

## **André Martinho de Almeida, Researcher (Inv. Auxiliar)**

Brief CV:

### **1 – Academic Qualifications**

1998 – Degree in Animal Science (University of Évora)

2000 – MSc in Tropical Veterinary Medicine and Animal Science (Fac. Vet. Med., Technical Univ. Lisbon)

2005 – PhD in Biology (ITQB, New University of Lisbon)

### **2 – Research Interests**

Application of proteomics to Animal Physiology, biochemistry and nutrition; Physiology of tolerance to weight loss; Tropical Animal Science.

### **3 – Other research interests**

Plant Biotechnology (tolerance to water deficit); Animal science; Tropical Agricultural Systems; Industrial and alternative poultry science.

### **4 – Publications in ISI Journals**

- 1. Almeida, A.M., A. Campos, R. Francisco, S. van Harten, L.A. Cardoso and A.V. Coelho (2010). Proteomic investigation of the effects of weight loss in the gastrocnemius muscle of wild and New Zealand white rabbits via 2D-electrophoresis and MALDI-TOF MS. *Animal Genetics* (in press). (THIS JOURNAL WAS RANKED IN 2007 AS NUMBER 1 JOURNAL IN THE AGRICULTURE, DAIRY AND ANIMAL SCIENCE SECTION)**
2. Campos, A., P.K. Carvajal-Vallejos, E. Villalobos, C. Franco, **A.M. Almeida**, A.V. Coelho, J.M. Torné and M. Santos (2010). Characterization of *Zea mays* L. plastidial transglutaminase: Interactions with thylacoid membrane proteins. ***Plant Biology*** (in press).
3. **Almeida, A.M.**, U. Zuber (2010). The effect of the Naked Neck genotype (*Nana*), feeding and outdoor rearing on growth and carcass characteristics of free range broilers in a hot climate. ***Tropical Animal Health and Production*** (*in press*)
4. **Almeida, A.M.**, A. Campos, S. van Harten, L.A. Cardoso and A.V. Coelho (2009). Establishment of a proteomic reference map for the gastrocnemius muscle in

- the rabbit (*Oryctolagus cuniculus*). **Research in Veterinary Science** **87**: 196-199. [doi:10.1016/j.rvsc.2009.02.011](https://doi.org/10.1016/j.rvsc.2009.02.011)
5. **Almeida, A.M.**, S. van Harten, A. Campos, A.V. Coelho and L.A. Cardoso (2009). The effect of weight loss on protein profiles of gastrocnemius muscle in rabbits: a study using 1D electrophoresis and Peptide Mass Fingerprinting. **Journal of Animal Physiology and Animal Nutrition** (*in press*). [doi: 10.1111/j.1439-0396.2008.00897.x](https://doi.org/10.1111/j.1439-0396.2008.00897.x)
  6. **Almeida, A.M.** and L.A. Cardoso (2008). Animal Production and Genetic Resources in Guinea Bissau: I – Northern *Cacheu* Province. **Tropical Animal Health and Production** **40**: 529-536. [doi: 10.1007/s11250-008-9130-9](https://doi.org/10.1007/s11250-008-9130-9)
  7. **Almeida, A.M.** and L.A. Cardoso (2008). Animal Production and Genetic Resources in Guinea Bissau: II – *Tombali* Province. **Tropical Animal Health and Production** **40**: 537-543. [doi: 10.1007/s11250-008-9131-8](https://doi.org/10.1007/s11250-008-9131-8)
  8. **Almeida, A.M.**, L.M. Schwalbach, H.O. deWaal, J.P. Greyling and L.A. Cardoso (2008). 3-Methylhistidine in the male goat as an experimental model: serum concentrations and an indicator of protein breakdown. **Scandinavian Journal of Laboratory Animal Science** **35**: 259-263.
  9. Carvajal-Vallejos, P.K., A. Campos, P. Fuentes-Prior, E. Villalobos, **A.M. Almeida**, E. Barberà, J.M. Torné and M. Santos (2007). Purification and in vitro refolding of maize chloroplast transglutaminase over-expressed in *Escherichia coli*. **Biotechnology Letters** **29**: 1255-1262. [doi: 10.1007/s10529-007-9377-7](https://doi.org/10.1007/s10529-007-9377-7)
  10. **Almeida, A.M.**, L.M.J. Schwalbach, L.A. Cardoso and J.P.C. Greyling (2007). Scrotal, testicular and semen characteristics of young Boer bucks fed winter veld hay: the effect of nutritional supplementation. **Small Ruminant Research** **73**: 216-220. [doi:10.1016/j.smallrumres.2007.02.001](https://doi.org/10.1016/j.smallrumres.2007.02.001)
  11. **Almeida, A.M.**, L.A. Cardoso, D.M. Santos, J.M. Torné and P.S. Fevereiro (2007). Invited Review: Trehalose and its applications in plant biotechnology. **In vitro Cell Dev. Biol. Plants** **43**: 167-177. [doi: 10.1007/s11627-006-9024-3](https://doi.org/10.1007/s11627-006-9024-3)
  12. **Almeida, A.M.**, M. Santos, E. Villalobos, S.S. Araújo, P. van Dijck, B. Leyman, L.A. Cardoso, D. Santos, P.S. Fevereiro and J.M. Torné (2007). Immunogold localization study of trehalose-6-phosphate synthase in leaf segments of wild type and transgenic tobacco plants expressing the AtTPS1 gene from

*Arabidopsis thaliana*. **Protoplasma** **230**: 41-49. [doi: 10.1007/s00709-006-0198-7](https://doi.org/10.1007/s00709-006-0198-7)

13. **Almeida, A.M.**, E. Villalobos, S.S. Araújo, L.A. Cardoso, D.M. Santos, M. Santos, P.S. Fevereiro and J.M. Torné (2007). Electroporation of maize embryogenic *calli* with the trehalose-6-phosphate synthase gene from *Arabidopsis thaliana*. **Acta Physiologiae Plantarum** **29**: 273-281. [doi: 1007/s11738-007-0034-5](https://doi.org/10.1007/s11738-007-0034-5)
14. **Almeida, A.M.**, A.B. Silva, S.S. Araújo, L.A. Cardoso, D.M. Santos, J.M. Torné, J.M. Silva, M.J. Paul and P.S. Fevereiro (2007). Responses to water withdrawal of tobacco plants genetically engineered with the AtTPS1 gene: a special reference to photosynthetic parameters. **Euphytica** **154**: 113-126. [doi: 10.1007/s10681-006-9277-2](https://doi.org/10.1007/s10681-006-9277-2)
15. **Almeida, A.M.**, S. Van Harten and L.A. Cardoso (2006). Myofibrillar protein status of the gastrocnemius in male rats: effect of mild undernutrition. **Scandinavian Journal of Lab. Animal Science** **33**: 101-106.
16. **Almeida, A.M.**, L.M. Schwalbach, H.O. de Waal, J.P. Greyling and L.A. Cardoso (2006). The effect of supplementation on productive performance of *Boer* goat bucks fed winter veld hay. **Tropical Animal Health and Production** **38**: 443-449. [doi: 10.1007/s11250-006-4368-6](https://doi.org/10.1007/s11250-006-4368-6)
17. **Almeida, A.M.**, E. Villalobos, S.S. Araújo, B. Leyman, P. Van Dijck, L.A. Cardoso, P.S. Fevereiro, J.M. Torné and D.M. Santos (2005). Transformation of tobacco with an *Arabidopsis thaliana* gene involved in trehalose biosynthesis increases tolerance to several abiotic stresses. **Euphytica** **146**: 165-176. [doi: 10/1007s10681-005-7080-0](https://doi.org/10.1007/s10681-005-7080-0)
18. **Almeida, A.M.**, L.M. Schwalbach, H.O. deWaal, J.P.C. Greyling and L.A. Cardoso (2004). Serum amino acid and myofibrillar protein profiles in Boer Goat bucks following undernutrition. **Small Ruminant Research** **55**: 141-147. [doi:10.1016/j.smallrumres.2004.01.009](https://doi.org/10.1016/j.smallrumres.2004.01.009)
19. van Harten, S., **A.M. Almeida**, Z. Morais and L.A. Cardoso (2003). Free fatty acids and fatty acids of triacylglycerols profiles in muscle and plasma of fed and underfed laboratory rats. **Nutrition Research** **23**: 1685-1690. [doi:10.1016/j.nutres.2003.08.002](https://doi.org/10.1016/j.nutres.2003.08.002)

20. van Harten, S., **A.M. Almeida**, Z. Morais, L.M. Schwalbach, J.P. Greyling, H.O. de Waal and L.A. Cardoso (2003). Free fatty acids and fatty acids of triacylglycerols profiles in muscle and plasma of fed and underfed Boer goats. **Nutrition Research 23: 1447-1452**. [doi:10.1016/S0271-5317\(03\)00152-0](https://doi.org/10.1016/S0271-5317(03)00152-0)
21. **Almeida, A.M.** and L.A. Cardoso (2002). Possible role of antibodies to leptin as growth promoters – preliminary study in mice. **Scandinavian Journal of Laboratory Animal Science 29(2): 65-68**.
22. **Almeida, A.M.**, S. van Harten and L.A. Cardoso (2002). Serum amino acid and myofibrillar protein profiles of fed and underfed laboratory rats. **Nutrition Research 22: 1453-1459**. [doi:10.1016/S0271-5317\(02\)00472-4](https://doi.org/10.1016/S0271-5317(02)00472-4)

#### 5 – Referee for the following international journals:

1. **Livestock Science** (Edited by Elsevier Science)
2. **Tropical Animal Health and Production** (Edited by Springer Academic Publisher);
3. **Journal of the Science of Food and Agriculture** (Edited by Wiley);
4. **Scientia Agricola** (Edited by the University of São Paulo, SP, Brazil) t;
5. **Physiologia plantarum** (Edited by Blackwell Scientific);
6. **Euphytica** (Edited by Springer Academic Publisher);
7. **Functional Plant Biology** (Edited by CSIRO – Commonwealth Scientific and Industrial Research Organization, Australia);
8. **Food and Chemical Toxicology** (Edited by Elsevier Science) – 1 manuscript;

#### 6 – Research Collaborations:

Dep. Agriculture and Food, Government of Western Australia (Perth, Australia), <http://www.agric.wa.gov.au/>

Barcelona Molecular Biology Institute (Barcelona, Spain); <http://www.ibmb.csic.es/>

University of the Free State (Bloemfontein, South Africa), <http://www.ufs.ac.za/>

Canarian Institute of Agricultural Research (Tenerife, Spain); <http://www.icia.es/icia/>

Rothamstead Research (Harpenden, UK), <http://www.rothamsted.ac.uk/>

Instituto de Tecnologia Química e Biológica (Oeiras, Portugal),  
<http://www.itqb.unl.pt/>

Faculdade de Medicina Veterinária (Lisboa, Portugal), <http://www.fmv.utl.pt/>

Instituto Superior de Agronomia (Lisboa, Portugal), <http://www.isa.utl.pt/>

Instituto Nacional Recursos Biológicos (Santarém, Portugal),  
<http://www.inrb.pt/>