

Resource Summary Report

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National Resource for Network Biology

RRID:SCR_004259

Type: Tool

Proper Citation

National Resource for Network Biology (RRID:SCR_004259)

Resource Information

URL: <http://nrnb.org/index.html>

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Description: Biomedical technology research center that develops new algorithms, visualizations and conceptual frameworks to study biological networks at multiple levels and scales, from protein-protein and genetic interactions to cell-cell communication and vast social networks. They are developing freely available, open-source suite of software technology that broadly enables network-based visualization, analysis, and biomedical discovery for NIH-funded researchers. This software is enabling researchers to assemble large-scale biological data into models of networks and pathways and to use these networks to better understand how biological systems operate under normal conditions and how they fail in disease. The National Resource for Network Biology is organized around the following key components: Technology Research and Development, Driving Biomedical Projects, Outreach, Training and Dissemination of Tools. The NRNB supports several types of training events, including both virtual and live workshops; tutorials sessions for clinicians, biologists and bioinformaticians; presentations and demonstrations at conferences; online tutorials and webcasts; and annual symposium.

Abbreviations: NRNB

Resource Type: biomedical technology research center, training resource

Keywords: protein-protein interaction, interaction, cell, cell communication, network, model, pathway, biological system, disease, visualization, analysis, biomedical, computing and informatics technology center

Funding: NIGMS GM103504;
NCRR RR031228

Resource Name: National Resource for Network Biology

Resource ID: SCR_004259

Alternate IDs: nlx_27231

Record Creation Time: 20220129T080223+0000

Record Last Update: 20260912T200314+0000

Ratings and Alerts

No rating or validation information has been found for National Resource for Network Biology.

No alerts have been found for National Resource for Network Biology.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Ran Y, et al. (2023) Severe Burn Injury Significantly Alters the Gene Expression and m6A Methylation Tagging of mRNAs and lncRNAs in Human Skin. Journal of personalized medicine, 13(1).

Qi Y, et al. (2022) A plant immune protein enables broad antitumor response by rescuing microRNA deficiency. Cell, 185(11), 1888.

Marselli L, et al. (2020) Persistent or Transient Human ?? Cell Dysfunction Induced by Metabolic Stress: Specific Signatures and Shared Gene Expression with Type 2 Diabetes. Cell reports, 33(9), 108466.

Chen H, et al. (2020) Comprehensive analysis of immune infiltration and gene expression for predicting survival in patients with sarcomas. Aging, 13(2), 2168.

Otasek D, et al. (2019) Cytoscape Automation: empowering workflow-based network analysis. Genome biology, 20(1), 185.

Carlin DE, et al. (2017) Network propagation in the cytoscape cyberinfrastructure. PLoS computational biology, 13(10), e1005598.