




PERSONAL INFORMATION

Sarah G. Azinheiro



-  Braga
-  919382471
-  Sarah_gfa@hotmail.com

Sex Female Date of birth 1990 Nationality French/ Portuguese

WORK EXPERIENCE

- 03.2016 – present **Research technician**
International Iberian Nanotechnology Laboratory (INL)
 - Development of detection methods of pathogens and allergens in food samples (qPCR, LAMP, ELISA, bacteriophage amplification).
 - Optimization of DNA extraction and amplification in a lab-on-chip device.

- 07.2015 – 09.2015 **INL summer Internship**
International Iberian Nanotechnology Laboratory (INL)
 - Optimization of DNA extraction and purification, through microscale solid phase extraction (μ SPE);
 - Study of different buffers and silica membranes;
 - DNA quantification (nanodrop, picogreen);

- 12.2014 – 05.2015 **Research Volunteer**
Research Centre in Biodiversity and Genetic Resources (CIBIO), Portugal
 - Study of Arabidopsis gene expression in deficit and zinc abundantly conditions; (Treatment and analysis of microarray data)

- 01.2013 – 07.2013 **Research Volunteer**
Research group in Marine Resources (GIRM), ESTM, Portugal
 - Study of the effect of chitosan on the germination and plant growth and ABA signalling;
 - Seed germination and water loss assays in Arabidopsis (in vitro);
 - Evaluation of seed germination and fruiting crops (agricultural greenhouse);

- 2010 – 2012 **Research Volunteer**
Institute of Agricultural and Environmental Mediterranean Sciences (ICAAM), Virology Plant Research Laboratory, Portugal.
 - Study of viral transmission by fungi in plants;
 - Extraction of DNA and RNA / Transcript / Cloning / PCR;
 - Preparation of solutions;
 - Isolation, purification and quantification of viral particles;
 - Extraction and quantification of zoospores;
 - ELISA tests.

EDUCATION AND TRAINING

- 09.2015 - present **Post-graduate in Molecular and Analytic Biochemistry**
School of Science - Minho University
 - Biochemistry of DNA and protein structure;
 - Molecular Modelling (VMD);

- 17.06.2013 – 21.06.2013 **Advanced Course in Biomarkers**
School of Tourism and Maritime Technology - Institute Polytechnic of Leiria
 - Transcriptomics/ Proteomics/ Fatty acid profile/ Stress indicators;

2012 – 2015

Master in Biotechnology

- School of Tourism and Maritime Technology - Institute Polytechnic of Leiria
- Molecular Biology, Genetics and Microbiology Laboratory / Bioinformatics;
 - Culture of animal and plant cells;
 - Pharmaceutical Applications (Interferon production; antibodies, hormones, enzymes and therapeutic nucleic acids);
 - Industrial biotechnology / biocatalysts / Bioseparations;

Participation in projects:

- The influence of the São Domingues river in the Molho Leste beach microflora (microbiological characterization);
- Study of the toxicity of tamoxifen, in cell line of breast cancer;

THESIS: Interactors of SNRK1.1, their involvement in the ABA signaling pathway and in response to the energy deficit, collaboration with the Gulbenkian Science Institute (IGC).

2009 – 2012

Degree in Biology

Faculty of Sciences and Technology at University of Évora

- Molecular biology, biotechnology and biochemistry of nucleic acids;
- Genetics, Cell Biology;
- Microbiology, Virology, Immunology;

PERSONAL SKILLS

Mother tongue(s) Portuguese

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C2	C2	C2	C2	C2
English	C1	C1	B1	B1	B2
Spanish	B1	B1	A2	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills

- Strong commitment to team environment dynamics;
- Ability to contribute expertise and follow leadership directives at appropriate times;
- High motivation to learn;

Organisational / managerial skills

- Combine patience, determination, and persistence to troubleshoot issues;
- Strong sense of Responsibility and Organization;
- Results-Oriented, with Efficiency and Effectiveness;

Job-related skills

- Experience in laboratory environment with the respective devices;
- Ability to perform essential laboratory techniques (preparation of solutions);
- Knowledge microbiological techniques (culture media, inoculation, colonies isolation, detection and characterization tests as API, VIDAS, DST);
- Ability to perform molecular biology techniques (Extraction and purification of DNA / RNA, PCR, RTPCR, LAMP, cloning, Y2H, phosphatase activity test, SDS-PAGE, Western Blot, ELISA);
- Knowledge of Animal and plant cell culture techniques;
- Knowledge of industrial production processes from biocatalysts;

Computer skills

- Microsoft Office programs (Word, Excel, PowerPoint);
- Visual Molecular Dynamics;
- Knowledge of SPSS and Canoco software;
- Knowledge of bioinformatics databases (BLAST, BioEdit Sequence Alignment Editor, Clustal W, TargetP, Genevestigator) and SeqBuilder, Chromas and MegAlign softwares;

Driving licence

B+B1

ADDITIONAL INFORMATION

- Publications**
- Azevedo H, Azinheiro SG, Muñoz-Mérida A, Castro PH, Huettel B, Aarts MMG, Assunção AGL (2016) Transcriptomic profiling of Arabidopsis gene expression in response to varying micronutrient zinc supply. *Genomics Data* 7:256–258 DOI 10.1016/j.gdata.2016.01.021
- Posters**
- Carvalho J., Azinheiro S., Diéguez L., Cardoso S., Gaspar J., Prado M. (2015) DNA extraction from food samples for PCR applications through microscale solid phase extraction (μ SPE) on a washable and reusable microfluidic system. 3rd qPCR and Digital PCR Congress Europe, London, UK.
 - Azinheiro, S., Avelelas, F., Leandro, S.M., and Rodrigues, A. (2014) A role for ABA in the plants response to chitosan. *Frontiers in Marine Science*.
 - Avelelas, F., Pinto, L., Velez, C., Azinheiro, S., Rodrigues, A., and Leandro, S. (2014) Antifungal activity of low molecular weight chitosan produced from non-traditional marine resources. *Frontiers in Marine Science*.
- Workshops**
- Workshop on "Clustering in Biotechnology", Biocant 2012;
 - Workshop on "Microarray Applications in Biomedicine", Biocant 2012;
- Participations**
- Organization team of the International Marine Research Meeting (2014);
 - Participation in the Biotechnology Conferences, University of Évora, 2012;
 - Seminar on the Conservation Biology, University of Évora, 2011;
 - "Biology and Society" Conferences at University of Évora 2010;