Pedro Ferreira, PhD

Portugal
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Profiles

LinkedIn ORCID Github

Education

PhD in Neuroscience
University of Coimbra (2019-2024)

Dissertation: "Unraveling the role of IL-4 in the maturation and function of the cerebellar circuit: implications for neuropsychiatric diseases"

MSc in Cellular and Molecular Biology
University of Coimbra (2017-2019)

Thesis: "Microglia-mediated remodelling of the Cerebellar Circuit"

BSc in Biochemistry
Univeristy of Coimbra (2014-2017)

Certifications

EU Animal Experimentation (Rodents)
DGAV (Portugal) | FELASA

Driving Licence (Portugal)

Awards

Top 10 Cited Article (2022-23)
Journal of Neurochemistry

PhD Scholarship (2019-23)
Foundation for Science and Technology Portugal

Top 5% MSc Students (2017-19)
University of Coimbra

Languages

Portuguese (Native)

English

Spanish

Summary

Passionate about science and how it can drive change. PhD in Neuroscience with rigorous training in scientific research and writing. Detail-oriented and capable of managing mutidisciplinary teams. Extemely fast learner and proactive. Experienced in multi-language programming as well as data analysis and visualization in the context of life sciences, having worked with complex neuronal datasets. Interested in shifting from academia to the Healthcare sector.

Experience

Researcher @ Center for Neuroscience and Cell Biology
Coimbra, Portugal (2015-2024)

- Authored 1 research article and co-authored 3 research articles and 2 review articles in Q1 Journals (3 more in preparation). H-Index - 5 | >150 citations.
- Presented my research in 4 scientific conferences and co-authored >15 conference posters
- Tutored >10 BSc and MSc students
- Developed several scripts for data collection and analysis, as well as workflow automation
- Scientifc illustration for articles, presentations and science communication in different projects
- Participated in SciComm events and designed infographics, panflets and other media for promoting scientific work

Representative Work

Research Article - Guedes and Ferreira et al. (2023). IL-4 shapes microglia-dependent pruning of the cerebellum during postnatal development. Neuron, 111(21), 3435-3449.e8. DOI: 10.1016/j.neuron.2023.09.031

Review Article - Guedes and Ferreira et al. (2022). Microglia-dependent remodeling of neuronal circuits. Journal of Neurochemistry, 163(2), 74–93. DOI: 10.1111/jnc.15689

Skills

Science
Scientific Writing | Manuscript Editing and Formatting | Literature Review | Study Design | Cross-Discipline Collaboration | Project Management | Dataset Analysis and Statistics | Data Management

Wet Lab
Immunostaining | Histology | Microscopy| Electrophysiology | Optogenetics | Animal Behavior | Genetics

Programming
Proficient - Python (+IronPython, Jython) | Intermediate - MATLAB, SQL | Entry level - R, .NET, C#, C+

Software
Graphpad Prism | KNIME | Office Suite | Adobe Suite (Illustrator, Photoshop, Lightroom) | Endnote/Mendeley/Zotero | BonsaiRx

Others
Extensive Tech Literacy | UI Design (Windows Forms, Tkinter) | Cybersecurity Best Practices | GPIO Interfacing | Basic Electronics

Other Projects

Schwarzkopf Foundation - Understanding Europe (2017-18)
Founding member of the Portuguese branch of the Understanding Europe Inititative of the Schwarzkopf Foundation

Orfeon Académico de Coimbra
Treasurer (2015-16) | Supervisory Board Member (2017-21) | President (2023)