

3.0 credits	30.0 h	2q
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Teacher(s) :	Courtoy Pierre ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	<p>This course aims at integrating at the tissular level basic knowledge gained at the preclinical level of academic training, in order to understand the general processes of disease, while stressing the diversity of their evolution among individual patients, so as to facilitate transition from the generality of certitudes in basic knowledge (" science "), to the differentiated and probabilistic approach of sick individuals learned during clinical training (" the quite art "). Lectures (1) show the essence of pathogenesis, deriving from single causes and combined risk factors a logical sequence of reactive processes, leading to a visible translation, the lesions; (2) unravel for exemplary diseases the relations between lesions and dysfunctions, their clinical manifestations, and the derived preventive, diagnostic and therapeutical implications ; (3) illustrate that (even rare) pathologies are part of life and that elucidation of these natural experiments of nature lead one to discover new biological mechanisms.</p>
Aims :	<p>(1) to learn the dynamics of elementary pathological processes translated into visible alterations of cells (specific overload, changes in size or number, suffering and necrosis) and of the extracellular compartments (oedema, extracellular matrix disorders, pathological deposits) and (2) to understand cell-cell and cell-matrix interactions underlying inflammation, the fight against infection and tissue repair ; as well as the origin, invasion and distance spreading of solid cancer.</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>This course focuses on the pathogenesis and manifestations of the major human pathologies that can best be explained from a structural perspective. Are covered : (1) the natural history of diseases (exemplified by atheromatosis leading to heart infarction) ; (2) how primary alterations of the metabolism and of fluxes between biological compartments result into morphological translations and clinical signs; (3) mechanisms and manifestations of cell suffering and necrosis ; (4) deficits of blood and tissue exchange ; (5) general pathology of extracellular matrix ; (6) infection, inflammation and repair ; and (7) the natural history of cancer.</p>
Other infos :	<p>Pre-requisite : cell and molecular biology, general and systemic histology, human anatomy, general and medical biochemistry, general and systemic physiology, notions of statistics and epidemiology.</p> <p>Method : lectures with multiple illustrations showing the continuity from microscopic lesions to macroscopic signs.</p> <p>Evaluation : oral examination after written preparation, based on a structured presentation addressing two general questions selected by chance, followed by specific checks throughout the course. Best students can be asked additional questions not developed during the course, but for which they should have adequate training.</p> <p>Individual support : printed notes, recommended textbooks available at the Faculty library.</p> <p>Other : particular synergy with the course General pathology (ANPG1300).</p>
Cycle and year of study :	<p>> Bachelor in Medecine > Bachelor in Philosophy > Bachelor in Psychology and Education: General > Bachelor in Economics and Management > Bachelor in Human and Social Sciences > Bachelor in Sociology and Anthropology > Bachelor in Political Sciences: General > Bachelor in Pharmacy > Bachelor in Religious Studies > Master [120] in Biomedicine > Master [60] in Biomedicine</p>
Faculty or entity in charge:	MED