

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

Network Analysis, Visualization and Graphing TORonto

RRID:SCR_008373

Type: Tool

Proper Citation

Network Analysis, Visualization and Graphing TORonto (RRID:SCR_008373)

Resource Information

URL: <http://ophid.utoronto.ca/navigator/>

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Description: A software package for visualizing and analyzing protein-protein interaction networks. NAViGaTOR can query OPHID / I2D - online databases of interaction data - and display networks in 2D or 3D. To improve scalability and performance, NAViGaTOR combines Java with OpenGL to provide a 2D/3D visualization system on multiple hardware platforms. NAViGaTOR also provides analytical capabilities and supports standard import and export formats such as GO and the Proteomics Standards Initiative (PSI). NAViGaTOR can be installed and run on Microsoft Windows, Linux / UNIX, and Mac OS systems. NAViGaTOR is written in Java and uses JOGL (Java bindings for OpenGL) to support scalability, highlighting or suppressing of information, and other advanced graphic approaches.

Abbreviations: NAViGaTOR

Synonyms: NAViGaTOR - Network Analysis Visualization and Graphing TORonto, NAViGaTOR - Network Analysis Visualization & Graphing TORonto

Resource Type: d visualization software, software resource, software application, data visualization software, data processing software

Defining Citation: [PMID:19837718](#)

Keywords: fly, algorithm, capacity, graphical, graphing, human, interaction, interactome, intersection, mouse, network, node, protein, proteomic, rat, worm, yeast, graphing application, 2d visualization, 3d visualization, visualization, biological network, protein-protein interaction, gene, bio.tools

Funding: Genome Canada ;
Ontario Genomics Institute ;
Canada Research Chair Program ;
Ontario Research Fund Research Excellence ;
Canada Foundation for Innovation 12301;
Canada Foundation for Innovation 203383

Availability: Freely-downloadable for academic and not-for-profit institutions

Resource Name: Network Analysis, Visualization and Graphing TORonto

Resource ID: SCR_008373

Alternate IDs: nif-0000-25610, biotools:navigator

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

Record Creation Time: 20220129T080247+0000

Record Last Update: 20260808T185908+0000

Ratings and Alerts

No rating or validation information has been found for Network Analysis, Visualization and Graphing TORonto.

No alerts have been found for Network Analysis, Visualization and Graphing TORonto.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 55 mentions in open access literature.

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

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

Huniadi M, et al. (2025) Altered microRNA profiles and associated pathways in canine mammary adenocarcinoma. Scientific reports, 16(1), 978.

Anirudhan A, et al. (2023) Comparative Efficacy of Metformin and Glimepiride in Modulating Pharmacological Network to Increase BDNF Levels and Benefit Type 2 Diabetes-Related Cognitive Impairment. Biomedicines, 11(11).

Tavallae G, et al. (2022) Contribution of MicroRNA-27b-3p to Synovial Fibrotic Responses in Knee Osteoarthritis. Arthritis & rheumatology (Hoboken, N.J.), 74(12), 1928.

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Cabral-Marques O, et al. (2022) Autoantibodies targeting GPCRs and RAS-related molecules associate with COVID-19 severity. *Nature communications*, 13(1), 1220.

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França TT, et al. (2021) CD40L modulates transcriptional signatures of neutrophils in the bone marrow associated with development and trafficking. *JCI insight*, 6(16).

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Boutin JA, et al. (2020) The five dimensions of receptor pharmacology exemplified by melatonin receptors: An opinion. *Pharmacology research & perspectives*, 8(1), e00556.

Kotlyar M, et al. (2019) IID 2018 update: context-specific physical protein-protein interactions in human, model organisms and domesticated species. *Nucleic acids research*, 47(D1), D581.

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Zhou G, et al. (2018) OmicsNet: a web-based tool for creation and visual analysis of biological networks in 3D space. *Nucleic acids research*, 46(W1), W514.

Pinheiro M, et al. (2017) HABP2 p.G534E variant in patients with family history of thyroid and breast cancer. *Oncotarget*, 8(25), 40896.

Lu CL, et al. (2017) Uncovering the relationship and mechanisms of Tartary buckwheat (*Fagopyrum tataricum*) and Type II diabetes, hypertension, and hyperlipidemia using a network pharmacology approach. *PeerJ*, 5, e4042.

Mello JB, et al. (2017) Genomic profile in gestational and non-gestational choriocarcinomas. *Placenta*, 50, 8.

Sokolina K, et al. (2017) Systematic protein-protein interaction mapping for clinically relevant human GPCRs. *Molecular systems biology*, 13(3), 918.

Kuasne H, et al. (2017) Integrative miRNA and mRNA analysis in penile carcinomas reveals markers and pathways with potential clinical impact. *Oncotarget*, 8(9), 15294.