UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Genetic Diseases: From Diagnosis To Therapy

2223-1-F0601Q116

Aims

The course will be multidisciplinary and organized in modules in order to offer an overview of genetic, molecular, biochemical, physiological and pharmacological aspects of a human disease.
The focus of the course will be the study, from different perspectives, of a genetic disease, from diagnosis to treatment.
In particular, at the end of the course the student will have acquired the following skills:

1. knowledge and understanding: complete overview with different integrated approaches of a specific human genetic disease
2. applied knowledge and understanding: apply what has been learned to the study of numerous human genetic diseases
3. self-judgment: capacity to critically evaluate what has been learned
4. oral competences: oral communication of what has been learned using the correct scientific terminology
5. ability to learn: critical learning and understanding of scientific literature on different aspects of a human disease.
   In the academic year 2022-2023 the genetic disease studied will be Cystic Fibrosis.

Contents

The course is organized into lectures, group studies and student presentations on specific aspects of Cystic Fibrosis.

Detailed program

To see specific arguments of each module

Prerequisites

Basic knowledge in genetics, molecular biology, biochemistry, physiology and pharmacology

Teaching form

The course is formally organized as a laboratory (required attendance and 10 hours/1 CFU) because it consists in multidisciplinary activities directing involving students. A visit in excellence research centers focused in the pathology is also planned.

Textbook and teaching resource

Powerpoint presentations will be available on e-learning.

Semester

Second semester

Assessment method

Written exam.
The exam of the course will assess the learning of the material discussed in all the modules.
The written exam will be done in the computer laboratories.

Office hours

upon appointment

Sustainable Development Goals