

Resource Summary Report

Generated by [RRID](#) on Apr 9, 2025

[ReactomePA](#)

RRID:SCR_019316

Type: Tool

Proper Citation

ReactomePA (RRID:SCR_019316)

Resource Information

URL: <https://bioconductor.org/packages/ReactomePA/>

Proper Citation: ReactomePA (RRID:SCR_019316)

Description: Software R package provides functions for pathway analysis based on REACTOME pathway database. It implements enrichment analysis, gene set enrichment analysis and several functions for visualization.

Synonyms: Reactome Pathway Analysis

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

Defining Citation: [PMID:26661513](#)

Keywords: pathway analysis, REACTOME pathway, REACTOME database, enrichment analysis, gene set enrichment analysis, bio.tools

Funding:

Availability: Free, Available for download, Freely available

Resource Name: ReactomePA

Resource ID: SCR_019316

Alternate IDs: biotools:reactomepa

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

License: GPL v2

Record Creation Time: 20220129T080344+0000

Record Last Update: 20250407T220604+0000

Ratings and Alerts

No rating or validation information has been found for ReactomePA.

No alerts have been found for ReactomePA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 55 mentions in open access literature.

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

Ziegler DV, et al. (2025) CDK4 inactivation inhibits apoptosis via mitochondria-ER contact remodeling in triple-negative breast cancer. *Nature communications*, 16(1), 541.

Chua EW, et al. (2024) A concise guide to essential R packages for analyses of DNA, RNA, and proteins. *Molecules and cells*, 47(11), 100120.

Kim SC, et al. (2024) Effects of simulated microgravity on colorectal cancer organoids growth and drug response. *Scientific reports*, 14(1), 25526.

Zarnani K, et al. (2024) In-utero transfer of decidualized endometrial stromal cells increases the frequency of regulatory T cells and normalizes the abortion rate in the CBA/J × DBA/2 abortion model. *Frontiers in immunology*, 15, 1440388.

Wang L, et al. (2024) Sorafenib inhibits ossification of the posterior longitudinal ligament by blocking LOXL2-mediated vascularization. *Bone research*, 12(1), 24.

Tondi S, et al. (2024) Molecular Signature of Monocytes Shaped by the *Shigella sonnei* 1790- Generalized Modules for Membrane Antigens Vaccine. *International journal of molecular sciences*, 25(2).

Hashemi E, et al. (2024) Transcriptomic diversity of innate lymphoid cells in human lymph nodes compared to BM and spleen. *Communications biology*, 7(1), 769.

Inciuraite R, et al. (2024) The microRNA expression in crypt-top and crypt-bottom colonic

epithelial cell populations demonstrates cell-type specificity and correlates with endoscopic activity in ulcerative colitis. *Journal of Crohn's & colitis*, 18(12), 2033.

Thombare K, et al. (2024) METTL3/MYCN cooperation drives neural crest differentiation and provides therapeutic vulnerability in neuroblastoma. *The EMBO journal*, 43(24), 6310.

Zhang J, et al. (2024) Protocol to infer and analyze miRNA sponge modules in heterogeneous data using miRSM 2.0. *STAR protocols*, 5(4), 103317.

Conte TC, et al. (2023) Clearance of defective muscle stem cells by senolytics restores myogenesis in myotonic dystrophy type 1. *Nature communications*, 14(1), 4033.

Gomes I, et al. (2023) Co-targeting RANK pathway treats and prevents acquired resistance to CDK4/6 inhibitors in luminal breast cancer. *Cell reports. Medicine*, 4(8), 101120.

Yazar V, et al. (2023) Impaired ATF3 signaling involves SNAP25 in SOD1 mutant ALS patients. *Scientific reports*, 13(1), 12019.

Zhang Y, et al. (2023) Transcriptomic analysis of mRNAs in human whole blood identified age-specific changes in healthy individuals. *Medicine*, 102(49), e36486.

Wang RM, et al. (2023) Immunomodulatory contribution of mast cells to the regenerative biomaterial microenvironment. *NPJ Regenerative medicine*, 8(1), 53.

Wang J, et al. (2023) A comprehensive atlas of epigenetic regulators reveals tissue-specific epigenetic regulation patterns. *Epigenetics*, 18(1), 2139067.

Kumar M, et al. (2023) PDGF gene expression and p53 alterations contribute to the biology of diffuse astrocytic gliomas. *NPJ genomic medicine*, 8(1), 6.

Nakayama J, et al. (2023) Cancer-prone Phenotypes and Gene Expression Heterogeneity at Single-cell Resolution in Cigarette-smoking Lungs. *Cancer research communications*, 3(11), 2280.

Berquez M, et al. (2023) Lysosomal cystine export regulates mTORC1 signaling to guide kidney epithelial cell fate specialization. *Nature communications*, 14(1), 3994.

James EA, et al. (2023) Multifaceted immune dysregulation characterizes individuals at-risk for rheumatoid arthritis. *Nature communications*, 14(1), 7637.