



Courtesy translation of D.R. n. 155/2021

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

D.R. nr. 155/2021 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.

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| Research Program Title | Dissecting the role of Tumor Endothelial Cells in HCC with VETC+ angiogenesis provides potential targets of treatment |
| Tutor | Prof. Luca di Tommaso |
| 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 | <p>Background. Hepatocellular carcinoma (HCC) are highly vascularized tumors and, accordingly, treatments mainly target angiogenesis. Nonetheless, the benefit of these treatments is minimal and achieved in few patients. These frustrating results reveal our gap in understating the biology of tumoral endothelial cells (TEC) in HCC. VETC (Vessel that Encapsulate Tumor Cluster) is peculiar type of vascular phenotype of HCC favouring metastatic dissemination and associated with worse prognosis.</p> <p>Hypothesis. We believe that TEC in VETC+ HCC are used by tumor cells to escape local control and facilitate metastases. Expected Results. A study dissecting the functional status, the molecular profile and the role played in tumor ecosystem by TEC in VETC+ will shed light on HCC angiogenesis and anti-angiogenic treatments.</p> <p>Impact on Cancer. The identification of biomarkers will put us a step closer to the personalized treatment of HCC patients, both in terms of early diagnosis and prediction.</p> |
| Activities to be carried out | The candidate will be in charge of liver tissue management, liver perfusion, cell isolation, functional studies, RNA sequencing (RNA-seq), evaluation of adhesion molecules and chemokines expressed by endothelial cells. Further, he/she will be involved in data analysis. |
| Work place | PIEVE EMANUELE - Milan |
| Mandatory requirements | In order to be considered for the post candidates must hold a PhD or an equivalent university qualification awarded by a foreign university (usually referred as a Master's Degree) on above indicated research |

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| | <p>activities and a scientific and professional CV suitable to the carrying out of the research activities outlines above.</p> |
| <p>Selection process</p> | <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> |
| <p>Selection criteria</p> | <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> <p>The position requires:</p> <ul style="list-style-type: none"> • knowledge of cell and molecular biology techniques. • hands-on experience with multicolour flow-cytometry. • Participations in research groups even of international character. • Excellent writing skills in English is highly recommended. |

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. 155/2021** (<http://www.hunimed.eu/it/lavora-con-noi/>) or send an inquiry to ufficiodocenti@hunimed.eu or telephone +39 02.8224.5642/5421..