

Resource Summary Report

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Reactome Knowledgebase

RRID:SCR_023504

Type: Tool

Proper Citation

Reactome Knowledgebase (RRID:SCR_023504)

Resource Information

URL: <https://reactome.org/>

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Description: Open source relational database of signaling and metabolic molecules and their relations organized into biological pathways and processes. Core unit of Reactome data model is the reaction. Entities (nucleic acids, proteins, complexes, vaccines, anti-cancer therapeutics and small molecules) participating in reactions form network of biological interactions and are grouped into pathways including classical intermediary metabolism, signaling, transcriptional regulation, apoptosis and disease. External domain expert provides expertise, curator formalizes it into database structure, and external domain expert reviews representation. System of evidence tracking ensures that all assertions are backed up by primary literature. Website is designed to give the user graphical map of known biological processes and pathways that is also an interface. Database and website enable to find, organize, and utilize biological information to support data visualization, integration and analysis.

Synonyms: Reactome

Resource Type: data access protocol, data or information resource, database, software resource, web service

Keywords: signaling and metabolic molecules relations, biological pathways and processes, intermediary metabolism, signaling, transcriptional regulation, apoptosis, disease

Funding: NHGRI U24 HG012198

Availability: Free, Freely available

Resource Name: Reactome Knowledgebase

Resource ID: SCR_023504

Record Creation Time: 20230426T050216+0000

Record Last Update: 20260829T182820+0000

Ratings and Alerts

No rating or validation information has been found for Reactome Knowledgebase.

No alerts have been found for Reactome Knowledgebase.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 872 mentions in open access literature.

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

Ehlen L, et al. (2026) Lung tumouroids as a testing platform for precision CAR T cell therapy. Nature biomedical engineering, 10(4), 815.

Banerjee A, et al. (2026) Silencing Ubiquitin-Specific Peptidase 10 Alleviates Persistent Corneal Epithelial Defect in Mice. The American journal of pathology, 196(2), 575.

Palomeque JÁ, et al. (2026) Estrogen receptor signaling drives immune evasion and immunotherapy resistance in HR+ breast cancer. The Journal of clinical investigation, 136(2).

Chen Z, et al. (2026) USP1 promotes hepatocellular carcinoma progression by modulating mitophagy via stabilizing MCM3 to regulate the Keap1-Nrf2 axis. iScience, 29(3), 114927.

Chiolerio P, et al. (2026) Human neuromuscular organoids mimic cancer-induced muscle cachexia. Cell reports methods, 6(2), 101331.

Lamping M, et al. (2026) Mechanistic insights into postoperative delirium using untargeted high-throughput proteomics in elderly patients - a case-control study. Scientific reports, 16(1), 5400.

Jain V, et al. (2026) Detection of germline variants in human population chronically exposed to high level natural background radiation in Kerala coast. Genes and environment : the official journal of the Japanese Environmental Mutagen Society, 48(1).

Liu S, et al. (2026) Interpretable machine learning-based survival prediction and key gene identification in cancer using gene expression and clinical data. Translational cancer research, 15(2), 96.

Angelis NV, et al. (2026) Ole-4, a novel synthetic derivative of Oleuropein, enhances antitumor immunity and modulates kinase activity-dependent signaling. Journal of

translational medicine, 24(1).

Xuan Z, et al. (2026) Exploring the molecular mechanism of Er Miao San for treating rheumatoid arthritis based on network pharmacology. BMC complementary medicine and therapies, 26(1).

Boyd RJ, et al. (2026) Proteomic profiling of brain organoids and extracellular vesicles identifies early Alzheimer's disease biomarkers and drug response heterogeneity. Alzheimer's & dementia : the journal of the Alzheimer's Association, 22(4), e71273.

Cao M, et al. (2026) Integrative multi-omics analysis identifies SNRPE as a key driver gene in uterine corpus endometrial carcinoma: promoting tumor progression, and mediating immune evasion. Frontiers in immunology, 17, 1827474.

Zhao K, et al. (2026) Potentiation of the altered immune microenvironment following RF ablation of murine distant tumors with CTLA-4 immunotherapy. European radiology experimental, 10(1).

Bandyopadhyay S, et al. (2026) Comparative proteomics of human naso-oropharyngeal swabs from COVID19 patients for identification of potential biomarker candidates. Biochemistry and biophysics reports, 47, 102681.

Matteo G, et al. (2026) Cross-study analysis identifies estrogen depletion and exposure duration as key determinants of bisphenol A transcriptomic potency in MCF-7 cells. Toxicology reports, 17, 102305.

Koçanc? FG, et al. (2026) Neuropeptide S Protects Dopaminergic Neurons in a Paraquat-Induced Parkinson's Model Using SH-SY5Y Cells. Molecular neurobiology, 63(1), 416.

Islam KMT, et al. (2026) SIRT7 as a context-dependent biomarker and therapeutic target: Insights from a pan-cancer study. PloS one, 21(2), e0342269.

Kang H, et al. (2026) RNA-seq evaluation of equine alveolar macrophages and monocyte-derived macrophages exposed to an inflammatory stimulus (short communication). BMC veterinary research, 22(1).

Tu S, et al. (2026) Lipid metabolism classification of gliomas. Scientific reports, 16(1).

Arcego DM, et al. (2026) Sex-specific interaction effects of Syntaxin 1A coexpression network and childhood trauma on adult depressive symptoms. EBioMedicine, 123, 106062.