

## Publications 2016

### Papers in indexed journals (sci)

1. Aazza S., S. El-Guendouz, M.G. Miguel, M.D. Antunes, M. L. Faleiro, A.I. Correia, A. C. Figueiredo. 2016. Antioxidant, Anti-inflammatory and Anti-hyperglycaemic Activities of Essential Oils from *Thymbra capitata*, *Thymus albicans*, *Thymus caespititius*, *Thymus carnosus*, *Thymus lotocephalus* and *Thymus mastichina* from Portugal. *Natural Product Communication* 11 (7): 1029-1038.
2. Alves L, Medronho B, Antunes FE, Topgaard D, Lindman B (2016) [Dissolution state of cellulose in aqueous systems. 2. Acidic solvents](#). *Carbohydrate Polymers*, 151: 707-715. DOI: [10.1016/j.carbpol.2016.06.015](#)
3. Alves L, Medronho B, Antunes FE, Topgaard D, Lindman B (2016) [Dissolution state of cellulose in aqueous systems. 1. Alkaline solvents](#). *Cellulose*, 23: 247-258. DOI: [10.1007/s10570-015-0809-6](#)
4. Bahloul N., Bellili S., Aazza S., Chérif A., Faleiro M.L., Antunes M.D., Miguel M.G., Mnif W. 2016 Aqueous extracts from Tunisian *Diplotaxis*: phenol content, antioxidant and anti-acetylcholinesterase activities, and impact of exposure to simulated gastrointestinal fluids. *Antioxidants* 5: 12, doi:103390/antiox 5020012.
5. Campos-Herrera, R., El-Borai, F.E., Rodriguez Martin, J.A., Duncan, L.W. 2016. Entomopathogenic nematode food web assemblages in Florida natural areas. *Soil Biology and Biochemistry*, 93, 105-114. IF 2015: 4.152 (Top 2, Q1 Soil Science)
6. Carrasco A., Tomas V., Tudela J., Miguel M.G. 2016. Comparative study of GC-MS characterization, antioxidant activity and hyaluronidase inhibition of different species of *Lavandula* and *Thymus* essential oils. *Flavour and Fragrance Journal*, 31: 57-69. [wileyonlinelibrary.com](#)) DOI [10.1002/ffj.3283](#)
7. Campos-Herrera, R., Rodríguez Martín, J.A., Escuer, M., García-González, M.T., Duncan, L.W., Gutiérrez, C. 2016. Entomopathogenic nematode food webs in an ancient, mining pollution gradient in Spain. *Science of the Total Environment* 572C, 312-323. IF 2015: 3.976 (Q1 Environmental Sciences)
8. Corcobado, T., Miranda-Torres, J. J., Martín-García, J., Jung, T. and Solla, A. (2016). Early survival of *Quercus ilex* subspecies from different populations after infections and co-infections by multiple *Phytophthora* species. *Plant Pathology*, in press. DOI: [10.1111/ppa.12627](#).
9. Correia P.J., Guerreiro J.F., Pestana M., Martins-Loução M.A. 2016. Management of carob trees in Mediterranean ecosystems: strategies for a carbon economy implementation. *Agroforestry Systems*. 1-12p. doi:10.1007/s10457-016-9929-8
10. Costa, A., Martins, T.R., Marques, N.T., Nolasco, G. 2016. Combined expression of p20 and p23 proteins from Citrus tristeza virus show enhanced local silencing suppressor activity. *Phytopathologia Mediterranea*, [S.I.], v. 55, n. 2, p. 172-183, doi:10.14601/Phytopathol\_Mediterr-16093.
11. Cruz, R.M.S., Godinho, A.I.A., Aslan, D., Koçak, N.F. and Vieira, M.C. 2016. Modelling the kinetics of peroxidase inactivation, colour and texture changes of Portuguese cabbage (*Brassica oleracea* L. var. *costata* DC) during UV-C light and heat blanching. *International Journal of Food Studies*, 5, 180-192. <http://dx.doi.org/10.7455/ijfs/5.2.2016.a6>
12. Custódia M.L.G., Adriana C. G., G. Miguella, T. Panagopoulos, M. M. da Silva, M.D.C. Antunes, 2016. Effect of Calcium chloride and 1-MCP (Smartfresh™) postharvest treatment on 'Golden Delicious' apple cold storage

physiological disorders. *Scientia Horticulturae* 211: 440–448. doi.org/10.1016/j.scienta.2016.09.017

13. El-Guendouz, S., S.Aazza, B. Lyoussi, M. D. Antunes, Maria L. Faleiro, M. G. Miguel. 2016. Anti-acetylcholinesterase, antidiabetic, anti-inflammatory, antityrosinase and antixanthine oxidase activities of Moroccan propolis. *International Journal of Food Science and Technology* 51: 1762–1773. doi:10.1111/ijfs.13133
14. Galego, LR, Rodrigues, MA, Mendes, DC, Jockusch, S, Da Silva JP, (2016) Quantitative analysis of biogenic polyamines in distilled drinks by direct electrospray ionization tandem mass spectrometry using a nanocontainer. *Rapid communications in mass spectrometry*, 15, 1963-1968, DOI: 10.1002/rcm.7676
15. Gama F., Saavedra T., Da Silva J.P., Miguel M.G., de Varennes A., Correia P.J. Pestana M. 2016. The memory of iron stress in strawberry plants, *Plant Physiology and Biochemistry*. 104:32-44. doi: 10.1016/j.plaphy.2016.03.019
16. Gama, F.; Saavedra, T.; Díaz, I., Campillo, M.C.; Varennes, A.; Duarte, A.; Pestana, M. & Correia, P.J. 2015. Fe deficiency induction in *Poncirus trifoliata* rootstock growing in nutrient solution changes its performance after transplant to soil. *Scientia Horticulturae*, 182:102-109. OI:10.1016/j.scienta.2014.11.003
17. García-Caparrós P., Llanderal A., El-Tarawy A., Correia P.J., Pestana M., Lao M.T. 2016. Irrigation with drainage solutions improves the growth and nutrients uptake in *Juncus acutus*. *Ecological Engineering*. 95: 237-244. doi:10.1016/j.ecoleng.2016.06.090
18. García-Caparrós P., Llanderal A., Pestana M., Correia P.J., Lao M.T. 2016. Tolerance mechanisms of three potted ornamental plants grown under moderate salinity. *Scientia Horticulturae*, 201: 84-91. doi:10.1016/j.scienta.2016.01.031
19. Gomes, M.S., M.G. Cardoso, A.C. G. Guimarães, A.C. Guerreiro, C. M. L. Gago, E.V.B. Vilas Boas, C.M.B. Dias, A.C.C. Manhita, M.L. Faleiro, M.G.C. Miguel, M.D.C. Antunes. 2016. Effect of edible coatings with essential oils on the quality of red raspberries over shelf-life. *J Sci Food Agric*. DOI 10.1002/jsfa.7817
20. Gonçalves S, Romano A (2016) [The medicinal potential of plants from the genus \*Plantago\* \(Plantaginaceae\)](#). *Industrial Crops and Products*, 83: 213-226. DOI: 10.1016/j.indcrop.2015.12.038
21. Graça, A., Esteves, E., Nunes, C., Abadias, M., Quintas, C. (2016) Microbiological quality and safety of minimally processed fruits in the marketplace of southern Portugal. *Food Control*. doi:10.1016/j.foodcont.2016.09.046
22. Gubitosi M, Duarte H, Gentile H, Olsson U, Medronho B (2016) [Cellulose in aqueous tetrabutylammonium hydroxide solvent: Effect of aggregation on solution rheology](#). *Biomacromolecules*, 17: 2873-2881. DOI: 10.1021/acs.biomac.6b00696.
23. Guerreiro, A.C, C.M.L. Gago, M.L. Faleiro, M.G.C. Miguel e M.D.C. Antunes. 2016. Edible coatings enriched with essential oils for extending the shelf-life of 'Bravo de Esmolfe' fresh-cut apples. *International Journal of Food Science and Technology* 51: 87-95. doi:10.1111/ijfs.12949
24. Guerreiro, A.C, C.M.L. Gago, M.L. Faleiro, M.G.C. Miguel e M.D.C. Antunes. 2016. The influence of edible coatings enriched with citral and eugenol on the raspberry storage ability, nutritional and sensory quality. *Food Packaging and Shelf Life* 9: 20–28. doi.org/10.1016/j.fpsl.2016.05.004
25. Gutiérrez, C., Fernández, C., Escuer, M., Campos-Herrera, R., Beltrán Rodríguez, M.E., Carbonell, G., Rodríguez Martín, J.A., 2016. Effect of soil properties, heavy metals

- and emerging contaminants in the soil nematodes diversity. *Environmental Pollution*, 213, 184-194. IF 2015: 4.839 (Top 10, Q1 Environmental Science).
26. Hennis A., Miguel M.G., Brada M., Nemmiche S., Figueiredo A.C. 2016 Composition, chemical variability and effect of distillation time on leaf and fruits essential oils of *Myrtus communis* from north western Algeria. *Journal of Essential Oil Research*, 28: 146-156.
  27. Jaffuel, G., Mäder, P., Blanco-Perez, R., Chiriboga, X., Fließbach, A., Turlings, T.C.J., Campos-Herrera, R. 2016. Prevalence and activity of entomopathogenic nematodes and their antagonists in soils that are subject to different agricultural practices. *Agriculture, Ecosystem and Environment*, 230, 329-340. IF 2015: 3.564 (Top 1, Q1 Agriculture Multidisciplinar)
  28. Jung T, Chang T-T, Bakonyi J, Seress, D, Pérez-Sierra A, Yang X, Hong C, Scanu B, Fu CH, Hsueh K-L, Maia C, Abad-Campos P, León M, Horta Jung M. (2016). Diversity of *Phytophthora* species in natural ecosystems of Taiwan and association with disease symptoms. *Plant Pathology*, in press. DOI: 10.1111/ppa.12564.
  29. Jung T, Orlikowski L, Henricot B, Abad-Campos P, Aday AG, Aguin Casal O, Bakonyi J, Cacciola SO, Cech T, Chavarriaga D, Corcobado T, Cravador A, Decourcelle T, Denton G, Diamandis S, Dogmus-Lehtijärvi HT, Franceschini A, Ginetti B, Glavendekić M, Green S, Hantula J, Hartmann G, Herrero M, Ivic D, Horta Jung M, Lilja A, Keca N, Kramarets V, Lyubenova A, Machado H, Magnano di San Lio G, Mansilla Vázquez PJ, Marçais B, Matsiakh I, Milenkovic I, Moricca S, Nagy Z Á, Nechwatal J, Olsson C, Oszako T, Pane A, Paplomatas EJ, Pintos Varela C, Prospero S, Rial Martínez C, Rigling D, Robin C, Rytkönen A, Sánchez ME, Sanz Ros AV, Scanu B, Schlenzig A, Schumacher J, Slavov S, Solla A, Sousa E, Stenlid J, Talgø V, Tomic Z, Tsopelas P, Vannini A, Vettrano AM, Wenneker M, Woodward S, Pérez-Sierra A (2016). Widespread *Phytophthora* infestations in European nurseries put forest, semi-natural and horticultural ecosystems at high risk of *Phytophthora* diseases. *Forest Pathology*, 46: 134–163. DOI: 10.1111/efp.12239.
  30. Jung, T., Horta Jung, M., Scanu, B., Seress, D., Kovács, D.M., Maia, C., Pérez-Sierra, A., Chang, T.-T., Chandelier, A., Heungens, A., van Poucke, K., Abad-Campos, P., León, M., Cacciola, S.O., Bakonyi, J. (2017). Six new *Phytophthora* species from ITS Clade 7a including two sexually functional heterothallic hybrid species detected in natural ecosystems in Taiwan. *Persoonia* 38: 100-135. DOI: 10.3767/003158517X693615.
  31. Kamatham,N, Mendes, DC, Da Silva, JP, Givens, RS, Ramamurthy, V (2016) Photorelease of Incarcerated Caged Acids from Hydrophobic Coumaryl Esters into Aqueous Solution. *Organic Letters*. DOI: 10.1021/acs.orglett.6b02655
  32. Kergunteuil, A., Campos-Herrera, R., Sánchez-Moreno, S., Vittoz, P., Rasmann, S. 2016. The abundance, diversity, and metabolic footprint of soil nematodes is highest in high elevation alpine grasslands. *Frontiers in Ecology and Evolution*, 4 (84), 1–12. (Impact factor to be determined in 2017).
  33. Lindman B, Medronho B, Karlstrom G (2016) [Clouding of nonionic surfactants](#). *Current Opinion in Colloid & Interface Science*, 22: 23-29. DOI: 10.1016/j.cocis.2016.01.005 .
  34. Magalhães SS, Alves L, Sebastião M, Medronho B, Almeida ZL, Faria TQ, Brito R MM, Moreno MJ, Antunes FE (2016) [Effect of ethyleneoxide groups of anionic surfactants on lipase activity](#). *Biotechnology Progress*, 32: 1276-1282. DOI:10.1002/btpr.2310.
  35. Mateus, M.C.; Neves, D.; Dacunha, B.; Laczko, E.; Maia, C.; Teixeira, R.; Cravador, A. Structure, anti-*Phytophthora* and anti-tumor activities of a norriterpenoid from the rhizome of *Phlomis purpurea* (Lamiaceae), *Phytochemistry* 2016, 131: 158-164, DOI:

- 10.1016/j.phytochem.2016.09.004.
36. Mateus, T., Santo, D., Saúde, C., Pires-Cabral, P., Quintas, C. (2016) The effect of NaCl reduction in the microbiological quality of cracked green table olives of the Maçanilha Algarvia cultivar. *International Journal of Food Microbiology*. 218: 57-65. doi:10.1016/j.ijfoodmicro.2015.11.008
  37. Medronho B, Duarte D, Alves L, Antunes FE, Romano A, Valente AJM (2016) [The role of cyclodextrin-tetrabutylammonium complexation on the cellulose dissolution](#). *Carbohydrate Polymers*, 140: 136-143. DOI: [10.1016/j.carbpol.2015.12.026](#)
  38. Miguel M.G., S. Aazza, M. D. Antunes, M.L. Faleiro, J.G. Barroso L.G. Pedro, A. C. Figueiredo. 2016. Mineral and volatile composition of água-mel from Portugal. *Eur Food Res Technol* 242:171–178. DOI 10.1007/s00217-015-2528-5
  39. Pereira, J.A., S. Ferreira-Dias, L. Dionísio, L. Patarata and T. J. S. Matos. Application of Unsteady-State heat transfer equations to thermal process of Morcela de Arroz from Monchique region, a Portuguese traditional blood sausage. *Journal of Food Processing and Preservation* ISSN 1745-4549. doi:10.1111/jfpp.12870
  40. Rodrigues, B. Lima-Costa, M. E. ., Constantino, A., Raposo, S., Felizardo, Gonçalves, D., Fernandes, T., Dionísio, L. & Peinado, J:M. (2016). Growth kinetics and physiological behavior of co-cultures of *Saccharomyces cerevisiae* and *Kluyveromyces lactis* fermenting carob sugars extracted with whey". *Enzyme and Microbial Technology*. doi: 10.1016/j.enzmictec.2016.06.012.
  41. Rodríguez-Solana, R, Vázquez-Araújo, L, Salgado, JM, Domínguez, JM, Cortés-Diéguez, S (2016) [Optimization of the Process of aromatic and medicinal plant \(AMP\) maceration in grape marc distillates to obtain herbal liqueurs and spirits](#). *Journal of the Science of Food and Agriculture*, 96: 4760-4771. DOI: 10.1002/jsfa.7822
  42. Santo, D., Graça, A., Nunes, C., Quintas, C. (2016) Survival and growth of *Cronobacter sakazakii* on fresh-cut fruit and the effect of UV-C illumination and electrolyzed water in the reduction of its population. *International Journal of Food Microbiology*. 231 10-15. doi:10.1016/j.ijfoodmicro.2016.04.023
  43. Xavier, A., Costa Freitas, M. B. & Fragoso, R. (2016) "An integrated decision support system for the Mediterranean forests" *Land Use Policy*, in press.
  44. Xavier, A., Freitas, M. B. & Antunes, C. (2016) "The water surfaces' ecosystem services and the opinion of different stakeholders: an approach based on goal programming" *International Journal of Management and Decision Making* 15(2), p. 184- 204. doi: [10.1504/IJMDM.2016.077771](#)

#### **Books and book chapters (2016)**

1. Alves, M., Quintas, C. (2016) Traditional green table olives from the south of Portugal. In Kristbergsson, K., Oliveira, J. (eds), *Traditional Foods - General and Consumer Aspects, Integrating Food Science and Engineering Knowledge Into the Food Chain 10*. Springer. ISEKI Food Series Volume 10, pp 367-375. Springer US New York. DOI 10.1007/978-1-4899-7648-2\_30; Print ISBN 978-1-4899-7646-8; Online ISBN 978-1-4899-7648-2,

2. Campos-Herrera, R., Lacey, L. 2016. Methods for studying the ecology of invertebrate diseases and pathogen. In: A.E. Hajek and D. Shapiro-Ilan (Eds. ), Ecology of invertebrate diseases, Wiley (Accepted)
3. Cruz, R.M.S. and Vieira, M.C. (Editors). 2016. Mediterranean Foods: Composition and Processing. Science Publishers and CRC Press, Boca Raton, USA.
4. Duarte, A., Carvalho, C. & Miguel, G. 2016. Bioactive Compounds of Citrus as Health Promoters. In: Silva, L. & Silva, B. (Ed.). Natural Bioactive Compounds from Fruits and Vegetables as Health Promoters, Bentham Science Publishers, Vol. 1, 29-97. DOI: [10.2174/97816810823941160101](https://doi.org/10.2174/97816810823941160101)

#### **Papers in technical and other non-indexed journals (2016)**

Duarte, A.M.M. 2016. Situação e Perspectivas da Fruticultura do Algarve. Frutas, Legumes e Flores, 168 (Outubro de 2016):8.

Reis, M. 2016. Os compostos no controlo de doenças das plantas. Revista de Ciências Agrárias, 39(1): 25-35. (doi.org/10.19084/RCA15111).

Reis, M. 2016. Cultivos sem solo: o que fazer com a drenagem. Voz do Campo, 192: 10-11.

Xavier, A., Costa Freitas, M. B. & Fragoso, R., Socorro Rosário, M., (2016). Disaggregating statistical data at field level: an entropy approach. CEFAGE-UE Working Paper 2016/06.

#### **Papers in congress proceedings (2016)**

Fernandes, J.; Gonçalves, G. & Duarte, A. 2016. Sustentabilidade ambiental e humana da produção de alimentos: uma análise comparativa entre agricultura biológica e convencional. Actas Portuguesas de Horticultura 25: 158-163. ISBN: 978-972-8936-18-1

Pacheco, P. & Duarte, A. 2016. Caracterização da rebentação da tangerineira 'Setubalense' em anos de safra e de contrassafra. Actas Portuguesas de Horticultura 25: 43-49. ISBN: 978-972-8936-18-1. <http://hdl.handle.net/10400.1/8638>

#### **Publications 2015**

##### **Papers in indexed journals (sci)**

1. Alves, L.; Medronho, B.; Antunes, F. E.; Romano, A.; Miguel, M.G.; Lindman, B. "On the role of hydrophobic interactions in cellulose dissolution and regeneration: colloidal aggregates and molecular solutions" Colloids and Surfaces A: Physicochemical & Engineering Aspects, 2015, 140, 136-143. doi: 10.1016/j.colsurfa.2015.03.011
2. Alves, L.; Medronho, B.; Antunes, F.E.; Fernández-García, M.P.; Ventura, J.; Araújo, J.P.; Romano, A.; Lindman, B. "Unusual extraction and characterization of nanocrystalline cellulose from cellulose derivatives" Journal of Molecular Liquids, 2015, 210, 106-112. doi: 10.1016/j.molliq.2014.12.010
3. Alves, M., Esteves, E., Quintas, C. (2015) Effect of preservatives and acidifying agents on the shelf life of packed cracked green table olives from Maçanilha cultivar. Food Packaging and Shelf Life, 5: 32-40. <http://dx.doi.org/10.1016/j.fpsl.2015.05.001>.
4. Brito, L.M., Reis, M., Mourão, I., Coutinho, J. 2015. Use of Acacia waste compost as an alternative component for horticultural substrates. Communications in Soil Science and Plant Analysis, 46: 1814-1826. (doi.org/

10.1080/00103624.2015.1059843)

5. Butenko, N, Pinheiro, JP, Da Silva, JP, Tomaz, AI, Correia, I, Ribeiro, V, Pessoa, JC, Cavaco, I (2015) The effect of phosphate on the nuclease activity of vanadium compounds. *Journal of Inorganic Biochemistry*, 147, 165-176. DOI: 10.1016/j.jinorgbio.2015.04.010.
6. Campos-Herrera R, El-Borai FE, Duncan LW (2015) Modifying soil to enhance biological control of belowground dwelling insects in citrus groves under organic agriculture in Florida. *Biological Control*, 84: 53-63. DOI 10.1016/j.biocontrol.2015.02.002
7. Campos-Herrera R, Jaffuel G, Chiriboga X, Blanco-Pérez R, Fesselet M, Půža V, Mascher F, Turlings TCJ (2015) Traditional and molecular detection methods reveal intense interguild competition and other multitrophic interactions associated with native entomopathogenic nematodes in Swiss tillage soils. *Plant and Soil*, 389: 237-255. DOI 10.1007/s11104-014-2358-4
8. Campos-Herrera R, Půža V, Jaffuel G, Blanco-Pérez R, Čepulytė Rakauskienė R, Turlings TCJ (2015) Unraveling the intraguild competition between *Oscheius* spp. nematodes and entomopathogenic nematodes: implications for their natural distribution in Swiss agricultural soils. *Journal of Invertebrate Pathology*, 132: 216-227. DOI 10.1016/j.jip.2015.10.007
9. Carvalho, CP, Dominguez, Z, Da Silva, JP, Pischel, U (2015) A supramolecular keypad lock. *Chemical Communications*, 51, 2698-2701. DOI: 10.1039/C4CC09336D.
10. Cortés-Diéguez, S, Rodríguez-Solana, R, Domínguez, J M, Díaz, E (2015) Impact odorants and sensory profile of young red wines from four Galician (NW of Spain) traditional cultivars. *Journal of the Institute of Brewing*, 121(4): 628-635. DOI: 10.1002/jib.252
11. Costa P., Medronho B., Gonçalves S. & Romano A. 2015. Cyclodextrins enhance the antioxidant activity of essential oils from three Lamiaceae species. *Industrial Crops and Products*, 70: 341–346. Doi: 10.1016/j.indcrop.2015.03.065
12. Custódio L., Patarra J. Alberício F., Neng N.R., Nogueira J.M. F. & Romano A. 2015. In vitro antioxidant, antidiabetic and neuroprotective activities of water decoctions of carob tree (*Ceratonia siliqua* L.) on cholinesterases,  $\alpha$ -amylase and  $\alpha$ -glucosidase. *Natural Product Research*, 29: 2155-2159. Doi: 10.1080/14786419.2014.996147
13. Custódio L., Patarra J. Alberício F., Neng N.R., Nogueira J.M. F. & Romano A. 2015. Phenolic composition, antioxidant potential and in vitro inhibitory activity of leaves and acorns of *Quercus suber* on key enzymes relevant for hyperglycemia and Alzheimer disease. *Industrial Crops and Products*, 64: 45–51. DOI: 10.1016/j.indcrop.2014.11.001
14. Ebadzad G, Medeira C, Maia I, Martins J, Cravador A (2015). Induction of defence responses by cinnamomins against *Phytophthora cinnamomi* in *Quercus suber* and *Quercus ilex* subs. *rotundifolia*. *European Journal of Plant Pathology*, 143: 705-723. DOI: 10.1007/s10658-015-0721-9.
15. Farzaneh V and Carvalho I S (2015). A review of the health benefit potentials of herbal plant infusions and their mechanism of actions. *Industrial Crops and Products* 65: 247-258. DOI: 10.1016/j.indcrop.2014.10.057
16. Gago CML, Guerreiro AC, Miguel G, Panagopoulos T, Sánchez, C, Antunes MDC (2015) Effect of harvest date and 1-MCP (SmartFresh™) treatment on 'Golden Delicious' apple cold storage physiological disorders. *Postharvest Biology and Technology*, 110: 77–85. Doi: 10.1016/j.postharvbio.2015.07.018
17. Gonçalves S., Grevenstuk T., Martins N. & Romano A. 2015. Antioxidant activity and



- verbascoside content in extracts from two unexplored endemic *Plantago* spp. *Industrial Crops and Products*, 65: 198–202. DOI: 10.1016/j.indcrop.2014.12.011
18. Graça, A., Santo, D., Esteves, E., Abadias, M., Nunes, C., Quintas, C. (2015) Evaluation of microbial quality and yeast diversity in fresh-cut apple. *Food Microbiology*, 51: 179-185. <http://dx.doi.org/10.1016/j.fm.2015.06.003>
  19. Grevenstuk T., Moing A., Maucourt M., Deborde C. & Romano A. 2015. Aluminium stress disrupts metabolic performance of *Plantago almogravensis* plantlets transiently. *BioMetals*, 28: 997–1007. DOI: 10.1007/s10534-015-9884-
  20. Guerreiro AC, Gago CML, Faleiro ML, Miguel MGC, Antunes MDC (2015) Raspberry fresh fruit quality as affected by pectin- and alginate-based edible coatings enriched with essential oils. *Scientia Horticulturae*, 194: 138–146.
  21. Guerreiro AC, Gago CML, Faleiro ML, Miguel MGC, Antunes, MDC (2015) The effect of alginate based edible coatings enriched with essential oils constituents on *Arbutus unedo* L. fresh fruit storage. *Postharvest Biology and Technology* 100: 226-233. DOI: 10.1016/j.postharvbio.2014.09.002
  22. Jagadesan, P, Da Silva, JP, Givens, R, Ramamurthy, V (2015) Photorelease of Incarcerated Guests in Aqueous Solution with Phenacyl Esters as the Trigger. *Organic Letters*, 17, 1276–1279. DOI: 10.1021/acs.orglett.5b00252.
  23. Lindman, B.; Medronho, B. "The subtleties of dissolution and regeneration of cellulose: Breaking and making hydrogen bonds" *BioResources*, 2015, 10, 3811-3814. doi: 10.15376/biores.10.3.3811-3814
  24. Lindman, B.; Medronho, B.; Theliander, Hans. "Editorial: Cellulose dissolution and regeneration: systems and interactions" *Nordic Pulp & Paper Research Journal*, 2015, 30, 1-2. doi: 10.3183/NPPRJ-2015-30-01-p002-003
  25. Medronho, B. and Lindman B. "Brief overview on cellulose dissolution/regeneration interactions and mechanisms" *Advances in Colloid and Interface Science*, 2015, 222, 502-508. doi: 10.1016/j.cis.2014.05.004
  26. Medronho, B.; Duarte, D.; Alves, L.; Antunes, F.E.; Romano, A.; Lindman, B. "Probing Cellulose Amphiphilicity" *Nordic Pulp & Paper Research Journal*, 2015, 30, 58-66. doi: 10.3183/NPPRJ-2015-30-01-p058-066
  27. Melo, J., Andrew, P. W., Faleiro, M. L. (2015). *Listeria monocytogenes* in cheese and the dairy environment remains a safety food challenge: The role of stress responses. *Food Research International*, 67: 75-90. <http://dx.doi.org/10.1016/j.foodres.2014.10.031>
  28. Mendes, DC, , Da Silva, JP (2015) Identification of Guest–Host Inclusion Complexes in the Gas Phase by Electrospray Ionization–Mass Spectrometry. *Journal of Chemical Education*, 92, 1091–1094. DOI: 10.1021/ed5009206.
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### **Books and book chapters (2015)**

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2. Campos-Herrera R, El-Borai FE, Duncan L (2015) It takes a village: entomopathogenic nematode community structure and conservation biological control in Florida (US) orchards, in: Campos-Herrera R. (Ed.), Nematode pathogenesis of insects and other pests - ecology and applied technologies for sustainable plant and crop protection. Series: Sustainability in Plant and Crop Protection., A. Ciancio (series Ed.). Vol 1, Springer International Publishing Switzerland, pp. 327-349. DOI 10.1007/978-3-319-18266-7\_10
3. Campos-Herrera, R. (Ed.). 2015. Nematode pathogenesis of insects and other pests - ecology and applied technologies for sustainable plant and crop protection. Series: Sustainability in Plant and Crop Protection., A. Ciancio (series Ed.). Vol 1, Springer, Springer International Publishing Switzerland, 530 pp. ISBN 978-3-319-18265-0, DOI 10.1007/978-3-319-18266-7.
4. Jesus, L, Anibal, J., Ratão, I & Esteves, E. (2016). Short-Term Maintenance of Depurated Clams: A Preliminary Modelling Experiment in: Romalde, J.L. (Ed.) Oysters and Clams: Cultivation, Habitat Threats and Ecological Impact. Nova Science Publishers, Inc. ISBN: 978-1-63485-074-2
5. Piedra Buena A, López-Cepero J, Campos-Herrera R (2015) Entomopathogenic nematode production and application: regulation, ecological impact and non-target effects. in: Campos-Herrera R. (Ed.), Nematode pathogenesis of insects and other pests - ecology and applied technologies for sustainable plant and crop protection. Series: Sustainability in Plant and Crop Protection., A. Ciancio (series Ed.). Vol 1, Springer International Publishing Switzerland, pp.253-280. DOI 10.1007/978-3-319-18266-7\_10.
6. Ramaraj Sathasivam, S Hemaiswarya, R Raja, V Ganesan, C.Anbazhagan, Isabel S Carvalho and Niran Juntawong (2015). 'Microalgae as an Attractive Source for Biofuel Production' in Environmental Sustainability - Role of green technologies. Edited by P. Thangavel and G. Sridevi, Springer Publishers. DOI 10.1007/978-81-322-2056-5\_8.
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### **Papers in congress proceedings (2015)**

1. Antunes MDC, Miguel MG, Panagopoulos T (2015) The Effect of 1-MCP Applied at Different Harvest Times on Storage Ability of 'Hayward' Kiwifruit. Acta Horticulturae, 1096: 287-294.
2. Correia P.J., Lopes D., Duarte A., Gama F., Saavedra T., & Pestana M. 2015. Is there a Relationship between Ferric-Chelate Reductase Activity in Roots of Poncirus trifoliata and Leaf Chlorophyll Contents? Acta Horticulturae (ISHS) 1065 (vol. 1):373-377. DOI: 10.17660/ActaHortic.2015.1065.46
3. Guerreiro A, Gago C, Faleiro ML, Miguel G, Antunes MD (2015) Alginate edible Coatings Enriched with Citral for Preservation of Fresh and Fresh-Cut Fruit. Acta Horticulturae, 1091: 37-44.
4. Salazar, M., Lourenco, A., Graça, A., Quintas, C., Nunes, C. (2015) Fate of Foodborne Pathogens in Minimal Processed Orange and Reduction of Their Growth Using UV-C

Illumination. Acta Horticulturae 1065: 1613-1619. <http://dx.doi.org/10.17660/ActaHortic.2015.1065.206>

#### **Papers in technical and other non-indexed journals (2015)**

1. Duarte, A.. 2015. Uma laranja com sangue dentro? Jornal Público. ISSN 0872-1548 (29-05-2015)
2. Duarte, A.M.M. 2015 Notas sobre a Aplicação de Reguladores de Crescimento na Citricultura Portuguesa. Agrotec, 15:52-56.
3. Reis, M. 2015. Utilização da drenagem dos cultivos sem solo na rega de outras culturas: a perversidade da legislação. Revista da APH (118): 29-32. [http://www.aphorticultura.pt/uploads/4/8/0/3/48033811/revista\\_aph\\_n118.pdf](http://www.aphorticultura.pt/uploads/4/8/0/3/48033811/revista_aph_n118.pdf)

#### **Post Graduate students in the period 2015-2016**

##### **Completed PhD thesis**

1. Dina João Pacheco das Neves: "Evaluation of the protective effect of Phlomis purpurea against Phytophthora cinnamomi in Fagaceae and of root metabolites involved". 2015, UAlg.- Orientação: A Cravador
2. Ludovina Rodrigues Galego Bebidas espirituosas do Algarve". 2016. UAlg. Orientação: J P Silva
3. Adriana Cavaco Guerreiro com o tema "Innovative edible coatings to improve storage of small fruits and fresh-cut". 2016. UAlg. Supervisor MD Antunes
4. Susana Anahi Dandlen. "Aplicações biotecnológicas do suppressor de silenciamento de Cucumber mosaic virus. 2016, UAlg. Supervisors: G Nolasco and MG Miguel.
5. Ana Isabel Mimoso Tomás Anastácio (2015) Antioxidant and Phenolic Compounds In Sweet Potato Peels And Leaves: Food Applications And Health Benefits. PhD in Biotechnological Sciences, University of Algarve, Portugal (Supervisor: Isabel Saraiva de Carvalho).
6. Ricardo Jorge dos Santos Nunes (2016) – Design de Microcápsulas de Arbutus unedo (folhas, frutos e flores) por Spray Drying para Suplementos e Alimentos Funcionais. PhD in Biotechnological Sciences, University of Algarve, Portugal (Supervisor: Isabel Saraiva de Carvalho). SFRH/BDE/51888/2012
7. Vahid Farzaneh (2016) Development of the nutraceutical and pharmaceutical applications of plants selected from Portugal and Iran with presumptive health potentials. PhD in Biotechnological Sciences, University of Algarve, Portugal (Supervisor: Isabel Saraiva de Carvalho). Erasmus Program SALAM

##### **Completed MsC dissertations**

1. Elena Lorenzo. Interlaboratory comparisons in the analysis of new reference materials", Erasmus Mundus EMQAL. 2016. Orientação J P Silva
2. Pedro Filipe Marreiros Pacheco Caracterização e controlo da alternância em tangerineira 'Setubalense'. Mestrado em Hortofruticultura. Universidade do Algarve. 2015. Orientação: A Duarte
3. Rúben Filipe Corvo Teixeira. Isolamento e purificação do nortriterpeno phlomisipurpentaolone a partir de raízes de Phlomis purpurea e determinação da sua actividade citotóxica nas linhas celulares HeLa e L929. 2015, UAlg. Orientação: A Cravador

4. Elsa Moreira (2015) Estudo de plantas silvestres comestíveis da região mediterrânica como fontes de compostos bioativos. Master in Biological Engineering, University of Algarve, Portugal (Supervisor: Anabela Romano; Co-supervisor: Sandra Gonçalves).
5. Joana Medronho (2015) Avaliação da atividade biológica e teor em fenóis de diferentes extratos de palmeira anã (*Chamaerops humilis* L). Master in Biological Engineering, University of Algarve, Portugal (Supervisor: Anabela Romano; Co-supervisor: Sandra Gonçalves).
6. Duarte Vairinhos Marinho (2016) Desenvolvimento e caracterização de hidrogéis físicos e químicos a partir de polissacarídeos naturais. Master in Biological Engineering, University of Algarve, Portugal (Supervisor: Anabela Romano; Co-Supervisor: Bruno Medronho).
7. Daniela Pedro Lourenço (2016) Antioxidant and antidiabetic properties of medicinal plant infusions. Master in Biological Engineering, University of Algarve, Portugal (Supervisor: Isabel Saraiva de Carvalho).
8. Eva Cristina Ferreira Fortunato (2016) Doença de Alzheimer: análise in vitro da atividade antioxidante e anticolinesterásica de cinco extratos de plantas da região do Algarve. Master in Pharmaceutical Sciences, University of Algarve, Portugal (Supervisor: Isabel Saraiva de Carvalho).
9. Adriano Emanuel Costa Martins of with subject "Edible coatings for preservation of 'Bravo de Esmolfe' apple minimally processed". Master in Horticulture by Universidade do Algarve The student defended his thesis in 2015.
10. Master in Quality management and agro-food marketing by Universidades do Algarve and Évora (joint master) of Nívia Vieira with subject "Nutritional and microbiological quality of sausage handmade produced in Cabo Verde". The student defended her thesis in 2015.
11. Master in Quality management and agro-food marketing by Universidades do Algarve and Évora (joint master) of Andreia Martins with subject "Effect of cooling delay in the postharvest quality of raspberries". The student defended her thesis in 2015.
12. Master in Food Technology, ISE/ University of Algarve of Vera Lúcia da Conceição Duarte Alves whose research topic is "Development and characterization of food packaging systems with microencapsulation of natural agents with antioxidant and antimicrobial properties: Application in food preservation". The student defended her thesis in 2015.
13. Master in Food Technology, ISE/ University of Algarve of Bruna Rico whose research topic is "Development and characterization of food packaging systems with microencapsulation of natural agents with antioxidant and antimicrobial properties: Kinetics of release of natural compounds". The student defended her thesis in 2015.
14. Master in Food Technology, ISE/ University of Algarve of Romilson Fernando Brito, whose research topic is "Integrated valorisation of residuals and sub-products of olive oil".The student defended his thesis in 2016.
15. Master in Biologia Molecular e Microbiana of FCT/ University of Algarve, Ana Margarida Castro whose research topic is "Development and optimization of a biological film based on a legume protein" The student defended her thesis in 2016.
16. Mestrado em Tecnologia de Alimentos, ISE UALG de Marta Miranda. Implementação de um Sistema HACCP numa adegas. Concluído em 2015.
17. Mestrado em Tecnologia de Alimentos, ISE UALG de Viviana Machado. Sistemas de

Gestão da Segurança Alimentar: Comparação entre as normas EN NP ISO 22000, BRC e IFS. Concluído em 2016.

18. Mestrado em Tecnologia de Alimentos, ISE UALG de Luci de Jesus. Implementação da Norma NP EN ISO 22000:2005 em centros de depuração de bivalves: estudo de caso. Concluído em 2016. Mestrado em Tecnologia de Alimentos, ISE UALG de

#### **On-going PhDs**

1. Norberto Guilenge. Obtenção de novas variedades de ervilha (Pisum sativum L.) resistentes ao oídio (Erysiphe pisi Syd.) pela associação das ciências Omics aos métodos clássicos de melhoramento. PhD Ciências agrárias e ambientais. UALG. Orientação J Leitão
2. Débora Sara da Costa Mendes. "Supramolecular Chemistry of Bio-active Molecules ". Orientação JP Silva
3. Florinda Gama. Iron trafficking and signalling in strawberry plants. Programa doutoral em Ciências Agrárias da Universidade do Algarve. Coorientação: Maribela Pestana, Gustavo Nolasco.
4. Francisco Angel Bueno Pallero (Expected 2018) PhD Agronomy "The entomopathogenic fungi from Algarve region (Portugal) and their interaction with other entomopathogenic agents: implications in the potential employ as biocontrol agents". Faculty of Sciences and Technology, University of Algarve (Portugal) Advisors: L. Dionísio and R. Campos–Herrera (In progress).
5. Geoffrey Jaffuel, June 30th 2016. PhD Chemical Ecology "Enhancing the use of entomopathogenic nematodes for biological control of root pests: from field persistence to improved self-life". Faculty of Sciences, University of Neuchâtel (Switzerland) Advisors: T.J.C. Turlings and R. Campos–Herrera.
6. Nelson Guerreiro Mendes de Sousa, "Análise proteómica de Quercus suber e do papel das cinamominas na infecção radicular por Phytophthora cinnamomi" . Orientação: A Cravador
7. Xavier Chiriboga (Expected 2017) PhD Chemical Ecology. "Entomopathogenic nematodes associated with Swiss agricultural soils: improving soil health by integrating soil and chemical ecology approaches". Faculty of Sciences, University of Neuchâtel (Switzerland). Advisors: T.J.C. Turlings and R. Campos–Herrera (In progress).
8. Poonam Singh, "Cellulose based micro and macrobeads for probiotic bacteria encapsulation" University of Coimbra (Co-Supervisor: Bruno Medronho)
9. Rita dos Reis Andrade Reclaiming semi-arid forest landscapes using decision support tools, referência SFRH/BD/89071/2012, Programa Doutoral em Gestão da Inovação e do Território, da Faculdade de Economia da Universidade do Algarve. (Coorientação Carlos Guerrero)
10. Luísa Coelho, Controlo biológico de doenças do solo em plantas cultivadas, através da utilização de compostos de resíduos orgânicos enriquecidos com antagonistas, referência SFRH/BD/109218/2015, Universidade do Algarve. (Coorientação: Mários Reis e Lúcia Dionísio).

#### **On-Going MsCs**

Flávio Abreu. Expression of Blad protein in Nicotiana benthamiana through a tobacco rattle virus vector. (Mestrado em Eng<sup>a</sup> Biológica)

Joana Isabel Reis Silveira. Uma proposta de roteiro para a alfarroba no Algarve. Mestrado em Arquitetura Paisagista. Co-orientação Pedro Correia, Desidério Baptista. Universidade do Algarve

## Research projects

Project nº 38881-SGREEN - “Sistema de gestão inteligente integrada da rega em tempo real”, funded by the Fundo Europeu de Desenvolvimento Regional (FEDER), through the Programa Operacional Algarve 21. Global Coordinator: Jorge Luz (Itelmatis CEO); Coordenador Universidade do Algarve: Carlos Guerrero

De janeiro a julho de 2015 – projeto nº 30307 – “Multivalor” do Programa operacional Algarve 21 – QREN. Otimização de um processo de produção de aguardente de alfarroba – Dissertação de mestrado cuja parte experimental decorreu em 2015 e contou com a parceria da Destilaria de Luís Sequeira, em Silves.

CHOCORROBA Projeto n.º 4.989 - aprovado no âmbito do Aviso de Concurso n.º 12/SI/2015 – I&DT Empresarial (Vale I&D). Promotor: Empresa VOLTARION UNIPESAOAL LDA

Projeto “Barra Energética de Querença – BEQ”, detentor do Pedido de Registo de Marca n.º 549.974, resultante no Acordo de Partilha e Licenciamento de Resultados de Investigação entre a Proactivetur e a Universidade do Algarve, datado de 01 de Junho de 2015.

InoFolar - Valorização do Folar de Olhão. Vale - Projeto Simplificado SI À QUALIFICAÇÃO E INTERNACIONALIZAÇÃO DE PME. PROGRAMA ESTRATÉGICO +E+I. Promotor: Empresa João Mendes & Rita, Lda.

Projeto “Medronhito do Caldeirão” que resulta da interação com a empresa com o mesmo nome. L. Galego e I. Ratão.

Fev.2014-Fev.2016: Projeto FIGO-DA ÍNDIA - Contrato nº 46808 – “Cooperação para a Inovação no Figo-da-Índia: fruto desidratado”, financiado pelo PRODER medida 4.1 – Cooperação para a Inovação. Responsável: Centro de Excelência para a Valorização dos Recursos Mediterrânicos (sediado em Almodôvar). Parceiros: UAlg, INIAV, Doces Candeias.

Nov. 2014- Nov. 2017: Projeto MEDRONHO - Contrato nº 53109 – “Melhoramento da espécie e valorização do medronheiro”, financiado pelo PRODER medida 4.1 – Cooperação para a Inovação. Responsável: Empresa GreenClone. Parceiros. INIAV, escola superior agrária de coimbra, UAlg.

Otimização do Processo de Valorização de Resíduos de Construção e Demolição por Caracterização Mecânica, Física, Química e Ambiental”, QREN Multivalor nº 30307, projeto financiado pelo Quadro de Referência Estratégico Nacional (QREN), Finalizado em 2015

PTDC/AGR-ALI/121085/2010- INNCOAT - Innovative edible coatings to improve storage of small fruit and fresh-cut. Responsável Universidade do Algarve.

PTDC/AGR-TEC/4814/2014, “On the Track of Ecological Textile Fibers: From Cellulose-Based Agroflorestal Resources to New Added Value Materials.” (Principal Researcher) 2016-2019

Biopolymer Based Food Delivery Systems—BIBAFODDS Initial Training Network, FP7-PEOPLE-2013 programme (member of the research team) 2014-2018

AvanCell 3 (Södra’s Research Foundation) “In depth studies of cellulose solutions and coagulation processes” (Collaborator), 2013-2016

“Primera Aproximación al Estudio para la Adecuación Ecológica de los Campos de Golf de Andalucía Occidental y El Algarve Portugués en un contexto de Sostenibilidad y Cambio Climático”, funded by the Subvención/es para el Fomento de la Cooperación entre la Comunidad de Andalucía y las Regiones de Algarve y Alentejo, Convocatoria 2014. Junta de Andalucía.

Janeiro 2012 - Dezembro 2015

Título do projecto: CORNUCOPIA - Caracterización y evaluación funcional y de seguridad de compuestos bioactivos de frutas iberoamericanas como ingredientes alimentarios. (112RT0460)

Entidade financiadora: CYTED

10/07/2013-09/08/2017

Título do projecto: RED-MIFRUT - Red interdisciplinaria de manejo integrado de plagas y enfermedades de frutales de hueso, peral y cítricos con enfoque en el intercambio de conocimientos, la innovación y la transferencia de tecnología. (112RT0462). Entidade

financiadora: CYTED

“Responses of European Forests and Society to Invasive Pathogens” (RESIPATH). Referência: Biodiversa/0002/2012. Programa: FP7 ERA-NET–BiodivERsA2.

Transport of iron in plants: Novel approaches to an old problem. Improved iron mobility and development of new fertilizer clipping extracts . PTDC/AGR-PRO/3861/2012. (concluído)