

SBF EMBL-EBI Training Event

Genome Informatics

Venue: Royal Society of Edinburgh, 22-26 George Street, EH2 2PQ

Date: 11th May 2010

	Genome Informatics Tutor: Jeff Almeida-King
09:30 - 10:00	Introduction to Ensembl Genomes An overview of Ensembl Genomes and its parent site Ensembl. What species and data can be found in Ensembl Genomes and an explanation of what we mean when we say, Ensembl Genomes 'Extending Ensembl across the taxonomic space'.
10:00 - 11:00	Worked example (hands-on) An example using a Plasmodium falciparum gene. This is a 'guided tour' of the Ensembl Genomes browser that will take users through its main pages and some of the browsers features. A series of exercises have been put together for the end of this session for users to familiarise themselves with the Ensembl Genomes browser.
11:00 - 11:15	Coffee break
11:15 - 12:30	Data mining Ensembl Genomes using BioMart A short presentation providing an introduction to BioMart and how it may be used to query the Ensembl Genomes datasets. Users will work through a set example followed by a series of exercises aimed at exploring the flexibility and power of data-mining with BioMart.
12:30 - 13:45	Lunch
13:45 - 15:00	Comparative Genomics An introduction to comparative genomics. How comparative genomics data is organised in Ensembl Genomes and how to interpret and access this data. Details of how we generate comparative genomics data (Multiple whole genome alignments and gene trees) will also be presented. Exercises follow this session aimed at exploring the comparative genomics resources of Ensembl Genomes.
15:00 - 15:15	Coffee break
15:15 - 16:30	Variation What variation data is currently included in Ensembl Genomes and how to access and interpret this data. Exercises follow this session aimed at exploring the use of variation in Ensembl Genomes.
16:30 - 17:00	Q & A