

2 credits

30.0 h

Q1

Teacher(s)	Bindels Laure ;
Language :	French
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	<p>A. This part of the class aims to introduce the basic concepts in toxicology that will allow the students to understand the rationale of the current legal toxicological tests. Mechanisms of toxicity will be discussed and analyzed at various levels, from the generation of reactive species and their interactions with biological macromolecules, to the targeting of specific organs and the development of cancer and developmental malformations. Concepts related to risk evaluation are presented through the discussion and analysis of the results of in vivo and in vitro tests.</p> <p>B. In this part of the class, students are reminded of some basic notions of genetics, including the definition of various types of polymorphism (SNP, CNV, ..). The class focusses mainly on the influence of genetic polymorphisms on the clinical response to drug therapy (drug efficacy and side effects occurrence). Future prospects in personalized medicine are also presented.</p>
Aims	<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>
Bibliography	<ul style="list-style-type: none"> <li>• Les diapos du cours et les articles scientifiques vus au cours sont disponibles sur Moodle.</li> </ul> <p>Le principal livre de référence est : Burcham, Introduction to Toxicology, 2014, pdf disponible sur Moodle et le site de la bibliothèque</p>
Faculty or entity in charge	FARM

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Additionnal module in Biomedical Sciences	WSBIM100P	2		