

Resource Summary Report

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

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: 20250517T060227+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 1036 mentions in open access literature.

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

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

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.

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.

Yang J, et al. (2025) Perilipin-2 mediates ferroptosis in oligodendrocyte progenitor cells and myelin injury after ischemic stroke. *Neural regeneration research*, 20(7), 2015.

Li XY, et al. (2025) Tryptophan metabolism-related gene CYP1B1 serves as a shared biomarker for both Parkinson's disease and insomnia. *Scientific reports*, 15(1), 1362.

Zhang L, et al. (2025) Comprehensive analysis pinpoints CCNA2 as a prognostic and immunological biomarker in non-small cell lung cancer. *BMC pulmonary medicine*, 25(1), 14.

Zhao N, et al. (2025) Identification of critical endoplasmic reticulum stress-related genes in advanced atherosclerotic plaque. *Scientific reports*, 15(1), 2107.

George S, et al. (2025) Feasibility of structuring electronic health record data to facilitate real-world data research: ICAREdata methods applied to multicenter cancer clinical trials. *Cancer*, 131(1), e35528.

Li J, et al. (2025) Knockdown of CENPF induces cell cycle arrest and inhibits epithelial-mesenchymal transition progression in glioma. *Oncology letters*, 29(1), 61.

Zhu HR, et al. (2025) Double-negative T cells with a distinct transcriptomic profile are abundant in the peripheral blood of patients with breast cancer. *Breast cancer research and treatment*, 209(1), 103.

Ma Y, et al. (2025) Exploring the comorbidity mechanisms between atherosclerosis and hashimoto's thyroiditis based on microarray and single-cell sequencing analysis. *Scientific reports*, 15(1), 1792.

Linares-Pineda TM, et al. (2025) Longitudinal DNA methylation profiles in saliva of offspring from mothers with gestational diabetes: associations with early childhood growth patterns. *Cardiovascular diabetology*, 24(1), 15.

Zhang X, et al. (2025) MARCHF8-mediated ubiquitination via TGFBI regulates NF- κ B dependent inflammatory responses and ECM degradation in intervertebral disc degeneration. *PloS one*, 20(1), e0314021.

Long H, et al. (2025) Proteomic Characterization of Liver Cancer Cells Treated with Clinical Targeted Drugs for Hepatocellular Carcinoma. *Biomedicines*, 13(1).

Hong Y, et al. (2024) Identification of molecular subtypes and diagnostic model in clear cell renal cell carcinoma based on collagen-related genes may predict the response of immunotherapy. *Frontiers in pharmacology*, 15, 1325447.

Zhao M, et al. (2024) Il1r2 and Tnfrsf12a in transcranial magnetic stimulation effect of ischemic stroke via bioinformatics analysis. *Medicine*, 103(4), e36109.

Xu D, et al. (2024) Integrative bioinformatics analysis of miRNA and mRNA expression profiles and identification of associated miRNA-mRNA network in intracranial aneurysms. *Non-coding RNA research*, 9(2), 471.

Ge X, et al. (2024) Roles of pyroptosis and immune infiltration in aortic dissection. *Frontiers in molecular biosciences*, 11, 1277818.

Chen L, et al. (2024) Identification and validation of mutual hub genes in idiopathic pulmonary fibrosis and rheumatoid arthritis-associated usual interstitial pneumonia. *Heliyon*, 10(7), e28088.