Resource Summary Report

Generated by Kravitz on Sep 12, 2026

Super Natural Database

RRID:SCR_005282
Type: Tool

Proper Citation

Super Natural Database (RRID:SCR_005282)

Resource Information

URL: http://bioinformatics.charite.de/supernatural

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Description: A commercial database of the substructures of natural compounds. Their conformers are available for purchase. Although tremendous effort has been put into synthetic libraries, most drugs on the market are still natural compounds or derivatives thereof. There are encyclopaedias of natural compounds, but the availability of these compounds is often unclear and catalogues from numerous suppliers have to be checked. To overcome these problems we have compiled a database of approximately 50,000 natural compounds from different suppliers. To enable efficient identification of the desired compounds, we have implemented substructure searches with typical templates. Starting points for in silico screenings are about 2500 well-known and classified natural compounds from a compendium that we have added. Possible medical applications can be ascertained via automatic searches for similar drugs in a free conformational drug database containing WHO indications. Furthermore, we have computed about three million conformers, which are deployed to account for the flexibilities of the compounds when the 3D superposition algorithm that we have developed is used.

Synonyms: Super Natural Database

Resource Type: data or information resource, database

Resource Name: Super Natural Database

Resource ID: SCR_005282

Alternate IDs: nif-0000-03513

Record Creation Time: 20220129T080229+0000

Record Last Update: 20260912T200136+0000

Ratings and Alerts

No rating or validation information has been found for Super Natural Database.

No alerts have been found for Super Natural Database.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Balogun EO, et al. (2024) Computational Workflow to Design Novel Vaccine Candidates and Small-Molecule Therapeutics for Schistosomiasis. Pathogens (Basel, Switzerland), 13(10).

Yan F, et al. (2021) An overview of potential inhibitors targeting non-structural proteins 3 (PLpro and Mac1) and 5 (3CLpro/Mpro) of SARS-CoV-2. Computational and structural biotechnology journal, 19, 4868.

Lauti?? E, et al. (2020) Unraveling Plant Natural Chemical Diversity for Drug Discovery Purposes. Frontiers in pharmacology, 11, 397.

Li W, et al. (2017) Network Pharmacology Studies on the Bioactive Compounds and Action Mechanisms of Natural Products for the Treatment of Diabetes Mellitus: A Review. Frontiers in pharmacology, 8, 74.

Banerjee P, et al. (2015) Super Natural II--a database of natural products. Nucleic acids research, 43(Database issue), D935.

Dunkel M, et al. (2006) SuperNatural: a searchable database of available natural compounds. Nucleic acids research, 34(Database issue), D678.