WCHG2010

2016-2017

Research in Surgery

2.0 credits	15.0 h	1q

Teacher(s) :	Léonard Daniel ; Dehoux Jean-Paul ; Mourad Michel ; Banse Xavier ; Poncelet Alain ; Tombal Bertrand ; Gianello Pierre (coordinator) ;
Language :	Français
Place of the course	Bruxelles Woluwe
Main themes :	The course of experimental Surgery is based on 3 main topics : Axe 1: Establishment of an experimental research protocol in surgery: (i) Development of an experimental hypothesis from a specific hurdle in surgery. (ii) Learning of specific research in scientific literature. (iii) In vivo approach for small animal (in rat and mice) and pre-clinical (primates and pigs) models: Legislation, Ethics, Advantages and Limits of these models. (iv) Study of in vitro testing (cellular contact, biocompatibility,...) to avoid in vivo testing. (v) Approach of statistical analysis for results. Axe 2: Field of research in modern surgery : Cellular and tissular Bioengineering (artificial organs and tissues), surgical robotic, cellular transplantation, xenotransplantation, stem cells, cellular regeneration. Approach of biomaterials used in surgery. Axe 3: Translation: Laboratory to clinical application: Approach of clinical phases required for the utilisation of new therapeutic tools in surgery: Legislation and Ethics.
Aims :	CHG2010 course will be associated to the "Seminar of Transplantation CGH2250" and will investigate the development of cellular therapy and tissue engineering in transplantation. *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".*
Faculty or entity in charge:	MED

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [180] in Medecine	MD2M	2	-	
Master [240] in Medecine	MED2M	2	-	