



## **Visiting Professor Program Academic Year 2023/2024**

**TEACHING COMMITMENT:** 16 hours

**COURSE TITLE**

**Genetics 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 realize a seminar addressed to the Department and will participate to scientific discussions with PhD students and Research fellows.

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## **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;
- scientific interests in the field of energetic metabolism in cardiovascular disease;
- teaching experience.

## **CONTACT REFERENT**

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