

# EMBL 2022

## Courses and Conferences

### JANUARY

- 17–21 Jan · EMBL Course **VIRTUAL**  
Deep learning for image analysis
- 26–27 Jan · EMBL Conference **VIRTUAL**  
The next generation in infection biology
- 31 Jan–4 Feb · EMBL Course **VIRTUAL**  
Exploratory analysis of biological data: data carpentry
- 31 Jan–4 Feb 2022 · EMBL Course **VIRTUAL**  
SymbNET: from metagenomics to metabolic interactions

### FEBRUARY

- 9–11 Feb · EMBO Workshop **VIRTUAL**  
The epitranscriptome
- 21–25 Feb · EMBL Course **VIRTUAL**  
Introduction to RNA-Seq and functional interpretation
- 22–25 Feb · EMBO Practical Course  
Integrative analysis of multi-omics data
- 21–23 Feb and 2 Mar · EMBL Course **VIRTUAL**  
Bioinformatics resources for protein biology

### MARCH

- 6–9 Mar · EMBO | EMBL Symposium  
Biological oscillators: design, mechanism, function
- 6–11 Mar · EMBL Course  
Analysis and integration of transcriptome and proteome data
- 7–11 Mar · EMBL Course **VIRTUAL**  
Single-cell RNA-Seq analysis using Galaxy
- 13–16 Mar · EMBL Conference  
From 3D light to 3D electron microscopy
- 13–18 Mar · EMBO Practical Course  
Extracellular vesicles: from biology to biomedical applications
- 21–23 Mar · EMBO | EMBL Symposium  
Inter-organ communication in physiology and disease
- 21–25 Mar · EMBL Course **VIRTUAL**  
Introduction to multiomics data integration and visualisation

### APRIL

- 4–8 Apr · EMBL Course  
Gene expression at single-cell resolution
- 6–9 Apr · EMBO | EMBL Symposium  
Microbial infections and human cancer
- 23–29 Apr · EMBO Practical Course  
Methods for analysis of circRNAs: from discovery to function
- 28 Apr · EIROforum Conference  
Grand challenges in AI and data science

### MAY

- 2–6 May · EMBL Course  
Hands-on flow cytometry: learning by doing!
- 9–12 May · EMBO | EMBL Symposium  
Cellular mechanisms driven by phase separation
- 9–11 May · EMBO Workshop Barcelona  
Building networks: engineering in vascular biology
- 9–13 May · EMBL Course  
Attacking open chromatin with ATAC sequencing
- 15–18 May · EMBO | EMBL Symposium  
Mechanobiology in development and disease
- 15–20 May · EMBL Course  
Advanced fluorescence imaging techniques

- 16–20 May · EMBL Course **VIRTUAL**  
Microscopy data analysis: machine learning and the BioImage Archive
- 16, 18, 20 May · EMBL Course **VIRTUAL**  
Exploring human genetic variation
- 23–27 May 2022 · EMBL Course  
Introduction to metabolomics analysis
- 23–25 May · EMBL Conference  
BioMalPar XVIII: biology and pathology of the malaria parasite
- 28 May–4 Jun · EMBO Practical Course  
Characterisation of macromolecular complexes by integrative structural biology
- 29 May–3 Jun · EMBL Course  
Whole transcriptome data analysis
- 31 May · EMBL Conference  
EMBL Imaging Centre opening symposium

### JUNE

- 8–10 Jun · EMBL Course  
Managing a bioinformatics core facility
- 8–10 Jun · EMBL Course  
Bioinformatics for principal investigators
- 8–11 Jun · EMBO | EMBL Symposium  
Microtubules: from atoms to complex systems
- 12–17 Jun · EMBO Practical Course  
Humanized mice, personalized therapies and big data
- 13–17 Jun · EMBL Course  
Summer school in bioinformatics
- 19–22 Jun · EMBO | EMBL Symposium  
Defining and defeating metastasis
- 20–24 Jun · EMBL Course  
Cancer genomics
- 29 Jun–1 Jul · EMBO Workshop Barcelona  
Timing mechanisms linking development and evolution

### JULY

- 4–8 Jul · EMBL Course  
Systems biology: from large datasets to biological insight
- 11–13 Jul · EMBL Conference  
Microfluidics 2022
- 11–15 Jul · EMBL Course  
Data resources and machine-learning tools for T-cell immunologists
- 11–16 Jul · EMBL Course  
Super-resolution microscopy: time-resolved STED nanoscopy
- 17–20 Jul · EMBO | EMBL Symposium  
Innate immunity in host-pathogen interactions
- 17–23 Jul · EMBO Practical Course  
*C. elegans*: from genome editing to imaging
- 18–22 Jul · EMBL Course  
Proteomics bioinformatics
- 25–28 Jul · EMBL Course Copenhagen  
Gene expression at single-cell resolution

### AUGUST

- 21–29 Aug · EMBO Practical Course  
Advances in cryo-electron microscopy and 3D image processing
- 27–30 Aug · EMBL Conference  
Transcription and chromatin

### SEPTEMBER

- 4–13 Sep · EMBO Practical Course  
Current methods in cell biology
- 5–8 Sep · EMBO Workshop  
Chemical biology 2022

- 5–12 Sep · EMBO Practical Course  
Membrane protein expression, purification and characterisation (mPEPC2)
- 11–18 Sep · EMBO Practical Course  
Synthetic biology in action: beyond standard metabolism
- 12–16 Sep · EMBL Course  
Mathematics of life: modelling molecular mechanisms
- 13–16 Sep · EMBO | EMBL Symposium  
Reconstructing the human past: using ancient and modern genomics
- 19–24 Sep · EMBL Course  
Imaging down to single-molecule resolution: STED & MINIFLUX nanoscopy
- 26–30 Sep · EMBL Course  
Bioinformatics and functional genomics in zebrafish

### OCTOBER

- 3–7 Oct · EMBL Course  
Single-cell RNA-seq analysis using R
- 5–8 Oct · EMBO Workshop  
Molecular mechanisms in evolution and ecology
- 9–14 Oct · EMBL Course  
Genome engineering: CRISPR/Cas from cells to mice
- 12–15 Oct · EMBO | EMBL Symposium  
The complex life of RNA
- 16–21 Oct · EMBO Practical Course  
Heidelberg and Bangalore  
Metabolite and species dynamics in microbial communities
- 17–21 Oct · EMBL Course  
Structural bioinformatics
- 26–29 Oct · EMBO | EMBL Symposium  
Plasticity across scales: from molecules to phenotypes
- 30 Oct–4 Nov · EMBO Practical Course  
The fundamentals of high-end cell sorting
- 31 Oct–4 Nov · EMBL Course  
Metagenomics bioinformatics

### NOVEMBER

- 6–13 Nov · EMBO Practical Course  
Practical integrative structural biology
- 7–10 Nov · EMBO | EMBL Symposium  
The neurovascular interface
- 13–18 Nov · EMBO Practical Course  
Single-cell omics: deeper to genomics
- 14–18 Nov · EMBL Course  
Genome bioinformatics: resequencing and variant calling
- 15–18 Nov · EMBO Workshop  
From functional genomics to systems biology
- 23–24 Nov · EMBL Science and Society Conference  
Terra incognita: navigating ethical boundaries in the life sciences
- 28 Nov–2 Dec · EMBL Course  
Protein quality control for downstream processes
- 30 Nov–2 Dec · EMBL Conference  
24th EMBL PhD Symposium

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  - Get started with EMBL-EBI's tools and resources
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CONFERENCES are held at the EMBL Advanced Training Centre Heidelberg, Germany (unless indicated otherwise), with the option to attend virtually

COURSE LOCATIONS:  
Grenoble | Hamburg | Heidelberg | Hinxton (unless indicated otherwise)

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