**UE 60 BIOTECHNOLOGY**

**4 ECTS**

**Content**

**Classes**
- Production of recombinant proteins:
  - Engineering of recombinant DNA, cell transgenesis, cells and host organisms, cultures and bioreactors in industrial production, purification and characterization processes
  - Formulation, quality control and PK / PD aspects of recombinant proteins
  - Therapeutic approaches based on the use of recombinant proteins (mAb, vaccination, therapeutic cytokines)
  - Therapeutic approaches using cell therapy
  - Therapeutic approaches using gene therapy
  - Safety and toxicological aspects of recombinant proteins

**Tutorials**
- Production of recombinant proteins

* Classes (all students in amphitheater), Tutorials (small groups of students);

**Assessment**

Final exam about classes and tutorials.
Continuous assessment for the practical works with report writings, oral presentations and/or lectures.
Attendance to practical works needs to be approved.

**Contact**

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