

Proteomics Bioinformatics

A joint EMBL-EBI/Wellcome Trust workshop 8-12.12.2008

Wellcome Trust genome campus, Hinxton, Cambridge, UK

The EMBL-EBI/Wellcome Trust workshop was organised in the Wellcome Trust genome campus in the village of Hinxton, outside of Cambridge, UK. Hinxton campus comprise of the EBI and the Sanger institute where part of the human genome sequencing was carried out. In the heart of the green campus is the Hinxton Hall, an estate dating back from year 1505.

The course gave an introduction to bioinformatics tools provided by the European Bioinformatics Institute and freely available on the internet. We had hands-on training in the use of public sequence databases for peptide analysis, annotation of subsequent proteins lists using these resources and information from molecular interaction and pathway databases. The use of PRIDE - a public repository of protein and peptide identifications from multiple species, tissues and sub-cellular locations - was examined as well, both as a source of additional information and with a view to eventual data deposition. The course included sequence databases and their uses, the use of Gene Ontology as a data classification tool, how to use ontologies to annotate data, how the proteomics data is standardised, IntAct Molecular Interaction database and Reactome.



The course was very useful; it literally gave me tools for data analysis, and made the world of proteomics bioinformatics easier to cope with. Especially the tools for ontology mapping and pathway analysis seemed useful in the analysis of large proteomics datasets. I want to thank ISB for the support!

Anni Vehmas
Turku Centre for Biotechnology