

Course: Trends in Biomolecular Science

Teacher: shared among members of the PhD course

Length: 2.5 CFU (20 hours)

Objective:

Biomolecular science is a research area that profits from a strong multidisciplinary expertise on genetics, microbiology, molecular and cell biology, structural biology, biochemistry, synthetic and systems biology, etc. This course is aimed to provide advanced and updated knowledge through a theoretical and practical training oriented to provide the required skills for supporting the students in their biotechnological research projects (in the different fields of application).

COURSE TOPICS

Over the years, the course will focus on most recent trends in molecular and cell biology related to:

- Analytical methods
- Advanced cell biology
- Advanced cell biochemistry
- Biopharmaceuticals: from concept to production
- Biomolecules
- Biotransformation and biocatalysis
- Experimental design and research methodology
- Molecular genetics
- Molecular microbiology
- Molecular system biology