Visiting Professor Program  
Academic year 2022/2023

TEACHING COMMITMENT: 16 hours

COURSE TITLE
GENETIC MODELS OF HUMAN PATHOLOGY

TEACHING PERIOD
2nd term

SCIENTIFIC AREA
Applied biology

LANGUAGE USED TO TEACH
English

COURSE SUMMARY
The general aim of the course is to illustrate the use of animal models for studying human diseases.

LEARNING OBJECTIVES
The course illustrates the main techniques to generate mouse models (classical transgenesis, gene targeting, CRISP/cas9) and explain the use of animal models for studying the pathogenesis of human disease and for testing new therapeutic approaches. Diseases taken into consideration include cardiovascular disorders, diabetes, disorders of iron metabolism and cancer.

TUTORSHIP ACTIVITIES
N/A

LAB ACTIVITIES
N/A
OTHER ACTIVITIES BESIDES THE COURSE
Visiting professor will do a seminar addressed to the Department and will participate to scientific discussions with PhD students and Research fellows.

VISITING PROFESSOR PROFILE
The Visiting Professor candidate for this course should meet the following requirements:
- solid scientific background in the use of animal models for studying physiologic and pathologic conditions, demonstrated by high-impact scientific publications, participation at international meetings and coordination of research projects.
- Teaching experience

CONTACT PERSON AT THE DEPARTMENT
Prof.ssa Emanuela Tolosano  
emanuela.tolosano@unito.it