

BIO-INFORMATIQUE, BIO-STATISTIQUE ET MODÉLISATION BIO-INFORMATIQUE, BIO-STATISTIQUE ET MODÉLISATION

Lecturers:Emmanuelle LAURENCEAU, Christelle YEROMONAHOS| 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	
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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 : This activity is not concerned with framed autonomy activities outside personal work.

Méhodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Assessment

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