Resource Summary Report

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Open PHACTS

RRID:SCR_005050
Type: Tool

Proper Citation

Open PHACTS (RRID:SCR_005050)

Resource Information

URL: http://www.openphacts.org/

Proper Citation: Open PHACTS (RRID:SCR_005050)

Description: Project that developed an open access discovery platform, called Open Pharmacological Space (OPS), via a semantic web approach, integrating pharmacological data from a variety of information resources and tools and services to question this integrated data to support pharmacological research. The project is based upon the assimilation of data already stored as triples, in the form subject-predicate-object. The software and data are available for download and local installation, under an open source and open access model. Tools and services are provided to query and visualize this data, and a sustainability plan will be in place, continuing the operation of the Open PHACTS Discovery Platform after the project funding ends. Throughout the project, a series of recommendations will be developed in conjunction with the community, building on open standards, to ensure wide applicability of the approaches used for integration of data.

Abbreviations: OPS

Synonyms: Open PHACTS - Open Pharmacological Space, OpenPhacts.org, Open Pharmacological Space, Open Pharmacological Concepts Triple Store, OpenPHACTS, Open PHACTS: Open Pharmacological Space

Resource Type: database, software resource, consortium, data or information resource, organization portal, portal

Defining Citation: PMID:22683805

Keywords: drug, enzyme family, structure, receptor, target, ki, pathway, pharmacology, enzyme, small molecule, data mining, annotation, drug discovery, drug development,

pharmacological profile, pharmacokinetic, admet data, biological target, chemical, linked data, rdf, nanopublication, platform, semantic technology, text mining, bioinformatics, cheminformatics, interoperability, chemistry, data provenance, compound, small molecule, semantic integration, drug discovery

Funding: Innovative Medicines Initiative grant 115191;
EFPIA ;
Open PHACTS Foundation

Availability: Open unspecified license, Registration required, Non-commercial

Resource Name: Open PHACTS

Resource ID: SCR_005050

Alternate IDs: nlx_144033

Alternate URLs: https://www.force11.org/node/4684, http://www.imi.europa.eu/content/open-phacts

Record Creation Time: 20220129T080228+0000

Record Last Update: 20250416T063404+0000

Ratings and Alerts

No rating or validation information has been found for Open PHACTS.

No alerts have been found for Open PHACTS.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Karcher S, et al. (2018) Integration among databases and data sets to support productive nanotechnology: Challenges and recommendations. NanoImpact, 9, 85.

Senger S, et al. (2017) Assessment of the significance of patent-derived information for the early identification of compound-target interaction hypotheses. Journal of cheminformatics, 9(1), 26.

Zdrazil B, et al. (2016) From linked open data to molecular interaction: studying selectivity trends for ligands of the human serotonin and dopamine transporter. MedChemComm, 7(9), 1819.

Waagmeester A, et al. (2016) Using the Semantic Web for Rapid Integration of WikiPathways with Other Biological Online Data Resources. PLoS computational biology, 12(6), e1004989.

Digles D, et al. (2016) Open PHACTS computational protocols for in silico target validation of cellular phenotypic screens: knowing the knowns. MedChemComm, 7(6), 1237.

Montanari F, et al. (2016) Selectivity profiling of BCRP versus P-gp inhibition: from automated collection of polypharmacology data to multi-label learning. Journal of cheminformatics, 8, 7.

Lizio M, et al. (2015) Gateways to the FANTOM5 promoter level mammalian expression atlas. Genome biology, 16(1), 22.

Jiang G, et al. (2015) Drug Normalization for Cancer Therapeutic and Druggable Genome Target Discovery. AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science, 2015, 72.

Karapetyan K, et al. (2015) The Chemical Validation and Standardization Platform (CVSP): large-scale automated validation of chemical structure datasets. Journal of cheminformatics, 7, 30.

Jupp S, et al. (2014) The EBI RDF platform: linked open data for the life sciences. Bioinformatics (Oxford, England), 30(9), 1338.

Vaudano E, et al. (2013) The innovative medicines initiative: a public private partnership model to foster drug discovery. Computational and structural biotechnology journal, 6, e201303017.