

2 credits

18.0 h

Q2

Teacher(s)	Bommer Guido ;Lemaigre Frédéric coordinator ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	Basic knowledge in general biochemistry, cellular and molecular biology and dental histology. <i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	The program focuses on intermediary metabolism and its adaptation to various physiological situations (exercise, fasting, diabetes), on mechanisms that control blood fluidity or coagulation, regulation of blood pH, metabolism of ions essentials for the formation of teeth, inflammatory response, biochemistry of saliva, biochemistry of mineralized and connective tissues of the mouth area.
Aims	<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>
Evaluation methods	Written exam. Examples of questions are regularly given.
Teaching methods	Teaching methods: lecture courses essentially.
Content	The human biochemistry course includes: (1) Metabolic pathways: nucleotides, cholesterol and lipoproteins, integration and adaptation to various nutritional and hormonal states. (2) Blood biochemistry: coagulation and fibrinolysis, regulation of blood pH and acido-basic disorders. (3) Calcium metabolism and its hormonal control. (4) Inflammatory response (5) Metabolism of mineralized tissues (6) Biochemical process of caries (glucidic metabolism of bacteria, salivary function, and fluorine metabolism in dental plaque and mineralized tissues)
Bibliography	Support : Table des matières détaillée, copies des transparents ou des diaporamas PowerPoint utilisés au cours, manuels de biochimie disponibles en bibliothèque.
Other infos	<u>Support</u> : Detailed contents of courses, copies of transparents and PowerPoint slides used during courses, textbooks of biochemistry available in library.
Faculty or entity in charge	MDEN

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Dentistry	DENT1BA	2	WMDS1101 AND WMDS1102 AND WMDS1105	