

E02 - Functional genomic data analysis: transcriptomics

2024 session

Required background

Computer knowledge: bases in computer programming, practice of Linux command lines and knowledge of R language.

Biology knowledge: you need to know how DNA microarrays and high throughput sequencing work.

Program

	Morning	Afternoon
Monday 9/9	9h30 – 10h Introduction 10h – 13h Reading of the lectures	14h – 17h Discussions
Tuesday 9/10	9h30 – 12h30 Practical: data pre-processing	13h30 – 16h30 Practical: data pre-processing
Wednesday 9/11	9h30 – 12h30 Practical: differential and functional analysis	13h30 – 14h30 Differential analysis 14h30 – 16h30 Practical: differential and functional analysis
Thursday 9/12	Personal work (321 & 316)	Personal work (321 & 316)
Friday 9/13	9h30 – 12h30 Student presentations	13h30 – 15h30 Open analysis 16h – 17h30 Exam
	Classroom (306)	Computer room (313 & 321)

Teaching team

Stéphane Le Crom (Sorbonne Université, Paris)

Lucie Gaspard-Boulinc (École normale supérieure, Paris)

Léa Swales (École normale supérieure, Paris)

Organization

Credits: 3 ECTS

All classes are held at the 3rd floor of the Department of Biology of ENS, 46 rue d'Ulm, 75005 Paris.

Students will be evaluated based on a written exam at the end of the week.