









Adverse effects of drugs: classification, balancing drug benefits and adverse effects, management of adverse effects.

#### DRUGS ACTING ON THE AUTONOMIC NERVOUS SYSTEM

: prof. Michela Matteoli

2 (4 hours)

Structure and function of central and peripheral synapses.

The sympathetic and parasympathetic systems: a general overview.

The cholinergic synapse and the drugs affecting cholinergic neurotransmission.

The catecholaminergic synapses and the drugs affecting adrenergic neurotransmission.

#### DRUGS TO TREAT CARDIOVASCULAR DISEASES

: prof. Gianluigi Condorelli



## MECHANISMS OF ANTI-INFLAMMATORY DRUGS

1 (1 hour)

Introduction to some classes of anti-inflammatory agents: nonsteroidal anti-inflammatory drugs (NSAIDs) and cytokine inhibitors.

## MECHANISMS OF PULMONARY PHARMACOLOGY

1 (1 hour)

drugs used to treat asthma, chronic obstructive pulmonary disease, and cystic fibrosis.

## 2<sup>nd</sup> SEMESTER

### NEUROPHARMACOLOGY

: prof. Michela Matteoli, prof. Davide Pozzi, dr. Erica Tagliatti, dr. Fabia Filipello  
12 (24 hours)

General principles of neuropharmacology: synapse as a drug target.  
Pharmacology of neurodegenerative disorders, with a focus on .  
Antidepressant drugs and pharmacotherapy of depressive disorders.  
Antipsychotic drugs  
Anxiolytics and hypnotic drugs.  
Mechanisms of action of antiseizure medications.  
Addiction and drugs of abuse.  
pain therapy.  
Pharmacology of the blood-brain-barrier and multiple sclerosis.  
General anesthetic drugs.  
New frontiers in neuropharmacology.

### GASTROINTESTINAL PHARMACOLOGY

prof. Alessandro Armuzzi

2 (4 hours)

gastric acidity, peptic ulcers, and gastroesophageal reflux disease.  
Pharmacotherapy for motility and functional gastrointestinal disorders.







## **Texts**

Bertram G. Katzung, Todd W. Vanderah

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