

# PROteomics SPECification in Time and Space

 [consortiapedia.fastercures.org/consortia/prospects/](http://consortiapedia.fastercures.org/consortia/prospects/)

## Research Areas



**Tool Development**



**Biomarker Research**

Diagnostic



**Data-Sharing Enabler**

## At a Glance

- Status: **Completed Consortium**
- Year Launched: **2008**
- Initiating Organization: **European Commission Seventh Framework Programme (FP7)**
- Initiator Type: **Government**
- Location: **Europe**

## Abstract

The PROteomics SPECification in Time and Space (PROSPECTS) consortium aims to advance the development of instruments and methods for proteomics. The goal is to annotate quantitatively the human proteome with respect to protein localization and dynamics. PROSPECTS also offers training opportunities teaching state-of-the-art technology for young scientists.

## Mission

The PROSPECTS (PROteomics SPECification in Time and Space) consortium aims to develop instrumentation and methods to advance proteomics efforts with a goal to annotate quantitatively the human proteome with respect to protein localization and dynamics. Complementary technologies, including mass spectrometry, cryoelectron microscopy, and cell imaging will be used to capture transient protein complexes and the spatial and temporal dimensions of entire proteomes. The consortium aims to develop new proteomics technologies in a generic fashion to maximize their utility to the wider biomedical community.

Comprehensive data sets generated in PROSPECTS are aimed to broadly advance the field of proteomics. The multi-dimensional data sets generated in PROSPECTS will be integrated using advanced data aggregation and machine learning. The data will be available to the scientific community via annotated online public databases and used as a basis for a systems biological modelling of the human proteome with spatial and temporal resolution within the cell.

## Financing

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EU FP7, Project reference: 201648

Homepage

<http://www.prospects-fp7.eu/>

## Sponsors & Partners

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Updated: **04/15/2016**