


3.00 credits

20.0 h + 10.0 h

Q1

Teacher(s)	Dumoutier Laure (coordinator) ;Lucas Sophie ;Renauld Jean-Christophe ;van der Bruggen Pierre ;Vigneron Nathalie (compensates Renauld Jean-Christophe) ;
Language :	French > English-friendly
Place of the course	Bruxelles Woluwe
Main themes	Advanced notions of immunology, focusing on a few topics relevant for biomedicine: inflammation and triggering mechanisms, cancer immunology and therapeutic applications, cytokines and regulation of innate and adaptive immune responses, immunosuppressive mechanisms and regulatory T cells with their roles in autoimmune diseases, T helper cells and NK cells in the defense against pathogens.
Learning outcomes	At the end of this learning unit, the student is able to : 1 At the end of this course the student will be able to understand various experimental methods used in immunology, and to interpret and criticize experimental results in immunology themes that were discussed during classes.
Evaluation methods	Written exam, open questions. Experimental results are presented, similar to but different from those presented during the course, have to be interpreted and discussed.
Teaching methods	Lectures based mostly on experimental results which are discussed with their controls and interpretation. Interaction with students, who need to understand basic immunology. Four teachers, with 1-3 topics per teacher. All documents on Moodle.
Content	Advanced studies on immunology, focused on a few topics that are medically relevant: inflammation and its triggering mechanisms, cancer immunology and therapeutic applications, Antigen processing by the different proteasomes, cytokines and regulation of innate and adaptive immune responses, immunosuppressive mechanisms and regulatory T cells with their roles in autoimmune diseases, myeloid cells with their roles in cancer.
Inline resources	Slides available on Moodle.
Other infos	basic immunology is necessary
Faculty or entity in charge	SBIM

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