

Ensembl:

**1. Ensembl Browsing Genomes:**

<https://www.ebi.ac.uk/training/online/courses/ensembl-browsing-genomes/>

Learning outcomes:

- Explain what Ensembl is and where the data come from
- Access and navigate the Ensembl homepage
- Search the Ensembl browser with a gene, location (a region of a genome), or variant of interest
- Explore a region on a genome, a gene and a transcript
- Determine where to view gene trees, sequence variation, and regions involved in gene regulation in Ensembl
- View a sequence for a gene, protein, or a genome of interest
- Determine how genes are annotated
- Assess the different ways the data are presented in Ensembl (including the gene, location, transcript and variation tabs)
- Export Ensembl data quickly and easily with the browser and BioMart

**2. Ensembl Quick Tour:**

<https://www.ebi.ac.uk/training/online/courses/ensembl-quick-tour/>

Learning outcomes:

- Outline Ensembl and what you can do with the resource
- Know where to find out more about Ensembl

Uniprot:

**1. Uniprot Quick Tour:**

<https://www.ebi.ac.uk/training/online/courses/uniprot-quick-tour/>

Learning outcomes:

- Evaluate what UniProt is and what you can do with it
- Explore the wide range of information provided by UniProt and understand where it comes from
- Be able to access, navigate and search on the UniProt website
- Evaluate the tools provided on the UniProt website
- Comprehend how to access completely sequenced proteome

PDB:

**1. PDB Online Tutorial:**

<https://www.ebi.ac.uk/training/online/courses/pdbe-searching-pdb/>

Learning outcomes:

- Navigate and extract the information from a particular PDB entry using the PDBe
- Download data in an appropriate format