
1- Personal Data

FULL NAME: Ana Teresa Sanches Silva

PRESENT POSITION: Researcher at the National Institute of Agrarian and Veterinary Research, Vairão, Vila do Conde, Portugal

E-mail: ana.silva@iniav.pt and anateress@gmail.com

WORK ADDRESS: National Institute of Agrarian and Veterinary Research, Rua dos Lágidos, Lugar da Madalena, 4485- 655 Vairão, Vila do Conde, Portugal

2- Research Fields

Main research field: Pharmaceutical Sciences- Food Science and Food Safety

Sub research fields: Analytical Chemistry; Food and Food packaging analysis: Evaluation of food safety and food composition, namely bioactive compounds. Development and validation of analytical methods for the determination of food components and food contaminants; Mass Spectrometry applied to Food Analysis; Development of active packaging with antioxidant properties.

H-Index (Scopus): 23

Orcid: orcid.org/0000-0002-0226-921X

Researcher ID: I-1850-2015

Scopus Author ID: 6507667222

3- Education

PhD	Centre	Date
PhD in Pharmacy	University of Santiago de Compostela	January 2005

4- Scientific Publications

- **2 Books**
- **15 book chapters**
- **More than 80 papers in international peer review journals with high scientific impact**
- **20 papers in national peer review journals**

Some of the most recent articles in international peer-review scientific journals

- 1- Regiane Ribeiro-Santos, Mariana Andrade, Nathália Ramos de Melo, Frances Regiane dos Santos, Ilzenayde de Araújo Neves, Mário Geraldo de Carvalho, **Ana Sanches-Silva**
“Biological activities and major components determination in essential oils intended for a biodegradable food packaging”
Industrial Crops and Products (2017) 97:201–210. IF: 3.181 3/14 (Agricultural Engineering);
- 2- D. Sánchez-Machado, J. López-Cervantes, M. F. Mariscal-Domínguez, P., Cruz-Flores, O. N. Campas-Baypoli, E. U. Cantú-Soto, **Ana Sanches-Silva**
“An HPLC Procedure for the Quantification of Aloin in Latex and Gel from Aloe barbadensis Leaves”
Journal of Chromatographic Science (2017) 251-257. Key: A; IF: 1.32; 53/75 (Analytical Chemistry)

DOI: 10.1093/chromsci/bmw179

- 3- R. Ribeiro Santos, Mariana Andrade, Nathalia Melo, **A. Sanches-Silva**,
“Use of essential oils in active food packaging: recent advances and future trends”
Trends in Food Science and Technology (2017), 61: 132-140. IF: 5.191; 4/129 (Food Science & Technology); Q1
DOI: 10.1016/j.tifs.2016.11.021
- 4- D. I. Sánchez-Machado, J. López-Cervantes, R. Sendón, **A. Sanches-Silva**
“Aloe vera: Ancient knowledge with new frontiers”
Trends in Food Science and Technology (2017), 61: 94-102. IF: 5.191; 3/129 (Food Science & Technology); Q1
DOI: 10.1016/j.tifs.2016.12.005
- 5- F. Vilarinho, **A. Sanches Silva**, M. Fátima Vaz, J. P. Farinha
“Nanocellulose: a benefit for green food packaging”
Critical Reviews in Food Science and Nutrition (2017), *in press*. IF: 6.077; 2/129 (Food Science & Technology); Q1
DOI: doi: 10.1080/10408398.2016.1270254
- 6- R. Ribeiro-Santos, M. Andrade, **A. Sanches-Silva**
“Application of Encapsulated Essential Oils as Antimicrobial Agents in Food Packaging”
Current Opinion in Food Science (2017) 14:78-84.
DOI: 10.1016/j.cofs.2017.01.012
- 7- R. Ribeiro-Santos, M. Andrade, D. Madella, A. P. Martinazzo, L. A. G. Moura, N. R. Melo, A. Sanches-Silva
“Revisiting an ancient spice with medicinal purposes: Cinnamon”
Trends in Food Science and Technology (2017), 62: 154-169. Key: R; IF: 5.191; 4/129 (Food Science & Technology); Q1
DOI: 10.1016/j.tifs.2017.02.011
- 8- A. Sureda, **A. Sanches Silva**, D. I. Sánchez-Machado, J. López-Cervantes, M. Daglia, S. F. Nabavi, S. M. Nabavi
“Hypotensive effects of genistein: From chemistry to medicine”
Chemico-Biological Interactions (2017) 268:37-46. Key: A; IF: 2.618;
DOI: 10.1016/j.cbi.2017.02.012
- 9- R. Ribeiro-Santos, **A. Sanches-Silva**, J. F. Gomes Motta, M. Andrade, I. A. Neves, R. F. Teófilo, M. G. Carvalho, N. R. Melo
“Combined use of essential oils applied to protein base active food packaging: study in vitro and in food simulants”
European Polymer Science (2017) 93:75-86. IF: 3.531; 13/86 (Polymer Science); Q1
DOI: 10.1016/j.eurpolymj.2017.03.055
- 10- C. Faggio, A. Sureda, S. Morabito, **A. Sanches-Silva**, A. Mocan, S. F. Nabavi, S. M. Nabavi
“Flavonoids and platelet aggregation: a brief review”
European Journal of Pharmacology (2017) 807:91-101. Key: R; IF: 2.730;

DOI: 10.1016/j.ejphar.2017.04.009

- 11- A. A Farooqi, S. Fayyaz, **A. Sanches Silva**, A. Sureda, S.F. Nabavi, A. Mocan, S.M. Nabavi and A. Bishayee
“Oleuropein and Cancer Chemoprevention: The Link is Hot”
Molecules (2017) 22(5), 705. Key: R; IF: 2.861
DOI: 10.3390/molecules22050705
- 12- R. Ribeiro-Santos, **A. Sanches-Silva**, J. F. Gomes Motta, M. Andrade, I. A. Neves, R. F. Teófilo, M. G. Carvalho, N. R. Melo
“Potential of migration of active compounds from protein based films with essential oils to a food and a food simulant”
Packaging Technology and Science (2017) in press. Key: A; IF:1.32; 69/129 (Food Science & Technology)
DOI: 10.1002/pts.2334
- 13- R. Ribeiro-Santos, **A. Sanches-Silva**, J. F. Gomes Motta, M. Andrade, I. A. Neves, R. F. Teófilo, M. G. Carvalho, N. R. Melo
“Essential oils for food application: natural substances with established biological activities”
Food and Bioprocess Technology (2018) 11(1):43-71. Key: R; IF: 2.576
DOI: <https://doi.org/10.1007/s11947-017-1948-6>
- 14- A. S. Oliveira, R. Ribeiro-Santos, F. Ramos, M.C. Castilho, **A. Sanches-Silva**
“UHPLC-DAD multi-method for determination of phenolics in aromatic plants”
Food Analytical Methods (2018) 11:440-450. Key: A; IF: 2.038; 43/129 (Food Science & Technology); Q2
DOI: 10.1007/s12161-017-1015-y
- 15- R. Ribeiro-Santos, **A. Sanches-Silva**, J. F. Gomes Motta, M. Andrade, I. A. Neves, R. F. Teófilo, M. G. Carvalho, N. R. Melo
“Whey protein active films incorporated with a blend of essential oils: characterization and effectiveness packaging”
Packaging Technology and Science (2018) 31:27-40. Key: A; IF:1.32; 69/129 (Food Science & Technology)
- 16- A. Marchese, C. R. Arciola, R. Barbieri, **A. Sanches-Silva**, S. F. Nabavi, A.J.T. Sokeng, M. Izadi, N. J. Jafari, I. Sutar, M. Daglia, and S. M. Nabavi
“Update on Monoterpenes as Antimicrobial Agents: A Particular Focus on p-Cymene”
Materials (2017) 10: 947. IF: 2.654; 82/274 (Materials Science-Multidisciplinary); Q2
doi:10.3390/ma10080947
- 17- **A. Sanches-Silva** & R. Sendón.
“Photoinitiators in Printed Food Packaging: Migration and Food Safety Concerns”
Reference module in Food Science (2017). Key: R;
- 18- F. Vilarinho, M. Andrade, G. G. Buonocore, M. Stanzione, M. Fátima Vaz, **A. Sanches Silva**
“Monitoring lipid oxidation in a processed meat product packaged with nanocomposite poly(lactic acid) film”

European Polymer Journal (2018) 98:362-367. IF: 3.531; 13/86 (Polymer Science); Q1

- 19- S.F. Nabavi, A. Sureda, A. Reza Dehpour, S. Shirooie, **A. Sanches Silva**, K. Pandima Devi, T. Ahmed, N. Ishaq, R. Hashim, E. Sobarzo-Sánchez, M. Daglia, N. Braidy, M. Volpicella, R. Vacca, S. M. Nabavi
“Regulation of autophagy by polyphenols: paving the road for treatment of neurodegeneration”
Biotechnology Advances (2017) *in press*. IF: 10.597; 6/160 (Biotechnology & Applied Microbiology)
URL: <https://www.sciencedirect.com/science/article/pii/S0734975017301532> (ainda não aparece na web of knowledge)
- 20- M. Andrade; R. Ribeiro; M. C. Bonito; M. Saraiva; **A. Sanches Silva**
“Characterization of rosemary and thyme extracts for incorporation into a whey protein based film”
LWT- Food Technology & Science (2018) *in press*. IF: 2.339;
- 21- A. Escárcega-Galaz, D. I. Sánchez-Machado, J. Lopez-Cervantes, A. Sanches-Silva, T. Madera, P. Paseiro
“Mechanical and physical aspects of chitosan-based films as antimicrobial dressings”
International Journal of Biological Macromolecules (2018) *in press*. IF: 3.671;
- 22- C. Martins, F. Vilarinho, A. Sanches Silva, M. Andrade, A. V. Machado, M. C. Castilho, A. Sá, A. Cunha, M. F. Vaz, F. Ramos
“Active polylactic acid film incorporated with green tea extract: development, characterization and effectiveness”
Industrial crops and products (2018) *in press*. IF: 3.181;
- 23- M. Nabavi, S. F. Nabavi, Antoni Sureda, J. Xiao, A. R. Dehpour, S. Shirooie, A. Sanches Silva, A. Baldi, H. Khan, M. Daglia
“Anti-inflammatory effects of Melatonin: a mechanistic review”
Critical Reviews in Food Science and Nutrition (2018) *in press*. IF: 6.077;

4- Other activities

- She has more 260 publications in conference proceedings, as oral communications and as posters.
- She has actively coordinated/participated in 24 projects, 8 of them international projects. Currently a national patent is pending register and she is responsible for 4 research projects.
- She is supervising/has supervised 12 master theses (11 are concluded) and 3 Ph.D. theses (one is concluded).
- She has received 10 awards, 1 honour and 11 scholarships, 2 from the Gulbenkian Institute. She is regular referee of a vast number of scientific journals with high impact factors in the Chemistry/Toxicology field and she makes part of the editorial board of several scientific journals.
- She has also imparted lessons in several different Universities (namely University of Santiago de Compostela in Spain, University of Coimbra and University of Lisbon in Portugal). Moreover, she carried out 7 stays in renamed foreign institutes. She has also been invited to participate as examiner in

Ph.D. and M.Sc. juries. She was nominated as expert of the working groups on Food Packaging Materials of the European Council.

- She has participated more than 150 conferences, scientific meetings and short courses. She has integrated the Scientific Committee of national and international conferences as well as the Organizing Committee of scientific meetings and conferences.