



Diana Isabel Silva, M.Sc.

PhD student, BioTis (U1026)  
Thesis director: Joëlle Amédée



Tel: +(33) 05.57.57.92.73

### Research Interests:

My present research interest is focused on the interplay between sensory nervous system and bone, in a bone regeneration context.

### Keywords/expertise:

- Primary cell culture
- Cell line culture
- Co-culture
- Cell transfection
- RNA extraction
- cDNA synthesis
- qRT-PCR
- Paraffin embedding & sectioning
- Cryo-embedding & cryosectioning
- Immunofluorescence
- Immunocytochemistry
- Subcellular fractionation
- SDS-PAGE
- Immunoblotting
- ELISA
- Flow cytometry
- Biotinylation
- Immunoprecipitation
- Wound healing assay
- Invasion assay
- Aggregation assay
- Microfluidic devices
- Osteogenic differentiation
- SEM
- Recombinant proteins production & purification

### Publications:

- 1- Sousa DM, Conceição F, **Silva DI**, Leitão L, Neto E, Alves CJ, Alencastre IS, Herzog H, Aguiar P, Lamghari M. Ablation of Y1 receptor impairs osteoclast bone-resorbing activity. *Sci Rep*, 2016 Sep 20;6:33470.
- 2- Simões-Correia J, **Silva DI**, Melo S, Figueiredo J, Caldeira J, Pinto MT, Girão H, Pereira P, Seruca R. DNAJB4 molecular chaperone distinguishes WT from mutant E-cadherin, determining their fate in vitro and in vivo. *Hum Mol Genet*, 2014 Apr 15;23(8):2094-105.

- 3- Marques PI, Ferreira Z, Martins M, Figueiredo J, **Silva DI**, Castro P, Morales-Hojas R, Simões-Correia J, Seixas S. SERPINA2 is a novel gene with a divergent function from SERPINA1. *PLoS One*, 2013 Jun 24;8(6):e66889.

## Patents:

## Teaching Activities:

## Clinical Activities:

## Funding:

## Memberships:

## Awards:

- 1- Best Poster: Silva, D., Carvalho, C., Scigliano, H., Fernandes, S., Silva, R.A. FineFIX® e RCL2®: fixadores alcoólicos alternativos para a prática citológica? I International Congress of Health Gaia-Porto - Innovation, promotion and prevention, Sep 23, 2010, Gaia, Portugal.

## Education:

2013-14	Research Fellow (12 months)	Instituto de Engenharia Biomédica (INEB), Porto (Portugal) Nanobiomaterials for Targeted Therapies group Meriem Lamghari, PhD & Ana Paula Pego, PhD
2012-14	Research Fellow (22 months)	Instituto de Patologia e Imunologia Molecular da Universidade do Porto (IPATIMUP), Porto (Portugal) Cancer Genetics group Joana Simões Correia, PhD & Raquel Seruca MD, PhD
2011-13	M.Sc. in Oncology	University of Porto (Portugal) / Instituto Português de Oncologia do Porto (Portugal) / Thomas Jefferson University, Philadelphia (USA)
2010-11	Research Fellow (10 months)	Instituto de Medicina Molecular (IMM), Lisboa (Portugal) Cell Biology of the Immune System unit Luis Moita. MD, PhD
2006-10	B.Sc. in Pathologic, Cytologic and Thanatologic Anatomy	Polytechnic Institute of Porto (Portugal)

## Links:

ReaserchGate: [https://www.researchgate.net/profile/Diana\\_Silva7](https://www.researchgate.net/profile/Diana_Silva7)