Programme

Time	Topic	Trainer
Day 1 - 17 September 2013		
08:30	Introduction to EMBL-EBI	Pablo Porras
09:30	Expectations assessment	Pablo Porras/Bert Overduin
10:00	Browsing the genome and exploring sequences: DNA & RNA services Ensembl, Ensembl Genomes, ENA.	Bert Overduin
11:30	Break	
12:00	Studying expression profiles: Gene expression services Array Express and Expression Atlas	Pablo Porras
12:30	Understanding proteins: resources for identification and annotation GO, UniProt & InterPro	Pablo Porras
13:30	Lunch	
14:30	Proteomics and systems: From mass spectrometry data to models PRIDE, IntAct, Reactome & BioModels	Pablo Porras
15:30	Break	
16:00	Small molecules bioinformatics ChEMBL, ChEBI, Metabolights	Pablo Porras
16:30	Expectations re-assessments, Q&A	Pablo Porras/Bert Overduin
17:30	Bus	

Time	Topic	Trainer
Day 2 - 18 September 2013		
08:30	Browsing Genomes with Ensembl and Ensembl Genomes: The Ensembl (http://www.ensembl.org) and Ensembl Genomes (http://www.ensemblgenomes.org) projects provide a comprehensive and integrated source of annotation of genomes from across the taxonomy (ranging from vertebrates to bacteria). All supported species include evidence-based gene annotations and a selected set of genomes includes additional data focused on variation, comparative and regulatory annotation. In this session a general overview of the Ensembl and Ensembl genomes browsers as well as the data retrieval tool BioMart will be given.	Bert Overduin
Approx 13:00	Lunch	
Approx 14:00	Interactions and pathways analysis tutorial: In this tutorial you will learn how to browse and use the molecular interactions database IntAct (http://www.ebi.ac.uk/intact/) and which are the possibilities and pitfalls of working with molecular interactions data. We will also work with the pathways database Reactome (http://www.reactome.org/), exploring its data structure and the depth of the information hosted there and learn how to perform basic pathway analysis and how to use BioMart to access Reactome information.	Pablo Porras
17:00	Wrap up and feedback	

The format of both sessions will be a mix of short presentations, demos and hands-on exercises.