Bioinformatique

Lecturers
Matthieu DEFRANCE (Coordinator), Jean-François FLOT and Maxime TARABICHI

Course mnemonic
BMOL-F413

ECTS credits
5 credits

Language(s) of instruction
French

Course period
Second term

Campuses
Solbosch and Plaine

Course content

1. Alignment, assemblage and phylogeny (J.-F. Flot)
2. Genomics and data analysis (M. Defrance)

After an introduction to sequencing technologies (NGS), this part of the course focuses on "omics" data analysis tools.

Objectives (and/or specific learning outcomes)

The aim of this course will be to give students a theoretical and practical introduction to bioinformatics.

Teaching method and learning activities

Lectures and applications.

Contribution to the teaching profile

Master the scientific concepts and fundamental knowledge of biochemistry, molecular and cellular biology and related disciplines (Neurobiology, Immunology, Biotechnology, ...).

Use bioinformatics resources and software adapted to their exploitation.

Develop a scientific argumentation.

Write a research report according to the good practices of the BBMC.

References, bibliography and recommended reading

Zvelebil & Baum, "Understanding Bioinformatics", Garland, 2007

Other information

Place(s) of teaching

Plaine and Solbosch

Contact(s)

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Evaluation method(s)

Oral presentation and Written report

Determination of the mark (including the weighting of partial marks)

The weighting is as follows: 50% for the part of M. Defrance 50% for the part of J.-F. Flot

Main language(s) of evaluation

French

Programmes

Programmes proposing this course at the faculty of Sciences

MA-BMOL | Master in Biochemistry and Molecular and Cell Biology | finalité Research/unit 1