UCL Université catholique de Louvain

WSBIM2144

2014-2015

Diagnostic et thérapie du cancer

3.0 credits	30.0 h	1q

Teacher(s) :	Coulie Pierre (coordinator) ; Baurain Jean-François ; Duprez Thierry ; Gallez Bernard ; Grégoire Vincent ; Marbaix Etienne ; Poirel Hélène ;
Language :	Français
Place of the course	Bruxelles Woluwe
Prerequisites :	cellular biology, histology, molecular biology, physics, biochemistry, immunology.
Main themes :	Description of the hallmarks of cancer and of the main tools used for its diagnosis and treatment. A few fields will be covered in more detail: the genetic causes of some blood cancers, the pathological examination of tissue samples to faithfully detect a tumor, the imaging technologies and their remarkable progresses over the recent years, radiotherapy and its interaction with modern imaging technologies, the so-called targeted therapies which deal with signal transduction pathways involved in cell proliferation, and immunotherapy.
Aims :	Understand the main concepts behind the diagnosis and treatment of cancer. On the basis of the hallmarks of cancer, understand which of them can lead to diagnostic tools for many or some cancer types, and which of them can be specifically targeted by chemical or physical agents in order to treat and possibly cure patients. *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 :	written examination with short answers or essays.
Content :	Lessons alternate between basic and clinical sciences in order to link as much as possible the progresses of fundamental sciences and their practical consequences for cancer patients. The clinical concepts of oncology will be simplified in order for all the presented materials to be understandable for students in biomedical but not medical sciences.
Other infos :	Slides.
Cycle and year of study :	> Master [60] in Biomedicine > Master [120] in Biomedicine
Faculty or entity in charge:	FASB