

Lab skills – introduction to Biotechnologies

 **ECTS**
3 crédits **Etablissement(s)**
UFR Chimie,
UFR des
Sciences
fondamentales
et biomédicales **Volume horaire**
26h **Période de
l'année**
Semestre 2

En bref

- **Langue(s) d'enseignement:** English
- **Forme d'enseignement :** Travaux dirigés & Travaux pratiques
- **Ouvert aux étudiants en échange:** Non

Présentation

DESCRIPTION

Biotechnology is the technology that uses living organisms or cells (plants, eukaryotic cells, yeast, bacteria) to make various products benefiting human beings. This teaching lab is designed as an introduction to biotechnologies with focus on a very useful technique to produce proteins; the recombinant DNA technology. Thanks to this technology, crucial proteins required for health (insulin, growth factors, vaccines proteins, antibodies) and dietary purposes can be manufactured safely and affordably, in large scale. This teaching lab will give you an overview of the steps and techniques used in laboratories and industries to produce and purify a recombinant protein. (bioinformatics: research of coding sequence in databases, molecular cloning, protein expression by bacteria and purification by affinity chromatography).

HEURES D'ENSEIGNEMENT

Lab skills - introduction to Biotechnologies	Cours Magistral	2h
Lab skills - introduction to Biotechnologies	Travaux Pratiques	24h

PRÉ-REQUIS OBLIGATOIRES

Pour en savoir plus, rendez-vous sur > u-paris.fr/choisir-sa-formation

Basics of molecular biology (replication, transcription, translation, PCR). Recorded lessons will be provided in advance for students who have no notion of molecular biology. These notions are considered acquired when the teaching lab starts.

En bref

CONTACTS

Responsable pédagogique

Armelle Melet

✉ armelle.melet@u-paris.fr

LIEU(X)

➤ Campus Saint Germain des Prés

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