



Courtesy translation of D.R. n. 097/2021

For more details on the selection process, please refer to the Italian version of

D.R. n. 097/2021 available at <http://www.hunimed.eu/it/lavora-con-noi/>

SELECTION PROCEDURE FOR A RESEARCH FELLOWSHIP IN COMPLIANCE WITH ART. 22 OF LAW 240/2010

Humanitas University invites applications for 1 position as Research Fellow in Life Sciences.

Research Program Title	To assess the role of molecules of the complement system in cancer.
Tutor	Prof. Cecilia GARLANDA
Scientific Area	06 - Medical Sciences
Gross amount of the fellowship	25.000 Euro
Duration of the fellowship	12 months with the possibility of renewal
Objectives of the research	The main objectives of this project will be to dissect the functional consequences and mechanisms underlying complement activation in different inflammation-driven cancer models in mice through genetic approaches, to define the therapeutic synergism of complement targeting in immunotherapy, and finally, to assess whether complement activation is a prognostic marker of outcome in cancer patients. In particular, the focus will be on regulatory molecules of the complement system and their role in activation and skewing of tumor infiltrating macrophages, and consequently of tumor infiltrating lymphocytes. Therapeutic approaches based on these regulatory molecules will be developed using gene-targeted mice, blocking antibodies and inhibitors. The relevance in humans will be investigated using transcriptomic analysis and bioinformatic approaches followed by immunohistochemistry and RT-PCR.
Activities to be carried out	<ul style="list-style-type: none"> -Animal handling (Murine models of carcinogenesis) - Blood and tissues sampling from mice -Cellular Biology (purification and culture of cells from blood and tissues, culture of cell lines) -Flow cytometry -Molecular Biology (PCR, Real-time PCR, RNAsequencing)
Work place	PIEVE EMANUELE - Milan
Mandatory requirements	<p>“Laurea Magistrale” awarded in accordance with D.M. 270/2004 In one of the subject listed below:</p> <ul style="list-style-type: none"> - Medicine and Surgery

	<ul style="list-style-type: none"> - Biological Sciences - Biomedical Sciences <p>Or an equivalent university qualification awarded by a foreign university (usually referred to as a Master’s Degree).</p> <p>Scientific and professional CV suitable to the carrying out of the research activities outlined above.</p>
Selection process	<p>Application for admissions must be submitted at the following link: https://pica.cineca.it/humanitas</p> <p>No hard copy of the application must be sent by post.</p> <p>At first access, applicants need to register by clicking on “Register” and completing the requested data.</p> <p>If applicants already have LOGINMIUR credentials, they do not need to register again. They must access with their LOGINMIUR username and password in the relevant field LOGINMIUR.</p> <p>Applicants must enter all data necessary to produce the application and attach the required documents in PDF format.</p>
Selection criteria	<p>Selection criteria are predetermined by the Selection Committee. As part of the selection process, the Committee will evaluate the curriculum, titles and publications presented by the candidate and will consider, in particular:</p> <ul style="list-style-type: none"> - Strong background in the fields of tumor immunology and inflammation. - Substantial experience in mouse handling. - Substantial experience in flow cytometry. - Ability to work independently as well as in a collaborative research team. - At least one publication as first author in a high-quality scientific publication.

FURTHER INFORMATION:

In the event of any conflict between Job Opening text and Italian D.R. text, the Italian version will prevail.

For more details on the selection process please refer to the **D.R. n. 097/2021** (<http://www.hunimed.eu/it/lavora-con-noi/>) or send an inquiry to ufficiodocenti@hunimed.eu or telephone +39 02.8224.5642/5421..