

3.00 credits

22.5 h

Q1

Teacher(s)	Al Houayek Mireille ;Hermans Emmanuel (coordinator) ;Lorent Joseph ;Sonveaux Pierre ;
Language :	French > English-friendly
Place of the course	Bruxelles Woluwe
Prerequisites	Understanding the concepts developed in this course requires basic training in health sciences. This graduate course is therefore only accessible to students with a bachelor's degree in pharmaceutical, biomedical, medical or dental sciences, or who finalize such a bachelor's degree.
Main themes	Through the description of recent research, the functioning of certain receptors, certain enzymes, transporters are becoming better known. This makes it possible to better define their potentiality as drug targets. The course of molecular pharmacology gives the opportunity to deepen the exploration of molecular mechanisms that are involved in the responses to certain drugs. The course is structured around a few examples of pharmacological targets already exploited or not exploited to date, but promising for future developments. This is the case, for example, of membrane receptors and regulating intracellular proteins, conveyors or efflux pumps.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>The objective of the course is to train students to understand the complexity of molecular targets used in pharmacology. This complexity constitutes a wealth in the development of drugs with better selectivity and efficiency.</p> <p>¹ 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'.</p>
Evaluation methods	Written exam with reflective questions (open question) and possibly short answer questions. The evaluation does not concern memorization, but comprehension, critical thinking and an effort to synthesize. The final mark combines the marks given by each teacher participating in the assessment for their own part (simple arithmetic average).
Teaching methods	The course is given in small groups and allows real discussions to be held around new concepts inspired by recent publications.
Content	Even if the therapeutic effects are reflected at the level of the organ or of the entire organism, the course essentially takes a look at the level of molecular mechanisms. Teaching is based on the exploration of research work centered on a particular target or an original concept that could open the way to new drugs.
Bibliography	La plupart des documents présentés aux cours sont accessibles sur Internet via la plateforme Moodle accessible aux membres de la communauté universitaire.
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Pharmacy	FARM2M	3		