



Courtesy translation of D.R. n. 109/2022

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

*D.R. n. 109/2022 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**

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| Research Program Title         | <b>Epithelial-to-mesenchymal transition at the crossroad of inflammation and tumorigenesis</b>   |
| Tutor                          | Dr.ssa Sara LOVISA   |
| Scientific Area                | 05 – Biological Sciences   |
| Gross amount of the fellowship | 20.000 Euro  |
| Duration of the fellowship     | 24 months  |
| Objectives of the research     | Inflammatory Bowel Disease (IBD) represents a predisposing factor for the development of colitis-associated cancer (CAC). Epithelial-to-mesenchymal transition (EMT), an embryonic cellular trans-differentiation program relaunched during fibrosis and cancer, has been observed in the inflamed mucosa and surrounding fibrotic areas in IBD biopsies and in animal models of experimental colitis. Whether EMT functionally contributes to the pathogenesis of IBD or promotes the development of precancerous changes in the injured intestinal epithelium that lead to the development of CAC is currently unknown. The overall objective of this proposal is to determine the functional consequences the activation of the EMT program has in terms of epithelial injury response, modulation of inflammation and oncogenic potential. |
| Activities to be carried out   | The candidate will perform: <ul style="list-style-type: none"><li>- experimental design,</li><li>- experiments execution,</li><li>- data collection,</li><li>- data analysis,</li><li>- interpretation of results.</li></ul>   |

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|                        | <ul style="list-style-type: none"> <li>- Presentation of his/her research to the scientific community at internal and external meetings,</li> <li>- Presentation of papers at journal clubs and receipt of career development support.</li> </ul>  |
| Work place             | PIEVE EMANUELE - Milan   |
| Mandatory requirements | In order to be considered for the post candidates must hold a master degree in biological, biochemical or medical sciences.  |
| Selection process      | <p>Application for admissions must be submitted at the following link:</p> <p style="text-align: center;"><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>- enthusiastic and highly motivated junior scientist at the post-Master of Science level to study the interplay between chronic inflammation, fibrosis and cancer in the context of colitis and colitis-associated colon cancer;</li> <li>- passion to solve mysteries in the biomedical research space, and the willingness and ability to learn and adapt to competitive environments;</li> <li>- interest in applying or establishing novel methods and in developing his/her own research ideas.</li> <li>- fluent scientific English (written and spoken) is required.</li> </ul> |



**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. 109/2022** (<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.