

5.0 credits

10.0 h + 40.0 h

2q

Teacher(s) :	Denef Jean-François ; Gérard Anne-Catherine ; Many Marie-Christine (coordinator) ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	<p>The biological and medical sciences are based on three fundamental disciplines:</p> <ul style="list-style-type: none"> <li>- BIOCHEMISTRY, which studies the molecules composing the organism and the chemical reactions happening within it,</li> <li>- MORPHOLOGY, which studies the structures formed by assembling molecules,</li> <li>- PHYSIOLOGY, which studies the function of diverse structures composing the organism.</li> </ul> <p>Cytology is the study of the cellular components.</p> <p>The objectives of this part of the course are to enable students to establish links between the morphology and the main cellular functions, between the cellular ultrastructure and the cellular aspect at light microscopy.</p> <p>Just like cytology and anatomy, histology is a branch of morphology, and is itself divided into general and special histology. General histology is the study of tissues, the association of cells of the same type, sometimes with extracellular components, which form the elemental organ components. Special histology, also called microscopic anatomy, is studied later. It studies the architecture of organs composed of several tissues.</p>
Aims :	<ol style="list-style-type: none"> <li>1. To acquire the scientific and medical vocabulary used in morphological sciences and know the definition of the words used.</li> <li>2. To know the definition of the tissues composing the human body and their main localisation.</li> <li>3. To know the cytological, histological and sometimes macroscopical characteristics of the tissues, in other words, their identification criteria.</li> <li>4. To know the elements of histophysiology: the role and function of tissues.</li> <li>5. To be capable of analysing a morphological document (light or electronic micrography, macroscopic photography, histological preparation). This requires the capacity to examine the document as a whole, spotting the different constituents of the tissues, giving their description outlining shape, dimensions, their tinctorial affinities, their association..., picking out the essential elements from the accessory ones.</li> <li>6. To summarise data obtained through observation and to elaborate one or several diagnostic hypotheses.</li> </ol> <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 :	<ol style="list-style-type: none"> <li>1° Elements of cytology, 1 lesson</li> <li>2° Epitheliums and glands, 4 lessons</li> <li>3° Connective tissues - specialised and unspecialised, 3 lessons</li> <li>4° Blood and defence mechanisms, 3 lessons</li> <li>5° Nervous tissues, 2 lessons</li> <li>6° Muscular tissues, 2 lessons</li> </ol> <p>Method: The course is given in the form of 15 audiovisual sessions lasting approximately 4 hours. This method allows the integration of both theoretical and practical teaching, enabling students to develop their capacities and acquire knowledge simultaneously. These sessions are therefore training periods during which teachers help the students in their individual work. It is therefore in their interest to ask as many questions as possible.</p> <p>Each student has an audiovisual cubicle at his disposal, once a week, where he can study at his own pace. His microscopy exercises are corrected. Each chapter is the object of one or two tests and is corrected and discussed in small groups with a teaching assistant. It is in the interest of the student to prepare each audiovisual session in advance by reading the pertinent chapter. He has indeed a manual containing all essential theoretical elements at his disposal.</p>
Other infos :	<p>Prerequisite : a mastering of the French language</p> <p>Evaluation: includes both a theoretical and a practical approach (identification of projected slides and microscopy slides unseen during the course)</p> <p>Course material: syllabus, CD rom and internet website <a href="http://www.md.ucl.ac.be/isto/">http://www.md.ucl.ac.be/isto/</a></p> <p>Supervision: self-learning sessions supervised by assistants and student supervisors</p>
Cycle and year of study :	<a href="#">&gt; Preparatory year for Master in Biomedicine</a> <a href="#">&gt; Bachelor in Biomedicine</a> <a href="#">&gt; Bachelor in Pharmacy</a> <a href="#">&gt; Bachelor in Dentistry</a>
Faculty or entity in charge:	MED