2nd term

COURSE TITLE
Innovative experimental models in developmental biology and pathology

Scientific area
Experimental biology

Department of Molecular Biotechnology and Health Sciences

English-taught degree course
Master in Molecular Biotechnology

Language used to teach
English

Teaching Commitment: 16 hours

Course summary
The course illustrates:
1. in vitro and in vivo experimental models of inflammation and inflammatory disorders;
2. how heme/iron modulate inflammasome activation. The main signalling pathways induced by heme and oxidative stress are illustrated. Innovative therapeutic interventions aimed at limiting heme toxicity are discussed.

Learning objectives
The student has to acquire knowledge of the interaction between inflammation and heme metabolism and its impact on human pathology. The student acquire the ability to discuss innovative experimental approaches for limiting heme/iron toxicity.

Other activities besides the course: i.e. seminars and conferences addressed to PhD students and research fellows, dissemination conferences
Professor will have a seminar addressed to PhD students and post-docs.

Visiting Professor Profile
Visiting Professor has a solid teaching experience and coordinates a research group. He/she has a solid background in the field of inflammation, innate immunity and heme metabolism as demonstrated by publications on high impact factor journals, participation at international meetings and coordination of research projects.

Contact person at the Department
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