
COURSE: Pharmacology and Toxicology

ACADEMIC YEAR: 2019-2020

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 **02/03/2020** to
31/5-20/06/2020

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

Communication and judgements skill: the acquired knowledge should be conveyed through seminars to check communication skills and ability to perform self-judgements

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, biotechnological 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 METHODS

Evaluation will be assessed through oral examination. However, students who will attend the course will have the chance to pass the exam undergoing one or 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 MATERIAL

Goodman & Gilman,: *Le basi farmacologiche della terapia*, XI Ed. McGRAW, HILL

Katzung, *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 and Thursday, from 2.00pm to 3.00pm at his room. However, student can contact professor anytime by email (vincenzo.brancaleone@unibas.it) or phone (**0971 205082**).

EXAMINATION SESSIONS (FORECAST)¹

Sessione I: 19 February, 16 March

Sessione II: 17 June, 15 July

Sessione III: 29 September, 21 October, 16 December

¹Sessions will be held on indicated dates and will be published on ESSE3 system. However, changes in date could occur and additional sessions could be provided, always reported on ESSE3 system.

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION
