

THE HUMAN PROTEIN ATLAS

The Human Protein Atlas selected as European core resource in life science by ELIXIR

Stockholm, July 25, 2017

Today, the organization ELIXIR selected the Human Protein Atlas (HPA) as a European core resource in life science. HPA was selected for its fundamental importance to the wider life-science community and as an important international resource of biological data. The Human Protein Atlas contains information for a large majority of all human protein-coding genes, including a Tissue Atlas showing the location of the proteins in human tissues and organs and a Cell Atlas showing the subcellular location in human cells at the single cell level.

ELIXIR is an intergovernmental organisation that brings together life science resources from across Europe. These resources include databases, software tools, training materials, cloud storage and supercomputers. **The goal of ELIXIR is to coordinate these resources so that they form a single infrastructure.** This infrastructure makes it easier for scientists to find and share data opening new venues to explore biological information, exchange expertise, and agree on best practices. Ultimately, it will help life science researchers to gain new insights into how living organisms work.

Today, ELIXIR announced a selected list of ELIXIR Core Data Resources. Identification of the ELIXIR Core Data Resources involved a careful evaluation of the multiple facets of the data resources. Indicators used in the evaluation are grouped into five categories:

- Scientific focus and quality of science
- Community served by the resource
- Quality of service
- Legal and funding infrastructure, and governance
- Impact and translational stories.

The details of the selection criteria are described in the F1000R ELIXIR track article '[Identifying ELIXIR Core Data Resources](https://f1000research.com/articles/5-2422/v2)' (<https://f1000research.com/articles/5-2422/v2>).

“We are pleased that one of the selected core resources is the Human Protein Atlas” says Matthias Uhlen, Director of the Human Protein Atlas consortium. “This allows the Swedish-based Human Protein Atlas to integrate the data on protein expression with other core resources in Europe and this is an important step for our effort to provide a knowledge-base for the scientific community regarding the human proteins.”

All core resource within ELIXIR are committed to Open Access as a core principle for publicly funded research. ELIXIR Core Data Resources reflect this commitment and they all adopted terms of use or a licence that enables the reuse and remixing of data. The Human Protein Atlas has decided to adhere to this principle and this resource will from now on use the Creative Commons licenses CC BY-SA 4.0 conformant with the Open Definition (<http://opendefinition.org/licenses/>).

Short videos about ELIXIR can be found at:
<https://www.youtube.com/watch?v=stTY6fxwonY> and
<https://www.youtube.com/watch?v=PekFi7yqMr4>

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About

Human Protein Atlas project

The Human Protein Atlas project, funded by the Knut and Alice Wallenberg Foundation, has been set up for a systematic exploration of the human proteome using antibody-based proteomics. This is accomplished by combining high-throughput generation of affinity-purified antibodies with protein profiling in a multitude of tissues and organs assembled in tissue microarrays, to explore

protein expression patterns on a cell type-specific level. Confocal microscopy analysis using human cell lines is performed for more detailed protein localization inside the cell. The program hosts the Human Protein Atlas portal with expression profiles of human proteins in tissues and cells. The main sites are located at AlbaNova and Science for Life Laboratory (SciLifeLab), KTH - Royal Institute of Technology, Stockholm, Sweden, the Rudbeck Laboratory, Uppsala University, Uppsala, Sweden and Chalmers, Göteborg, Sweden. For more information on the Human Protein Atlas, visit our website at www.proteinatlas.org