



Rita Ribeiro

Bioengineering MSc (Molecular Biotechnology)

I am Bioengineering graduate with a master's in molecular biotechnology, passionate about translational science. During my studies I acquired solid knowledge in biology and biotechnology and since then I have acquired extensive experience from different labs both in Academia and in Industry. I have been involved in lab management and in multiple research projects, complying with good laboratory practices. In all placements/jobs I easily adapted to working in new environments while achieving very satisfying results. I have experience in different fields of science, which has made me develop a strong sense of responsibility, autonomy and persistence.

CONTACTS

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CERTIFICATES

- **First Certificate in English**
(Reference 13CPT0050078)
- **Pedagogical Skills Certificate**
(Reference F660958/2017)
- **Quality Management Systems Internal Auditor Certificate**

SKILLS

Languages

- Portuguese
- English

Ms Office

- Word
- PowerPoint
- Excel

Soft Skills

Team work, perseverance, critical thinking, self-motivation, result oriented focus, communication, prioritizing tasks.

WORKING EXPERIENCE

University of Salzburg, Feb 2021 – currently

PhD candidate (DIRNANO – MSCA-ITN)

Study of the interaction between nanovaccines and dendritic cells (DCs) in the context of non-small cell lung cancer.

AstraZeneca, Gothenburg: Apr 2020 – Dec 2020

Preformulation Scientist

Formulation and characterization of mRNA therapeutics and provide support for on-going pre-clinical studies. Conduct in vitro experiments to assess performance of formulations and generate, evaluate and report data. Compliance with Safety, Health & Environment (SHE) and quality SOPs. Participation in platform development strategy and in high throughput screenings for lipid nanoparticle carriers.

Helsinki University: Mar 2019 – Jan 2020

Research intern (grade: 98/100)

Study of the effect of mild chromatin stress on *C.elegans* model. Identification of ageing hallmarks in vivo. Dissection of disrupted pathways in toxic RNA repeats disease models, with focus on stress and immunity responses.

Key responsibilities & achievements:

- Identification of previously unknown mechanism of muscleblind splicing factor regulation in longevity of *C.elegans* (Manuscript submitted)

i3s (MSc thesis): Set 2017 – Mar 2018

Nanoparticle-in-Microparticle (NiM) systems for oral delivery of triptorelin (Trp) (grade: 18/20)

Development of mucodiffusing nanoparticles encapsulated into pH-responsive microparticles. Project developed in partnership with Ferring Pharmaceuticals.

Key responsibilities & achievements:

- Production and characterization of PLGA nanoparticles and pH-responsive microparticles;
- Metabolic activity assay and permeability assay

HANDS-ON EXPERIENCE

- FACS
- ELISA
- Cell culture
- Nanoparticles production
- Microfluidics
- ZetaSizer
- HPLC-UV
- NanoDrop
- RT-PCR
- qPCR
- Gel electrophoresis
- Western Blot
- Enzymatic assays (telomerase and micrococcal nuclease)
- Permeability assays
- Metabolic activity assays
- C. Elegans mutagenesis (molecular cloning and microinjections)
- Confocal microscopy
- Acoustic liquid dispenser (Echo)
- Automated liquid handling platform (Bravo)

SOFTWARE TOOLS

- BioELN
- GraphPad
- Spotfire
- Benchling
- Genomic Databases

REFERENCES

Alan Sabirsh, PhD
Wouter Lokerse, PhD
Paul Shiels, PhD
Bruno Sarmento, PhD
Olli Matilainen, PhD
Susana Garcia, PhD

University of Glasgow (Erasmus): Feb-Aug 2016

Ageing of hMSCs in vitro (grade: 20/20)

Assessment of molecular alterations induced by continuous passaging of hMSCs in vitro. Evaluation of the effect of uremic serum from chronic kidney disease patients in vitro. Comparative study with serums obtained pre- and post- dialysis treatment.

Key responsibilities & achievements:

- Identification of the hallmarks of ageing in hMSCs (*in vitro*)

EDUCATION

Faculdade de Engenharia da Universidade do Porto

Integrated MSc in Bioengineering (grade: 14/20)

Multidisciplinary course recognized by EUR-ACE, result of a partnership between Engineering Faculty of Oporto (FEUP) and Institute of Biomedical Sciences Abel Salazar (ICBAS).

VOLUNTARY PROJECTS

Petnica Science Centre: Jun 2012 – Aug 2012

International Student (volunteer project)

Study of single stranded conformation polymorphisms in DNA; their relevance and how to identify them.

AIIESEC IN FEP Apr 12 – Nov 14

Business Development Team

Establishment of housing partnerships, preparation of a reception kit for each trainee to minimize cultural shock and planning activities to promote a closer contact with AIIESEC in FEP members.