



# UNIVERSITÀ DI PISA

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## PHARMACEUTICAL AND TOXICOLOGICAL CHEMISTRY II

**FEDERICO DA SETTIMO PASSETTI**

Anno accademico 2020/21  
CdS PHARMACEUTICAL CHEMISTRY AND TECHNOLOGY  
Codice 028CC  
CFU 9

Moduli	Settore/i	Tipo	Ore	Docente/i
CHIMICA FARMACEUTICA E TOSSICOLOGICA II	CHIM/08	LEZIONI	63	FEDERICO DA SETTIMO PASSETTI CONCETTINA LA MOTTA

### Learning outcomes

#### *Knowledge*

This course aims at furnishing the fundamental knowledge about design, synthesis, chemical-physical and toxicological properties, and utilization of some classes of drugs (Drugs acting at synaptic and neuroeffector junctional sites. Drugs acting on the central nervous system. Drug therapy of inflammation, Drugs affecting renal and cardiovascular functions, Drugs affecting gastrointestinal functions)

#### *Assessment criteria of knowledge*

The student will be assessed on his/her demonstrated ability to discuss the main course contents using the appropriate terminology.  
Methods:

- Final oral exam

#### *Teaching methods*

Delivery: face to face

Learning activities:

- attending lectures
- participation in seminar

Attendance: Mandatory

Teaching methods:

- Lectures
- Seminar

#### *Syllabus*

The course will deal with: 1)relationships between chemical structure of drugs and biological activity 2)mechanisms of action of the drugs at the molecular level. 3)bases for an appropriate and rational drug design.

#### *Bibliography*

T.L. Lemke, D.A. Williams. Foye's Principles of Medicinal Chemistry. G.L. Patrick. An Introduction to Medicinal Chemistry Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry

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