Exploring Genomes with Ensembl Beta

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RoBioinfo Conference 2026, Timişoara

helpdesk@ensembl.org

Welcome to the ‘Living 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 ‘Living 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!

***Course Overview**

Trainers

Jorge Batista da Rocha

Resources:

beta.ensembl.org - Ensembl Beta, the new Ensembl Browser
www.ensembl.org - Ensembl genome browser (chordates)
grch37.ensembl.org - Ensembl archive for browsing data associated with the human GRCh37 genome assembly
www.ensemblgenomes.org - Ensembl Genomes genome browser (non-chordates)
www.ebi.ac.uk - EMBL-EBI website
www.ebi.ac.uk/services - EMBL-EBI databases and tools
Train Online - EMBL-EBI e-learning for our databases and tools

Agenda:

09:30 – 10:20

- Introduction to Ensembl Beta
- Selecting species
- Exploring genomic regions

10:20 – 10:30 - Short break

10:30 – 11:30

- Genes and transcripts
  - Exporting Sequences
  - Entity Viewer

11:30 – 12h00 - Coffee break

12:00 – 12:30

- Genetic variation
- The Ensembl Variant Effect Predictor (VEP)

12:30 – 13:15

- Practical

13:15 – 13:30

- Wrap up and feedback

Questions

If you have any questions/problems that you would like to share and are applicable to the whole class please write them below. A tutor will answer your question.

1. **<Name><Question>**
   <Tutor><Answer>
2. **<Name><Question>**
   <Tutor><Answer>
3. **<Name><Question>**
   <Tutor><Answer>
4. **<Name><Question>**
   <Tutor><Answer>
5. **<Name><Question>**
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6. **<Name><Question>**
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7. **<Name><Question>**
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8. **<Name><Question>**
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9. **<Name><Question>**
   <Tutor><Answer>
10. **<Name><Question>**
    <Tutor><Answer>

Other resources

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

Train online

EMBL-EBI provides an e-learning platform called on demand. Train online provides free courses on Europe's most widely used data resources, created by experts at EMBL-EBI and collaborating institutes. You do not need to have any previous experience of bioinformatics to

benefit from this training. We want to help you to become a confident user of our data resources; we are not trying to train you to become a bioinformatician.

Tutorials of interest might include:

- Ensembl: Quick Tour
- Ensembl: Browsing Genomes
- Ensembl Genomes (non-chordates): Quick Tour
- Ensembl REST API

Webinar series

The EMBL-EBI training team also runs regular webinar series featuring the EBI resources. See the Training pages for more information. You can also catch up on any webinars that you might have missed in Train online or on Youtube.