

CURRICULUM VITAE

Personal Data

Name: Andreia Filipa dos Santos Gomes

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Academic Degrees

2007: Scientific-Technological Course in Biotechnology - Level III at CIC (Colégio Internato dos Carvalhos) – 16.40/20 values

2010: Degree in Biochemistry at UTAD (Universidade de Trás-os-Montes e Alto Douro) – 14.43/20 values

2012: Master in Biotechnology at FCT-UNL (Faculdade de Ciências e Tecnologias – Universidade Nova de Lisboa) – 16.45/20 values

Previous and Current Scientific and/or Professional Activities

- From 01/2010 to 06/2010: Internship at Organic Chemistry group of Chemistry Research Center at UTAD;

- From 09/2011 to 09/2012: Master student at Disease and Stress Biology lab – ITQB (Instituto de Tecnologia Química e Biológica).

Area of Scientific Activity

Biochemistry and Molecular Biology

Present Research Interests

Investigate the potential biomedical applications of plant secondary metabolites in degeneration cell models, implemented at the Disease and Stress Biology lab. Interest in understanding the mechanisms underlying neuroprotective effects of digested berry extracts by proteomic analysis and also evaluate the cellular redox state of biological samples, such as glutathionylation and carbonylation (Immunoblot).

Personal skills and competences

- **Mother tongue:** Portuguese
- **Other language(s):** English (European level)

| Understanding | | | | Speaking | | | | Writing | |
|---------------|------------------|---------|------------------|--------------------|------------------|-------------------|------------------|---------|------------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| (C1) | Experienced user | (C1) | Experienced user | (B1) | Independent user | (B1) | Independent user | (B1) | Independent user |

Other skills

- **Animal cell culture**
 - neuroblastoma cell line SK-N-MC and hepatocellular carcinoma cell line Hep G2
- **Protein analysis:**
 - Electrophoresis by SDS-PAGE, 2-DE;
 - Immunoblot;
 - Two-dimensional electrophoresis gel image analysis by Progenesis SameSpots software.
- **Bioinformatics knowledge:**
 - Gulbenkian Training Programme in Biostatistical Foundations in Bioinformatics at Instituto Gulbenkian de Ciência, Oeiras, 2012 (35 hours);
 - Gulbenkian Training Programme in Bioinformatics at Instituto Gulbenkian de Ciência, Oeiras, 2011 (35 hours);
 - Data Bases (NCBI (Blast), UniProt).

Publications

Internship Report

Gomes A (2010) Synthesis, spectroscopic characterization and evaluation of squarylium cyanine dyes in a cell line proliferation HepG-2. Internship report, UTAD, Vila Real.

Thesis

Gomes A (2012) Proteomic Analysis of a neurodegeneration cell model, treated with plant extracts with potential neuroprotective activity. Master thesis in Biotechnology, FCT-UNL, Lisbon.

Posters in conferences

Gomes A, Silva, AM, Reis, LV (2010) *Evaluation of the effect of squarylium cyanine dyes on the proliferation and viability of HepG-2 cells in culture*, XVII Congresso Nacional de Bioquímica, Porto, Portugal, 15-17 December.

Gomes A, Alves M, Tavares L, McDougall GJ, Stewart D, Ferreira RB, Santos CN (2012) *O efeito das amoras no padrão das proteínas em células humanas*, IV Colóquio Nacional da Produção de Pequenos Frutos, Faro, Portugal, 20-21 April.