

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

### **SYLLABUS DEL CORSO**

## Mutagenesi del Gene Malattia

2425-1-F0601Q116-F0601Q117M

#### **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 2024-2025 the genetic disease studied will be Cystic Fibrosis.

#### **Contents**

Site-specific mutagenesis approaches and in silico design of constructs

#### **Detailed program**

