

Programme

Ensembl Genome Browser Workshop

University College London
Wednesday, 25th February 2026

Welcome to the *Knowledge Document* for this Ensembl Browser workshop. Everyone who is registered for the course has access to edit this document. Please feel free to use this document to ask questions to the Ensembl team throughout the workshop. If you wish to ask questions privately, please do not hesitate to contact the [Ensembl Helpdesk](#).

The *Knowledge Document* is a great way of capturing the knowledge exchanged during the course and saving it for future use by yourselves and those who can't attend this course. Remember - you don't have to contribute, but any additions will be welcomed!

The course learning outcomes are:

- Access the main data types through the Ensembl web browser platform: genomes, genes, genetic variation, regulatory features and comparative genomics.
- View genomic regions and manipulate the view to add features.
- Explore information about genes and their sequences.
- Analyse genomic variants and associated phenotypes and your own variation data using the Variant Effect Predictor (VEP).

Course overview

Agenda

Wednesday, 25 th February 2026 (times shown in UTC)	
13:00 – 13:45	Introduction to Ensembl
13:45 – 14:50	Ensembl annotation: genes and variants
14:50 – 15:00	Wrap-up

Trainer

[Louisse Paola Mirabueno](#)

Demo, exercises and slides available to download

https://training.ensembl.org/events/2026/2026-02-25-UCL_MSc_browser

Q&A

Q&A

If you have any questions and/or problems that you would like to share and apply to the whole class please add them below.

Write your **question** after the last one you can see in this document (you can add any screenshots if you think it might help. We will **answer** your question underneath.

1. If you are looking to build your bioinformatics skills, here are some foundational courses that will help you understand fundamental concepts:
 - EMBL-EBI Training online course: [Bioinformatics for the terrified](#)
 - Publication: [The Mastery Rubric for Bioinformatics: A tool to support design and evaluation of career-spanning education and training \(Tractenberg et al., 2019\)](#)
 - Online course: [Introduction to the Command Line for Genomics](#)
 - Online course: [Introduction to Python for Biologists](#)

2. The best way to gain hands-on bioinformatics experience is by working on a research project focussed on computational biology. You can get in touch with a research group at your institute and ask if they are willing to take on an intern for a few months. PIs usually welcome students that are eager to learn and help out with their work. Alternatively, there are also several programmes and stipends that you can apply for to work on your own project:
 - EMBL-EBI [internship opportunities](#)
 - Wellcome Trust's [Biomedical Vacation Scholarship](#)
 - International Society for Computational Biology (ISCB)'s [Internship Program](#)
 - The Francis Crick Institute's [Summer Student Training Programme](#)
 - GSK [internships and placements](#)
 - Gevanam Genomics' [Summer Internship in Bioinformatics Training](#)

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14. Q:

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Additional resources

Additional resources

This section of the *Knowledge Document* provides additional resources that might be useful to you in developing skills and knowledge in the course topic area.

Ensembl sites

There are several Ensembl sites (largely divided into divisions). Depending on your species of interest, you may want to visit one of the following:

- [Ensembl](#) (vertebrate species)
- [Ensembl Genomes](#) (non-vertebrate species)
- Portals:
 - [Ensembl GRCh37](#)
 - [Ensembl COVID-19](#)
- [Ensembl Beta](#) (new Ensembl website)
- [Ensembl Projects](#) (list of collaborations that Ensembl is involved in)

Ensembl training

For more in-depth Ensembl training, you can find links to online tutorials, walk-throughs and exercises below:

- [Ensembl: Browser Webinar Series](#)
- [Ensembl: Browsing Genomes](#)
- [Ensembl Genomes \(non-chordates\): Quick Tour](#)
- [Visualising your own data in Ensembl](#)
- [Ensembl REST API](#)
- [Webinar: Introducing the New Ensembl Genome Browser](#)
- [Ensembl Training](#) (walk-throughs and exercises)

EMBL-EBI training

- [EMBL's European Bioinformatics Institute \(EMBL-EBI\)](#)
- [EMBL-EBI databases and tools](#)
- The [EMBL-EBI Training portal](#) provides courses related to genomics and bioinformatics, including free [on-demand online training](#), data resource tutorials and recorded webinars (available on the [EMBL-EBI training portal](#) or [YouTube](#)).