Introduction to IntAct - a Protein-Protein Interactions resource

Birgit Meldal [1]

- Systems
- Proteins
- Beginner
- 1 hour

This webinar from Birgit Meldal provides you with an introduction to protein-protein interactions and the molecular interaction database IntAct [2] (recorded on 24th April 2018). IntAct is a central, public repository where molecular interactions data can be stored and accessed.

This webinar will provide an overview of the resource, including an introduction to the data and the interaction analysis tools available. Methods for basic searching / data querying will also be highlighted and a full breakdown of the webinar is provided below:

- Introduction to protein interactions and networks
- Introduction to IntAct: how to search for, retrieve and utilise protein-protein interaction data
- Advanced searches and complex queries in IntAct
- Data Integration: PSICQUIC and IMEx resources
- Introduction to the Complex Portal - a unifying protein complex resource


NB: These videos works best using Google Chrome and when viewed in full screen.

Find out about upcoming webinars [5].

Learning objectives:

- Comprehend what protein-protein interactions are and how they are represented
- Search for molecular interaction on the IntAct website

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Contributors
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Scientific curator in IntAct

Pablo Porras got his PhD in 2006 in the University of Córdoba, Spain, having done research about trans-membrane protein translocation and redox homeostasis. After that, he moved to Berlin to work in the Neuroproteomics group of the Max Delbrueck Center, getting involved in projects dealing with interactomics, neurodegenerative diseases and the ubiquitin-proteasome system. During this postdoc, he faced the problem of how to represent and analyze molecular interactions data. This experience proved to be of great value once he joined the EBI to work as a scientific curator in the molecular interactions database IntAct [7] in 2011.

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Birgit Meldal joined EMBL-EBI in 2012 as a Scientific Curator for the molecular interactions database IntAct. Her work focuses on curating macromolecular complexes into the Complex Portal, and she also contributes to the Gene Ontology. Birgit is a trainer for the IntAct and Reactome databases. She gained her PhD from the University of Southampton (in collaboration with the Natural History Museum, London) in 2004, having built the first comprehensive molecular phylogeny of the phylum Nematoda. She followed this with postdoctoral positions at the University of Cambridge working on the function of the breast cancer gene EMSY and on molecular epidemiology and host-virus interactions of transfusion-transmissible, blood-borne viruses (Hepatitis B and Hepatitis E virus).

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