

Resource Summary Report

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ChemBank

RRID:SCR_007592

Type: Tool

Proper Citation

ChemBank (RRID:SCR_007592)

Resource Information

URL: <https://data.broadinstitute.org/chembank/assay>

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Description: ChemBank is a public, web-based informatics environment that includes freely available data derived from small molecules and small-molecule screens, and resources for studying the data so that biological and medical insights can be gained. ChemBank is intended to guide chemists synthesizing novel compounds or libraries, to assist biologists searching for small molecules that perturb specific biological pathways, and to catalyze the process by which drug hunters discover new and effective medicines. ChemBank stores an increasingly varied set of cell measurements derived from, among other biological objects, cell lines treated with small molecules. Analysis tools are available and are being developed that allow the relationships between cell states, cell measurements and small molecules to be determined. Currently, ChemBank stores information on hundreds of thousands of small molecules and hundreds of biomedically relevant assays that have been performed at the ICG in collaborations involving biomedical researchers worldwide. These scientists have agreed to perform their experiments in an open data-sharing environment. The goals of ChemBank are to provide life scientists unfettered access to biomedically relevant data and tools heretofore available almost exclusively in the private sector. We intend for ChemBank to be a planning and discovery tool for chemists, biologists, and drug hunters anywhere, with the only necessities being a computer, access to the Internet, and a desire to extract knowledge from public experiments whose greatest value is likely to reside in their collective sum.

Synonyms: ChemBank

Resource Type: data or information resource, database

Defining Citation: [PMID:17947324](#)

Keywords: drug discovery, assay, biomedical, medicine, novel compound, novel drug, pharmaceutical, small molecule, small-molecule screen

Resource Name: ChemBank

Resource ID: SCR_007592

Alternate IDs: nif-0000-02656

Old URLs: <http://chembank.broad.harvard.edu>

Record Creation Time: 20220129T080242+0000

Record Last Update: 20260829T182954+0000

Ratings and Alerts

No rating or validation information has been found for ChemBank.

No alerts have been found for ChemBank.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 37 mentions in open access literature.

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

Chen Y, et al. (2026) Integrative transcriptomic and metabolomic profiling elucidates the metabolic network underlying development in *Salsola collina*. *BMC plant biology*, 26(1).

Belhadj H, et al. (2026) Integrated GC-MS and UHPLC-HRMS/MS profiling of bioactive compounds from *Streptomyces* sp. BPA-6 isolated from bees-collected pollen. *Metabolomics : Official journal of the Metabolomic Society*, 22(3).

Chen JY, et al. (2025) Simultaneous profiling of mercapturic acids, glucuronic acids, and sulfates in human urine. *Environment international*, 199, 109516.

Carbonell-Rozas L, et al. (2025) Holistic Approach to Investigate Pyrrolizidine Alkaloids in Honeys from Diverse Botanical Origin: From Target to Suspect and Nontarget Screening Analysis. *Journal of agricultural and food chemistry*, 73(32), 20410.

Trithavisup T, et al. (2024) Impact of Wooden Breast myopathy on in vitro protein digestibility, metabolomic profile, and cell cytotoxicity of cooked chicken breast meat. *Poultry science*, 103(1), 103261.

Tian X, et al. (2024) Integrated Transcriptomic and Metabolomic Analysis Reveals Possible Molecular Mechanisms of Leaf Growth and Development in *Disanthus cercidifolius* var. *longipes*. *Metabolites*, 14(12).

Zhang L, et al. (2024) Metabolomics Characterization of Phenolic Compounds in Colored Quinoa and Their Relationship with In Vitro Antioxidant and Hypoglycemic Activities. *Molecules* (Basel, Switzerland), 29(7).

Zhu C, et al. (2024) The gap-free genome and multi-omics analysis of *Citrus reticulata* 'Chachi' reveal the dynamics of fruit flavonoid biosynthesis. *Horticulture research*, 11(8), uhae177.

Wong SC, et al. (2023) Inhibition of CDCP1 by 8-isopentenyl naringenin synergizes with EGFR inhibitors in lung cancer treatment. *Molecular oncology*.

Liu H, et al. (2023) Analysis of Metabolites and Metabolic Pathways of Three Chinese Jujube Cultivar. *Metabolites*, 13(6).

Yoon CK, et al. (2023) Vitreous Fatty Amides and Acyl Carnitines Are Altered in Intermediate Age-Related Macular Degeneration. *Investigative ophthalmology & visual science*, 64(3), 28.

Cavalluzzi MM, et al. (2022) Microwave-Assisted Extraction of Bioactive Compounds from Lentil Wastes: Antioxidant Activity Evaluation and Metabolomic Characterization. *Molecules* (Basel, Switzerland), 27(21).

Angelis E, et al. (2021) Optimization of an Untargeted DART-HRMS Method Envisaging Identification of Potential Markers for Saffron Authenticity Assessment. *Foods* (Basel, Switzerland), 10(6).

Costa R, et al. (2021) A drug screen with approved compounds identifies amlexanox as a novel Wnt/??-catenin activator inducing lung epithelial organoid formation. *British journal of pharmacology*, 178(19), 4026.

Akum FN, et al. (2021) Identification of *Collimonas* gene loci involved in the biosynthesis of a diffusible secondary metabolite with broad-spectrum antifungal activity and plant-protective properties. *Microbial biotechnology*, 14(4), 1367.

Li S, et al. (2021) Widely Targeted Metabolomics Analysis of Different Parts of *Salsola collina* Pall. *Molecules* (Basel, Switzerland), 26(4).

Mori M, et al. (2020) Towards the Inhibition of Protein-Protein Interactions (PPIs) in STAT3: Insights into a New Class of Benzothiadiazole Derivatives. *Molecules* (Basel, Switzerland), 25(15).

Kumar R, et al. (2019) Exploring the new horizons of drug repurposing: A vital tool for turning hard work into smart work. *European journal of medicinal chemistry*, 182, 111602.

Gagic Z, et al. (2019) In silico Methods for Design of Kinase Inhibitors as Anticancer Drugs. *Frontiers in chemistry*, 7, 873.

Kaushik AC, et al. (2018) Structure Based Virtual Screening Studies to Identify Novel Potential Compounds for GPR142 and Their Relative Dynamic Analysis for Study of Type 2 Diabetes. *Frontiers in chemistry*, 6, 23.