



INGÉNIERIE TISSULAIRE ET BIOMATÉRIAUX

TISSUE ENGINEERING AND BIOMATERIALS

Lecturers: Emmanuelle LAURENCEAU, Vincent FRIDRICI

| Lecturers : 24.0 | TC : 0.0 | PW : 0.0 | Autonomy : 4.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

The objective of this course is to address the problems of repair and replacement of biological tissues, as well as to give the bases and principles of tissue engineering through different examples (orthopedics, vascular, dental, skin)

Keywords : Material-living interactions, biomaterials, tissue reconstruction, prostheses

Programme

Cells and extracellular matrix
Biocompatibility and biomaterials
Biomaterials in dentistry
Bone tissue engineering and mechanical behavior
Vascular prostheses, orthopedic ...
Skin tissue engineering and tribology

Learning outcomes

- Know the basics of cellular functioning - Explain the principles of tissue engineering - Select a biomaterial for a given application - Evaluate a scientific publication

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méthodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Assessment

Final mark = 100% final written exam