

# Curriculum Vitae



## 1. PERSONAL DATA

Maria do Rosário Beja de Figueiredo Gonzaga  
Bronze

Born 08 October 1962 in Lisbon, married, two sons

### ***Institutional Address:***

Faculty of Pharmacy, Lisbon University (FFULisboa), Av. Professor Gama Pinto, 1649-003Lisboa  
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## 2. EDUCATION

***Diploma in Pharmaceutical Sciences*** Faculty of Pharmacy, University of Lisbon, 1986.

***PhD Pharmaceutical Sciences*** Faculty of Pharmacy, University of Lisbon, April, 1999.

## 3. APPOINTMENTS

***2016 to date:*** responsible for the Food Functionalities and Bioactives Laboratory at ITQB, Tecnology Division.

***2015 to date:*** Member of iNOVA4Health, IBET.

***2014 to date:*** Member of the Scientific Council of F3 College, Lisbon University.

***2012 to date:*** ***Associate Professor*** at FFUL, ***Head of DCTB (Toxicological and Bromatological Sciences Department,*** Faculty of Pharmacy, University of Lisbon), ***Responsible*** for the Mass Spectrometry and Liquid Chromatography (Faculty of Pharmacy, University of Lisbon).

***2010 to date:*** Auditor from IPAC: technical expert.

***2007 to date:*** ***Co-Responsible*** for the RNEM node (Rede Nacional de Espectrometria de Massa) at Faculty of Pharmacy, University of Lisbon. ***Colaborator*** at iMED, Faculty of Pharmacy, University of Lisbon.

## 4. MAJOR RESEARCH INTERESTS

The main goal of Research are focused on Analytical Chemistry applied to the study of food components and food digestion and bioavalilability. Separation techniques as liquid and gas chromatography in tandem with mass spectrometry and other detection methods are used to study food (fruits and related

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products as juices, wines, spirits, olive oil, olives, cereals) and related products composition (e.g. cork and food industries by-products). The compounds studied are responsible for bioactivity (e.g. phenolic compounds) and/or organoleptic characteristics (as volatile compounds) or are contaminants (mycotoxins). The same methodologies are used to evaluate the effect of digestion and the bioavailability of food components in humans (*in vitro* and *in vivo* studies), in biological samples (urine, plasma). Most work is performed in collaboration with food industries.

### 5. ROLE IN RESEARCH PROJECTS

**Team Member** (since 1997) 15 funded projects, Portugal; 1 funded by EU.

Participation in projects financed by the food industry (fruit juice, olive oil and cork industries).

Most recent projects financed by EU or FCT:

**2009-2012: QREN: “Azeite+Global”**,. Promotor: Sovena, S.A.

**2010-2013: PTDC/AGR-AAM/099645/2008: BioNIO-** Bioactive Natural Ingredients from *Opuntia* spp.. Valorisation of plants from Alentejo... ITQB

**2010-2013: PTDC/AGR-ALI/099285/2008: Moxi-** Exploiting antioxidants, flavours and aromas diversity on 'broa' bread maize breeding.. ITQB

**2010-2013: PTDC/AAC-AMB/108303/2008: Fungi Watch:** Benefits and hurdles associated with the presence of fungi in drinking water sources.. IBET

**2010-2015: SOLIBAM “Strategies for Organic and Low-input Integrated Breeding and Management”**(), FP7. Instituto de Tecnologia Química e Biológica. WP7: “Effects of, and interaction between, crop genotypes management innovations on crop nutritional, organoleptic and end-use quality”

**2012–2016: PTDC/AGR-TEC/3790/2012: Nutrabrass -** Nutraceuticals from Brassicaceae: High Pressure Processing of Cruciferous food plants to recover biologically active ingredients with health promoting effects.. IBET

**2014-2017: LEGATO–** LÉgumes for the Agriculture of Tomorrow. WORK PACKAGE 4 LEADER **Maria Carlota Vaz Patto** (“Defining traits adapted to consumers’ expectations”) and TASK LEADER in WP2 (Novel sources of resistance to pests and diseases) (FP7-KBBE-2013-7) Close collaborations established within this project with Museu do Pão (J. Loureiro, H. Simões and A. Quaresma) and Fertiprado (A. Barradas and J.P. Crespo) Portuguese Industries. Coordinated by Richard Thompson (INRA, France). Co-funded by the European Commission - FP7 Framework Programme.

**2015-2018: TreatAfterToo** – Targeting the elimination of antineoplastic compounds in hospital wastewaters: Novel frontiers in sustainable treatment – ERA-NET INNO INDIGO Joint Call on Clean Water and Health; Total project funding: 748.184,00€; Proposing institution: Instituto de Biologia Experimental e Tecnológica, Oeiras, Portugal..

**2015-2018: DIVERSIFOOD** – Embedding crop diversity and networking for local high quality food systems. (Call H2020-SFS-2014-2, Topic SFS-07a-2014). Coordinated by Véronique Chable (INRA, France). Co-funded by the European Commission – H2020 Programme.

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**2016-2018:** Deciphering the grass pea (*Lathyrus sativus*) quality riddle. How can the omics technologies contribute to a demand-driven improvement in legume quality? (**Qualaty**) Project coordinator Maria Carlota Vaz Patto (PTDC/AGR-TEC/0992/2014). Funded by FCT - Fundação para a Ciência e a Tecnologia.

### **6. ACADEMIC ACTIVITY**

#### **SUPERVISION**

##### **PhD thesis:**

**2002-2008:** Bravo, Nubélia, "Caracterização Química e Funcional de Vinhos Moscatel Portugueses" ("Chemical and functional characterization of Portuguese Licourous Moscatel wines"), (supervisor) Faculty of Pharmacy, University of Lisbon.

**2011-2015:** Ana Raquel Sitoé, (SFRH/BD/51458/2011) "Electrospray ionization-triple quadrupole mass spectrometry studies of antimalarials that target the mitochondrial electron transport chain" (co-supervisor) Faculty of Pharmacy, University of Lisbon.

**2011-2016:** Madalena Bettencourt: "Chemical characterization and evaluation of biological activity of raspberry (*Rubus idaeus*L.). Contribution to the implementation of a health claim" (co-supervisor) Faculty of Pharmacy, University of Lisbon.

**2012-....:** Sandra Diniz da Silva. "Virgin olive oil: Contribution to the study of phenolic compounds and their biological activity". Faculty of Pharmacy, University of Lisbon.

**2012-... :** Elsa Mecha, (SFRH/BD/89287/2012). "Phaseolus vulgaris L.: contribuição para a valorização de variedades Portuguesas", ITQB.

**2012- ....** Cátia M.M. Peres, (SFRH /BD/81997/2011) "Characterization of probiotic strains of the epiphytic microflora of fresh olives: towards a new functional food", ITQB.

**2012- ....** Cátia Carmo (SFRH/BDE/51856/2012) "Nanotechnology put in use for the development of added-value beverages". IBET/Compal

**2014-.....** Agostinho Alexandre (SFR/BD/52532/2014) "Potential of *Arbutus unedo* as a source of high-added value bioactives: a biorefinery approach". ITQB.

- Responsible for short training courses (1-3 months) of 5 Tunisian students and 1 Spanish PhD students.

#### **TEACHING Activities**

Pos-graduation teaching activities (Master Courses) at Faculty of Pharmacy, University of Lisbon (FFULisboa) teaching Instrumental Methods of Analysis, Sensory Evaluation of Foods (responsible) and Laboratory Organization. Graduation at Faculty of Pharmacy, University of Lisbon. Supervision of under graduate students in research work (Project discipline).

### **7. OTHER CV HIGHLIGHTS**

- (i) Seminars: Responsible for the organization of seminars for the food industry.

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(ii) Publications: 49 published papers in international peer reviewed journals and in national peer reviewed journals; 5 book chapter. 1 Patent.

(iii) More than 100 posters presented in international and national scientific meetings. Awarded with a best poster prize.

(iv) Reviewer in international peer review journals (6).

(v) Prizes:

Team participation:

"Nutrition Awards" promoted by the Portuguese Association of Nutritionists:

2011: First prize category of "Innovation and Development of Products and Services", project: "Extracto de cereja obtido por Tecnologia supercrítica – um agente quimioterapêutico natural para o cancro do colon".

2012: 1st Honorable Mention category of "Research and Development" with the project "Bravo de Esmolfe – an apple with a beneficial effect in cardiovascular health"

2013: innovation grant for the scientific project entitled "Evaluation of anti-inflammatory effects of refined olive oil supplemented with hydroxytyrosol in a rheumatoid arthritis animal model". This award, given by the Order of Pharmacists, was to distinguished research and professional projects in various areas of pharmaceutical activity carried out by pharmacists in Portugal. The project was authored by Sandra Silva, Maria Rosário Bronze, João Rocha, Bruno Sepodes and Maria Eduardo Figueira.

## 8. PUBLICATIONS IN PEER REVIEWED JOURNALS

### A. International Publications

1. Ana Teresa Mata, Tiago Filipe Jorge, João Ferreira, Maria do Rosário Bronze, Diana Branco, Pedro Fevereiro, Susana Araújo, Carla António (2016) Analysis of low abundant trehalose-6-phosphate and related metabolites in *Medicago truncatula* by hydrophilic interaction liquid chromatography–triple quadrupole mass spectrometry, *Journal of Chromatography A*, 1477 (2016) 30–38, <http://dx.doi.org/10.1016/j.chroma.2016.11.031>
2. Matias AA, Ramos RR, Nunes S, Figueira I, Serra AT, Bronze MR, Duarte CMM (2016) Protective effect of a (poly)phenol-rich extract derived from Sweet Cherries culls against oxidative cell damage, *Molecules*, 21(4), 406, <http://dx.doi.org/10.3390/molecules21040406>
3. Saldanha do Carmo, C., Nunes, A. N., Silva, I., Maia, C., Poejo, J., Ferreira-Dias, S., Bronze, R., Duarte, C. M. M. (2016). Formulation of pea protein for increased satiety and improved foaming properties. *RSC Adv.*, 6(8), 6048–6057. <http://doi.org/10.1039/C5RA22452G>
4. Rodrigues, L., Silva, I., Poejo, J., Serra, A. T., Matias, A. A., Simplício, A. L., Bronze, M. R., Duarte, C. M. M. (2016). Recovery of antioxidant and antiproliferative compounds from watercress using pressurized fluid extraction. *RSC Advances*, 6, 30905–30918.

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5. Ribeiro, I.A.C., Bronze, M.R., F. Castro, M. et al. (2016). Sophorolipids from culture broths towards the improvement of their therapeutic potential. *Bioprocess Biosyst Eng* doi:10.1007/s00449-016-1657-y
6. Rodrigo P. Feliciano, Elsa Mecha, Maria R. Bronze, Ana Rodriguez-Mateos, (2016) Development and validation of a high-throughput micro solid-phase extraction method coupled with ultra-high-performance liquid chromatography-quadrupole time-of-flight mass spectrometry for rapid identification and quantification of phenolic metabolites in human plasma and urine, *Journal of Chromatography A*, 1464, 21–31.
7. Liliana Rodrigues, Inês Silva, Joana Poejo, Ana Teresa Serra, Ana A Matias, Ana Luísa Simplicio, Maria R Bronze, Catarina MM Duarte, (2016) Recovery of antioxidant and antiproliferative compounds from watercress using pressurized fluid extraction, *RSC Adv.*, ,6, 30905-30918 DOI: 10.1039/C5RA28068K
8. Carbas B, Vaz Patto MC, Bronze MR, Bento da Silva A, Trigo MJ, Brites C (2016) Maize flour parameters that are related to the consumer perceived quality of “broa” specialty bread. *Food Science and Technology (on linefirst)* (doi:http://dx.doi.org/10.1590/1678-457X.6674).
9. Salma Saoudi, Nadia Chammem, Ines Sifaoui, Maha Bouassida-Beji, Ignacio A. Jiménez, Isabel L. Bazzocchi, Sandra Diniz Silva, Moktar Hamdi, Maria Rosário Bronze (2016) Influence of Tunisian aromatic plants on the prevention of oxidation in soybean oil under heating and frying conditions *Food Chem.* 212, 503-511
10. A. Mata, J.P. Ferreira, C. Semedo, T. Serra, C.M.M. Duarte, M.R. Bronze, (2015) Contribution to the characterization of *Opuntia* spp. juices by LC–DAD–ESI–MS/MS, *Food Chem.* 210, 558–565. DOI; 10.1016/j.foodchem.2016.04.033
11. Silva S, Combet E, Figueira ME, Koeck T, Mullen W, Bronze MR. (2015). New perspectives on bioactivity of olive oil: evidence from animal models, human interventions and the use of urinary proteomic biomarkers. *Proc Nutr Soc.* 74(3):26881. DOI: 10.1017/S0029665115002323
12. Silva, S., Bronze, M. R., Figueira, M. E., Siwy, J., Mischak, H., Combet, E., Mullen W. (2015). Impact of a sixweek olive oil supplementation in healthy adults on urinary proteomic biomarkers of coronary artery disease, chronic kidney disease and diabetes (types 1 & 2): a randomized, parallel, controlled, doubleblind study. *Am J Clin Nutr.* 101 ( 1), 44-54. doi: 10.3945/ajcn.114.094219.
13. Karima Dhauadi, Manel Belkhir, Faten Raboudi, Elsa Mecha, Imen Ghommeme, Maria Do Rosario Bronze, Hajer Ammar, Sami Fattouch. (2015) Pomegranate and mint syrup addition to

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- green tea beverage stabilized its polyphenolic content and biofunctional potentials during refrigerated storage. *J Food Sci Technol*, 53, 2, 1164-1177. DOI: 10.1007/s13197-015-2109-4
14. Mata, A.T., Ferreira, J.P., Oliveira B.R., Batoréu, M.C., Crespo, M.T. Barreto, Pereira, V.J., Bronze, M.R. (2015). Bottled water: Analysis of mycotoxins by LC–MS/MS. *Food Chem.*, 176, 455–464. DOI: 10.1016/j.foodchem.2014.12.088
  15. de Sá, M., Ferreira, J.P., Queiroz, V.T., Vilas-Boas, L., Silva, M.C., Almeida, M.H., Guerra-Guimarães, L. and Bronze, M.R. (2014) A liquid chromatography/electrospray ionisation tandem mass spectrometry method for the simultaneous quantification of salicylic, jasmonic and abscisic acids in *Coffea arabica* leaves. *Journal of the Science of Food and Agriculture*. 94 (3), 529-536.
  16. Figueira, M.E., Câmara, M.B., Direito, R., Rocha, J.P., Serra, T., Duarte, C., Frenandes, A., Freitas, M., Fernandes, E., Marques, M.C., Bronze, M.R., Sepodes, B., (2014). Chemical characterization of a red raspberry fruit extract and evaluation of its pharmacological effects in experimental models of acute inflammation and collagen-induced arthritis, *Food Funct.* 5, 3241-3251.
  17. Lopes, A., Silva, N., Bronze, M.R., Ferreira, J. and Morais, J. (2014) Analysis of cocaine and nicotine metabolites in wastewater by liquid chromatography-tandem mass spectrometry. Cross abuse index patterns on a major community. *Science of the Total Environment*, **487**, 673-680.
  18. Madeira, Paulo J. Amorim, Siteo, Ana Raquel Fernandes, Gonçalves, Daniel, Rodrigues, Tiago, Guedes, Rita C., Lopes, Francisca, Moreira, Rui, Bronze, M. Rosário, (2014) Antiplasmodial drugs in the gas phase: A C ID and DFT study of quinolon-4(1H)-imine derivatives. *Journal of the American Society for Mass Spectrometry*, **25**, 9, 1650-1661.
  19. Oliveira Rudi, Guedes Rita C, Meireles Patricia, Albuquerque Inês S, Gonçalves Lídia M, Pires Elisabete, Bronze Maria Rosário, Gut Jiri, Rosenthal Philip J, Prudêncio Miguel, Moreira Rui, O'Neill Paul M, Lopes Francisca (2014) Tetraoxane-Pyrimidine Nitrile Hybrids as Dual Stage Antimalarials. *J. Med. Chem.*, **57** (11), 4916–4923.
  20. Peres, Cátia M., Alves, Marta, Hernandez-Mendoza, Adrián, Moreira, Liliana, Silva, Sandra, Bronze, Maria R., Vilas-Boas, Luís, Peres, Cidália, Malcata, F. Xavier. (2014) Novel isolates of lactobacilli from fermented Portuguese olive as potential probiotics. *LWT - Food Science and Technology*, **59**, Issue 1, 234-246.
  21. Silva S., Sepodes, B., Rocha, J., Direito, R. Fernandes, A., Brites, D., Freitas, M., Fernandes, E., Bronze, M. R., Figueira M. E. (2014). Protective effects of hydroxytyrosol supplemented refined olive oil in animal models of acute inflammation and rheumatoid arthritis. *J. Nutrit. Biochem.*, 26(4), 360-8. DOI: 10.1016/j.jnutbio.2014.11.011

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22. Silva, Sandra D.; Feliciano, Rodrigo P.; Boas, Luis V.; et al., (2014) Application of FTIR-ATR to Moscatel dessert wines for prediction of total phenolic and flavonoid contents and antioxidant capacity. *Food Chemistry*, **150**, 489-493.
23. Torres, M.E., Gonçalves, L.L., Bronze, M.R., Santos, A.P.M.D., Batoréu, M.C. and Mateus, M.L. (2014) Alternative biomarkers of n-hexane exposure: Characterization of aminoderived pyrroles and thiol-pyrrole conjugates in urine of rats exposed to 2,5-hexanedione. *Toxicology Letters* **224**, 54-63.
24. Zancajo, Victor M.R., Brito, J., Carrasco, Marta P., Bronze, M.R., Moreira, Rui, Lopes Alvaro. (2014) Analytical profiles of “legal highs” containing cathinones available in the area of Lisbon, Portugal. *Forensic Science International*, **244**, 102-110.
25. Prigol, M., Nogueira, C.W., Zeni, G., Bronze, M.R. and Constantino, L. (2013) Physicochemical and biochemical profiling of diphenyl diselenide. *Applied biochemistry and biotechnology* **169**, 885-893.
26. Ressurreição, A.S., Gonçalves, D., Siteo, A.R., Albuquerque, I.S., Gut, J., Góis, A., Gonçalves, L.M., Bronze, M.R., Hanscheid, T., Biagini, G.A., Rosenthal, P.J., Prudeêncio, M., O'Neill, P., Mota, M.M., Lopes, F. and Moreira, R. (2013) Structural optimization of quinolon-4(1 H)-imines as dual-stage antimalarials: Toward increased potency and metabolic stability. *Journal of Medicinal Chemistry* **56**, 7679-7690.
27. Ribeiro, I.A., Bronze, M.R., Castro, M.F. and Ribeiro, M.H.L. (2013) Sophorolipids: Improvement of the selective production by *Starmerella bombicola* through the design of nutritional requirements. *Applied Microbiology and Biotechnology* **97**, 1875-1887.
28. Serra, A.T., Poejo, J., Matias, A.A., Bronze, M.R. and Duarte, C.M.M. (2013) Evaluation of *Opuntia* spp. derived products as antiproliferative agents in human colon cancer cell line (HT29). *Food Research International* **54**, 892-901.
29. Montalbano, F., Candeias, N.R., Veiros, L.F., André, V., Duarte, M.T., Bronze, M.R., Moreira, R. and Gois, P.M.P. (2012) Four-component assembly of chiral N-B heterocycles with a natural product-like framework. *Organic Letters* **14**, 988-991.
30. Prigol, M., Nogueira, C.W., Zeni, G., Bronze, M.R. and Constantino, L. (2012) In vitro metabolism of diphenyl diselenide in rat liver fractions. Conjugation with GSH and binding to thiol groups. *Chemico-Biological Interactions* **200**, 65-72.
31. Ribeiro, I.A., Bronze, M.R., Castro, M.F. and Ribeiro, M.H.L. (2012) Design of selective production of sophorolipids by *Rhodotorula bogoriensis* through nutritional requirements. *Journal of Molecular Recognition* **25**, 630-640.
32. Ribeiro, I.A., Bronze, M.R., Castro, M.F. and Ribeiro, M.H.L. (2012) Optimization and correlation of HPLC-ELSD and HPLC-MS/MS methods for identification and characterization of sophorolipids. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences* **899**, 72-80.

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33. Serra, A.T., Rocha, J., Sepodes, B., Matias, A.A., Feliciano, R.P., De Carvalho, A., Bronze, M.R., Duarte, C.M.M. and Figueira, M.E. (2012) Evaluation of cardiovascular protective effect of different apple varieties - Correlation of response with composition. *Food Chemistry* **135**, 2378-2386.
34. Serrano, C., Sousa, M.B., Trigo, M.J. and Bronze, R. (2012) Phenolic phytochemical antioxidants in berries. pp.675-682.
35. Silva, S., Boross, P., Soares, R., Coelho, A.V., Vilas Boas, L. and Bronze, M.R. (2012) Characterization of nüzhenide and related secoiridoids in *Olea europea* L. seeds using MALDI-TOF mass spectrometry. *Acta Horticulturae* pp.403-410.
36. Tavares, L., Fortalezas, S., Tyagi, M., Barata, D., Serra, A.T., Martins Duarte, C.M., Duarte, R.O., Feliciano, R.P., Bronze, M.R., Espírito-Santo, M.D., Ferreira, R.B. and Santos, C.N. (2012) Bioactive compounds from endemic plants of Southwest Portugal: Inhibition of acetylcholinesterase and radical scavenging activities. *Pharmaceutical Biology* **50**, 239-246.
37. Valente, A., Bronze, M.R., Bicho, M., Duarte, R. and Costa, H.S. (2012) Validation and clinical application of an UHPLC method for simultaneous analysis of total homocysteine and cysteine in human plasma. *Journal of Separation Science* **35**, 3427-3433.
38. Galego, L.R., Da Silva, J.P., Almeida, V.R., Bronze, M.R. and Boas, L.V. (2011) Preparation of novel distinct highly aromatic liquors using fruit distillates. *International Journal of Food Science and Technology* **46**, 67-73.
39. Serra, A.T., Duarte, R.O., Bronze, M.R. and Duarte, C.M.M. (2011) Identification of bioactive response in traditional cherries from Portugal. *Food Chemistry* **125**, 318-325.
40. Serra, A.T., Matias, A.A., Almeida, A.P.C., Bronze, M.R., Alves, P.M., De Sousa, H.C. and Duarte, C.M.M. (2011) Processing cherries (*Prunus avium*) using supercritical fluid technology. Part 2. Evaluation of SCF extracts as promising natural chemotherapeutical agents. *Journal of Supercritical Fluids* **55**, 1007-1013.
41. Vila-Real, H., Alfaia, A.J., Bronze, M.R., Calado, A.R.T. and Ribeiro, M.H.L. (2011) Enzymatic synthesis of the flavone glucosides, prunin and isoquercetin, and the aglycones, naringenin and quercetin, with selective  $\alpha$ -L-rhamnosidase and  $\beta$ -D-glucosidase activities of naringinase. *Enzyme Research* **2011**.
42. Dias, T., Bronze, M.R., Houghton, P.J., Mota-Filipe, H. and Paulo, A. (2010) The flavonoid-rich fraction of *Coreopsis tinctoria* promotes glucose tolerance regain through pancreatic function recovery in streptozotocin-induced glucose-intolerant rats. *Journal of Ethnopharmacology* **132**, 483-490.
43. Feliciano, R.P., Antunes, C., Ramos, A., Serra, A.T., Figueira, M.E., Duarte, C.M.M., Carvalho, A.d. and Bronze, M.R. (2010) Characterization of traditional and exotic apple varieties from Portugal. Part 1 - Nutritional, phytochemical and sensory evaluation. *Journal of Functional Foods* **2**, 35-45.



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44. Nunes, A.V., Rodriguez-Rojo, S., Almeida, A.P., Matias, A.A., Rego, D., Simplicio, A.L., Bronze, M.R., Cocero, M.J. and Duarte, C.M. (2010) Supercritical fluids strategies to produce hybrid structures for drug delivery. *Journal of controlled release : official journal of the Controlled Release Society* **148**, e11-12.
45. Serra, A.T., Matias, A.A., Frade, R.F.M., Duarte, R.O., Feliciano, R.P., Bronze, M.R., Figueira, M.E., de Carvalho, A. and Duarte, C.M.M. (2010) Characterization of traditional and exotic apple varieties from Portugal. Part 2 - Antioxidant and antiproliferative activities. *Journal of Functional Foods* **2**, 46-53.
46. Serra, A.T., Seabra, I.J., Braga, M.E.M., Bronze, M.R., De Sousa, H.C. and Duarte, C.M.M. (2010) Processing cherries (*Prunus avium*) using supercritical fluid technology. Part 1: Recovery of extract fractions rich in bioactive compounds. *Journal of Supercritical Fluids* **55**, 184-191.
47. Serra, H., Bronze, M.d.R. and Simplicio, A.L. (2010c) Simultaneous determination of clopidogrel and its carboxylic acid metabolite by capillary electrophoresis. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences* **878**, 1480-1486.
48. Tavares, L., Carrilho, D., Tyagi, M., Barata, D., Serra, A.T., Duarte, C.M.M., Duarte, R.O., Feliciano, R.P., Bronze, M.R., Chicau, P., Espírito-Santo, M.D., Ferreira, R.B. and Santos, C.N.D. (2010) Antioxidant capacity of macaronesian traditional medicinal plants. *Molecules* **15**, 2576-2592.
49. Feliciano, R.P., Bravo, M.N., Pires, M.M., Serra, A.T., Duarte, C.M., Boas, L.V. and Bronze, M.R. (2009) Phenolic content and antioxidant activity of moscatel dessert wines from the setúbal region in portugal. *Food Analytical Methods* **2**, 149-161.
50. Ruiz-Rodriguez, A., Najdanovic-Visak, V., Visak, Z.P., Bronze, M.d.R., Antunes, C. and Nunes da Ponte, M. (2009) High-pressure phase behaviour of binary (CO<sub>2</sub> + nicotine) and ternary (CO<sub>2</sub> + nicotine + solanesol) mixtures. *Fluid Phase Equilibria* **282**, 58-64.
51. Silva, S.D., Rosa, N.F., Ferreira, A.E., Boas, L.V. and Bronze, M.R. (2009) Rapid determination of  $\alpha$ -tocopherol in vegetable oils by fourier transform infrared spectroscopy. *Food Analytical Methods* **2**, 120-127.
52. Bravo, M.N., Feliciano, R., Silva, S., Coelho, A.V., Vilas Boas, L. and Bronze, M.R. (2008) Analysis of trans-resveratrol: Comparison of methods and contents in Muscatel fortified wines from Setúbal region in Portugal. *Journal of Food Composition and Analysis* **21**, 634-643.
53. Bronze, M.R., Vilas-Boas, L., Catulo, L. and Peres, C. (2008) Use of *Lactobacillus plantarum* in treatments of olive mill wastewater. pp.637-644.
54. Ruiz-Rodriguez, A., Bronze, M.R. and Ponte, M.N.d. (2008) Supercritical fluid extraction of tobacco leaves: A preliminary study on the extraction of solanesol. *Journal of Supercritical Fluids* **45**, 171-176.
55. Serra, A.T., Matias, A.A., Nunes, A.V.M., Leitão, M.C., Brito, D., Bronze, R., Silva, S., Pires, A., Crespo, M.T., San Romão, M.V. and Duarte, C.M. (2008) In vitro evaluation of olive- and grape-

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- based natural extracts as potential preservatives for food. *Innovative Food Science and Emerging Technologies* **9**, 311-3.
56. Serra, H., Mendes, T., Bronze, M.R. and Simplício, A.L. (2008) Prediction of intestinal absorption and metabolism of pharmacologically active flavones and flavanones. *Bioorganic and Medicinal Chemistry* **16**, 4009-4018.
  57. Machado, M., Bronze, M.R. and Ribeiro, H. (2007) New cosmetic emulsions for dry skin. *Journal of Cosmetic Dermatology* **6**, 239-242.
  58. Bravo, M.N., Silva, S., Coelho, A.V., Boas, L.V. and Bronze, M.R. (2006) Analysis of phenolic compounds in Muscatel wines produced in Portugal. *Analytica Chimica Acta* **563**, 84-92.
  59. Prado, M.A., Boas, L.F.V., Bronze, M.R. and Godoy, H.T. (2006) Validation of methodology for simultaneous determination of synthetic dyes in alcoholic beverages by capillary electrophoresis. *Journal of Chromatography A* **1136**, 231-236.
  60. Teixeira, M.I.V., Romão, M.V.S., Bronze, M.R. and Boas, L.V. (2006) 2,4,6-Tricloroanisol: Avaliação por um painel de consumidores. *Ciência Téc Vitiv* **21**, 53-65.
  61. Rauter, A.P., Martins, A., Borges, C., Ferreira, J., Justino, J., Bronze, M.R., Coelho, A.V., Choi, Y.H. and Verpoorte, R. (2005) Liquid chromatography-diode array detection-electrospray ionisation mass spectrometry/nuclear magnetic resonance analyses of the anti-hyperglycemic flavonoid extract of *Genista tenera*: Structure elucidation of a flavonoid-C-glycoside. *Journal of Chromatography A* **1089**, 59-64.
  62. Csiktusnádi Kiss, G.A., Forgács, E., Cserhádi, T., Candeias, M., Vilas-Boas, L., Bronze, R. and Spranger, I. (2000) Solid-phase extraction and high-performance liquid chromatographic separation of pigments of red wines. *Journal of Chromatography A* **889**, 51-57.
  63. Cserhádi, T., Forgács, E., Candeias, M., Vilas-Boas, L., Bronze, R. and Spranger, I. (2000) Separation and tentative identification of the main pigment fraction of raisins by thin-layer chromatography-fourier transform infrared and high-performance liquid chromatography-ultraviolet detection. *Journal of Chromatographic Science* **38**, 145-150.
  64. Cserhádi, T., Forgács, E., Candeias, M., Vilas-Boas, L., Bronze, R. and Spranger, I. (2000) Rapid screening of natural products by high-resolution high-temperature gas chromatography. *Journal of Chromatographic Science* **38**, 234-240.
  65. Szentmihályi, K., Csiktusnádi-Kiss, G.A., Keszler, Á., Kótai, L., Candeias, M., Bronze, M.R., Boas, L.V., Spauger, I. and Forgács, E. (2000) Method development for measurement of elements in Hungarian red wines by inductively coupled plasma optical emission spectrometry (ICP-OES). *Acta Alimentaria* **29**, 105-121.
  66. Bronze, M.R. (1999) Electroforesi capilar em análise de compostos fenólicos. *ACE Revista, Enologia*, 48, 3-9.
  67. Bronze, M., Rosário, Boas, L. Vilas (1998) Characterisation of brandies and wood extracts by capillary electrophoresis. *Analisis*, 26, 40-47.

## Curriculum Vitae

68. Bronze, M. Rosário, Boas, L. Vilas (1997) Analysis of old brandy and oak extracts by capillary electrophoresis. *J. Chromatogr. A*, 768(1), 143-152.

### B. National Publications:

Teixeira MIV, San Romão MV, , **Bronze MR**, Vilas Boas L. 2,4,6-trichloroanisole: a consumer panel evaluation, *Ciência Técnica Vitivinícola*, 2006, 21 (2), 53-65.

([http://www.scielo.oces.mctes.pt/scielo.php?pid=S0254-02232006000200001&script=sci\\_abstract&tlng=en](http://www.scielo.oces.mctes.pt/scielo.php?pid=S0254-02232006000200001&script=sci_abstract&tlng=en))

Silva S, Matias A, Nunes A, Duarte CMM, Coelho AV, **Bronze MR**. Identification of flavonol glycosides in winemaking by-products by HPLC with different detectors and hyphenated with mass spectrometry, *Ciência Técnica Vitivinícola*, 2005, 20(1), 17-33.

[http://www.scielo.oces.mctes.pt/scielo.php?pid=S0254-02232005000100002&script=sci\\_abstract&tlng=en](http://www.scielo.oces.mctes.pt/scielo.php?pid=S0254-02232005000100002&script=sci_abstract&tlng=en)

### C. Book chapters:

Ana Raquel Siteo, Francisca Lopes, Rui Moreira, Ana Coelho and **Maria Rosário Bronze**. Tandem Mass Spectrometry - Molecular Characterization, Ana Varela Coelho and Catarina de Matos Ferraz Franco, Chapt 3, Contribution of Mass Spectrometry to the Study of Antimalarial Agents, Intech, 2013. ISBN 978-953-51-1136-8

**Maria do Rosário Bronze**, Catarina M.M. Duarte, Ana Matias. Handbook of Analysis of Active Compounds in Functional Foods, Leo M.L. Nollet, Fidel Toldra, Chapt. 17, Stilbenes and resveratrol, CRC Press, Taylor & Francis, 2012, ISBN: 9781439815885.

**Maria do Rosário Bronze**, Maria Eduardo Figueira, Elsa Mecha. Handbook on Flavonoids: Dietary Sources, Properties and Health Benefits, Kazuya Yamane and Yuudai Kato, Chapt. X, Flavonoids and its Contribution to a Healthier Life, Nova Science Publishers Inc., 2011, ISBN-10: 161942049X.

Serra AT, Sepodes B, Duarte C, Figueira ME, **Bronze MR**, Feliciano R. Maçãs Tradicionais de Eleição. Agostinho de Carvalho e Catarina Duarte. As variedades tradicionais de maçãs das Beiras e as cultivares exóticas: estudo comparativo, Agro- Manual Publicações, Lda. Livro editado no âmbito do projecto AGRO-930: "Fitoquímicos e fibras de maçãs de variedades regionais das Beiras e de cultivares exóticas e seus benefícios para a saúde".

Serra AT, Duarte C, Carvalhão P, **Bronze MR**, Pereira P, Feliciano F. Maçãs Tradicionais de Eleição. Agostinho de Carvalho e Catarina Duarte. A maçã na alimentação", Agro-Manual Publicações, Lda, Odivelas, 83-115. Livro editado no âmbito do projecto AGRO-930: "Fitoquímicos e fibras de maçãs de variedades regionais das Beiras e de cultivares exóticas e seus benefícios para a saúde".