

E02 - Functional genomic data analysis: transcriptomics 2023 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 9/4	9h30 – 10h Introduction 10h – 13h Reading of the lectures	14h – 17h Discussions
Tuesday 9/5	9h30 – 12h30 Practical: microarray and RNA-seq pre-processing	13h30 – 16h30 Practical: microarray and RNA-seq pre-processing
Wednesday 9/6	9h30 – 12h30 Practical: differential and functional analysis	13h30 – 16h30 Practical: differential and functional analysis
Thursday 9/7	Personal work (321 & 306)	Personal work (321 & 306)
Friday 9/8	9h30 – 12h30 Student presentations	13h30 – 15h30 Open analysis 16h – 17h30 Exam
	Classroom (316)	Computer room (313 & 321)

Teaching team

Stéphane Le Crom (Sorbonne Université, Paris)

Lucie Gaspard-Boulinç (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.