

E16 - Functional genomic data analysis : epigenomics

Fall 2024

Responsible : Morgane Thomas-Chollier (mthomas@biologie.ens.fr)

Required background

Computer knowledge: practice of Linux command lines. Knowledge of high-throughput sequencing data analysis, practice of quality check with FASTQC and mapping.

Program (physically at ENS, room 321)

	Morning	Afternoon
Monday 9/16	9h – 9h30 Course introduction 9h30 – 12h Work in autonomy - Lectures	14h – 15h00 Discussion 15h15 -17h Work in autonomy - Lectures
Tuesday 9/17	9h – 12h Practical ChIP-Seq analysis (i)	14h – 15h Practical ChIP-Seq analysis (i) 15h15 Introduction Open analysis 15h30– 17h Open analysis
Wednesday 9/18	9h – 12h Practical ChIP-Seq analysis (ii) + Motif analysis	14h – 15h Open analysis 15h15-16h15 Seminar: Julien Richard Albert <i>Title to be announced</i> 16h15– 17h Open analysis
Thursday 9/19	9h – 10h Discussion / Collective Glossary 10h – 12h Open analysis	14h-16h Lecture+Seminar: Daan Noordermeer <i>Our genome in 3 dimensions: why it's important and what can go wrong</i> 16h – 17h Open analysis
Friday 9/20	9h – 9h30 Discussion 9h30 – 12h Open analysis	14h –17h Work in autonomy Finalising and Submitting Open analysis

Teaching team

Morgane Thomas-Chollier (Associate Professor, ENS, Paris)
Nina Vittorelli (PhD student / Teaching Assistant ENS, Paris)
Lucie Gaspard-Boulinç (PhD student / Teaching Assistant ENS, Paris)

Invited Seminars

Julien Richard Albert (Post-doc, Institut Jacques Monod, Paris)
Daan Nordermeer (Group leader, I2BC, Gif-sur-Yvette)

Organization

Credits: 3 ECTS

Classes are held at the 3rd floor of the Department of Biology of ENS, 46 rue d'Ulm, 75005 Paris in room 321.
Students will be evaluated based on a technical report and participation throughout the week.