

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

cytoHubba

RRID:SCR_017677

Type: Tool

Proper Citation

cytoHubba (RRID:SCR_017677)

Resource Information

URL: <http://apps.cytoscape.org/apps/cytohubba>

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Description: Software tool for identifying hub objects and sub-networks from complex interactome. Predicts and explore nodes and subnetworks in given network by several topological algorithms. Provides interface to analyze topology of protein-protein interaction networks, such as human, yeast, rat, mouse, fly etc. Plugin works with Cytoscape 2.6 or above, which requires Java 1.5 or above.

Synonyms: cytoHubba 1.6

Resource Type: software resource, network analysis software, software application, data analysis software, data processing software

Defining Citation: [PMID:25521941](#)

Keywords: Identify, network, subnetwork, topological, algorithm, analyze, protein, interaction, hub, object, intercome

Funding: Ministry of Science and Technology (MOST) ; Taiwan

Availability: Free, Available for download, Freely available

Resource Name: cytoHubba

Resource ID: SCR_017677

Alternate URLs: <http://hub.iis.sinica.edu.tw/cytoHubba/>

Record Creation Time: 20220129T080336+0000

Record Last Update: 20260808T190111+0000

Ratings and Alerts

No rating or validation information has been found for cytoHubba.

No alerts have been found for cytoHubba.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 451 mentions in open access literature.

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

Xu Z, et al. (2026) The anti-NMDAR1 antibodies and IL-17 signaling pathway shape NMDAR encephalitis. *Molecular psychiatry*, 31(5), 2902.

Li X, et al. (2026) Dynamic transcriptomic landscape of myogenesis in Muscovy ducks (*Cairina moschata*): integrative analysis of hub genes post-hatching. *Animal bioscience*, 39(1), 250159.

Cai S, et al. (2026) Identification and validation of novel inflammatory response-related diagnostic biomarkers in diabetic foot ulcers. *Journal of diabetes investigation*, 17(1), 103.

Kafita D, et al. (2026) Decoding the dark genome reveals its organisation into modular disease networks. *Scientific reports*, 16(1).

Shi X, et al. (2026) Specific GPCRs elicit unique extracellular vesicle miRNA array signatures. *eLife*, 14.

Yasmin MF, et al. (2026) Gene expression and metadata based identification of key genes for lung cancer, COPD, and IPF using machine learning and statistical models. *PloS one*, 21(3), e0344666.

Ayass MA, et al. (2026) Non-invasive host transcriptome and HPV oncogene expression map the molecular landscape of HPV-driven cervical lesions. *PloS one*, 21(3), e0339693.

Liu F, et al. (2026) Unveiling the Therapeutic Potential of "Taikong Blue" Lavender Essential Oil and Its Key Compounds in Skin Problems via Network Pharmacology and In Vitro Validation. *Journal of cosmetic dermatology*, 25(2), e70640.

Li L, et al. (2026) Limonin attenuates hyperlipidemia by regulating the gut microbiota-bile acid-farnesoid X receptor axis. *Journal of translational medicine*, 24(1).

Gao M, et al. (2026) Multi-tissue analysis identifies mitochondrial genes in chicken aging-induced productivity decline. *Journal of animal science and biotechnology*, 17(1).

Shah SNA, et al. (2026) A hybrid feature extraction framework combining PCA and mutual information for gene expression based lung cancer classification. *PloS one*, 21(2),

e0342160.

Guo C, et al. (2026) Role and mechanism of tetrahedral DNA nanostructures in the repair of urethral injury in rats. *Molecular medicine reports*, 33(4).

Hashemi Karoii D, et al. (2026) Machine learning, whole-transcriptome and integrative omics analysis reveals key regulatory networks governing human spermatogonial stem cells. *Clinical and experimental medicine*, 26(1), 146.

Lagu IJL, et al. (2026) Antiproliferative activity, phytochemistry, network pharmacology, molecular docking and gene expression analysis of *Maerua edulis* extracts against human cervical cancer cell line. *BMC complementary medicine and therapies*, 26(1).

Albayrak M, et al. (2026) Ibandronate Use in Osteoporotic Vertebral Fractures: A Retrospective Clinical Study Integrated with Exploratory Network Pharmacology and Cross-Cohort Transcriptomic Analysis. *Biomedicines*, 14(6).

Zhang B, et al. (2026) FOXP1 Hierarchically Shapes Synaptic Functions in Striatal iSPNs and Contributes to ASD Etiology. *Neuroscience bulletin*, 42(5), 1059.

Xia C, et al. (2026) Physiological and molecular response of soybean to combined drought and heat stresses during flowering. *BMC plant biology*, 26(1), 319.

Ye K, et al. (2026) Longitudinal analysis of retinal cell state transitions in RB1-deficient retinal organoids reveals the nascent cone precursors are the earliest cell-origin of human retinoblastoma. *Cell death & disease*, 17(1), 34.

Pan Y, et al. (2026) Colorectal Cancer Organoid Model Reveals the Mechanisms of Irinotecan Resistance at Single-Cell Resolution. *Cancer medicine*, 15(2), e71550.

Liu K, et al. (2026) Luteolin Attenuates Asthma Via Inhibiting ALOX15 Mediated Bronchial Epithelial Cell Ferroptosis. *Inflammation*, 49(1), 50.