



Courtesy translation of D.R. n. 191/2023

For more details on the selection process, please refer to the Italian version of D.R. n. 191 /2023 available at <http://www.hunimed.eu/it/lavora-con-noi/>

**SELECTION PROCEDURE FOR RESEARCH FELLOWSHIP**

Research Program Title	<b>Elucidating the role of the lysosomal impairment in neurodegeneration: metabolic implications and consequences of lysosomal exocytosis on the propagation of neuronal damage</b>
Tutor	Dott.ssa Giulia Maria Emilia Antonietta Soldà
Scientific Area	05 – Biological Sciences
Gross amount of the fellowship	25.000,00 Euro
Duration of the fellowship	12 months
Objectives of the research	The main focuses of the laboratory are to define clinically relevant predictive biomarkers of response to therapy and to discover novel drug targets using a multi-modality approach, incorporating computational predictions, multi-omics profiling with ex vivo drug profiling in patient-derived organoids. The candidates will have the flexibility to develop and lead their own projects within the areas of interest of the laboratory. The candidate will also assist in the supervision of Ph.D. students.
Activities to be carried out	The candidate will have to deal mainly with computational analyses of transcriptomic data (single cell RNA sequencing) and multi-omics data (integration among transcriptomics, proteomics, lipidomics and metabolomics data)
Work place	PIEVE EMANUELE - Milan
Mandatory requirements	<ul style="list-style-type: none"><li>• 'MSc in Biological Sciences, Molecular Biology, Biotechnology, Biomedical Engineering, Informatics, Physics or related disciplines;</li><li>• PhD in Molecular Biology, Genetics, Biostatistics, Bioinformatics, Computational Biology, Data Science or related disciplines</li></ul>

	<ul style="list-style-type: none"> <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:  <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.          At first access, applicants need to register by clicking on “Register” and completing the requested data.          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.          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>• at least a basic knowledge of Biology and Molecular Genetics is required.</li> <li>• Familiarity with Linux-based Operating system, bash scripting, R and/or Python.</li> <li>• Ability to work independently in performing NGS data analyses (QC, alignment, differential gene expression, etc) and single-cell data analysis.</li> <li>• Previous experience with multi-omics and machine learning approaches would be preferred.</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. 191/2023** (<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.