



Open PHACTS

Open Pharmacological Space

Open PHACTS is a 3-year project of the Innovative Medicines Initiative (IMI), aiming to reduce the barriers to drug discovery in industry, academia and for small businesses. The Open PHACTS consortium will achieve this by building an Open Pharmacological Space (OPS): a freely available platform, integrating pharmacological data from a variety of information resources and providing tools and services to question this integrated data to support pharmacological research.

What will the project deliver?

- An online platform providing tools and services to query and visualise a set of integrated publicly available pharmacological data
- Software components and data sets will be available to the community under an open source and open access model
- A sustainability plan that will ensure the continued operation of the OPS platform after the project funding ends

Recommendations are being developed in conjunction with the community, building on open standards, to ensure wide applicability of the approaches used for integration of data. The semantic technology and principles are being designed to enable the platform to be adapted for application to other subject domains in the future.

Why do we need Open PHACTS?

Currently, pharmaceutical companies expend significant and duplicated efforts aligning and integrating internal information with public data sources. This process is difficult and inefficient and the vast majority of drug discovery sources cannot easily interoperate. Open PHACTS will create a precompetitive infrastructure to make these approaches available both to industry and also to academia and smaller companies, who have historically not had access to large-scale integrated pharmacological data resources.

- The development of the OPS platform is being driven by a set of prioritised research questions from the EFPIA partners
- Based on the main research questions, prioritised data sources have been identified to be integrated into the system
- Four exemplars are being developed to demonstrate the capabilities of the OPS platform
- Three use cases have been defined to benchmark the OPS platform



Who is participating in the Open PHACTS consortium?

This is a knowledge management project of the IMI, a unique partnership between the European Community and the European Federation of Pharmaceutical Industries and Associations (EFPIA). The Open PHACTS consortium comprises of 27 partners from a wide range of backgrounds (academia, pharmaceutical industry, database publishers and biotech companies) combining expertise in pharmacology, nanopublications, publishing, semantic technology, text mining, as well as bio- and cheminformatics.



Where is the project now?

As we near the half-way point of this project we have met all of our planned milestones: including the roll-out of an initial version of the platform for consortium partners to test, which was delivered in February 2012. A public beta version of the platform is scheduled for delivery in Autumn 2012.

Working with the community

The Open PHACTS project has the potential to reach a wide community of data sources, data consumers, and service providers. In building an engaged community we ensure that:

- Our relationships with partners are visible: what we are doing together and why
- Opportunities to engage and develop are open and are based on project needs

We hold regular community workshops and events. These give Associate Partners and other interested parties the chance to:

- Learn more about Open PHACTS and the OPS platform
- Discuss new ideas and functions
- Engage in development of new use cases, help us answer new questions
- Contribute to development, and engage in plans for sustaining OPS

connecteddiscovery

AstraZeneca 

 GlaxoSmithKline

 Universität Hamburg

 **knowledge**[™]
Semantics for Science

How can I get involved?

If you think you can contribute to the Open PHACTS project, or would like to know more, you may join the Open PHACTS community by becoming an Associate Partner.

As an Associate Partner you will be the first to hear about the latest developments in the Open PHACTS project, and you will also have the opportunity to present ideas and use cases to the core Open PHACTS team.

There are opportunities for Associate Partners who want to do some more specific development work together with us (e.g. develop APIs, new data, algorithms etc), leading to a Development Partnership with the Open PHACTS project.

Where can I find out more?

- Visit the Open PHACTS website (<http://www.openphacts.org/>)
- Follow our twitter account @Open_PHACTS
- Email us at: pmu@openphacts.org



universität
wien



ESTEVE
closer to you

MERCK

DTU



Lilly



Lundbeck 



Maastricht University *Leading in Learning!*

This research has received support from the Innovative Medicines Initiative Joint Undertaking under grant agreement n° 115191, resources of which are composed of financial contribution from the European Union's Seventh Framework Programme (FP7/2007-2013) and EFPIA companies' in kind contribution. www.imi.europa.eu



Innovative Medicines Initiative

efpia

