

■ isafernandesmota99@gmail.com
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Technical Expertise

- > Mouse handling
- > Spinal cord injury surgery
- > qPCR
- > Western Blot
- > 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
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Isa Fernandes Mota

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 Researcher at Isaura Martins' Lab. CIIS

Exploring the role of pericytes as metabolic regulators after spinal cord

injury.

01/2025-Present Visiting Researcher at Leonor Saúde's Lab, GIMM

Exploring the role of pericytes as metabolic regulators after spinal cord

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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.

09/2019-12/2019 Trainee at Laboratory of Biophysics, University of Coimbra

Preparation of hippocampus slices and handling of fluorescence

microscopy, under the orientation of Dr. Emília Ferreira.

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.

Posters

- I. F. Mota, D. Neves-Silva, M. Pires, L. Saúde, I. Martins, Unraveling the Role of Pericytic IDOL in Lipid dysfunction after Spinal Cord Injury. Presented at: Azores International Meeting on Spinal Cord Injury; October 2025; Azores, Portugal
- I. F. Mota, R. Soares, A. M. Sebastião, S. Xapelli, V. 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
- R. Soares, I. F. Mota, D. M. Lourenço, A. M. Sebastião, S. Xapelli, V. 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
- R. Soares, I. F. Mota, D. M. Lourenço, A. M. Sebastião, S. Xapelli, V. 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
- R. Soares, I. F. Mota, D. M. Lourenço, A. M. Sebastião, S. Xapelli, V. A. Morais, The relevance of Mitochondrial Dynamics in Neural Stem Cell Fate Presented at: EpiEpiNet 2nd Annual Meeting; January 2022; Virtual Meeting

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

Awards & Scholarships

- > Travel Grant to attend EpiEpiNet Summer School in Lund, Sweden; 2022
- > Instituto de Medicina Molecular João Lobo Antunes (iMM) scholarship for iMM's Master's program (tuition fees covered); 2020-2022

Science Communication

O8/2024 Speaker at "Neuroarte: Tintas e Tintos" workshop

O1/2023 Speaker at 1st Conferência de Professores CompreenderSAÚDE

11/2022 Speaker at Science Communication round table, at COLife Postdoc day 2022

Courses

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

Association/Committee member

2022-Present	Member of "Fala-me Neuro" Science Communication Association
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

Teaching

2024 Physics and chemistry high school teacher, Escola Stuart Carvalhais, Portugal