



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Internato in Fisiologia

2122-2-H4101D236

Aims

Contents

- Cell cultures
- Videoimaging techniques for intracellular calcium measurements on viable cells
- Endothelial Permeability Assay
- Transwell© preparation
- Immunofluorescence

Detailed program

- Cultures of cells of various origin, epithelial, endothelial of the cerebral microcirculation, primary neuronal cultures

Preparation techniques for collagenated slides and dishes, sterile preparation techniques, cell culture medium and maintenance buffer preparations

- Videoimaging techniques for measurements of intracellular calcium on viable cells

use of the fluorescence microscope, fundamentals of the MetaFluor software for image analysis and graphic processing, analysis of the obtained results by means of the Origin software

- Endothelial permeability tests

use of fluorescent tracers, calculation of endothelial permeability index (PE)

- Set up of Transwell © systems

Cell growth at confluence, measure of transepithelial electrical resistance (TEER)

Prerequisites

Essential of Human Anatomy, Biology, Physic

Teaching form

Laboratory attendance

Textbook and teaching resource

Scientific papers carried out by the research group

Semester

secondo semestre

Assessment method

Oral examination and attendance

Office hours

By appointment upon written communication to giulio.sancini@unimib.it

