

## Faculty of Medicine



### CHG2010 Research in surgery

[15h] 2 credits

This course is taught in the 1st semester

**Teacher(s):** Christian Delloye, Pierre Gianello, Bertrand Tombal  
**Language:** French  
**Level:** Second cycle

#### Aims

The aim of the course is to offer training in the area of research in visceral/orthopaedic surgery and anaesthesia.

#### Main themes

In the first part, the choice of animal models and their use, the type of surgery, and in vivo monitoring are considered in the light of current regulations and ethical guidelines. Alternative methods to the use of animals are then evaluated. The second part concerns various specific problems related to modern surgery: transplantation and organ storage, bone allografts, xenografts, artificial organs, bio-engineering, in vitro bone reconstruction, colorectal cancer, liver regeneration and drug interactions are considered. Emphasis is laid upon the experimental study of these different pathologies and on the experimental models which enable study of the pathological mechanisms involved.

#### Content and teaching methods

Methodology of research in modern surgery.

#### Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Evaluation: in-depth reading of a scientific article (understanding of the methodology, models, statistics, etc.).

#### Programmes in which this activity is taught

**MICH3DS** Diplôme d'études spécialisées en microchirurgie générale et reconstructrice  
**SBIM3DS** Diplôme d'études spécialisées en sciences biomédicales

#### Other credits in programs

**MED21** Première année du programme conduisant au grade de docteur (1 credits) en médecine