

Resource Summary Report

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OmicsNet

RRID:SCR_016724

Type: Tool

Proper Citation

OmicsNet (RRID:SCR_016724)

Resource Information

URL: <https://www.omicsnet.ca/>

Proper Citation: OmicsNet (RRID:SCR_016724)

Description: Web based tool to create different types of molecular interaction networks and visually explore them in a three-dimensional (3D) space (genes/proteins, microRNAs, transcription factors or metabolites).

Resource Type: data access protocol, web service, production service resource, service resource, analysis service resource, software resource

Defining Citation: [PMID:29878180](#)

Keywords: create, molecular, interaction, network, visually, 3D, gene, protein, microRNA, transcription factor, metabolite, bio.tools

Funding: Natural Sciences and Engineering Research Council of Canada ;
Genome Canada ;
Canada Research Chairs Program

Availability: Free, Freely available

Resource Name: OmicsNet

Resource ID: SCR_016724

Alternate IDs: biotools:omicsnet

Alternate URLs: <https://bio.tools/omicsnet>

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260820T054832+0000

Ratings and Alerts

No rating or validation information has been found for OmicsNet.

No alerts have been found for OmicsNet.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 52 mentions in open access literature.

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

Leroux C, et al. (2026) Goat and cow-milk based infant formulas contain extracellular vesicles with different miRNA and protein cargo. *Current research in food science*, 12, 101453.

Dhami J, et al. (2026) A Network-Based Association of IBD and Colorectal Cancer Using Proteomics Data. *Proteomics. Clinical applications*, 20(2), e70041.

Mei H, et al. (2025) Network analysis of multivariate time series data in biological systems: methods and applications. *Briefings in bioinformatics*, 26(3).

Dewangan B, et al. (2025) Target and biomarker exploration portal for drug discovery. *Bioinformatics (Oxford, England)*, 41(12).

Heuschkel MA, et al. (2025) Hypotaurine Reduces Glucose-Mediated Vascular Calcification. *Acta physiologica (Oxford, England)*, 241(8), e70075.

Li Y, et al. (2025) Artificial intelligence in traditional Chinese medicine: advances in multi-metabolite multi-target interaction modeling. *Frontiers in pharmacology*, 16, 1541509.

Wang H, et al. (2025) Enhancing HepG2 cell apoptosis with a combined nanoparticle delivery of miR-128-3p agomir and Oroxin B: A novel drug delivery approach based on PI3K-AKT and VEGF pathway crosstalk. *Asian journal of pharmaceutical sciences*, 20(3), 100909.

Baumert BO, et al. (2025) Translational framework linking perfluoroheptanoic acid (PFHpA) exposure to metabolic dysfunction associated steatotic liver disease in adolescents. *Communications medicine*, 5(1), 430.

Orji OC, et al. (2025) Global Co-regulatory Cross Talk Between m6A and m5C RNA Methylation Systems Coordinate Cellular Responses and Brain Disease Pathways. *Molecular neurobiology*, 62(4), 5006.

Miao X, et al. (2025) Differential metabolic responses of mouse Leydig and spermatogonia cells to radiofrequency electromagnetic field exposure. *Frontiers in public health*, 13, 1623701.

Huo Z, et al. (2025) Multi-Omics insights into the molecular mechanisms of trochlear dysplasia: A proteomic and metabolomic study in rats. *PloS one*, 20(8), e0325562.

Luo Y, et al. (2025) RUNX1/SLAMF3 Axis Drives Immunosuppression to Contribute to Colorectal Cancer Liver Metastasis by Blocking Phagocytosis and Depleting C1QC+ Tumor-Associated Macrophages. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(32), e06641.

Baumert BO, et al. (2025) Integrated Spheroid-to-Population Framework for Evaluating PFHpA-Associated Metabolic Dysfunction and Steatotic Liver Disease. *Research square*.

Zhang J, et al. (2025) Role of the "inflammation-immunity-metabolism" network in non-small cell lung cancer: a multi-omics analysis. *Discover oncology*, 16(1), 847.

Monzen S, et al. (2025) Secretion of specific metabolites and changes in miRNA expression in murine osteoblastic cells exposed in vitro to ??radiation. *International journal of molecular medicine*, 56(4).

Sun J, et al. (2025) Multi-omics reveal critical roles of phosphatidylcholine and sphingomyelin in antipsychotic efficacy for schizophrenia. *Signal transduction and targeted therapy*, 10(1), 343.

Mantione ME, et al. (2024) Disrupting pro-survival and inflammatory pathways with dimethyl fumarate sensitizes chronic lymphocytic leukemia to cell death. *Cell death & disease*, 15(3), 224.

Zhang J, et al. (2024) The association of GNB5 with Alzheimer disease revealed by genomic analysis restricted to variants impacting gene function. *American journal of human genetics*, 111(3), 473.

Yao T, et al. (2024) *Christensenella minuta* Alleviates Acetaminophen-Induced Hepatotoxicity by Regulating Phenylalanine Metabolism. *Nutrients*, 16(14).

Mok JH, et al. (2024) Differential protein expression and metabolite profiling in glaucoma: Insights from a multi-omics analysis. *BioFactors* (Oxford, England), 50(6), 1220.