

Curriculum vitae

Personal Data

Nome: Carolina Emanuel Carreira Gomes Jardim

Email: cjardim@itqb.unl.pt; Tel: +351 96 377 4867

Academic Degrees

- **09/2010 – 11/2012** – Master in Biochemistry – FCUL, Lisboa – 17/20 Values
- **09/2006 – 02/2010** – Degree in Biotechnology Engineering – Universidade Lusófona de Humanidades e Tecnologias (ULHT), Lisboa – 15/20 Values

Previous and current scientific and professional activities

- **09/2011 – 11/2012** – Master Student in Biochemistry at Disease and Stress Laboratory, ITQB, Oeiras.
- **11/2009 – 02/2010** – Undergrad Student – PBFS (Protein Biochemistry and Folding Stability), ITQB, Oeiras.

Present Area of Activity

Biochemistry - Research on digested polyphenols from berries with neuroprotective potential in a yeast model of degeneration.

Present Research Interests

Evaluation of the oxidative stress on different yeast *Saccharomyces cerevisiae* strains (BY4741, Δ sod1, Δ yap1 and AD1-8) and assessment to the protective potential of digested plant secondary metabolites in a yeast model that mimics the degeneration process after an oxidative insult, based on kinetically monitoring of yeast growth (Growth curves), Spot assays and CellTiter-blue assay. Interest in analyze the cellular markers of oxidative stress such as ROS measurements and GSH/GSSG quantification by HPLC. Experience in plant extraction of secondary metabolites of interest such as phenolic compounds and its evaluation by biochemistry methodology (Folin-Ciocalteu and ORAC).

Other Skills

Biological Models – Experience in work with *Saccharomyces cerevisiae* strains (BY4741, Δ sod1, Δ yap1 and AD1-8) and knowledge about SK-N-MC mammalian cell line.

Bioinformatics knowledge – Data Bases (NCBI (Blast), SCOP, PDB, Swiss-prot e b-on) Processing Data Tools (Clustal, Bioedit, Chromos, Phylip, PAUP and Chimera)

Protein Analysis – Protein extraction, purification (In Gel and Affinity Chromatography) and Protein quantification (Bradford, western blotting and SDS-Page electrophoresis). Spectrophotometry (absorption, fluorimetry and Circular Dichroism).

English Level

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Publications

Thesis

- Jardim, C.E., (2012), *“Research of polyphenols with neuroprotective potential in a yeast model of degeneration”*, Master thesis in Biochemistry. FCUL, Lisbon.

Communications

Oral communications

- Fernandes, A., Jardim, C.E., Catarino, S., Silva, A.R., (2009), *“Cultura de Microalgas – Aplicações biotecnológicas”*, 1st cycle of conferences “Investigação nos dias de hoje – Biotecnologia, Ambiente, Biologia e Química”, ULHT, Lisbon, Portugal, April 20.

Posters in conferences

- Jardim, C.E., Macedo, D.M., Tenreiro, S., Ferreira, R.B., Outeiro, T.F., Santos, C. N., (2012), *“Framboesa e medronho: potenciais fontes de compostos bioativos para a doença de Parkinson”*, IV colóquio nacional da produção de pequenos frutos, Algarve, Portugal, from 20 to 21 of April.
- Martins, M., Silva, A.R, Jardim, C.E., Rocha, M., Catarino, S., (2008), *“Pesquisa de genes de stress em Lactobacillus plantarum”*, Genética Molecular: Genes que ditam o nosso quotidiano, ULHT, Lisbon, Portugal June 6.

Other Participations

BFB12 – Bioestatistical Foundations on Bioinformatics Course using R program, IGC, Oeiras, from 3 to 7 of December 2012.

“Lusoexpedição - O Banco de Gorringe, a Madeira e o percurso das espécies marinhas no atlântico norte”(2008), ULHT; from 6 to 15 of June.