

## JUNIOR RESEARCHER VACANCY

**Internal Reference:** JUNIOR\_RESEARCHER\_II/ERACHAIRNCBIO/IBMC/2311/2023

The IBMC opens an international call for the recruitment of a Junior Researcher (post-doctoral) working in the area of synaptic transmission (cell biology), under a work contract with non-fixed term under the Portuguese labor Law. Candidates should meet the criteria of "Established Researchers (R2)" established in the European Framework for Research Careers. The appointment will be made as part of the NCBIO project: UNLOCKING EXCELLENCE IN RESEARCH AND INNOVATION IN NEUROBIOLOGY AND NEUROLOGICAL DISORDERS AT IBMC/i3S, funded by the European Commission, under the topic WIDESPREAD-06-2020 - ERA Chairs.

### 1. Project summary:

Astrocytes are the major non-neuronal cell type in the mammalian brain and are known to interact with neurons and control synaptic transmission – a concept known as the ‘tripartite synapse’. Work from our lab (Batiuk et al., Nat Commun, 2020; Bayraktar et al., Nat Neurosci, 2020) suggests that excitatory and inhibitory tripartite synapse formation and function are differentially regulated. Understanding differences in synapse assembly and function are crucial to our understanding of information flow in the CNS and the causes of human diseases associated with hyperexcitability, such as epilepsy, schizophrenia and fragile X.

We are looking to recruit a junior researcher to our team to study the molecular mechanisms of inhibitory synapse formation and function. Work will be conducted at i3S, one of Portugal’s top science institutes, in the ERA Chair group led by Dr. Matthew Holt.

### 2. Applicable legislation:

- Decree no. 57/2016, amended by Law 57/2017, pertaining to the hiring of candidates with doctoral degrees in the areas of science and technology.
- Labor Law No. 7/2009.
- Regulatory Decree 11-A/2017.

### 3. The selection jury has the following composition:

Chairman: Matthew Holt

Vowels: Maria Pinto

Vowels: Joana Faria

Substitute vowels: Diogo Castro

**4. Workplace:** IBMC/i3S, Rua Alfredo Allen, 208, Porto, Portugal.

**5. Salary:** The position is a Junior Researcher and carries a monthly wage of 2.228,11 Euros, in line with national guidelines.

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**6. General requirements for the position are:**

- Highly motivated with a recent Ph.D. degree in molecular cell biology and a solid track record of achievements (1<sup>st</sup> author publications, conference talks, posters etc). Previous experience in the area of neuroscience would be an advantage.
- Skilled in advanced molecular biology and protein biochemistry techniques, including gene design and cloning, RNA isolation, RT-qPCR, Western blot and data analysis tools. Prior experience with CRISPR-Cas9 systems is essential.
- Experienced in mouse handling and surgeries (including injections and perfusion), tissue sectioning (vibratome and/or cryostat) and immunohistochemistry.
- Knowledge of fluorescence microscopy (including confocal).
- Ability to work independently, but also capable of collaborative work.
- Fluent in written and spoken English.
- Experience in tissue culture techniques: establishment and maintenance of cell lines, preparation of primary cortical neuron and astrocyte cultures from mice, genetic manipulation (transfection/transduction) is desirable, but not essential.

**7. The selection will be made through evaluation of the following criteria:**

- Track record of scientific achievements (50%).
- Experience with relevant scientific techniques (30%).
- Letter of motivation (10%).

Candidates achieving a score of 80% or more on initial review will be short-listed for interview (10%) and/or a seminar.

8. The final classification system for candidates is expressed on a scale from 0 to 100. Each member of the jury will rank candidates based on the selection criteria and a consensus list will be drawn up of candidate rankings.

Minutes of the proceedings, including the individual rankings of jury members, will be recorded and made available to candidates when requested.

9. The final decision of the jury will be ratified by the managing director of the institute, prior to final appointment.

**10. Application:**

Applications should be written in English and include:

- a) PhD certification.
- b) Motivation letter.
- c) Full CV (including names and contact details for two scientific referees).
- d) One first author paper with brief summary of its significance – and relevance to the advertised position.

INSTITUTO  
DE INVESTIGAÇÃO  
E INOVAÇÃO  
EM SAÚDE  
UNIVERSIDADE  
DO PORTO

Rua Alfredo Allen, 208  
4200-135 Porto  
Portugal  
+351 220 408 800  
info@i3s.up.pt  
[www.i3s.up.pt](http://www.i3s.up.pt)



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All documents should be provided in PDF format using the following web link:  
[https://dozer.i3s.up.pt/applicationmanagement/#/addapplications/junior\\_researcher\\_iieracha\\_irncbioibmc23112023](https://dozer.i3s.up.pt/applicationmanagement/#/addapplications/junior_researcher_iieracha_irncbioibmc23112023)

Applications will be accepted from 24<sup>th</sup> November 2023 to 31<sup>st</sup> January 2024.

Candidates who fail to submit all the required documents will be excluded from the process. In case of doubt, the jury reserves the right to request supporting documents, relevant to the application, from the candidate in question.

**11. The list of candidates and their final rankings** will be published on the institute website ([www.ibmc.up.pt](http://www.ibmc.up.pt)) under 'Open Positions'. Candidates will also be notified of the outcome by email.

**12. After publication of the results**, candidates have 10 working days to respond. The final rankings will be published 90 days after expiry of the application deadline on the institute website ([www.ibmc.up.pt](http://www.ibmc.up.pt)) under 'Open Positions'.

The expected start date of the contract is **1<sup>st</sup> March, 2024**.

**13.** This call is specific to the advertised vacancy and can be terminated at any time before approval of the final candidate list.

**14. Non-discrimination and equal access policy:** Candidates will be assessed using an (OTM-R) open, transparent and merit-based recruitment process, based on the guidelines laid down in the European Charter for Researchers. The recruitment process will adhere to current data protection legislation.

The IBMC/i3S actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, benefited, harmed or deprived of any right or exempted from any duty resulting from ancestry, age, gender, sexual orientation, marital status, family situation, economic status, education, origin or social status, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic or race origin, territory of origin, language, religion, political or ideological beliefs and union membership.

**15.** In the event that two candidates of equal scientific merit apply, applicants with proven disability will be given preference (D.L. nº 29/2001). To be considered, disabilities (including type and respective degree of impairment) should be declared upon initial application.