UCLouvain

wfarm2501

2020

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

3 credits	22.5 h	Q2

Teacher(s)	Frédérick Raphaël ;Frédérick Raphaël (compensates Lambert Didier) ;Lambert Didier ;Muccioli Giulio (coordinator) ;
Language :	French
Place of the course	Bruxelles Woluwe
Main themes	The general theme is drug discovery / drug design. During this EU the students will approach one or more drug discovery / drug design methodologies of their choice through a work allowing the deepening of the chosen techniques / methods. In addition, all students participating in the EU will have the opportunity to have an overview of these methods through the presentation of each student's work. In a non-exhaustive way the students will have the opportunity to deepen, according to their interest, techniques allowing the identification of hits for a given target (high throughput screening; computer-aided design (de novo design), ...), hit-to-lead strategies (e.g. structure-activity relationships; docking; etc).
Aims	1 • To interpret the results of a scientific article dealing with the development of a medication To propose a strategy to identify a new potential therapeutic target To propose a strategy to identify new leads for a given target (receptor, enzyme) To propose a strategy to optimize the activity of a compound for its target. To present orally a "fictitious" research project based on the theme chosen. - - - - *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".*

Content	• Lipidomics applied to the discovery of novel targets
	• Exploring the proteome looking for novel targets : the enzymes ' the receptors
	• Proteins as therapeutic target
	  • Determination of their 3D structure
	  • Role of protein's 3D models in drug design
	• The interest of establishing structure-activity relationships in drug design

Faculty or entity in charge	FARM

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