

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

MAGNet - Multiscale Analysis of Genomic and Cellular Networks

RRID:SCR_004399

Type: Tool

Proper Citation

MAGNet - Multiscale Analysis of Genomic and Cellular Networks (RRID:SCR_004399)

Resource Information

URL: <http://magnet.c2b2.columbia.edu/>

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Description: The mission of the Center for the Multiscale Analysis of Genomic and Cellular Networks (MAGNet) is to develop novel Structural and Systems Biology methods and tools for the dissection of molecular interactions in the cell and for the interaction-based elucidation of cellular phenotypes. These tools are made freely available to the members of the research community. They are also validated in the context of the Center's own research program through collaborative projects with experimental biologists. MAGNet is one of 7 National Centers for Biomedical Computing (NCBC). These Centers, in conjunction with individual investigator awards, are creating a networked effort to build the computational infrastructure for biomedical computing in the nation. The NCBC program is devoted to all facets of biomedical computing, from basic research in computational science to providing the tools and resources that biomedical and behavioral researchers need to do their work. In addition to carrying out fundamental research the NCBCs play a major role in educating and training researchers to engage in biomedical computing. MAGNet is also one of 12 inter-disciplinary Centers for Cancer Systems Biology (CCSBs), a component of the National Cancer Institute's Integrative Cancer Biology Program. The CCSBs provide a core framework for applying systems biology approaches to cancer research through the development and implementation of computational models of processes relevant to cancer prevention, diagnostics and therapeutics. The CCSBs seek to integrate experimental biology with mathematical modeling to foster new insights in the biology and new approaches to the management of cancer. MAGNet's Training Core ensures that the methods developed by the Center are integrated into the educational offerings of Columbia University's Medical School.

Abbreviations: MAGNet

Synonyms: Center for the Multiscale Analysis of Genomic and Cellular Networks

Resource Type: data or information resource, organization portal, portal, training resource

Keywords: cellular networks, cellular processes, biochemical interactions

Resource Name: MAGNet - Multiscale Analysis of Genomic and Cellular Networks

Resource ID: SCR_004399

Alternate IDs: nlx_40968

Record Creation Time: 20220129T080224+0000

Record Last Update: 20260905T132519+0000

Ratings and Alerts

No rating or validation information has been found for MAGNet - Multiscale Analysis of Genomic and Cellular Networks.

No alerts have been found for MAGNet - Multiscale Analysis of Genomic and Cellular Networks.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Giorgi FM, et al. (2014) Inferring protein modulation from gene expression data using conditional mutual information. PloS one, 9(10), e109569.