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M. TACHI, SMBI

Invited speakers:

Xosé M. Fernandez EMBL-EBI
Jennifer McDowall EMBL-EBI

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MOROCCAN SOCIETY FOR BIOINFORMATICS
IN PARTNERSHIP WITH
EUROPEAN BIOINFORMATICS INSTITUTE
ECOLE NATIONALE DES SCIENCES APPLIQUEES DE TANGER
FACULTE DES SCIENCES ET TECHNIQUES DE TANGER
ORGANIZES
BIOINFORMATICS WORKSHOP
EBI TOOLS FOR GENOMICS AND PROTEOMICS
JANUARY 25TH – 26TH - 27TH, 2010
ENSA DE TANGER
TANGIER -MOROCCO

Objectives

Those courses are intended for both experimental biologists and computational scientists. The prime objective of the course is to convey an appreciation of the range and capabilities of services made available at the EBI.

Topics

In this course the following resources will be covered :

- ✚ Overview of the UniProt protein sequence database, including sequence searching methods and alignments.
- ✚ Comparative proteomics: how information on protein families and domains in InterPro can be used to classify and annotate proteins.
- ✚ Exploring protein-protein interaction networks using the IntAct database.
- ✚ Browsing protein pathways in Reactome.

Furthermore, Ensembl, an infrastructure for genomic information, from its storage through to analysis and visualization will also be covered. The Ensembl project focuses mainly on vertebrate genomes:

- ✚ Introduction to Ensembl: Origin, goals and organization of the Ensembl project
- ✚ Worked example: Guided tour of the most important pages of the Ensembl website
- ✚ Data mining with BioMart: Retrieving datasets using the data mining tool BioMart
- ✚ Evaluating genes and transcripts: How are Ensembl gene and transcripts predictions made?
- ✚ Comparative genomics and proteomics: Orthologues, protein families, whole genome alignments and syntenic regions
- ✚ Variations: SNPs, haplotypes, linkage disequilibrium

Admission

Admitted are researchers, MA and PhD students in biology, bioinformatics in their broader range of disciplines: computer science, biology, medicine, pharmacology. Good knowledge of the English language is a prerequisite.

Submission

- ✚ For each participant Laptop and 3G modem are necessary
- ✚ The number of participants is limited to 60 persons.
- ✚ Scholarship for SMBI members will be available
- ✚ Registration is necessary by email

Registration deadline: January, 18th, 2010.
Those accepted will be informed by January 19th, 2010
www.smbi.ma