



19/06/1988

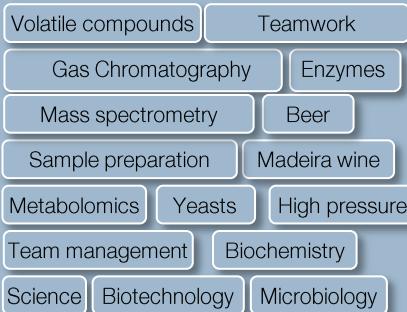
## Contact



Barcelos



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## Languages



## Awards

*Award Rotary Club de Aveiro - Américo Reboredo (2011)*

Attributed to the best finalist student of the 2<sup>nd</sup> cycle courses in the Food field

## Organization

- Olimpíadas Química Júnior 2009
- Workshop SPME 2010
- Main organizer of the Summer Course Verão 2011, under the Association BEST Aveiro
- Workshop SPME 2013

# Cátia Sofia Faria Martins

## Professional experience

04/2018 – Present

Research Scholarship, ref. BI/DQ/6069/2018 University of Aveiro  
Collaboration with Sogrape Vinhos in Projeto SOGRAPE (CV 1/2018)

12/2008 – 11/2009

Research Integration Scholarship, ref. BII – UA/QOPNA University of Aveiro  
Scientific research on the effect of high-pressure on enzyme activity

## Education and formation

03/2012 – 02/2018

PhD in Biochemistry Level 8 QRQ  
University of Aveiro  
Thesis theme: Yeasts and beers volatile metabolomic profiling: advances in lager beer aroma comprehension

09/2009 – 12/2011

Master in Biotechnology, Food field Level 7 QRQ  
University of Aveiro  
Dissertation theme: Strategies for reduction of ethyl carbamate in Madeira wines

09/2006 – 07/2009

1<sup>st</sup> Cycle in Biotechnology Level 6 QRQ  
University of Aveiro  
Project Theme: High-pressure effect on enzyme activity

## Publications

### Book chapters

1. Martins C., Brandão T., Almeida A., Rocha S. M. *Saccharomyces* spp. role in brewing process and its serial repitching impact, 2016, In: Food and Beverage Consumption and Health, editor William H. Salazar, Nova Science Publishers, Inc, New York, Cap. 5, pp. 213-256, ISBN: 978-1-63485-704-8 (eBook).
2. Coimbra M. A., Rocha S. M., Martins C., Barros A. S. Methodologies for improved quality control assessment of food products, 2017, In: Advances in Food Diagnostics, 2<sup>nd</sup> edition, editors Toldrá F. & Nollet L., Blackwell Publishing, Iowa, USA., Cap. 2, pp. 13-61, DOI:10.1002/9781119105916.ch2.
3. Martins C., Brandão T., Almeida A., Rocha S. M., Como desvendar o aroma de uma cerveja?, 2017 In: Bioquímica e bem-estar, editor Manuel A. Coimbra, Edições Afrontamento, Lda, Porto, Cap. 12, pp. 186-202, ISBN: 978-972-36-1560-9.
4. Martins C., Almeida A., Rocha S. M., Recent advances and challenges for beer volatile characterization, 2017, In: Recent Advances in Analytical Techniques, editors Atta-ur-Rahman, Sibel A. Ozkan, Rida Ahmed, Bentham Science Publishers, Sharjah, U. A. E., Cap. 5, pp. 141-199, ISBN: 978-1-68108-448-0 (eBook).

### Publications in international journals

1. Rocha, S. M., Salvador, Â. C., Martins C., Barbosa, C., Santos, M., Petronilho, S., Microextração em fase sólida e cromatografia de gás: Uma combinação de elevado potencial, *Scientia Chromatographica*, 2013, 5, 4, 284-300.
2. Martins C., Brandão T., Almeida A., Rocha S. M., Insights on the beer volatile profile: Optimization of solid-phase microextraction procedure taking advantage of the comprehensive two-dimensional gas chromatography structured separation, *Journal of Separation Science*, 2015, 38, 12, 2140-2148, DOI:10.1002/jssc.201401388.
3. Martins C., Brandão T., Almeida A., Rocha S. M., Metabolomics strategy for the mapping of volatile exometabolome from *Saccharomyces* spp. widely used in the food industry based on comprehensive two-dimensional gas chromatography, *Journal of Separation Science*, 2017, 40, 2228-2237. DOI:10.1002/jssc.201601296.
4. Martins C., Brandão T., Almeida A., Rocha S. M. Unveiling the lager beer volatile terpenic compounds, *Food Research International*, 2018, 114, 199-207. DOI:10.1016/j.foodres.2018.07.048.

## Communications

### Volunteering



- Member of BEST Aveiro: 03/2010 – 10/2012
- Team Fund Raising
- President of General Meeting: 2010-2011



- Co-presenter and volunteer in event mf24 Aveiro, September 2012

### Social media

www.linkedin.com/in/catiamartins

www.researchgate.net/profile/Catia\_Martins5

Author ID: 56645773400

ORCID: 0000-0002-8350-5455

### Interests



#### Oral

1. Martins C., Almeida A., Brandão T., Rocha S. M., Insights on the volatile beer profile through HS-SPME/GC×GC-ToFMS: optimization of SPME procedure taking advantage of the GC×GC structured separations, ExTech 2014 - 15<sup>th</sup> International Symposium on Advances in Extraction Technologies: Sample Preparation for the Omics Age, Chania, Greece, 25-28 May, 2014, L20.
2. Martins C., Brandão T., Almeida A., Rocha S. M., GC×GC-ToFMS a novel and powerful tool to establish the beer volatile profiling, 4<sup>th</sup> International Young Scientist Symposium on Malting, Brewing and Distilling, Ghent, Belgium, 28-30 October, 2014, L 4.1, page 36.
3. Martins C., Insights on *Saccharomyces* strains volatile exometabolome through multidimensional gas chromatography, 7<sup>th</sup> Biochemistry day, Aveiro, Portugal, 29 April, 2015.
4. Martins C., New approach for beer volatile profiling: optimization of SPME procedure taking into account GC×GC structured separation, Workshop x-Chroma 2015, Aveiro, Portugal, 3 June, 2015.
5. Martins C., Brandão T., Almeida A., Rocha S. M., *Saccharomyces* spp. metabolomics: Toward a platform based on advanced gas chromatography, XVI Latin-American Congress on Chromatography (XVICLACRO) & 9<sup>th</sup> National Meeting on Chromatography (9ENC), Lisboa, Portugal, 5-9 January, 2016, OC-38, page 123.
6. Martins C., Beer volatile profiling: how can we made?, Jornadas Técnicas da Associação Portuguesa de Técnicos de Cerveja e Malte, Bragança, Portugal, 7<sup>th</sup> July, 2017.
7. Martins C., Brandão T., Almeida A., Rocha S. M. BeerOmics: a novel approach for understanding beer aroma properties, ISPROF 2017 – 3rd International Symposium on Profiling, Caparica, Portugal, 4-7 September, 2017, O05B, 127-128. (not presenter)
8. Martins C., Brandão T., Almeida A., Rocha S. M., BeerOmics: how can advanced gas chromatography help to understand beer aroma properties?, 10<sup>th</sup> Encontro Nacional de Cromatografia, Bragança, Portugal, 4-6 December 2017, OC12, p. 29.

#### Award Tecnocroma – Best oral communication

9. Martins C., Brandão T., Almeida A., Rocha S. M., BeerOmics: from small metabolites to understand beer aroma properties, 14<sup>th</sup> Encontro de Química dos Alimentos, Viana do Castelo, Portugal, 6-9 November 2018, OC21, p. 41.

#### Panel Communications

1. Gomes, I. R., Pinto, A. A., Santos, M., Salvador, Â. C., Oliveira, M. F., Martins C. F., Marques, C. F., Medde, R., Saraiva, J. A., The combined effect of high pressure and temperature on  $V_{max}$  and  $K_M$  of the enzyme horseradish peroxidase, MicroBiotec09, Vilamoura, 28-30 November 2009, Ref. 305, 273. (not presenter)
2. Martins C., Saraiva, J. A., Effect of High Pressure on the enzymatic hydrolysis of carboxymethyl cellulose, 2<sup>nd</sup> Edição do Portuguese Young Chemists Meeting (2PYCheM), Aveiro, 21-23 April 2010, P60.
3. Perestrelo, R., Martins C., Barros, A. S., Câmara, J. S., Rocha, S. M., Development of novel and rapid methodologies to in-deep search traceability parameters, processing markers, and contaminants in food products: The case-study of Madeira wine, Research Day UA, Aveiro, 8<sup>th</sup> June 2011, P63.
4. Martins C., Perestrelo, R., Câmara, J. S., Rocha, S. M., Contributes to the definition of a strategy to the reduction of ethyl carbamate level in Madeira wine, XXII Encontro Nacional da Sociedade Portuguesa de Química, Braga, 3-6 July 2011.
5. Martins C., Perestrelo, R., Câmara, J. S., Rocha, S. M., Strategies to reduce the ethyl carbamate level (a contaminant) in Madeira wine, 11<sup>th</sup> International Nutrition & Diagnostics Conference, Brno, Czech Republic, 28-31 August 2011, P23, 74. (not presenter)
6. Martins C., Perestrelo R, Câmara JS, Rocha SM, Profiling the Madeira wine volatile fatty acids: evaluation of aging effect, 11<sup>th</sup> Encontro de Química dos Alimentos, Bragança, 16-19 September, 2012, CP57.
7. Martins C., Brandão T., Almeida A., Rocha S. M., Unravelling the performance and volatile exometabolome of two *Saccharomyces* spp. strains widely used in food industry, Research Day UA, Aveiro, 15<sup>th</sup> June 2016, P13.
8. Martins C., Almeida A., Brandão T., Rocha S. M., A novel tool to establish volatile molecular biomarkers to evaluate yeasts performance through beer fermentation: *S. cerevisiae* and *S. pastorianus*, European Brewery Convention - 34<sup>th</sup> Luxembourg, 26-30 May 2013, PO45, 59.
9. Martins C., Brandão T., Almeida A., Rocha S. M., Novel insights on *Saccharomyces* spp. exometabolome through comprehensive two-dimensional gas chromatography, X IVAS - 10<sup>th</sup> Edition of the In Vino Analytica Scientia Symposium: Analytical Chemistry for Wine, Brandy and Spirits, Salamanca, Spain, 17-20 July, 2017, OMIC9, 267. (not presenter)
10. Martins, C., Salvador, Â. C., Martins, C., Santos, S. A. O., Vieira, C., Mimica-Dukic, N., Silvestre, A. J. D., Rocha, S. M., "Holistic strategy using HPLC-QqQ-MS and GC-qMS towards the screening of bioactive compounds from *Salicornia ramosissima*", 10<sup>th</sup> Encontro Nacional de Cromatografia, Bragança, Portugal, 4-6 December 2017, PC-116, 184.