

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
<b>Hours</b>	<b>14</b>
Lecture	14
<b>Number of positions</b>	<b>15</b>

**Frequency**

Every year

**Remark**

Next time Spring 25

**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) Pharmacology 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>