

Name: Marta Alexandra Marques Alves

Date and place of Birth: 17.04.1979, Oeiras (Portugal)

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Research Area

Beneficial effect of plant compounds in human health.

Academic Qualifications

2010. PhD in Biochemistry, Plant Physiology at ITQB-UNL.

2003. Graduation in Chemistry - Biochemistry at the UTL-IST (Universidade Técnica de Lisboa - Instituto Superior Técnico).

Research Developed

2012 - . Assessment of the potential nutraceutical value and health benefits of two novel berry crops adapted to typical Mediterranean conditions. Post-doc fellowship from FCT (SFRH/BPD/76646/2011).

2010 - 2011. Molecular studies on the biology of plant storage proteins. BI fellowship from ITQB (034/BI/2010).

2005 - 2010. The response of higher plants to boron deficiency. PhD fellowship from FCT (SFRH/ BD/ 18273/ 2004)

2004. EAN bean (*Phaseolus vulgaris* L.) germplasm collection: molecular characterization and biochemical evaluation. BIC fellowship from ITQB (006/BIC/2004).

2002 - 2003. The effect of boron in plants - practice training at ITQB (Instituto de Tecnologia Química e Biológica) and IST (Instituto Superior Técnico).

Publications

Santos CN, **Alves M**, Oliveira A, Ferreira RB (2013) β -N-Acetylhexosaminidase involvement in α -conglutin mobilization in *Lupinus albus*. *Journal of Plant Physiology*. DOI: 10.1016/j.jplph.2013.03.009.

Santos CN, **Alves M**, Bento I, Ferreira RB (2012) Missing pieces in protein deposition and mobilization inside legume seed storage vacuoles: calcium and magnesium ions. *Seed Science Research* 22: 249-258.

Alves M, Moes S, Jenö P, Pinheiro C, Passarinho J, Ricardo CP (2011) The analysis of *Lupinus albus* root proteome revealed cytoskeleton altered features due to long-term boron deficiency. *Journal of Proteomics* 74 (8) 1351-1363.

- Alves M**, Chicau P, Matias H, Passarinho J, Pinheiro C, Ricardo CP (2011) Metabolic analysis revealed altered amino acid profiles in *Lupinus albus* organs due to boron deficiency. *Physiologia Plantarum* 142 (3): 224-232.
- Chaves I, **Alves M**, Carrilho D, Duque-Magalhães M, Ricardo CP, Regalado A (2011) Protein changes during programmed cell death in tobacco. *Biologia Plantarum* 55 (1): 153-158.
- Alves M**, Chaves I, Carrilho D, Veloso M, Ricardo CP (2010) Detection of nine new trypsin inhibitors in the cotyledons of *Phaseolus vulgaris* seeds. *Journal of Plant Physiology* 167 (10): 848-854.
- Alves M**, Francisco R, Martins I, Ricardo CP (2006) Analysis of *Lupinus albus* leaf apoplastic proteins in response to boron deficiency. *Plant and Soil* 279: 1-11.

Courses attended

- 2012.** 5th CERMAX practical course on basic NMR, Instituto de Tecnologia Química e Biológica, Oeiras, Portugal.
- 2010.** The Gulbenkian Training Programme in Bioinformatics, 11th Edition. Proteomics Data Analysis – PDA10, Oeiras, Portugal.
- 2009.** “Forest and water stress in a changing environment: from cell to ecosystems” – COST Dynamic Training School - COST FP0601/FA0603, Orvieto, Italy.
- 2006.** “Course on microarrays”. Faculdade de Ciências, Lisbon, Portugal.
- 2004.** “Microbiologia Molecular: Explorando a Proteómica Quantitativa”, Instituto Superior Técnico, Lisbon, Portugal.