

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

MCODE

RRID:SCR_015828

Type: Tool

Proper Citation

MCODE (RRID:SCR_015828)

Resource Information

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

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Description: Software that clusters a given network based on topology to find densely connected regions. It can be used to find protein complexes and parts of pathways in protein-protein interaction networks or protein families in protein similarity networks.

Resource Type: data analysis software, software resource, image analysis software, software application, algorithm resource, data processing software

Defining Citation: [PMID:12525261](#), [PMID:25570063](#)

Keywords: cluster, clustering, graph analysis, network, network topology, interconnectivity

Funding: Canadian Institutes of Health Research (CIHR) ;
Ontario Research and Development Challenge Fund ;
MDS-Sciex

Availability: Free, Available for download

Resource Name: MCODE

Resource ID: SCR_015828

Alternate URLs: <http://baderlab.org/Software/MCODE>

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260728T043508+0000

Ratings and Alerts

No rating or validation information has been found for MCODE.

No alerts have been found for MCODE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1150 mentions in open access literature.

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

Baishya S, et al. (2026) Gene regulatory networks involved in activation of Notch signaling by AGEs in the pathogenesis of diabetic kidney disease. PloS one, 21(1), e0335768.

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.

Yadav K, et al. (2025) Pancancer analysis of DNA damage repair gene mutations and their impact on immune regulatory gene expression. Scientific reports, 15(1), 15667.

Shi L, et al. (2025) FMRP-dependent translational control negatively regulates adapter protein complex 2-mediated endocytosis. iScience, 28(8), 113062.

Min XL, et al. (2025) Analysis and Identification of Therapeutic Targets for Neuronal Regeneration After Ischemic Stroke. Brain and behavior, 15(5), e70377.

Wang C, et al. (2025) Bioinformatics Analysis Screening and Identification of Key Biomarkers and Drug Targets in Human Glioblastoma. Current medicinal chemistry, 32(25), 5260.

Ren F, et al. (2025) A small-molecule TNIK inhibitor targets fibrosis in preclinical and clinical models. Nature biotechnology, 43(1), 63.

Tao F, et al. (2025) Insight into the composition and differentiation of endophytic microbial communities in kernels via 368 maize transcriptomes. Journal of advanced research, 71, 5.

Xiao Y, et al. (2025) Multivariate Cox regression analysis of prognostic genes and therapeutic mechanisms of gastric cancer. Discover oncology, 16(1), 136.

Zhang J, et al. (2025) Proteomic profiling reveals biological processes and biomarkers involved in the pathogenesis of occult breast cancer. BMC cancer, 25(1), 231.

Zhuang Y, et al. (2025) Core microbe Bifidobacterium in the hindgut of calves improves the growth phenotype of young hosts by regulating microbial functions and host metabolism. Microbiome, 13(1), 13.

Yuan HJ, et al. (2025) Exploration and verification of the therapeutic mechanism of shenfu injection in sepsis-induced myocardial injury. *PloS one*, 20(1), e0317738.

Ren J, et al. (2025) Active Ingredients and Potential Mechanism of Additive Sishen Decoction in Treating Rheumatoid Arthritis with Network Pharmacology and Molecular Dynamics Simulation and Experimental Verification. *Drug design, development and therapy*, 19, 405.

Chen X, et al. (2025) CENPF as a prognostic marker of glioma: unraveling the molecular mechanisms. *Journal of cancer research and clinical oncology*, 151(2), 96.

Hong J, et al. (2025) Immune-related diagnostic indicators and targeted therapies for COPD combined with NASH were identified and verified via WGCNA and LASSO. *Frontiers in immunology*, 16, 1514422.

Liu Z, et al. (2025) Astaxanthin ameliorates benzalkonium chloride-induced dry eye disease through suppressing inflammation and oxidative stress via Keap1-Nrf2/HO-1 signaling pathways. *Animal models and experimental medicine*, 8(6), 1056.

Francis A, et al. (2025) Deconvolution-Based Transcriptomic Analysis in the Hippocampus Reveals Cell Type-Specific Risk Genes and Pathways Associated With Depression and Suicide. *Biological psychiatry global open science*, 5(5), 100530.

Du L, et al. (2025) Study on the mechanism of Xanthoceras sorbifolia Bunge oil in the treatment of Alzheimer's disease by an integrated "network pharmacology-metabolomics" strategy. *Annals of medicine*, 57(1), 2499700.

Chaturvedi A, et al. (2025) Arsenic toxicity in the Drosophila brain at single cell resolution. *Frontiers in toxicology*, 7, 1636431.

Vafadar A, et al. (2025) Meta-analysis of microarray data to identify potential signature genes and MiRNAs associated with the pathogenesis of asthma. *Journal of translational medicine*, 23(1), 796.