UCLouvain

wfarm1232

2017

General Pharmacology

Teacher(s)	Hermans Emmanuel ;			
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	Pharmacodynamy: theoretical aspects and experimental approaches, including quantitative assessment of drug activity. Comprehensive overview of pharmacological targets (receptors, ionic channels, enzymes). Basic concepts in pharmacotherapy: main principles governing the study of drug action and uses as well as the risks related to pharmacological treatments.			
Aims	By the end of this course, the students will possess a general knowledge of fundamental concepts in pharmacodynamy and pharmacotherapy: 1.Students will have an overview of the principal molecular targets of drugs, and will understand the methods used to evaluate the activity of drugs. 2. They will understand the fundamental aspects of the interactions between drugs and their targets 3. They will have an overview of the general rules concerning the use of drugs in human medicine. The aim of the course is to provide sufficient background for further study of all classes of drugs used in pharmacology (courses in Special Pharmacology and Pharmacotherapy)			
	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	Examination : Written exam with open questions (questions requiring extended explanation)			
Teaching methods	The course includes lectures (total of 15 h) and practical activities (7,5h)			
Content	General Pharmacology: mechanisms of action of drugs; quantitative study of drug-receptor interaction an related responses (potency and efficacy of drugs). Basic concepts of identification, classification and regulatio of pharmacological targets. General Pharmacotherapy: therapeutic index; tolerance and pharmaco-dependance secondary and unwanted effects of drugs; drug interactions; clinical evaluation of drugs: placebo effect, clinical studies. General description of pharmacological targets at the molecular level and their implication in diverse physiopathological processes. The course explores a large number of concepts specific to pharmacology. Beyon a theoretical description, several examples of drugs and their actions are explained.			
Bibliography	Le support : l'essentiel des documents présentés aux cours est fourni aux étudiants (documents sont également accessibles sur Internet via le site iCampus de l'UCL).			
Faculty or entity in charge	FARM			

Programmes containing this learning unit (UE)					
Program title	Acronym	Credits	Prerequisite	Aims	
Bachelor in Pharmacy	FARM1BA	2	WMD1120P	Q.	
Master [120] in Biomedical Engineering	GBIO2M	2		•	