UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Mechanisms and Models of Vascular Diseases

2627-2-F0902D012-F0902D01202

Aims

The student should be able to integrate basic knowledge regarding the field of arteriosclerosis, besides pathogenic mechanisms, therapeutic goals and present research trends in vascular diseases.

Contents

This course aims at contributing to the training of a medical biotechnologist able to integrate basic principles of vascular pathophysiology in order to understand the biological basis, main pathogenic mechanisms and experimental models regarding vascular diseases. Models will be analyzed stressing critical aspects and role in the development of novel therapeutic strategies

Detailed program

Experimental models of vascular injury.

Experimental models of atherosclerosis.

Experimental models of intimal hyperplasia and restenosis.

Experimental models of abdominal aortic aneurysms.

AI and vascular imaging analysis in experimental models.

Prerequisites

Basic knowledge of anatomy, histology, pathology and physiology.

Teaching form

8 two-hour classes delivered in presence.

Textbook and teaching resource

Slides. Scientific papers.

Semester

First semester second year

Assessment method

Multiple choice quiz (30 Multiple choice quizzes. Only one correct response. + 1 for a correct response. 0 for a wrong response. 45 minutes)

Office hours

Set up an appointment by email with the professor

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING