

# UE High throughput Biology



Niveau d'étude  
Bac +5



ECTS  
6 crédits



Composante  
UFR Chimie-  
Biologie



Période de  
l'année  
Toute l'année

- > **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)

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## Heures d'enseignement

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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

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### Contacts

Responsable pédagogique

Adrien ANTKOWIAK

✉ [adrien.antkowiak@univ-grenoble-alpes.fr](mailto:adrien.antkowiak@univ-grenoble-alpes.fr)

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### Lieu(x) ville

> Grenoble

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### Campus

> Grenoble - Domaine universitaire