



5 credits

30.0 h + 30.0 h

Q2

Teacher(s)	Dumont Patrick ;Gofflot Françoise ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	Epithelia. Histology of epithelia Physiology : transport of gas and solutes through epithelia Biochemistry : application to intestinal epithelium in the context of digestion, transport and metabolism of food Muscles. Histology of skeletal muscle, cardiac muscle and smooth muscles Physiology of muscular contraction Biochemistry of energy production mechanisms Nervous tissue Histology of central and peripheral nervous system Physiology of neurotransmission - synapse and regulation Biochemistry in energy gain of brain and neurotransmission Connective tissues Histology of connective tissues Physiology : brown adipose tissue and thermoregulation Biochemistry : energetic reserve control in adipose tissue Blood Blood cells Biochemistry : haemoglobin role, biochemistry of coagulation
Aims	<p>To establish the bases in biochemistry, physiology and histology, the main animal tissues will be studied, emphasis being put on mammalian tissues. Certain notions in cellular biology will also be deepened with the objective of integrating morphological, physiological and biochemical aspects in cellular processes.</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>
Inline resources	https://moodleucl.uclouvain.be/course/view.php?id=10701
Bibliography	<ul style="list-style-type: none"> • Diapositives du cours disponibles sur Moodle UCL (format pdf) / Slides available online (Moodle UCL) in pdf format <p>Biologie humaine. Anatomie et physiologie, E. Marieb Principes d'Anatomie et de Physiologie, Tortora Neurosciences, Purves et al. Atlas d'Histologie Fonctionnelle de Weather The Endocrine System (Hinson, Raven & Chew)</p>
Faculty or entity in charge	BIOL

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Biochemistry and Molecular and Cell Biology	BBMC2M	5		
Master [60] in Biology	BIOL2M1	5		
Additional module in Biology	LBIOL100P	5		