



UNIVERSITÀ DEGLI STUDI DI TORINO

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TIC12_DIP_BIOTECH

Teaching for International Courses– Visiting Professors Academic year 2017/2018

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: <ol style="list-style-type: none">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.
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