet in the medication.

Abbreviations: SynSysNet

Synonyms: SynSysNet - Synaptic Proteins Database

Resource Type: database, data or information resource

Defining Citation: PMID:23143269

Keywords: gene, synapse, protein, interaction, compound, disease, structure, model, compound, protein-drug interaction, protein-protein interaction, pathway, drug-target, small molecule, interaction network, homology, drug, drug-target interaction, compound-protein interaction, visualization, proteomics, network

Related Condition: Huntington's disease, Chorea Huntington, Epilepsy, Multiple Sclerosis,

Parkinson's disease, Schizophrenia, Neurological disease

Funding: European Union Seventh FPSYNSYS 242167;
DFG GRK1772;
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Resource Name: SynSysNet

Resource ID: SCR_003180

Alternate IDs: nlx_156893, OMICS_01914

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250412T054808+0000

Ratings and Alerts

No rating or validation information has been found for SynSysNet.

No alerts have been found for SynSysNet.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Aguirre-Chen C, et al. (2020) A Caenorhabditis elegans Model for Integrating the Functions of Neuropsychiatric Risk Genes Identifies Components Required for Normal Dendritic Morphology. G3 (Bethesda, Md.), 10(5), 1617.

Zhou L, et al. (2019) Revealing Drug-Target Interactions with Computational Models and Algorithms. Molecules (Basel, Switzerland), 24(9).

Fernández-Irigoyen J, et al. (2015) New insights into the human brain proteome: Protein expression profiling of deep brain stimulation target areas. Journal of proteomics, 127(Pt B), 395.