CH-603

Basic principles of drug action at the nervous system

Invited lecturers (see below), Kellenberger Stephan Beat

Cursus	Sem.	Type
Chemistry and Chemical Engineering		Opt.
Neuroscience		Opt.

Language of teaching	English
Credits	1
Session	
Exam	Written
Workload	30h
Hours	**14**
Lecture	14
Number of positions	**15**

Frequency

Every year

Remark

Next time Spring 24

Summary

The aim of this course is two-fold: i) to describe the molecular properties of some important drug targets ii) to illustrate some applications of drugs active at the nervous system

Content

Basic Principles of drug action at the nervous system
1) Molecular pharmacology of ion channels
2) Pharmacology of pain
3) Pharmacology of GABA receptors
4) Anti-epileptic and local anesthetic drugs
5) Pharmacogenetics in psychiatry
6) Pharcacology of the central nervous system I
7) Pharmacology of the central nervous system II

Keywords

drug action

Learning Prerequisites

Important concepts to start the course

Basic knowledge of biochemistry, physiology and neurobiology

Assessment methods

2021: Written research report on a topic chosen by the teacher

Resources

Moodle Link

- https://go.epfl.ch/CH-603