

# Resource Summary Report

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## 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/>

**Proper Citation:** Network Analysis, Visualization and Graphing TORonto (RRID:SCR\_008373)

**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, data processing software, data visualization software, software application, software resource

**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:** 20260912T195703+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 55 mentions in open access literature.

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

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.

Muñoz JJAM, et al. (2022) Time-regulated transcripts with the potential to modulate human pluripotent stem cell-derived cardiomyocyte differentiation. *Stem cell research & therapy*, 13(1), 437.

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

Bhat M, et al. (2021) Estrogen Receptor 1 Inhibition of Wnt/ $\beta$ -Catenin Signaling Contributes to Sex Differences in Hepatocarcinogenesis. *Frontiers in oncology*, 11, 777834.

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

Reiter A, et al. (2020) Interleukin-6 Gene Expression Changes after a 4-Week Intake of a Multispecies Probiotic in Major Depressive Disorder-Preliminary Results of the PROVIT Study. *Nutrients*, 12(9).

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.

Felix TF, et al. (2019) MicroRNA modulated networks of adaptive and innate immune response in pancreatic ductal adenocarcinoma. *PloS one*, 14(5), e0217421.

Monette A, et al. (2019) Immune-enrichment of non-small cell lung cancer baseline biopsies for multiplex profiling define prognostic immune checkpoint combinations for patient stratification. *Journal for immunotherapy of cancer*, 7(1), 86.

Wong SWH, et al. (2018) Modeling tumor progression via the comparison of stage-specific graphs. *Methods (San Diego, Calif.)*, 132, 34.

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.

Posfai E, et al. (2017) Position- and Hippo signaling-dependent plasticity during lineage segregation in the early mouse embryo. *eLife*, 6.

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

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.