


3 credits

30.0 h

Q1

Teacher(s)	Page Melissa ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	The course focuses on the cellular and molecular principles of pharmacology, in particular on the mechanisms involved in the interactions of pharmacological agents with cells, in general and in applications to specific tissues or organs, such as cardiovascular or nervous systems or physio-pathological situations such as inflammation.
Aims	<p>1 At the end of this course, the student will be able to understand and mobilise the qualitative and quantitative aspects of the molecular interactions between pharmacological agents and the cell as a target for entry and metabolic interference. The student will be able to analyze the scientific literature on a specific pharmacological situation, to write a report, to present and discuss it orally.</p> <p>-----</p> <p><i>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".</i></p>
Evaluation methods	<p>Students will be evaluated on the following:</p> <ol style="list-style-type: none"> <li>1) short presentation discussing pharmacological sciences in the popular news;</li> <li>2) presentation of a scientific article focusing on aspects of pharmacology (alone or in a group depending on the number of enrolled students) and;</li> <li>3) on the completion of a classical written examination.</li> </ol>
Teaching methods	This course will be taught face-to-face and will be as interactive as possible.
Content	<p>Cellular and Molecular Pharmacology is a theoretical course taught in English.</p> <p>Together we will focus our attention on topics such as drug discovery, drug metabolism and personalized medicine. We will also discuss drugs in metabolic disorders and neurodegenerative diseases.</p> <p>Aspects of this course include individual and group work.</p>
Inline resources	<p>This course primarily relies on Moodle. Lectures are derived from current literature and the following texts (which are not required by the students):</p> <p>Rang &amp; Dale's Pharmacology - 8th Edition                      Basic &amp; Clinical Pharmacology - 13th Edition</p>
Bibliography	<ul style="list-style-type: none"> <li>• Rang &amp; Dale's Pharmacology - 8th Edition</li> <li>• Basic &amp; Clinical Pharmacology - 13th Edition</li> </ul> <p>Nothing required</p>
Faculty or entity in charge	SC

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Agricultural Bioengineering	BIRA2M	3		
Master [120] in Biochemistry and Molecular and Cell Biology	BBMC2M	3		