



Courtesy translation of D.R. n. 184/2023

For more details on the selection process, please refer to the Italian version of D.R. n. 184/2023 available at <http://www.hunimed.eu/it/lavora-con-noi/>

**SELECTION PROCEDURE FOR RESEARCH FELLOWSHIPS**

Research Program Title	<b>Unraveling novel microenvironment-induced mechanisms in the pathogenesis of pancreatic intraductal papillary mucinous neoplasms (IPMN)</b>
Tutor	prof. Alessandro ZERBI, dr.ssa Sara LOVISA
Scientific Areas	05 – Biological Sciences
Gross amount of the fellowship	20.000,00 Euro
Duration of the fellowship	23
Objectives of the research	Intraductal papillary mucinous neoplasms (IPMNs) are precursor lesions of pancreatic cancer, identifiable as cystic lesions progressing from low-grade to high grade dysplasia, and eventually to invasive carcinoma. IPMNs are characterized by an extensive and progressive fibrotic desmoplasia. Preliminary studies have highlighted a substantial heterogeneity in the microenvironment associated with IPMN progression but have not functionally assessed the contribution of its components along the evolution of the disease. The overall objective of this proposal is to identify novel microenvironment-induced mechanisms in the pathogenesis of IPMNs. We will employ cutting-edge techniques to identify the evolution of the fibrotic landscape in surgically resected human IPMN tissue samples and to identify the functional role exerted by fibroblasts and immune cells. The final goal is to identify microenvironmental signatures that could be used for patient stratification and risk assessment.
Activities to be carried out	<ul style="list-style-type: none"> <li>• The work will include experimental design, experiments execution, data collection, data analysis</li> </ul>

	<p>and interpretation of results. A continuous interaction with the clinical unit of pancreatic surgery is a fundamental aspect of this research project.</p> <ul style="list-style-type: none"> <li>• The candidate will present his/her research to the scientific community at internal and external meetings, will present papers at journal clubs, will attend and present the institutional Pancreas Club.</li> </ul>
Work place	PIEVE EMANUELE - Milan
Mandatory requirements	<ul style="list-style-type: none"> <li>• Master degree (Laurea Specialistica) in biological, biochemical or medical sciences is required.</li> <li>• The application must be accompanied by 2 letters of reference from someone who has recently held the role of scientific or work supervisor of the candidate.</li> <li>• Adequate scientific and professional background to carry out the research activity described in this call.</li> </ul>
Selection process	<p>Application for admissions must be submitted at the following link:</p> <p><a href="https://pica.cineca.it/humanitas">https://pica.cineca.it/humanitas</a></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"> <li>• The candidate must demonstrate enthusiasm and motivation to carry out a translational research project on pancreatic cancer involving the close collaboration between the laboratory and the pancreatic surgery unit of Humanitas.</li> </ul>

	<ul style="list-style-type: none"><li>• Experience in histology techniques (tissue embedding, sectioning, H&amp;E staining, immunohistochemistry and immunofluorescence), cell biology and molecular biology techniques is required.</li><li>• Organizational and planning skills are required as the project involves performing experiments with the collection of surgical samples.</li><li>• The candidate must demonstrate passion for biomedical research, determination to learn, ability to work both independently and in a team and to adapt to competitive environments.</li></ul>
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**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. 184/2023** (<http://www.hunimed.eu/it/lavora-con-noi/>) or send an inquiry to [ufficiodocenti@hunimed.eu](mailto:ufficiodocenti@hunimed.eu) or telephone +39 02.8224.5642/5421.