# **Resource Summary Report**

Generated by NIF on Apr 26, 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:** data processing software, data analysis software, data visualization software, software resource, software application

**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:** 20250426T060750+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 NIF.

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.

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.

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).

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.

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

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.

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

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

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.

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

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.