GenePattern

RRID:SCR_003201
Type: Tool

Proper Citation

GenePattern (RRID:SCR_003201)

Resource Information

URL: http://www.broadinstitute.org/cancer/software/genepattern

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Description: A powerful genomic analysis platform that provides access to hundreds of tools for gene expression analysis, proteomics, SNP analysis, flow cytometry, RNA-seq analysis, and common data processing tasks. A web-based interface provides easy access to these tools and allows the creation of multi-step analysis pipelines that enable reproducible in silico research.

Abbreviations: GenePattern

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

Defining Citation: PMID:16642009

Keywords: gene expression, analysis, genomic, pattern, proteomics, silico, snp, workflow, analysis pipeline, flow cytometry, rna-seq, data processing, bio.tools

Funding: NCI ;
NIGMS

Resource Name: GenePattern

Resource ID: SCR_003201

Alternate IDs: biotools:genepattern, OMICS_01855, nif-0000-30654

Alternate URLs: https://bio.tools/genepattern

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250409T060242+0000

Ratings and Alerts

No rating or validation information has been found for GenePattern.

No alerts have been found for GenePattern.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 986 mentions in open access literature.

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

Weber M, et al. (2025) Transcriptomic and proteomic profiling identifies feline fibrosarcoma as clinically amenable model for aggressive sarcoma subtypes. Neoplasia (New York, N.Y.), 60, 101104.

Chen N, et al. (2025) KMO-driven metabolic reconfiguration and its impact on immune cell infiltration in nasopharyngeal carcinoma: a new avenue for immunotherapy. Cancer immunology, immunotherapy : CII, 74(3), 75.

Li Y, et al. (2025) Investigating the dysregulation of genes associated with glucose and lipid metabolism in gastric cancer and their influence on immunity and prognosis. BioFactors (Oxford, England), 51(1), e2138.

Elhinnawi MA, et al. (2025) GPNMB is a novel binding partner of FGFR1 that affects tumorigenic potential through AKT phosphorylation in TNBC. Cancer science, 116(2), 432.

Yu R, et al. (2025) ATRX mutation modifies the DNA damage response in glioblastoma multiforme tumor cells and enhances patient prognosis. Medicine, 104(2), e41180.

Kolapalli SP, et al. (2025) Pellino 3 E3 ligase promotes starvation-induced autophagy to prevent hepatic steatosis. Science advances, 11(3), eadr2450.

Jani C, et al. (2025) VPS18 contributes to phagosome membrane integrity in Mycobacterium tuberculosis-infected macrophages. Science advances, 11(5), eadr6166.

Fridland S, et al. (2024) Differential impact of intratumor heterogeneity (ITH) on survival outcomes in early-stage lung squamous and adenocarcinoma based on tumor mutational burden (TMB). Translational lung cancer research, 13(7), 1481.

Cheng X, et al. (2024) The crosstalk role of CDKN2A between tumor progression and cuproptosis resistance in colorectal cancer. Aging, 16(12), 10512.

San Gil R, et al. (2024) A transient protein folding response targets aggregation in the early phase of TDP-43-mediated neurodegeneration. Nature communications, 15(1), 1508.

Iqbal MA, et al. (2024) Protocol for performing metabolic pathway-based subtyping of breast tumors. STAR protocols, 5(3), 103173.

Han L, et al. (2024) Pan-cell death-related signature reveals tumor immune microenvironment and optimizes personalized therapy alternations in lung adenocarcinoma. Scientific reports, 14(1), 15682.

Attaran N, et al. (2024) Upregulation of Apoptosis Related Genes in Clinically Normal Tongue Contralateral to Squamous Cell Carcinoma of the Oral Tongue, an Effort to Maintain Tissue Homeostasis. Head and neck pathology, 18(1), 89.

Chakraborty R, et al. (2024) Pseudonormal Morphology of Salivary Gland Adenoid Cystic Carcinoma Cells Subverts the Antitumor Reactivity of Immune Cells: A Tumour-Cell-Based Initiation of Immune Evasion. Cancer reports (Hoboken, N.J.), 7(9), e70019.

Guan P, et al. (2024) Comprehensive molecular characterization of collecting duct carcinoma for therapeutic vulnerability. EMBO molecular medicine, 16(9), 2132.

Oblinger JL, et al. (2024) Anti-tumor effects of the eIF4A inhibitor didesmethylrocaglamide and its derivatives in human and canine osteosarcomas. Scientific reports, 14(1), 19349.

Zou W, et al. (2024) Transcriptomic and genomic characteristics of intrahepatic metastases of primary liver cancer. BMC cancer, 24(1), 672.

Nazemof N, et al. (2024) Cytotoxic Potencies of Zinc Oxide Nanoforms in A549 and J774 Cells. Nanomaterials (Basel, Switzerland), 14(19).

Morel KL, et al. (2024) Low tristetraprolin expression activates phenotypic plasticity and primes transition to lethal prostate cancer in mice. The Journal of clinical investigation, 135(2).

Fan Z, et al. (2024) A transcriptome based molecular classification scheme for cholangiocarcinoma and subtype-derived prognostic biomarker. Nature communications, 15(1), 484.