

UE High throughput Biology



Niveau d'étude
Bac +5



ECTS
6 crédits



Composante
UFR de Chimie
et de biologie



Période de
l'année
Automne (sept.
à dec./janv.)

Diplômes intégrant cet élément

- Master Biologie - Santé
- Master Chimie
- Master Biologie végétale

- › Langue(s) d'enseignement: Anglais
- › Ouvert aux étudiants en échange: Oui
- › Code d'export Apogée: YAX9BI37

Présentation

Description

Course outline

The lectures present the basic methodology and some advanced techniques used for high throughput *in vitro* small molecule drug discovery. The principles and statistical methods used for assay optimization and validation will also be explained.

- I. Molecular biology, Biochemistry and Protein expression
- II. Proteomic analysis; Mass spectrometry
- III. Lab-chips and Cell-chips
- IV. Structural biology: Crystallogenesis and Crystallization; RMN
- V. Combinatory chemistry

Format of exams: Oral exam (at the end of December) and Research project (at the beginning of January)

Heures d'enseignement

CM	CM	36h
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Pré-requis recommandés

Background in biochemistry, molecular biology and cellular biology. Knowledge in physiology, immunology and microbiology will be appreciated. Students with laboratory and/or practical skills will better understand technological benefits of the use of high throughput technologies in the lab work.

Période : Semestre 9

Infos pratiques

Contacts

Responsable pédagogique

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