Resource Summary Report

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GeneAnswers

RRID:SCR_006498
Type: Tool

Proper Citation

GeneAnswers (RRID:SCR_006498)

Resource Information

URL: http://bioconductor.org/packages/bioc/html/GeneAnswers.html

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Description: GeneAnswers provide an integrated tool for given genes biological or medical interpretation. It includes statistical test of given genes and specified categories. Microarray techniques have been widely employed in genomic scale studies for more than one decade. The standard analysis of microarray data is to filter out a group of genes from thousands of probes by certain statistical criteria. These genes are usually called significantly differentially expressed genes. Recently, next generation sequencing (NGS) is gradually adopted to explore gene transcription, methylation, etc. Also a gene list can be obtained by NGS preliminary data analysis. However, this type of information is not enough to understand the potential linkage between identified genes and interested functions. The integrated functional and pathway analysis with gene expression data would be very helpful for researchers to interpret the relationship between the identified genes and proposed biological or medical functions and pathways. The GeneAnswers package provides an integrated solution for a group of genes and specified categories (biological or medical functions, such as Gene Ontology, Disease Ontology, KEGG, etc) to reveal the potential relationship between them by means of statistical methods, and make user-friendly network visualization to interpret the results. Besides the package has a function to combine gene expression profile and category analysis together by outputting concept-gene cross tables, keywords query on NCBI Entrez Gene and application of human based Disease ontology analysis of given genes from other species can help people to understand or discover potential connection between genes and functions. Sponsors: This project was supported in part by Award Number UL1RR025741 from the National Center for Research Resources.

Synonyms: GeneAnswers

Resource Type: data processing software, software application, data analysis software,

software resource, data visualization software

Keywords: expression, function, gene, analysis, biological, genomic, medical, microarray, network, pathway, technique, transcription, visualization

Funding:

Resource Name: GeneAnswers

Resource ID: SCR_006498

Alternate IDs: nif-0000-25387

Record Creation Time: 20220129T080236+0000

Record Last Update: 20250418T055132+0000

Ratings and Alerts

No rating or validation information has been found for GeneAnswers.

No alerts have been found for GeneAnswers.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 46 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Xu H, et al. (2023) Celastrol suppresses colorectal cancer via covalent targeting peroxiredoxin 1. Signal transduction and targeted therapy, 8(1), 51.

Flum M, et al. (2022) Canonical TGF? signaling induces collective invasion in colorectal carcinogenesis through a Snail1- and Zeb1-independent partial EMT. Oncogene, 41(10), 1492.

Kip AM, et al. (2022) Temporal Transcript Profiling Identifies a Role for Unfolded Protein Stress in Human Gut Ischemia-Reperfusion Injury. Cellular and molecular gastroenterology and hepatology, 13(3), 681.

Hoefflin R, et al. (2021) Therapeutic Effects of Inhibition of Sphingosine-1-Phosphate Signaling in HIF-2? Inhibitor-Resistant Clear Cell Renal Cell Carcinoma. Cancers, 13(19).

Lin CJ, et al. (2021) Tissue-specific smooth muscle cell subtypes identified by transcriptional profiling. The international journal of biochemistry & cell biology, 139, 106055.

Basic V, et al. (2021) Integrative meta-analysis of gene expression profiles identifies FEN1 and ENDOU as potential diagnostic biomarkers for cervical squamous cell carcinoma. Oncology letters, 22(6), 840.

Mendoza N, et al. (2021) Liver epigenome changes in patients with hepatopulmonary syndrome: A pilot study. PloS one, 16(2), e0245046.

Yuan G, et al. (2021) Elevated NSD3 histone methylation activity drives squamous cell lung cancer. Nature, 590(7846), 504.

Miao Y, et al. (2020) Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome. Cell stem cell, 27(4), 574.

Zuo Y, et al. (2020) 17?AAG synergizes with Belinostat to exhibit a negative effect on the proliferation and invasion of MDA?MB?231 breast cancer cells. Oncology reports, 43(6), 1928.

Hoefflin R, et al. (2020) HIF-1? and HIF-2? differently regulate tumour development and inflammation of clear cell renal cell carcinoma in mice. Nature communications, 11(1), 4111.

Zhu H, et al. (2019) Pluripotent stem cells as a source of osteoblasts for bone tissue regeneration. Biomaterials, 196, 31.

Liu ZK, et al. (2019) Identification of crucial genes based on expression profiles of hepatocellular carcinomas by bioinformatics analysis. PeerJ, 7, e7436.

Liu H, et al. (2019) Overexpression of IGF2BP3 as a Potential Oncogene in Ovarian Clear Cell Carcinoma. Frontiers in oncology, 9, 1570.

Ong SB, et al. (2019) Calpain Inhibition Restores Autophagy and Prevents Mitochondrial Fragmentation in a Human iPSC Model of Diabetic Endotheliopathy. Stem cell reports, 12(3), 597.

Wu X, et al. (2019) Identification of Key Genes and Pathways in Cervical Cancer by Bioinformatics Analysis. International journal of medical sciences, 16(6), 800.

Chen W, et al. (2018) Development and evaluation of a novel series of Nitroxoline-derived BET inhibitors with antitumor activity in renal cell carcinoma. Oncogenesis, 7(11), 83.

Podemska-Jedrzejczak Z, et al. (2018) Vascular restenosis in coronary artery bypass grafting might be associated with VEGF-C/VEGFR-3 signaling pathway. Heart and vessels, 33(9), 1106.

Lin KH, et al. (2018) RNA-seq transcriptome analysis of breast cancer cell lines under shikonin treatment. Scientific reports, 8(1), 2672.

Lu W, et al. (2018) Discovery and biological evaluation of thiobarbituric derivatives as potent p300/CBP inhibitors. Bioorganic & medicinal chemistry, 26(20), 5397.