

4.0 credits	60.0 h	1q
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Teacher(s) :	Van den Eynde Benoît ; Coulie Pierre ; Renauld Jean-Christophe ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	<ol style="list-style-type: none"> <li>1. History and key concepts</li> <li>2. Antibodies and B lymphocytes</li> <li>3. T lymphocytes</li> <li>4. Development and organization of the immune system</li> <li>5. Immune tolerance</li> <li>6. Synthesis : immune responses against infectious agents</li> <li>7. Elements of immunopathology</li> </ol> <p>The course contains two parts. A unit of 30 h covers all seven items indicated above, and corresponds to a central core for all students (MED, DENT, PHRAM, SBIM). A second unit, of 15 h, runs concurrently for SBIM students. It provides additional information for each main topic, focused on practical and experimental applications. In addition to these ex cathedra units, 15 h are devoted to tutoring for smaller groups of students who wish, on a free will basis, to improve their learning immunology.</p>
Aims :	<p>This general immunology course covers the main mechanisms of an immune response. It is based on mendeleian genetics, molecular biology, cellular biology, biochemistry, microbiology and histology. The lessons lead to the understanding of how the immune system works in healthy individuals and of the mechanisms of immune deficiencies or excessive immune responses as observed in diseases.</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>
Content :	<p>Lessons are focused on an experimental approach, illustrating how key experiments have been performed and how their interpretation lead to the discovery of important new concepts. Notes are provided, which contain exercises and illustrations. Additional information is available on iCampus.</p>
Other infos :	<p>Prerequisites include general microbiology (bacteria and viruses) ; basic biochemistry of proteins, polysaccharides and lipids ; mendeleian genetics, molecular biology of genes (eukaryotes) ; histology of blood cells and lymphoid organs ; cytology.</p> <p>Evaluation : oral examination with a written preparation.</p>
Cycle and year of study :	<p><a href="#">&gt; Bachelor in Biomedicine</a>  <a href="#">&gt; Preparatory year for Master in Biomedicine</a></p>
Faculty or entity in charge:	SBIM