



Dalila Neves-Silva

POSTDOC RESEARCHER

WORK EXPERIENCE

VISITING RESEARCHER

IMARTINS LAB | CATÓLICA MEDICAL SCHOOL - CENTER FOR INTERDISCIPLINARY RESEARCH IN HEALTH | 10.2024 - PRESENT

POSTDOC RESEARCHER

LSAUDE LAB | GULBENKIAN INSTITUTE FOR MOLECULAR MEDICINE | 10.2024 - PRESENT

Wings for Life Research Grant - "MYLIP_PRINT: exploiting the role of MYLIP positive pericytes".

POSTDOC RESEARCHER

NEVES-VICTOR LAB | INSTITUTO DE MEDICINA MOLECULAR | 04.2024 - 09.2024

Fundação "La Caixa" - "Immune regulation of skeletal muscle metabolic health and exercise response in aging" (HR23-00881 - MuscleAgeMetab), LCF/PR/HR23/52430025.

PHD THESIS - NEUROSCIENCE

LEONOR SAÚDE LAB | INSTITUTO DE MEDICINA MOLECULAR | 01.2019 - 07.2024
SFRH/BD/138636/2018; COVID/BD/153251/2023; IMM/BI/10-2023

"The contribution of the perivascular and extracellular matrix components to the spinal cord regenerative outcome".

TECHNICIAN | LAB MANAGER

CFRANCO LAB | INSTITUTO DE MEDICINA MOLECULAR | 11.2017 - 12.2018
IMM/BTI/56-2017

"AXIAL.EC - PRINCIPLES OF AXIAL POLARITY-DRIVEN VASCULAR PATTERNING" (ERC-2015-STG-GA 679368).

RESEARCH TRAINEE

GODINHO FERREIRA LAB | INSTITUTO GULBENKIAN DE CIÊNCIA | 02.2017 - 04.2017

"Assessing non-cell-autonomous effects in tissues homeostasis."

MESTER THESIS

LSAÚDE LAB | INSTITUTO DE MEDICINA MOLECULAR | 09.2015 - 03.2017

"The Intermediate Mesoderm, a new player in the establishment of organ laterality?"

CONTACT INFORMATION

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EDUCATION HISTORY

• Doctor in Neuroscience

Faculdade de Medicina, Universidade de Lisboa, Lisboa, Portugal | 2019-2024

• Master in Evolution and Developmental Biology

Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal | 2014-2017

• Bachelor in Genetics and Molecular Biology

Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal | 2010-2014

AREAS OF EXPERTISE

- | | |
|--------------------------|-------------------|
| - Molecular Biology | - Animal Behavior |
| - Microbiology | - Lab Management |
| - Genetics | - Microscopy |
| - Developmental Biology | - Flow Cytometry |
| - Neuroscience | - Zebrafish |
| - Immunohistochemistry | - Mice |
| - Animal Experimentation | |

PUBLICATIONS

"Mouse Spinal Cord Vascular Transcriptome Analysis Identifies CD9 and MYLIP as Injury-Induced Players" - 1st author

International Journal of Molecular Sciences, 2023, [https://doi: 10.3390/ijms24076433](https://doi.org/10.3390/ijms24076433)

"Using the MouseWalker to Quantify Locomotor Dysfunction in a Mouse Model of Spinal Cord Injury."

Journal of Visualized Experiments, 2023, DOI: 10.3791/65207-v, Co-author

"Targeting senescent cells improves functional recovery after spinal cord injury"

Cell Reports, 2021, DOI: 10.1016/j.celrep.2021.109334, Co-author

INTELLECTUAL PROPERTY

"Provisional Patent Application PT 118583 (Pending): "Treatment of Spinal Injury".

Inventors: Martins, I.; Saúde, L. and Neves-Silva, D.

Applicants: IMM JLA

PROJECTS

MYLIP_PRINT: EXPLOITING THE ROLE OF MYLIP POSITIVE PERICYTES |

Leonor Saúde Lab - GIMM | Isaura Martins Lab - CIIS |2024 - Present

Researcher. **Coordinator:** Isaura Martins. **Funding:** Wings for Life Research Grant -

IMMUNE REGULATION OF SKELETAL MUSCLE METABOLIC HEALTH AND EXERCISE RESPONSE IN AGING | HR23-00881

Neves-Victor Lab - IMM | 2024 - 2024

Researcher. **Coordinator:** Pedro Sousa Victor. **Funding:** Caixa d'Estalvis i Pensions de Barcelona.

ENDOTHELIAL CD9 AS A NEW ANTI-INFLAMMATORY TARGET TO PROMOTE SPINAL REPAIR | 2022.05669.PTDC

Leonor Saúde Lab - IMM | 2023 - 2024

Researcher. **Coordinator:** Isaura Martins. **Funding:** Fundação para a Ciência e a Tecnologia.

SENESCENT CELLS AND THEIR SECRETORY PHENOTYPE: NOVEL TARGETS FOR SPINAL CORD REPAIR | MC-36-2020

Leonor Saúde Lab - IMM | 2020 - 2023

Researcher. **Coordinator:** Leonor Saúde. **Funding:** Santa Casa da Misericórdia de Lisboa.

TARGETING INDUCED-SENESCENT CELLS: A NOVEL APPROACH TO PROMOTE SPINAL CORD REGENERATION IN MAMMALS | HR18-00187

Leonor Saúde Lab - IMM | 2020 - 2023

Researcher. **Coordinator:** Leonor Saúde. **Funding:** Caixa d'Estalvis i Pensions de Barcelona.

"AXIAL.EC - PRINCIPLES OF AXIAL POLARITY-DRIVEN VASCULAR PATTERNING" | ERC-2015-STG-GA 679368

Claudio Franco Lab - IMM | 2017 - 2018

Researcher. **Coordinator:** Claudio Franco. **Funding:** European Research Council.

ORAL PRESENTATIONS

"Is the zebrafish a glitch in the matrix?"

- IMM Neuroscience Seminar. 11.2023

"Using the regenerative potential of zebrafish extracellular matrix to promote spinal cord repair in mammals"

- XV CAML - V NeurULisboa PhD Students Meeting, Lisboa, Portugal. 05.2022.
- 3rd NMS Symposium on Chronic Diseases and Translational Science, Lisboa, Portugal. 10.2021.
- XIV CAML - IV NeurULisboa PhD Students Virtual Meeting - Lisboa, Portugal. 05.2021.
- IMM Pizza Seminar - Lisboa, Portugal. 09.2021.
- XIII Annual CAML PhD Students Meeting - Lisboa, Portugal. 05.2019.

POSTER PRESENTATIONS

"The right time to "scar""

- 4th International Meeting of the Portuguese research network on Spinal Cord Injury, Lisboa, Portugal. 06.2023.
- 3rd International Meeting of the Portuguese research network on Spinal Cord Injury, Porto, Portugal. 06.2023.
- XVI CAML - VI NeurULisboa PhD Students Meeting, Lisboa, Portugal. 05.2023.

"Mimicking the Zebrafish Extracellular Matrix Profile in Mammals to Promote Spinal Cord Repair."

- 2nd International Meeting of the Portuguese research network on Spinal Cord Injury - Porto, Portugal. 06.2022.
- Gordon Research Seminar and Conference on Central Nervous System Injury and Repair - Oxnard, California, USA. 03.2022.
- XVII Meeting of the Portuguese Society for Neuroscience (SPN2021) - Coimbra, Portugal. 03.2021.

"The role of Cadherin 11 in the establishment of organ laterality in zebrafish."

- 10th-year anniversary BED master symposium. Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal - 12.2017.

"The Intermediate Mesoderm, a new player in the establishment of organ laterality?"

- International Curie/UPMC Developmental Biology Course Seminars (UPMC) - Paris, France. 10.2015.

AWARDS DISTINCTIONS

2021 - RISING STAR AWARD at 3rd NMS Symposium on Chronic Diseases and Translational Science, Lisboa, Portugal

2021 - Pfizer Basic Investigation Award - Leonor Saúde and Team, Lisboa, Portugal

2018 - FCT PhD fellowship (SFRH/BD/138636/2018)

2017 - Research Fellowship (IMM/BTI/56-2017)

2016 - Selected Photo for the exhibition ArtDEVO "the hidden beauty of the embryo" (<http://www.museus.ulisboa.pt/pt-pt/art-devo>)

SCIENCE COMMUNICATION AND OUTREACH

Organizing member

- **DiA meeting “Inspiring Embryonic Minds” for Portuguese Society of Developmental Biology (SPBD) in Faculdade de Ciências da Universidade de Lisboa** - Event date: 10.11.2023
- **Projecto “Fala-me Neuro”** - from 2022 to 2024
- **“Science Careers” sessions (CAML PhD committees)** - from 2021 to 2024
- **“Pizza Seminar” sessions (CAML PhD committees)** - from 2020 to 2021
- **Development in Action (DiA) meeting (SPBD)** - from 2020 to 2024
- **Noite Europeia dos Investigadores with SPBD** - Event date: 09.2016, 09.2017, 09.2018, 09.2018, 09.2019 and 09.2022
- **2nd Meeting of SPBD with Spanish Society of Developmental Biology (SEBD) and Portuguese Society of Stem Cells and Cell Therapies (SPCE-TC)** - Event date: 10.2013

Social Media Coordenator

- **SPBD Social Media platforms (Facebook and Instagram)** - from 2020 to 2024
- **LSaúde Lab Social Media platform (Instagram)** - from 2019 to 2024

Teaching

- **Left-right asymmetry - Developmental Biology course for Biology Bachelor from Faculdade de Ciências, Universidade de Lisboa (FCUL)** - 06.2018
- **Zebrafish as a model organism - 3 practical classes each year - Developmental Biology course for Biology Bachelor from FCUL** - 04.2020 (online), 05.2021, 05.2022 and 05.2023
- **Biomedical Science with zebrafish (Masterclass) - 2 sessions each year - AIMS meeting - Faculdade de Medicina, Universidade de Lisboa** - 03.2021, 11.2021, 11.2022, 11.2023

MENTORING AND SUPERVISION

• **Pedro Gomes - Supervisor**

“Unveiling the function of type I Collagen in spinal cord regeneration” - Master Thesis (Instituto de Medicina Molecular) - since 09.2024 - Present

• **Gonçalo Mendes - Co-Supervisor**

“Unveiling the function of type I Collagen in spinal cord regeneration” - Master Thesis (Instituto de Medicina Molecular) - since 09.2023 - Present

• **Teresa Chaves - Mentoring**

“How are the *col1a2*-expressing cells disappearing from the injury site?” - Bachelor Thesis (Faculdade Ciências e Tecnologia, Universidade Nova de Lisboa) - 02.2023 to 07.2023

• **Margarida Diniz - Mentoring**

“The right time to scar” - Laboratory rotation from Master’s in Biomedical Research from Nova Medical School (Universidade Nova de Lisboa) - 04.2023 to 07.2023

José Maria Leitão - Mentoring

- “The role of Cadherin11 in the establishment of laterality in the zebrafish” – Master Thesis (FCUL) - 09.2016 to 03.2018