

# 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)

matthieu.defrance@ulb.be

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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