

**ANNOUNCEMENT OF AN INTERNATIONAL CALL FOR THE SELECTION OF A PhD  
HOLDER RESEARCHER UNDER DECREE-LAW NO. 57/2016**

**Internal code: Researcher/Interreg/Ipatimup/2309/2022**

A call is opened for the position of a PhD holder, for an unfixed term work contract to carry out research duties within the project "Analysis and correlation between epigenetics and brain activity to assess the risk of chronic and episodic migraine in women", with reference 0702\_MIGRAINEE\_2\_E, funded by Interreg.

**Scientific Area:** Biological Sciences

**1. Project summary and work plan**

Migraine is a neurological condition of great socioeconomic impact due to its prevalence (12% in Portugal and Spain) and disabling nature. The social challenge to improve the quality of life of these patients is extremely important, especially for women, the population most affected by migraine (75% of cases).

Although several studies focus on the genetics of migraine, investigations into epigenetic factors or how migraine affects brain activity are scarce. The general objective of this project is to generate new synergies towards an interdisciplinary and transnational cooperation network to analyze epigenetic and neuronal factors in order to identify migraine biomarkers in women.

Biological material was collected from women with migraine and healthy controls from Northern Portugal and Castile and Leon, as well as clinical data and measures of brain activity. The genetic material were sequenced and regions with different proportions of methylation in the samples will be analyzed. Brain activity measurements were obtained through electroencephalography. Subsequently, neural dynamics will be characterized using advanced signal processing methods.

The ultimate goal of this project is to correlate epigenomic and brain activity data in order to develop a tool to aid in the diagnosis of migraine.

**2. Applicable Portuguese legislation**

Decree no. 57/2016, of August 29 - Legal Regime of Scientific Employment RJEC - in its current wording

Portuguese Labor Code, in its current wording

**3. Jury**

Chairman: Nadia Pinto; Other Members: Sandra Martins, Carolina Lemos.

**4. Workplace**

Ipatimup/i3S - Rua de Alfredo Allen, 208 Porto, research group Population Genetics and Evolution.

**5. Professional category and monthly remuneration**

Junior Researcher

€2.153,94, corresponding to index 33 of the Tabela Remuneratória Única, whose application is intended for PhD holders with reduced post-doctoral experience or without a post-doctoral scientific curriculum.

#### **6. Obligatory requirements for admission**

1. PhD degree in Life and Health Sciences. If a foreign higher education institution has conferred the degree, it must comply with the provisions of Decree-Law 66/2018, of 16<sup>th</sup> August, and any formalities established therein must be fulfilled by the date of signing the contract.
2. Experience in bioinformatics and statistical data analysis;
3. Advanced experience in Next Generation Sequencing techniques (WGS; WES; GWAS);
4. Experience in developing methodologies for correlation between genomic/epigenomic and electroencephalographic data;
5. First/last authorship of at least 3 articles published in Q1 journal;
6. Fluency in spoken and written English.

#### **7. Evaluation of the applications and publication of the results**

Under the terms of article 5 of RJEC, the evaluation of the scientific and curricular background of the candidates should focus on the activity of the last five years that the candidate considers most relevant. The five-year period may be extended by the jury, at the candidates request, when justified by suspension of scientific activity for socially protected reasons, namely for reasons of parental leave, prolonged serious illness, and other situations of unavailability for work that are legally protected.

#### **Weight of the different curricular valuation criteria:**

##### a) Detailed CV

- a.1. List of scientific publications and their impact factor 60%
- a.2. Research experience (conceptual and technical) relevant to the area they are applying for, namely development of methodologies to analyze the correlation between genomic/epigenomic and electroencephalographic data. 40%

If the jury decides to obtain further clarifications and additional information about the curricular elements presented, the two candidates best ranked by criteria a.1. and a.2. may be called for an interview. In this case, the curricular evaluation will weight 90% for all candidates (a.1.) 54% e a.2.) 36%) and the interview will weight 10%.

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 take minutes of their meetings, which may be consulted by candidates upon request.

The jury deliberates by means of a justified nominal vote according to the evaluation criteria, with no abstentions allowed, and draws up a list of excluded and admitted candidates, ranked by the respective classification after the curricular evaluation. I3S publishes the list on the i3S website, [www.i3S.up.pt](http://www.i3S.up.pt) and candidates will be notified by e-mail.

After publication of the ranking list, if their wish to do so, the candidates have 10 working days to submit comments.

In the 90 days following the deadline for submission of applications, the jury's final decision is communicated to the candidates and made public. 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 ranking list of candidates is ratified by the Director. Accordingly the position will no longer be available.

#### **8. 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) Letter of motivation describing the candidate's skills that attest to experience in research (conceptual and technical) relevant to the position.

The submission of applications is digital, in pdf format, from September 23<sup>th</sup> to October 7<sup>th</sup>, in the following link:

<https://dozer.i3s.up.pt/applicationmanagement/#/addapplications/ResearcherInterregIpatimup23092022>

#### **9. Start and duration of the contract**

The anticipated start date of the contract is 01/11/2022 and is subject to budget availability. The maximum duration of the contract will be 2 months.

#### **10. Non-discrimination and equal access policy**

Ipatimup 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.

Within the framework of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers, Ipatimup 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.

#### **11. 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.