

Resource Summary Report

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Chilibot: Gene and Protein relationships from MEDLINE

RRID:SCR_001705

Type: Tool

Proper Citation

Chilibot: Gene and Protein relationships from MEDLINE (RRID:SCR_001705)

Resource Information

URL: <http://www.chilibot.net/>

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Description: Data analysis service that searches PubMed literature database (abstracts) about specific relationships between proteins, genes, or keywords using a NLP-based text-mining approach. The results are returned as a graph. The synonym database used in Chilibot is available, without fee, for academic use only. Several different search methods are supported including: * searching for relationship between two genes, proteins or keywords * searching for relationships between many genes, proteins, or keywords * searching for relationships between two lists of genes, proteins, or keywords Advanced options include: * Automated hypothesis generation (graph) * Restricting context using keywords * Providing your own synonyms * Modifying synonyms provided by Chilibot * Color coding nodes with gene expression values * Special search: modulation

Abbreviations: Chilibot

Synonyms: Chilibot - Mining PubMed for relationships

Resource Type: data analysis service, analysis service resource, database, production service resource, service resource, data or information resource

Defining Citation: [PMID:15473905](#)

Keywords: drug, gene, literature, natural language processing, protein, text-mining, network, keyword, biological concept, graph, bio.tools

Funding: PHS DA-03977

Availability: Free for academic use, Acknowledgement required

Resource Name: Chilibot: Gene and Protein relationships from MEDLINE

Resource ID: SCR_001705

Alternate IDs: nif-0000-10196, OMICS_01176, biotools:chilibot

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

Record Creation Time: 20220129T080209+0000

Record Last Update: 20250420T014036+0000

Ratings and Alerts

No rating or validation information has been found for Chilibot: Gene and Protein relationships from MEDLINE.

No alerts have been found for Chilibot: Gene and Protein relationships from MEDLINE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Cheng J, et al. (2024) Myeloid cells coordinately induce glioma cell-intrinsic and cell-extrinsic pathways for chemoresistance via GP130 signaling. Cell reports. Medicine, 5(8), 101658.

Yang R, et al. (2022) Downregulation of Nck1 After Spinal Cord Injury in Adult Rats. Balkan medical journal, 39(1), 39.

Jia Y, et al. (2022) Genetic dissection of glutathione S-transferase omega-1: identification of novel downstream targets and Alzheimer's disease pathways. Neural regeneration research, 17(11), 2452.

Cierco Jimenez R, et al. (2022) Machine learning computational tools to assist the performance of systematic reviews: A mapping review. *BMC medical research methodology*, 22(1), 322.

Wang Y, et al. (2019) ANXA3 Silencing Ameliorates Intracranial Aneurysm via Inhibition of the JNK Signaling Pathway. *Molecular therapy. Nucleic acids*, 17, 540.

Purdie AC, et al. (2019) Gene expression profiles during subclinical *Mycobacterium avium* subspecies *paratuberculosis* infection in sheep can predict disease outcome. *Scientific reports*, 9(1), 8245.

D'Arcangelo D, et al. (2019) Ion Channel Expression in Human Melanoma Samples: In Silico Identification and Experimental Validation of Molecular Targets. *Cancers*, 11(4).

Radhakrishna U, et al. (2019) Placental epigenetics for evaluation of fetal congenital heart defects: Ventricular Septal Defect (VSD). *PloS one*, 14(3), e0200229.

Lu Y, et al. (2019) Investigating a downstream gene of *Gpnmb* using the systems genetics method. *Molecular vision*, 25, 222.

Li Y, et al. (2019) RNA sequencing screening of differentially expressed genes after spinal cord injury. *Neural regeneration research*, 14(9), 1583.

D'Arcangelo D, et al. (2018) *WIPI1*, *BAG1*, and *PEX3* Autophagy-Related Genes Are Relevant Melanoma Markers. *Oxidative medicine and cellular longevity*, 2018, 1471682.

Lu Y, et al. (2018) The genetic dissection of *Myo7a* gene expression in the retinas of BXD mice. *Molecular vision*, 24, 115.

Mulligan MK, et al. (2018) Genetic Contribution to Initial and Progressive Alcohol Intake Among Recombinant Inbred Strains of Mice. *Frontiers in genetics*, 9, 370.

Radhakrishna U, et al. (2018) Newborn blood DNA epigenetic variations and signaling pathway genes associated with Tetralogy of Fallot (TOF). *PloS one*, 13(9), e0203893.

Xu J, et al. (2016) Genetic regulation analysis reveals involvement of tumor necrosis factor and alpha-induced protein 3 in stress response in mice. *Gene*, 576(1 Pt 3), 528.

Radhakrishna U, et al. (2016) Genome-Wide DNA Methylation Analysis and Epigenetic Variations Associated with Congenital Aortic Valve Stenosis (AVS). *PloS one*, 11(5), e0154010.

Duan C, et al. (2016) Genetic expression analysis of E2F-associated phosphoprotein in stress responses in the mouse. *Gene*, 581(2), 130.

Lu L, et al. (2016) The Genetic Architecture of Murine Glutathione Transferases. *PloS one*, 11(2), e0148230.

Russo LM, et al. (2015) Mapping of genetic loci that modulate differential colonization by *Escherichia coli* O157:H7 TUV86-2 in advanced recombinant inbred BXD mice. *BMC genomics*, 16, 947.

Frick A, et al. (2015) Identifying genes that mediate anthracycline toxicity in immune cells. *Frontiers in pharmacology*, 6, 62.