


In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

3 credits	30.0 h	Q1
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Teacher(s)	Baurain Jean-François ;Coulie Pierre (coordinator) ;Duprez Thierry ;Gallez Bernard ;Havelange Violaine ;Marbaix Etienne ;
Language :	French
Place of the course	Bruxelles Woluwe
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	<p>1 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.</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	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Written exam, mostly open questions.
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Lectures.
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 sciences. Covered topics: Pathological diagnosis of cancer, Principles and applications of anatomical and functional imaging techniques for the diagnosis and assessment of cancer, Genetics and cancer, Anticancer chemotherapy, Radiotherapy, Cancer immunotherapy.
Inline resources	Slides.
Faculty or entity in charge	FASB

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [60] in Biomedicine	SBIM2M1	3		
Master [120] in Biomedicine	SBIM2M	3		