

Resource Summary Report

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Reactome

RRID:SCR_003485

Type: Tool

Proper Citation

Reactome (RRID:SCR_003485)

Resource Information

URL: <http://www.reactome.org>

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Description: Collection of pathways and pathway annotations. The core unit of the Reactome data model is the reaction. Entities (nucleic acids, proteins, complexes and small molecules) participating in reactions form a network of biological interactions and are grouped into pathways (signaling, innate and acquired immune function, transcriptional regulation, translation, apoptosis and classical intermediary metabolism) . Provides website to navigate pathway knowledge and a suite of data analysis tools to support the pathway-based analysis of complex experimental and computational data sets.

Synonyms: Reactome Functional Interaction Network

Resource Type: analysis service resource, data analysis service, data or information resource, database, production service resource, service resource

Defining Citation: [PMID:21082427](#), [PMID:21067998](#)

Keywords: pathway, interaction, reaction, nucleic acid, protein, complex, small molecule, signaling pathway, immune function, transcriptional regulation, translation, apoptosis, metabolism, ortholog, visualization, protein-protein interaction, web service, book, biomart, gold standard, bio.tools, FASEB list

Funding: European Molecular Biology Laboratory ;
European Union FP6 ENFIN LSHG-CT-2005-518254;
NHGRI P41 HG003751;
NIGMS GM080223;
NIGMS R01 GM100039;
Ontario Research Fund

Availability: Open source, Public, Freely available

Resource Name: Reactome

Resource ID: SCR_003485

Alternate IDs: r3d100010285, nif-0000-03390, biotools:reactome

Alternate URLs: <https://bio.tools/reactome>, <https://doi.org/10.17616/R3V59P>

Record Creation Time: 20220129T080219+0000

Record Last Update: 20260905T132504+0000

Ratings and Alerts

No rating or validation information has been found for Reactome.

No alerts have been found for Reactome.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4810 mentions in open access literature.

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

Roger E, et al. (2026) ATM Deficiency Induces TGF β -Mediated Stromal Programming in Pancreatic Cancer. Cancer research, 86(14), 3412.

Hübschmann D, et al. (2026) The Knowledge Connector decision support system for multiomics-based precision oncology. Nature communications, 17(1), 742.

Yekedüz E, et al. (2026) Integrative Clinical and Molecular Evaluation of Renal Cell Carcinoma with Merlin Protein Deficiency and Biallelic Loss of NF2. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(6), 1169.

Nigri J, et al. (2026) Myofibroblasts Induce Neuroplasticity to Promote Pancreatic Inflammation and Cancer Progression. Cancer discovery, 16(5), 1014.

Radloff HS, et al. (2026) A single-cell derived spheroid approach to dissect intratumoural heterogeneity in colorectal cancer: cell lines show changes in proteomes and therapeutic response to 5-FU. Journal of cancer research and clinical oncology, 152(1), 43.

Reavis HD, et al. (2026) Alprazolam Reduces Inflammatory Cytokine Production in Pancreatic Cancer-Associated Fibroblasts. Cancer research communications, 6(5), 1048.

Ali M, et al. (2026) Large-scale CSF and plasma proteomics reveal immune, synaptic, and extracellular matrix disruptions across neurodegenerative diseases. Neuron, 114(14),

Bloomfield M, et al. (2026) Cell and Nuclear Size Is Associated with Chromosomal Instability and Tumorigenicity in Cancer Cells That Undergo Whole Genome Doubling. *Cancer research*, 86(9), 2126.

da Silva LQ, et al. (2026) Plasma Proteomic Profile of Chemotherapy-Induced Severe Neutropenia: A Pilot Discovery Phase Study. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(3), e71517.

Abd El-Salam M, et al. (2026) Synergistic effects through targeting the PI3K and IGFR pathways in treating lung cancer carrying activation alterations along the PI3K pathway. *Translational oncology*, 67, 102753.

Zhang Y, et al. (2026) Co-occurrence of transcriptionally distinct persister cell states underpins neoadjuvant therapy resistance in triple-negative breast cancer. *Genome medicine*, 18(1).

Kandel R, et al. (2026) Transcriptomics reveal dysregulated genes during folic acid-induced acute injury and fibrosis in kidney and their attenuation by antioxidant N-acetyl cysteine. *American journal of physiology. Cell physiology*, 331(1), C177.

Sharma S, et al. (2026) MLC1 alteration in human iPSCs give rise to disease-like cellular vacuolation phenotype in the astrocyte lineage. *Orphanet journal of rare diseases*, 21(1).

Kroehling L, et al. (2026) A highly resolved integrated single-cell atlas of HPV-negative head and neck cancer. *Communications medicine*, 6(1).

Do KV, et al. (2026) Molecular remodeling of cancer-associated fibroblasts in breast cancer patients receiving anti-PD-1 immunotherapy. *Frontiers in oncology*, 16, 1754311.

Xu X, et al. (2026) A Multistep Immune-Competent Genetically Engineered Mouse Model Reveals Phenotypic Plasticity in Uveal Melanoma. *Cancer research*, 86(15), 3666.

Altendorf L, et al. (2026) Molecular changes during AT/RT progression associated with epithelial-mesenchymal transition and extracellular matrix changes. *Acta neuropathologica*, 152(1).

Tsymala I, et al. (2026) Innate lymphoid cells integrate sensing and plasticity to control fungal infections. *Cell reports*, 45(4), 117140.

Jain S, et al. (2026) Hepatocyte-Specific MET Deletion Exacerbates Acetaminophen-Induced Hepatotoxicity in Mice. *The American journal of pathology*, 196(2), 388.

Gaigne LP, et al. (2026) Whole Exome Sequencing in Children With Autoimmune Hepatitis Identified Mutations in Genes Involved in the mTORC1 Signaling Pathway. *Gastro hep advances*, 5(1), 100808.