



ANNOUNCEMENT OF AN INTERNATIONAL CALL FOR THE SELECTION OF A RESEARCH TECHNICIAN

Internal code: Research_Technician/Horizon/i3S/0611/2023

A call is opened for the position of a Research Technician, for an unfixed term work contract to carry out technical duties within the project "Glycans as master triggers of health to intestinal inflammation transition", with reference 101093997, funded by Horizon Europe.

Scientific Area: Immunology, Glycobiology, Inflammation; Gastroenterology; Computational Biology

1. Project summary and work plan

Chronic inflammation underlies several diseases. In Inflammatory Bowel Disease, particularly in Crohn's disease (CD), there is growing evidence of a pre-clinical phase characterized by immunological changes preceding symptoms. In this project, we propose a comprehensive and innovative approach aimed at better understanding the transition from health to chronic intestinal inflammation that occurs in CD patients, translating this knowledge into new prediction and disease prevention strategies. We will address how changes in intestinal mucosal glycosylation act as a primary event that disrupts not only local mechanisms (imposing dysregulation of the microbiome-host interaction) but also systemic mechanisms (promoting antibody production), thus unveiling the importance of the intestinal glycocalyx (intestinal mucosal glycocalyx) as an early trigger in the transition from health to inflammation – GLYCANTRIGGER. The long-term goal of this project is to uncover a new checkpoint that regulates the transition to chronic inflammation through a multidisciplinary approach. GLYCANTRIGGER will lead to innovative concepts in the transition from health to chronic intestinal inflammation and new predictive tools translated into new early intervention strategies to prevent chronic intestinal inflammation.

Work Plan: The selected candidate for this position will be involved in tasks that include "multi-omic" data analysis with a focus on the spatial characterization (in tissues) of various markers' expression. Data analysis of imaging mass cytometry and spatial transcriptomics.

More information about the position, the project, and its main objectives and tasks can be found here (<https://www.i3s.up.pt/research-group.php?groupid=122>). For further information, please contact Prof. Salomé Pinho (salomep@ipatimup.pt).

2. Jury

Chairman: Salomé Pinho; Other Members: Vanda Pinto; Letícia Gomes; Substitutes Joana Gaifem.

3. Workplace

i3S - Rua de Alfredo Allen, 208 Porto, research group Immunology, Cancer & GlycoMedicine (<https://www.i3s.up.pt/research-group.php?groupid=122>).



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4. Professional category and monthly remuneration

Research Technician Level 1, 15A, €1.456,17.

5. Obligatory requirements

Mandatory:

Master's degree in Life and Health Sciences related with Computational Biology; Biochemistry; Biology; Mathematics etc, with a minimum grade equal to or higher than 15/20.

Preferred:

Preference is given to candidates with previous experience in computational biology and data analysis. Knowledge of R and Python programming languages. The candidate is expected to have experience in some of the following methods: mass cytometry imaging, flow cytometry, immunohistochemistry, immunofluorescence, microscopy, and relevant bioimaging techniques, cellular and molecular biology. Publications in the field will be an advantage.

6. Evaluation of the applications and publication of the results

Weight of the different curricular valuation criteria

A) Detailed CV (70%) containing the information related to the admission criteria mentioned above.

B) Motivation letter (20%)

- Interest and motivation for the research area and the interdisciplinary and multicultural environment provided by the project (10%)
- Interest and availability for periods of secondments abroad to execute specific tasks at the different labs of the consortium's partners; proficiency in English and written communication (10%)

C) Interview (10%)

If the jury decides to obtain further clarifications and additional information about the curricular elements presented, the best candidates classified on the basis of the curriculum may be called for an interview. In this case, the curricular evaluation will weight 90% for all candidates (Criteria A and Criteria B) and the interview will weight 10%.

The maximum number of candidates to be called for the interview is three.

Candidates are excluded from admission to this call if they do not fill out their application correctly or do not meet the obligatory admission requirements. If in doubt, the jury may ask any candidate additional documents in support of their statements.

False statements made by candidates will be sanctioned in accordance with the law.



The jury will draw up minutes of its meetings, which can be consulted at the candidate's request within 10 working days after the selection results are released.

The jury deliberates by means of a reasoned roll-call vote according to the evaluation criteria, with no abstentions allowed, and draws up a list of excluded and admitted candidates, ordered by respective classification.

All candidates are notified of the selection results by email. After notification, candidates have 10 working days to comment.

In the 90 days following the deadline for submission of applications, the jury's final decision is made. Subsequently the institute Director, who is also responsible for the final decision of hiring, will ratify the decision of the jury.

This call is intended exclusively to fill the indicated position on offer and may be canceled before the final results are ratified by the Director. Accordingly, the position will no longer be available.

7. Submission of applications

Applications must include all the documents proving that they fulfill the admission requirements, namely:

- a) Copy of certificate or diploma;
- b) Detailed Curriculum Vitae;
- c) Motivation letter;
- d) Letters of recommendation (one mandatory).

The submission of applications is digital, in pdf format, from 6 to 17 november 2023, in the following link:

https://dozer.i3s.up.pt/applicationmanagement/#/addapplications/research_tecnica_nhorizoni3s06112023

8. Start and duration of the contract

The anticipated start date of the contract is 01/01/2024 and is subject to budget availability. The maximum duration of the contract will be 12 months, potentially extendable based on the necessity arising from the preliminary research results.

9. Non-discrimination and equal access policy

i3S actively promotes a policy of non-discrimination and equal access. No applicant shall be privileged, benefited, prejudiced, or deprived of any right or exempted from any duty on the basis of ancestry, age, gender, sexual orientation, marital status, family situation, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs, or trade union membership.



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Within the framework of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers, i3S adopts the Open, Transparent and Merit-based (OTM-R) principles for the recruitment of researchers, with the aim of conducting fair and transparent recruitment processes, bringing equal opportunities to all candidates.

10. Applicants with disabilities

Under the terms of Decree-Law 29/2001, of February 3, the candidate with a disability is given preference in equal ranking, which takes precedence over any other legal preference. Candidates must declare under oath their degree of disability, the type of disability and the means of communication/expression to be used in the selection process, under the terms of the aforementioned decree.



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