
COURSE: Pharmacology and Toxicology

ACADEMIC YEAR: 2017-2018

TYPE OF EDUCATIONAL ACTIVITY: Characterizing

TEACHER: Dr. Vincenzo Brancaleone

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website:

phone: **0971 205082**mobile (optional):

Language: **Italian**

ECTS: **7 (lessons)**n. of hours: **56 (lessons)**Campus: **Potenza**
Dept.: **Science**
Program: **BIOTECHNOLOGY IN
MEDICAL, VETERINARY AND
PHARMACEUTICAL
DIAGNOSTICS (LM-9)**Semester: **II**
From 01/03/2019 to
31/05/2019-
20/06/2019

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

Knowledge and understanding: The course aims to provide specific skills on the pivotal principles of pharmacology and toxicology therapeutic treatments.

Ability to apply knowledge and competence: the acquired knowledge must be correctly applied in approach to therapeutic strategies of classical drugs or biologics.

Learning skills: the acquired knowledge represents the starting point for a further study on Pharmacology textbook, together with participation in initiatives (seminars) that can broaden the cognitive field and therapeutic care of the notions of pharmacology

PRE-REQUIREMENTSKnowledge of fundamentals about Physiology, Pathology and Biochemistry.

SYLLABUS**General pharmacology (5 hours)****Adrenergic system (15 hours)**

Adrenergic agonists and antagonists. Direct and indirect agonism and antagonism.

Cholinergic system (10 hours)

Cholinergic agonists and antagonists. Direct and indirect agonism and antagonism. Cholinesterases inhibitors

Pharmacotherapy (20 hours)

Antiarrhythmic drugs, antihypertensive drugs, antiinflammatory drugs, central nervous system (CNS) drugs

Principles of antibacterial therapy (6 hours)General features of use of antibacterial drugs in infectious diseases. Major drugs used in therapy: beta-lactams, aminoglycosides, Quinolones, Macrolides and Sulphonamides

TEACHING METHODSThe class consists of 56 hours of lessons.

EVALUATION METHODSEvaluation will be assessed through oral examination. However, students who will attend the course will have the chance to pass the exam undergoing two intermediate tests. These will consist of multiple choice questions on restricted part of the program, followed by oral examination for the rest of the subjects.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIALGoodman & Gilman,; *Le basi farmacologiche della terapia*, XI Ed. McGRAW, HILLKatzung, *Farmacologia generale e clinica*, Ed. PICCIN

Paoletti, Nicosia, Clementi, Fumagalli, *Tossicologia generale e molecolare*, UTET
Lullmann, Mohr, Hein, Bieger, *Farmacologia per immagini*, Centro Scientifico Editore
Mannaioni, *Tossicologia medica*, UTET
Rang, Dale, Ritter, *Farmacologia*, Ed. AMBROSIANA

INTERACTION WITH STUDENTS

All info about the course and exam will be provided at the beginning of the course. Then, a list of attending students will be prepared. Professor will be officially available on Wednesday, from 2.00pm to 3.00pm at his room. However, student can contact professor anytime by email (**vincenzo.brancaleone@unibas.it**) or by phone (**0971 205082**).

EXAMINATION SESSIONS (FORECAST)¹

Session I: February, March

Session II: June, July

Session III: September, October, December

¹Session will be held on indicated months (one ore more). Dates will be published on ESSE3 system.

SEMINARS BY EXTERNAL EXPERTS YES NO **X**

FURTHER INFORMATION
