



# JOÃO MARTINS

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**CURRENT ROLE** | Junior Research Fellow at the Ultrafast Bio- and Nanophotonics, at the International Iberian Nanotechnology Laboratory (INL), Braga

**PROFESSIONAL EXPERIENCE** | **December 2018- December 2019** – Technician in the **ImmunoSurgery/Immunotherapy Unit** (PI: Markus Maeurer) at the Champalimaud Foundation, During this year my work was focused on cell culture, mainly T-cell Expansion for immunotherapy, and flow cytometry. I also had a small role in lab managing and helped integrate several microscopy techniques in the laboratory including lightsheet microscopy and 3D holotomography.

**INTERNSHIPS AND COURSES** | **November 2017**- Course on Laboratory Animal Sciences in Mouse and Zebrafish at Champalimaud Foundation. I successfully finished the course and I am certified by the “Direcção-Geral de Alimentação e Veterinária” to handle both Zebrafish and rodents.  
**July and August 2016**- Internship at the Champalimaud Foundation in the telomeres, ageing and cancer research group with Rita Fior (PI: Miguel Godinho Ferreira), with one week of introduction to the Fish Facility. On this internship I had my first contact with cell culture, zebrafish handling and confocal microscopy.  
**January, 2016**- Internship in the area of Bioinformatics(PI: João Almeida) at Faculdade de Ciência e Tecnologia, Universidade Nova de Lisboa (Portugal). On this internship I learned to use and access databases and basic DNA sequence alignment.

**ACADEMIC FORMATION** | September 2016 – December 2018- **Master degree in Molecular Genetics and Biomedicine**, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (Portugal). Final Grade:17/20  
This master provides advanced training in molecular genetics and cell biology, with a focus on human diseases from a clinical perspective  
My thesis “**Ontogenesis of visual processing circuits in the zebrafish: analysis of specific neuronal subpopulations in development**” focused on imaging and analysis of specific neuronal subpopulations in the zebrafish model using different imaging techniques (confocal, two photon and light sheet microscopy) to study both fixed and live samples.

September 2013 - June 2016- **Bachelor Degree in Molecular and Cell Biology**, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (Portugal) Final grade: 14/20. This degree provided an in-depth study of biological concepts and an overview of various scientific topics including, biophysics, microbiology, chemistry, physiology and cell biology.

**MICROSCOPY EXPERIENCE** | **Confocal microscopy**: 1 year experience with Zeiss LSM 710, 1 day Demo’s with LSM 800, LSM880, Leica SP8, mainly tested fixed samples but also performed live imaging.

**2 Photon Microscopy**: 1 week experience with a custom built microscope for live imaging of the zebrafish brain.

**Spinning Disk Confocal**: 1 day demo with the Dragonfly 500 from Andor.

**Light Sheet**: 3 months experience with the Zeiss Light Sheet Z1 for live imaging of neural development in zebrafish, and zebrafish patient derived xenografts.

**Holotomography:** 3D cell explorer from Nanolive- 3 day demo, live cell imaging of Pancreatic cell line and T cells.

**Laser Microdissector:** 1 month experience with the Leica LMD7, mainly used for microdissection of fresh tissue samples.

**Small Equipment:** Brightfield and fluorescence stereomicroscopes and refractometer.

**LABORATORY SKILLS**

**Molecular biology:** PCR, Primer design, Bacterial culturing and transformation, RNA and DNA extraction and purification.

**Zebrafish model:** Basic care and handling, microinjection of cells and DNA, Immunofluorescence.

**Cell Culture:** Basic experience in cell culture, with immortalized human cancer lines (SW480, SW620 and HCT116)

**Flow Cytometry:** 1 year experience in doing flow cytometry (BD LSRFortessa™ X-20 and Cytoflex LX) and use of FlowJo for data analysis.

**COMPUTER SKILLS**

Good knowledge of Office (Word, PowerPoint, Excel). Use of the internet as a tool for communication and research.

**Image Analysis Software:** FIJI, Zen, Imaris, STEVE

**PUBLISHED PAPERS**

Review: **Clinically Relevant Immune Responses against Cytomegalovirus: Implications for Precision Medicine**, Joana R. Lérias, Georgia Paraschoudi, Inês Silva, João Martins, Eric de Sousa, Carolina Condeço, Nuno Figueiredo, Carlos Carvalho, Ernest Dadoo, Elke Jäger, Martin Rao, and Markus Maeurer, Published: 23 April 2019 on the International Journal of Molecular Sciences

Review: **Trained Immunity for Personalized Cancer Immunotherapy: Current Knowledge and Future Opportunities**, Joana R. Lérias, Eric de Sousa, Georgia Paraschoudi, João Martins, Carolina Condeço, Nuno Figueiredo, Carlos Carvalho, Ernest Dadoo, Andreia Maia, Mireia Castillo-Martin, Antonio Beltrán, Dário Ligeiro, Martin Rao, Alimuddin Zumla and Markus Maeurer Published: 10 January 2020 on the Frontiers of Microbiology.

**SCIENTIFIC COMMUNICATIONS: POSTERS**

**October 2019-** Poster Presented at the 7<sup>th</sup> Annual Immunogenomics conference at Champalimaud Foundation with the title: "T-cells from a patient with NSLC recognize an EGFR mutation."

**June 2018-** Poster presented at the Champalimaud Research retreat with the title "Developmental characterization of neuronal populations involved in visually guided behaviors."

**CONFERENCES ATTENDED**

**October 2019:** 7<sup>th</sup> Annual Immunogenomics Conference, Champalimaud Foundation.

**July 2018-** Ocular Oncogenesis and Oncology Conference, Champalimaud Foundation.

**February 2018-** Angels and Demons in Rectal Cancer: Challenging the Dogmas, Champalimaud Foundation.

**October 2017-** Participation in the Symposium on Imaging Hallmarks of Cancer, Champalimaud Foundation.

**October 2015-** Participation in the 1<sup>st</sup> Genetics Workshop NOVA Saúde, Rectory of the New University of Lisbon, Campolide.

**LANGUAGES**

Portuguese (Native Language) and English (Fluent).