Resource Summary Report

Generated by NIF on Apr 18, 2025

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: database, data or information resource, service resource, data repository, 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: 20250418T055250+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 157 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

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.

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

Afzal M, et al. (2025) Investigation of biometabolites and novel antimicrobial peptides derived from promising source Cordyceps militaris and effect of non-small cell lung cancer genes computationally. PloS one, 20(1), e0310103.

Song N, et al. (2025) Semi-rational design and modification of phosphoketolase to improve the yield of tyrosol in Saccharomyces cerevisiae. Synthetic and systems biotechnology, 10(1), 294.

Mohamed SAA, et al. (2025) Carboxymethyl cellulose/shellac composite loaded with pomegranate extract and jojoba oil as anti-mycotic and anti-mycotoxigenic food packaging materials. Scientific reports, 15(1), 955.

Ogunyemi OM, et al. (2025) Identification of promising dipeptidyl peptidase-4 and protein tyrosine phosphatase 1B inhibitors from selected terpenoids through molecular modeling. Bioinformatics advances, 5(1), vbae205.

Atef F, et al. (2025) A comprehensive investigation of Clerodendrum Infortunatum Linn. using LC-QTOF-MS/MS metabolomics as a promising anti-alzheimer candidate. Scientific reports, 15(1), 859.

Zhou C, et al. (2025) Exploring the mechanism of rosmarinic acid in the treatment of lung adenocarcinoma based on bioinformatics methods and experimental validation. Discover oncology, 16(1), 47.

Mansuer M, et al. (2024) Erianin induces ferroptosis in GSCs via REST/LRSAM1 mediated SLC40A1 ubiquitination to overcome TMZ resistance. Cell death & disease, 15(7), 522.

Nguyen TTT, et al. (2024) Anti-Staphylococcus aureus potential of compounds from Ganoderma sp.: A comprehensive molecular docking and simulation approaches. Heliyon, 10(7), e28118.

Urusov AE, et al. (2024) Autoantibodies-Abzymes with Phosphatase Activity in Experimental Autoimmune Encephalomyelitis Mice. Molecules (Basel, Switzerland), 29(6).

Zhang G, et al. (2024) Unveiling Immune-related feature genes for Alzheimer's disease based on machine learning. Frontiers in immunology, 15, 1333666.

Du R, et al. (2024) Astragalin improves cognitive disorder in Alzheimer's disease: Based on network pharmacology and molecular docking simulation. CNS neuroscience & therapeutics, 30(8), e14799.

Wang Y, et al. (2024) Britannin inhibits cell proliferation, migration and glycolysis by downregulating KLF5 in lung cancer. Experimental and therapeutic medicine, 27(3), 109.

Fernández-Ochoa Á, et al. (2024) Metabolite Profiling of Colvillea racemosa via UPLC-ESI-QTOF-MS Analysis in Correlation to the In Vitro Antioxidant and Cytotoxic Potential against A549 Non-Small Cell Lung Cancer Cell Line. Plants (Basel, Switzerland), 13(7).

Xu X, et al. (2024) Investigating the mechanisms of resveratrol in the treatment of gouty arthritis through the integration of network pharmacology and metabolics. Frontiers in endocrinology, 15, 1438405.

Zhang X, et al. (2024) Bioinformatics Analysis and Experimental Findings Reveal the Therapeutic Actions and Targets of Cyathulae Radix Against Type 2 Diabetes Mellitus. Journal of diabetes research, 2024, 5521114.

Loukili EH, et al. (2024) Phytochemical, biological, and nutritional properties of the prickly pear, Opuntia dillenii: A review. Saudi pharmaceutical journal : SPJ : the official publication of the Saudi Pharmaceutical Society, 32(10), 102167.

Javed S, et al. (2024) Anti-anemic potential of Eruca sativa L. in iron-deficient rat model; network pharmacology profiling. Food science & nutrition, 12(10), 7331.

Xu F, et al. (2024) The hemostatic molecular mechanism of Sanguisorbae Radix's pharmacological active components based on HSA: Spectroscopic investigations, molecular

docking and dynamics simulation. Heliyon, 10(17), e37020.