

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: software resource, data access protocol, service resource, production service resource, web service, analysis service 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: 20260807T042856+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 [dkNET](#) .

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.

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

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

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.

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.

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.

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

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.

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.

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.

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.

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.

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.