



Isa Fernandes Mota

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Technical Expertise

- > Cell culture
- > Magnetic Activated Cell Sorting (MACS)
- > Immunofluorescence
- > Microscopy
- > Metabolic analysis

Computer skills

- > Adobe Illustrator
- > Adobe Photoshop
- > GraphPad Software
- > Agilent Seahorse Wave software
- > ZEN microscopy software
- > ImageJ

Languages

- > Portuguese ●●●●●
- > English ●●●●●
- > Spanish ●●●○○

Education

- 2020-2023 MSc in Biomedical Research at University of Lisbon/ Instituto de Medicina Molecular João Lobo Antunes (iMM)
- 2017-2020 BSc in Biochemistry at University of Coimbra

Work experience

- 01/2025-Present
Lab Technician at Leonor Saúde's Lab, GIMM
How vascular and perivascular populations of the blood brain and spinal cord barrier can influence repair after Spinal Cord Injury.
- 06/2024-11/2024
Research Fellow at Margarida Serra's Lab, iBet
iPSCs differentiation into cardiac fibroblasts in bioreactors within Brave European project.
R&D industry services for Takeda Pharmaceuticals.
- 10/2023-04/2024
Research Fellow at Rui Oliveiras' Lab, IGC
Analysis of brain activation networks in artificially selected social zebrafish, under the orientation of Dr. Rui Oliveira and Dr. Magda Teles.
- 01/2023-08/2023
Science Communicator at Ciência Viva - Agência Nacional para a Cultura Científica e Tecnológica
Promote pedagogical activities for the lay public in the scope of various scientific fields.
- 09/2021-05/2023
Master's Project at Vanessa Morais and Ana Sebatião's Labs, iMM
Characterization of the metabolic profile of differentiated cells derived from Subventricular Zone Neural Stem Cells, under the orientation of Dr. Vanessa Morais and Dr. Sara Xapelli.
- 02/2020-06/2020
Bachelor's Project at CIBIT, ICNAS
Behavior tests with sensory stimulation and determination of the estrous cycle phase in mice, under the orientation of Dr. João Martins, at Miguel Castelo-Branco's Lab.

Publications

- > Soares, R., Lourenço, D. M., **Mota, I. F.**, et al. (2024). Lineage-specific changes in mitochondrial properties during neural stem cell differentiation. *Life Science Alliance*, 7(7).
- > Miranda, C.F., Pessoa, A., Batista, M., **Mota, I. F.** et al. (2021) ROS Signals Induced by Mushrooms Phenolic Compounds Produced from Lignocellulosic Biomass. *Waste and Biomass Valorization*, 12, 3027-3033.

Oral Presentations

- > Rita Soares, **Isa F. Mota**, et al., Characterizing the role of Mitochondrial Dynamics in postnatal Neural Stem Cell fate. Presented at: ISN-APSN Meeting; August 2022; Honolulu, USA
- > Rita Soares, **Isa F. Mota**, et al., The relevance of Mitochondrial Dynamics in Neural Stem Cell Fate Presented at: EpiEpiNet 2nd Annual Meeting; January 2022; Virtual Meeting

Posters

- > **Isa F. Mota**, Rita Soares, Ana M. Sebastião, Sara Xapelli, Vanessa A. Morais, Characterization of the metabolic profile of differentiated cells derived from Subventricular Zone Neural Stem Cells. Presented at: EpiEpiNet 3rd Annual Meeting; September 2022; Lisbon, Portugal
- > Rita Soares, **Isa F. Mota**, Diogo M. Lourenço, Ana M. Sebastião, Sara Xapelli, Vanessa A. Morais, Modulation of postnatal neural stem cell fate: role of Mitochondrial Dynamics and Bioenergetics. Presented at: 4th ISN-JNC Flagship school “Brain Metabolism in Health and Disease”; September 2022; Schmerlenbach, Germany
- > Rita Soares, **Isa F. Mota**, Diogo M. Lourenço, Ana M. Sebastião, Sara Xapelli, Vanessa A. Morais, Disentangling the role of Mitochondrial Dynamics in the context of adult neural stem cell differentiation. Presented at: EMBO course: Neural Stem Cells: From basic understanding to translational applications; June 2022; Kyllini, Greece
- > Rita Soares, **Isa F. Mota**, Diogo M. Lourenço, Ana M. Sebastião, Sara Xapelli, Vanessa A. Morais, The relevance of Mitochondrial Dynamics in Neural Stem Cell Fate Presented at: EpiEpiNet 2nd Annual Meeting; January 2022; Virtual Meeting

Awards & Scholarships

- > Instituto de Medicina Molecular João Lobo Antunes (iMM) scholarship for enrolling in iMM’s Master’s program; 2020-2022
- > Travel Grant from EpiEpiNet twinning project; 2022
- > Academic Merit Board of University of Coimbra 2019/2020
- > 5th place at I Nacional University Olympiads of Biochemistry; 2020; Portugal

Experience abroad

- > Summer School EpiEpiNet: Optogenetics, Chemogenetics, CRISPR and epilepsy models; June 2022; Lund, Sweden

Science Communication

11/2022	Speaker in Science Communication round table, at COLife Postdoc day 2022
2022-Present	Member of “Fala-me Neuro” science communication project
2021-2022	Member of Instituto de Medicina Molecular João Lobo Antunes (iMM) Master Student Committee
2019-2022	Member of “miniBIOQS – Associação Ciência para Todos” association

Courses, Certifications, and Workshops

- > ESN YSSC Virtual Workshop “The First Publication”; May 2022
- > CONGENTO Course on Laboratory Animal Science (Function A) for mouse/rat and zebrafish; July 2021
- > FLxFlow Course: Principles and Applications of Flow Cytometry, May 2021
- > “Data Science: R Basics” by HarvardX; January 2020
- > “BrainX: Cellular Mechanisms of Brain Function” by EPFLx; September 2019
- > “How to write great papers and get published” workshop by Elsevier’s Senior Publisher Anthony Newman and Sarah Rodrigues; October 2018