

UE High troughput biology





Component UFR Chimie-Biologie

- > Teaching language(s): English
- > Open to exchange students: Yes
- > Code d'export Apogée: YAX9BI37

Presentation

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)





Course parts

UE High troughput biology - TD	Tutorials (TD)	10h
UE High troughput biology - CM	Lectures (CM)	30h

Recommended prerequisites

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.

Period : Semester 9

Useful info

Contacts

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Place

> Grenoble

Campus

> Grenoble - University campus

