

Resource Summary Report

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PubChem BioAssay

RRID:SCR_010734

Type: Tool

Proper Citation

PubChem BioAssay (RRID:SCR_010734)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/sites/entrez?db=pcassay&cmd=search>

Proper Citation: PubChem BioAssay (RRID:SCR_010734)

Description: Data and information collection and repository for biological activities of small molecules and small interfering RNAs (siRNAs) hosted by the US National Institutes of Health (NIH). Used to select and summarize the bioactivities of tested substances.

Abbreviations: PubChem BioAssay

Synonyms: NCBI PubChem BioAssay, PubChem BioAssay Database

Resource Type: service resource, data repository, data or information resource, database, storage service resource

Defining Citation: [PMID:19933261](#), [PMID:22140110](#)

Keywords: collection, compound, substance, bioassay, chemical, structure, biological, activity

Funding: Intramural Research program of the National Institutes of Health

Resource Name: PubChem BioAssay

Resource ID: SCR_010734

Alternate IDs: nlx_93939

Alternate URLs: <http://pubchem.ncbi.nlm.nih.gov/>, <https://www.ncbi.nlm.nih.gov/pcassay>

Record Creation Time: 20220129T080300+0000

Record Last Update: 20260731T042838+0000

Ratings and Alerts

No rating or validation information has been found for PubChem BioAssay.

No alerts have been found for PubChem BioAssay.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 255 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Zheng R, et al. (2026) Saikosaponin D overcomes gemcitabine resistance in pancreatic cancer via AKT/mTOR pathway inhibition and synergistic induction of apoptosis and autophagy. *Oncology reports*, 55(2).

Tang H, et al. (2025) Molecular Mechanism Analysis of the Effect of Hederagenin Combined with L-OHP on Chemosensitivity of AGS/L-OHP based on Network Pharmacology. *Current computer-aided drug design*, 21(5), 587.

Gómez-Sacristán P, et al. (2025) Inactive-enriched machine-learning models exploiting patent data improve structure-based virtual screening for PDL1 dimerizers. *Journal of advanced research*, 67, 185.

Yu L, et al. (2025) Unveiling the anti-inflammatory mechanism of exogenous hydrogen sulfide in Kawasaki disease based on network pharmacology and experimental validation. *Scientific reports*, 15(1), 7410.

Elshibani FA, et al. (2025) GC-MS and HPLC chemical profile, antioxidant, anti-acetylcholinesterase, and anti-diabetic activities of Libyan *Salvia lanigera* herb extract and essential oil. *Scientific reports*, 15(1), 31853.

Li S, et al. (2025) Integrative single-cell and bulk transcriptomic analysis reveals the landscape of T cell mitotic catastrophe associated genes in esophageal squamous cell carcinoma. *Human genomics*, 19(1), 99.

Yuan H, et al. (2025) β -Sitosterol as an Anti-Tumour Active Component of *Herba Sarcandrae* Inhibits Colorectal Cancer Progression Through Up-Regulation of TBX20. *Journal of cellular and molecular medicine*, 29(17), e70809.

Okonta C, et al. (2025) Ameliorative role of naringenin in MPTP- induced Parkinsonism: Insights from *Drosophila melanogaster* experimental model combined with computational biology. *Toxicology reports*, 14, 102004.

Shi L, et al. (2025) Si-Ni Decoction as a Potential Treatment for Ulcerative Colitis: Modulation of Gut Microbiota and AKT1 Inhibition Through Network Pharmacology and in vivo Validation. *Journal of inflammation research*, 18, 6263.

Teicher BA, et al. (2025) RNA processing kinase inhibitors and epigenetic inhibitors in combination with oncology drugs or investigational agents in multi-cell type patient-derived tumor cell line spheroids. Research square.

Matotoka MM, et al. (2025) CRISPRi knockdown of mycobacterial tkt gene potentiates the anti-mycobacterial activity of phyto-compounds from selected medicinal plants. BMC complementary medicine and therapies, 25(1), 240.

Park JS, et al. (2025) Impact of Heavy Metals on the Antioxidant Activity of Vitamin D: A Metabolic Perspective. Metabolites, 15(7).

Jilani S, et al. (2025) The synergistic effect of Thymus vulgaris essential oil and carvacrol with imipenem against carbapenem-resistant Acinetobacter baumannii: in vitro, molecular docking, and molecular dynamics studies. Frontiers in pharmacology, 16, 1582102.

Kavya P, et al. (2025) Bioactive fraction isolated from Curcuma angustifolia rhizome exerts anti-diabetic effects in vitro, in silico and in vivo by regulating AMPK/PKA signaling pathway. Frontiers in pharmacology, 16, 1570533.

Yang R, et al. (2025) Analysis of Components in Ziziphi Spinosae Semen Before and After Processing Based on Targeted and Untargeted Metabolomics. Foods (Basel, Switzerland), 14(21).

Nie P, et al. (2025) Metformin protects against cyclophosphamide-induced ovarian fibrosis by MIF/CD74-mediated macrophage polarization. Journal of translational medicine, 23(1), 1273.

Zhu Y, et al. (2025) Phillyrin regulates the JAK2/STAT3 signaling pathway by inhibiting TOP2A expression to accelerate ferroptosis in hepatocellular carcinoma. Oncology reports, 53(4).

Zhang X, et al. (2025) Predictive analysis of vitiligo treatment drugs using degree and neighborhood degree-based topological descriptors. Scientific reports, 15(1), 5218.

Jiang S, et al. (2025) Metabolic profiles and potential antioxidant mechanisms of hawk tea. Scientific reports, 15(1), 3600.

Gyebi GA, et al. (2025) Apoptotic Potential of Iloneoside from Gongronema latifolium Benth against Prostate Cancer Cells Using In Vitro and In Silico Approach. Cell biochemistry and biophysics, 83(1), 755.