UCLouvain

wsbim1301

Pharmacologie 1re partie

The version you're consulting is not final. This course description may change. The final version will be published on 1st June.

3.00 credits	30.0 h + 7.5 h	Q1
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Language :	French				
Place of the course	Bruxelles Woluwe				
Prerequisites	The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.				
Main themes	The following chapters are covered: Pharmacodynamics: theoretical concepts and experimental approaches. Qualitative and quantitative characterization of the interaction of drugs with their molecular targets in order to predict their biological effects on simple models or on the whole organism. Systematic study of the main inter and intracellular chemical signaling pathways governing the functioning of the organism. Systematic study of pharmacological targets (receptors, ion channels, enzymes). Basic notions of general pharmacotherapy: main principles of the study of drug activity and study of the risks related to pharmacological treatments.				
Learning outcomes	At the end of this learning unit, the student is able to: At the end of this teaching entity, the student will have acquired knowledge of the basic concepts in pharmacology: 1. He will be able to define the main targets of the drugs and understand the methods used to determine their activity. 2. He will have an integrated vision of intracellular signaling pathways. 3. He will be able to understand the multiplicity of targets used or usable in pharmacology. 4. He will dispose of general notions concerning the use of medicinal products in human medicine and in particular the principle of studies leading to their validation. The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled 'Programmes/ courses offering this Teaching Unit'.				
Evaluation methods	Except material impossibility/unforeseen cause, the examination is oral with written preparation. the teachers question together and consult each other to determine the mark. During the first presentation of the exam, the mark relating to the practical work is integrated into the mark of the exam and represents 10% of the final mark.				
Teaching methods	Teaching is based on lectures (total 30 h) and compulsory tutorials (7.5 h), during which students are will learn to understand and interpret pharmacological data from a scientific publication. They will also be required to explain the data, orally if necessary.				
Content	- General pharmacodynamics: mechanisms of action of drugs; Quantitative study of the relationship between receptor binding and pharmacological response; Basic concepts on the identification, classification and regulation of receptors. - General pharmacotherapy: therapeutic index; Tolerance and drug dependence; side effects; Drugs				
	interactions; Clinical evaluation of drugs: placebo effect, clinical trials.- Systematic description of pharmacological targets at the molecular level and their implications in various pathophysiological processes				
	The teaching is essentially based on the exploration of a large number of notions specific to pharmacology. Beyond a descriptive theoretical course, the notions are developed through concrete examples.				
Bibliography	Le support : la plupart des documents présentés aux cours sont accessibles sur Internet via la plateforme Moodle accessible aux membres de la communauté universitaire.				
Other infos	The student is supposed to have basics in general biology, general cytology and histology. It is highly desirable that the student has taken a course in cell physiology.				
	Support: Most of the documents presented during the courses are accessible on the Internet via the UCLouvain Moodle site.				
	Participation in practical work is compulsory and essential to validate the teaching unit. Any unjustified absence entails a penalty for the examination of the Teaching Unit which can go as far as the cancellation of the examination mark. for the year of study considered (0/20). In the event of absence, the teacher may propose to the jury to oppose registration for the examination relating to the Teaching Unit in accordance with article 72 of the RGEE				

Université catholique de Louvain - Pharmacologie 1re partie - en-cours-2025-wsbim1301

Faculty or entity in charge	FASB

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Learning outcomes		
Bachelor in Biomedicine	SBIM1BA	3	WFARM1213S AND WSBIM1201T AND WSBIM1201P	Q		