



BIOPRODUCTION

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Lecturers: Emmanuelle LAURENCEAU

| Lecturers : 4 | TC : 0.0 | PW : 7 | Autonomy : 2 | Study : 4 | Project : 0.0 | Language : FR

Objectives

This course will allow engineering students to identify the stages of production of a recombinant protein as well as the different purification methods, their roles and interests in bioproduction processes. The production of recombinant proteins by genetic engineering methods is a common process in most areas of biotechnology. Using perfectly mastered methods, this process makes it possible to obtain specific proteins, in particular of therapeutic interest, with a very high yield.

Keywords :

Programme

Course (4h):

- Principle of genetic engineering
- Production and purification of recombinant protein

BE (4h): Biofermenter

Practical (7h): Microbrewery

Learning outcomes

- Know the techniques of bio-production and characterization of biomolecules
- Set up an experimental protocol
- Present results in a relevant, rigorous and critical manner for analysis
- Write a complete technical report, correctly referenced

Independent study

Objectifs :

Méthodes : Preparatory work for the practical

Core texts

Assessment

50% knowledge (course exam and BE), 50% know-how (practical report)