

UE Biostatistics, bioinformatics, modeling (part II)





> Teaching language(s): English

> Open to exchange students: Yes

> Code d'export Apogée: YAX9BI38

Presentation

Description

Course outline

At the end of the course, the students should be able to analyze a "omic" dataset. More precisely, they should be able.

- 1- to load, explore and summarize graphically a dataset.
- 2- to compute confidence interval estimates for proportions, means and variances.
- 3- to formulate hypotheses, compute tests statistics, interpret p-values and make practical decisions for the standard parametric and non-parametric tests.
- 4- to adjust simple and multiple linear models, analyses of variance (anovas), logistic regression, Cox model.
- 5- to select genes that explain a response variable by applying multiple testing approaches.
- 6- to analyze a data set of differential gene expression.





Course parts

UE Biostatistics, bioinformatics, modeling (part II)- TD

Tutorials (TD)

12h

UE Biostatistics, bioinformatics, modeling (part II) (part II) -

Lectures (CM)

27h

CM

Period: Semester 9

Skills

Overview of the principal techniques of statistical data treatment, with an emphasis on practical skills and the use of the statistical software R.

Useful info

Contacts

Program director

Leclercq-Samson Adeline

adeline.leclercq-samson@imag.fr

Place

> Grenoble

Campus

> Grenoble - University campus

