



BIO-INFORMATIQUE, BIO-STATISTIQUE ET MODÉLISATION

BIO-INFORMATIQUE, BIO-STATISTIQUE ET MODÉLISATION

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| Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 15 | Project : 0.0 | Language : FR

Objectives

Through this course, basic statistical tools as well as modeling concepts and techniques will be discussed to allow engineering students to analyze and model data in the life sciences. From concrete examples, analysis and modeling strategies will be studied, and the development of a complete model will be worked out.

Keywords :

Programme

BE 1 (4h): Modeling of living tissue
BE 2 (4h): Cell membrane modeling in molecular dynamics
BE 3 (4h): Epidemiology and vaccination
BE 4 (3h): Statistical tools for life sciences

Learning outcomes

- Understanding modeling
- To be able to simulate and analyze a model
- Recognize the application contexts of statistical methods and implement them on datasets
- Understand the principle of molecular dynamics simulations

Independent study

Objectifs :

Méthodes :

Core texts

Assessment

1 written report for each BE, each counting for 25% of the final mark