The Bioinformatics Workshop

Venue: computer study hall (03 on 4NP) National Technical Library
(http://www.techlib.cz/cs/)

Date: 2-4 June 2014

Organisers:

Laura Emery

The EMBL-European Bioinformatics Institute

Wellcome Trust Genome Campus

Hinxton, Cambridge

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Jiri Vondrasek

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Admin support: Frank O'Donnell

Registration opens: 7.5.2014

Registration deadline: 20.5.2014

Acceptance notification date:

Course overview

This course will provide an introductory overview of some of the most commonly used publicly accessible, tools and resources for genome browsing, functional genomics and phylogenetics. A separate registration will be available for those delegates interested in using proteomics in their research. Delegates will gain hands-on practice of using these data resources, interspersed with some lectures.

Audience

The course is aimed at bench-based researchers in the fields of medicinal chemistry, biochemistry, structural biology and chemical synthesis. The practical exercises use web-browser-based tools and assume little prior experience in bioinformatics.

Modules and Resources

During this course you will learn about:

- Genome browsing: Ensembl
- Functional genomics: Array Express, Gene Expression Atlas
- Phylogenetics: EBI phylogeny tools
- Proteomics services: UniProt, IntAct, Reactome

Learning Objectives

After this course you should be able to:

- Access, browse and retrieve a range of data types from leading public repositories for genomic, transcriptomic and proteomic data
- Query leading bioinformatics databases efficiently
- Use some freely available software to analyse nucleotide sequence data and interpret phylogenetic analyses

Time	Subject	Trainer
Day 1		
09:00	An introduction to the EBI	Ensembl team
09:30	Exploring genomes with Ensembl	Ensembl team
11:00	Break	
11:30	Exploring genomes with Ensembl	Ensembl team
13:00	Lunch	
14:00	Exploring functional genomics data with Array Express	Karyn Megy
15:30	Break	
16:00	Exploring functional genomics data with the Gene Expression Atlas	Karyn Megy
17:30	Close	
Day 2		
09:00	An introduction to phylogenetics	Laura Emery
10:30	Break	
11:00	Interpreting phylogenies	Laura Emery
12:30	Lunch	
13:30	Phylogenetic methods	Laura Emery
15:00	Break	
15:30	Phylogenetic methods	Laura Emery

17:00	Close	
Day 3		
09:00	An introduction to proteomic services	Sandra Orchard
10:30	Break	
11:00	UniProt	Sandra Orchard
12:30	Lunch	
13:30	IntAct	Sandra Orchard
15:00	Break	
15:30	Reactome	Sandra Orchard
17:00	Close	

Registration and payment

Please note that there is no registration fee

To register for this event please use the following link.

http://www.ebi.ac.uk/training/Prague2014

Items marked * are mandatory. Incomplete registrations will not be processed.