



Open PHACTS provides an **“integrated platform of publicly available pharmacological and physicochemical data”**



Accessible via:  **Open PHACTS Discovery Platform**

- Application programming interface (API)
- Third-party applications built to use the API



Open PHACTS Discovery Platform

Open PHACTS API

Applications can query the pharmacological data within Open PHACTS

- Compound-protein interactions
- Physicochemical properties

dev.openphacts.org

- Gene information
- Biological pathways

Open PHACTS Explorer

Web based searching interface

explorer.openphacts.org

Workflow tools

Pipeline Pilot, KNIME

Open PHACTS applications

External bespoke applications using the Open PHACTS API.

chembionavigator.org

pharmatrek.org



The Open PHACTS API dev.openphacts.org

Launched in January 2013 – Over 3.7 million queries for data

Chemical Structure Exact Search

`/structure/exact` GET

InchiKey to URL

`/structure` GET

Inchi to URL

`/structure` GET

Chemical Structure Similarity Search

`/structure/similarity` GET

SMILES to URL

`/structure` GET

Chemical Structure Substructure Search

`/structure/substructure` GET

Get concept description

`/getConceptDescription` GET



Who is involved?



Innovative Medicines Initiative



European Federation of Pharmaceutical Industries and Associations

28 European partners



More information:

Project: www.openphacts.org

Foundation: www.openphactsfoundation.org

Twitter: [@open_phacts](https://twitter.com/open_phacts)

Access the data:

API: dev.openphacts.org

Explorer: explorer.openphacts.org

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