

## wsbim2141p

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).

2 credits	20.0 h	Q1

Teacher(s)	Lemaigre Frédéric (coordinator) ;				
Language :	French				
Place of the course	Bruxelles Woluwe				
Main themes	The course describes the molecular and cell biology of intercellular signaling in normal condition and cancer, the mode of action of anti-cancer drugs, and the interaction between tumor cells and their micro-environment.				
Aims	master the main intercellular signaling pathways, the interactions between tumor cells and their environment;				
	understand and explain how perturbed intercellular signaling contributes to tumor initiation and progression, and metastasis;				
	3 understand and explain how anti-cancer drug modulate intercellular signaling;				
	be able to design an experimental approach aiming at the identification of therapeutic targets;  - be able to critically address an oral presentation or article in the field;  - use the acquired knowledge to address knew issues.				
	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".				
Evaluation methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change.  Written exam, on site, with open questions evaluating the student's knowledge and the student's ability to implement the knowledge to solve a biological problem.  The final mark of the exam results from the global evaluation of the exam, not from the mathematical sum of points obtained at individual questions.				
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change.  Lectures, on site				
Content	The course describes the molecular and cell biology of intercellular signaling in normal condition and cancer, the mode of action of anti-cancer drugs, and the interaction between tumor cells and their environment.  At the end of the course, the students are expected to master the main intercellular signaling pathways, the interactions between tumor cells and their environment; to understand and explain how perturbed intercellular signaling, abnormal metabolism and cell immortality contribute to tumor progression and metastasis; to understand and explain how anticancer drug modulate intercellular signaling; to be able to design an experimental approach aiming at the identification of therapeutic targets; to use the acquired knowledge to address new issues.				
Inline resources	Slides presented during courses and teaching notes are made available on http://moodleucl.uclouvain.be/				
Bibliography	The biology of Cancer, R.A. Weinberg, Garland Publishing				
Other infos	Prerequisite: fundamental principles in cell and molecular biology, and biochemistry (metabolism) taught duting the baccalaureate.				
Faculty or entity in charge	FASB				

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Aims		
Master [120] in Biomedicine	SBIM2M	2		Q.		
Master [60] in Biomedicine	SBIM2M1	2		0		