


4.00 credits

45.0 h

Q2


This learning unit is not open to incoming exchange students!

Teacher(s)	Frédérick Raphaël ;Hermans Emmanuel (coordinator) ;Jordan Bénédicte ;Lorent Joseph ;Muccioli Giulio ;
Language :	French > English-friendly
Place of the course	Bruxelles Woluwe
Prerequisites	<i>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.</i>
Main themes	Work done by a small team of students and presented to all students enrolled in the elective course. The various fields of pharmaceutical sciences taught previously will be discussed from the structure of an active compound to its action on the drug target. The student will have to think about the structure of the active compound (chemical functions, conformations, lipophily'), its origin (synthetic, natural product, produced from biotechnology), its target (s) drug (s) (receptor, transporter, ion channel, enzyme), its interaction with one (s)-and its ability to achieve these (pharmacokinetics and metabolism).
Learning outcomes	At the end of this learning unit, the student is able to : 1 Give to the student the opportunity to integrate concepts learned throughout the degree in pharmaceutical sciences by bringing it to think 'how' cross, the structure of an active compound in its action on a drug target.
Evaluation methods	Submission of a written assignment (carried out in a group, unless otherwise accepted by the coordinator). Oral examination (individual) on the written work and mastery of the information contained, in the presence of several members of the teaching team, and possibly assistants. The final mark integrates the assessment of the written work and the oral examination. If possible, the evaluation during the semester is usually organized outside the exam session, to optimize the student's agenda (continuous evaluation). In the event of a second session, the oral assessment is organized in session.
Teaching methods	In the form of written work carried out by a small team of students, the different fields of pharmaceutical sciences taught throughout the baccalaureate cycle will be approached from the structure of an active principle to its action on the pharmacological target. The student will be led to reflect on the structure of the active principle (remarkable chemical functions, conformations), on its origin (synthesis, natural product, product resulting from biotechnological processes), on its stability, its detection and its dosage, on its (its) pharmacological target (s) (receptor, transporter, ionic channel, enzyme), on its interaction with it (s) and on its ability to achieve them (pharmacokinetics and metabolism).
Content	This teaching unit invites students to use their knowledge in the various disciplines of pharmaceutical sciences to analyze active principles used in human medicine. From the angles of chemistry, analysis, pharmacology, pathology, physiology, etc., the students are led to compare the properties of these active ingredients. Students are invited to work independently, most of the time in groups. Teachers who are experts in the various pharmaceutical disciplines are at their disposal to guide them in the drafting of a written report. This teaching unit, which aims to integrate the knowledge acquired throughout the bachelor's program, is ideally positioned at the end of the baccalaureate just before going on an internship. Logically, this teaching unit has many requirements and is only possible for students at the end of the cycle.
Other infos	Prerequisite: Scientific knowledge acquired during the three years of the Bachelor of Pharmaceutical Sciences Supervision: The team of teachers
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Pharmacy	FARM1BA	4	WFARM1243 AND WFARM1231 AND WFARM1213 AND WFARM1232 AND WFARM1239	
Additional module in Pharmacy	APPFARM	4		