



Curriculum Vitae

Sara Silva Bernardo

Sara Bernardo obtained the PhD title under the doctoral programme Agricultural production chains - From fork to farm in 2021 at the University of Trás-os-Montes and Alto Douro (UTAD), concluded her Master's degree in Agronomy in 2015, and her Bachelor's in Biology in 2012 also by UTAD. Currently, she is a researcher at the University de Trás-os-Montes e Alto Douro. Sara Bernardo published 17 articles in peer-review journals, 8 of them as the first author, and has received 4 awards and/or honours. Participated as Research Fellow in 2 projects and worked in the area(s) of Agrarian Sciences and Viticulture. In her curriculum, the most frequent terms in the context of scientific, technological and artistic-cultural output are summer stress; oxidative damage; light responses; secondary metabolites; stress acclimation; grapevine; climate change; abiotic stress; plant physiology; adaptation strategies.

Identification

Personal identification

Full name
Sara Silva Bernardo

Gender
Female

Birth date
1990/06/02

Citation names

Bernardo, S

Author identifiers

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Knowledge fields

Agrarian Sciences

Languages

Language	Speaking	Reading	Writing	Listening	Peer-review
Portuguese (Mother tongue)					
English	Advanced (C1)	Advanced (C1)	Advanced (C1)	Advanced (C1)	
Spanish; Castilian	Intermediate (B1)	Intermediate (B1)	Beginner (A1)	Upper intermediate (B2)	
French	Beginner (A1)	Elementary (A2)	Beginner (A1)	Elementary (A2)	

Education

	Degree	Classification
2017/01 - 2021/11/05 Concluded	PhD Agricultural Production Chains - From fork to farm (AgriChains) (Doctor of Philosophy) Universidade de Trás-os-Montes e Alto Douro, Portugal <i>"Understanding vine response to Mediterranean summer stress for the development of rational adaptation strategies: The kaolin case" (THESIS/DISSERTATION)</i>	
2020/04 - 2020/08 Concluded	Publons Academy Practical Peer Review course (Outros) Publons Academy - Clarivate, United Kingdom	
2019/09 - 2019/11 Concluded	PhD research plan - Internship at the Ecophysiology and Biotechnology Lab: Expression of stress-related genes of grapevine leaves (Spain) (Outros) Department de Ciències Agràries i del MEdi Natural - Universitat Jaume I, Spain	
2019/05 - 2019/07 Concluded	PhD research plan - Internship at IATA: Carotenoids profile analysis (Spain) (Outros) Instituto de Agroquímica y Tecnología de Alimentos, Spain	
2018/10 - 2018/12 Concluded	PhD research plan - Internship at the Ecophysiology and Biotechnology Laboratory: Phytohormones screening of grapevine leaves and fruits (Spain) (Outros) Department de Ciències Agràries i del MEdi Natural - Universitat Jaume I, Spain	

2018/07/29 - 2018/08/18 Concluded	International Summer School (ISS) - Advanced Course "English for Academic Research" (Spain) (Outros)	Universidade da Coruña, Spain
2018/02/28 - 2018/03/02 Concluded	Advanced Writing Course - Editing research papers (Outros)	Universidade de Lisboa Instituto Superior Técnico, Portugal
2015 Concluded	Agronomic Engineering (Master)	Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal <i>"Influence of kaolin particle film in the antioxidant activities of leaf and berry extracts from Vitis vinifera L. (cv. Touriga Nacional)" (THESIS/DISSERTATION)</i>
2012 - 2013 Concluded	Biology (Postgraduate Certificate)	Universidade de Trás-os-Montes e Alto Douro, Portugal <i>"n/a" (THESIS/DISSERTATION)</i>
2008/09 - 2012/07 Concluded	Biology (Bachelor)	Universidade de Trás-os-Montes e Alto Douro, Portugal

Affiliation

Science

	Category Host institution/organization	Employer
2022/04/19 - Current	Contracted Researcher (Research)	Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biológicas, Portugal

Other Careers

	Category Host institution/organization	Employer
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2021/08/01 - 2022/05	Técnico Superior (Técnico Superior) Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal	Universidade de Trás-os-Montes e Alto Douro, Portugal
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Others

	Category Host institution/organization	Employer
2017/01/01 - 2021/11/05	PhD fellowship Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal	Fundação para a Ciência e a Tecnologia, Portugal

Projects

Grant

	Designation	Funders
2017/01/01 - 2021/11/05	PhD Agricultural Production Chains - From fork to farm (AgriChains) PD/BD/128273/2017 PhD Student Fellow Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2016/09 - 2016/12	Innovine&Wine - Vine and wine innovation platform NORTE010145FEDER000038 Research Fellow Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2015/06/04 - 2016/08/31	ProDer nº 53626 - GoldCherry - Increased production of quality cherry ProDer nº 53626 Research Fellow Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal	Concluded

Contract

	Designation	Funders
2022/04/19 - Current	SoilRec4Health - Soil recover for a healthy food and quality of life NORTE-01-0145-FEDER-000083 Researcher Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biológicas, Portugal	Ongoing

Other

	Designation	Funders
2023/01 - Current	Strategies for Portuguese vineyards towards climate change adaptation and carbon neutrality (VineAdapt2Climate) Vine & Wine Portugal - Driving Sustainable Growth Through Smart Innovation Research team member Universidade de Trás-os-Montes e Alto Douro, Portugal	Ongoing
2023/01 - Current	Kaolin and silicon particle film mixture: a new formulation for Vitis vinifera under severe water stress (MiKS4Vine) B2.4.2 New Products/formulations to promote a vine more resilience to climatic changes (MiKS4Vine) Research team member Universidade de Trás-os-Montes e Alto Douro, Portugal	
2023/01 - 2025	MONTEVITIS - Integrating a Comprehensive European Approach for Climate Change Mitigation and Adaptation in Montenegro Viticulture 101059461 UTAD team member	Ongoing

Outputs

Publications

Conference paper	1	Aires, Alfredo; Morais, Cristina; Prgomet, Iva; Oliveira, Ivo; Bernardo, Sara; Afonso, Sílvia; Carvalho, Rosa Paula; et al. "Effects of soil and foliar application of nitrogen and boro non a.tocoferol and antioxidant properties of two varieties (Glorieta and Masbovera) of almond grown in Northeast of Portugal". 2017.
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- 2 Prgomet, Iva; Barros, Ana; Pascual-Seva, Núria; Morais, Maria C.; Afonso, Sílvia; Bernardo, Sara; Ribeiro, A.C.; et al. "Efeito da rega e da aplicação de caulino nas características sensoriais e parâmetros de biometria da amêndoa". 2016.

Conference
poster

- 1 Bernardo, Sara; Dinis, L. T.; Luzio, A; Machado, N; Malheiro, A.C; Correia, C.M; Moutinho-Pereira, J. "Benefits and limitations of kaolin application in Mediterranean-type climate vineyards". Paper presented in *EliteSci, Semana da Ciência e Tecnologia, 26 de novembro de 2021, Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal.*, 2021.
- 2 Dinis, L. T.; Bernardo, Sara; Matos, C; Alves, S; Costa, C.P; Rocha, S.M; Malheiro, A. C; et al. "Kaolin application outcomes in white wine: Cerceal variety". Paper presented in *Symposium of Agricultural and Food sustainability. New climate change scenarios.* 11-13 de outubro de 2021, Colégio dos Jesuítas, Funchal, Madeira, Portugal., 2021.
- 3 Bernardo, Sara; Moutinho-Pereira, J; Machado, N; Barros, A; Pitarch-Bielsa, Marta; Gómez-Cadenas, Aurelio; Dinis, L. T.. "Kaolin impacts on hormonal content and berry quality traits in Touriga-Nacional and Touriga-Franca grapevines during ripening". Paper presented in *Encontro Ciência 2021, Centro de Congressos de Lisboa, Lisboa, Portugal*, 2021.
- 4 Bernardo, S; Dinis, Lia-Tânia; Luzio, A; Machado, N; Gonçalves, A; Malheiro, Aureliano C.; Correia, Carlos Manuel; José Moutinho-Pereira. "Optimizing grapevine acclimation strategies in the Douro region through kaolin application". Paper presented in *Encontro Ciência 2020*, 2020.
- 5 Luzio, A; Dinis, L.-T; Bernardo, S; Machado, N; Gonçalves, A; Coutinho, JP; Malheiro, A; Correia, CM; Moutinho-Pereira, J. "Kaolin and SiK Effects on Grapevine Physiology and Berries Acidity Under Mediterranean Summer Stress". Paper presented in *#04 Jornadas INTERACT*, 2019.
- 6 Luzio, A; Bernardo, S; Gonçalves, A; Machado, N; Coutinho, JP; Malheiro, A; Flores, R; et al. "Phytochemical screening of seven red grape varieties from Alentejo terroir ("Herdade do Esporão") after kaolin application.". Paper presented in *The Society for Experimental Biology's (SEB) Annual Main Meeting*, 2018.
- 7 Luzio, A; Bernardo, S; Gonçalves, A; Machado, N; Coutinho, JP; Malheiro, A; Flores, R; et al. "Kaolin improves grape berry growth of seven varieties from Portugal´s Alentejo terroir ("Herdade do Esporão").". Paper presented in *The Society for Experimental Biology's (SEB) Annual Main Meeting*, 2018.
- 8 Dinis, L.-T; Luzio, A; Bernardo, S; Gonçalves, A; Machado, N; Coutinho, JP; Malheiro, A; et al. "Adaptability of some red grape varieties at Alentejo terroir: a comparative study of physiological and biochemical analysis.". Paper presented in *The Society for Experimental Biology's (SEB) Annual Main Meeting*, 2018.
- 9 Bernardo, S; Dinis, L.-T; Luzio, A; Machado, N; Gonçalves, A; Pissarra, J; Gomes, D; et al. "Kaolin effects on Vitis vinífera physiology and berry acidity from Douro terroir.". Paper presented in *6th Infowine forum - International Vitiviniculture Congress*, 2018.

- 10 Dinis, L.-T; Luzio, A; Bernardo, S; Gonçalves, A; Machado, N; Coutinho, J; Malheiro, A; et al. "A tool to mitigate climate change: kaolin boosts grapevine physiology, fruit quality and must in cv. Tinta Francisca.". Paper presented in *VI International congress on mountain and steep slope viticulture*, 2018.
- 11 Bernardo, S; Dinis, L.-T; Luzio, A; Machado, N; Gonçalves, A; Coutinho, J; Malheiro, A; Correia, CM; Moutinho-Pereira, J. "Assessing grapevine physiological performance through kaolin application under severe field conditions". Paper presented in *III Jornadas de Engenharia Agronómica*, 2018.
- 12 Bernardo, S; Dinis, L.-T; Machado, N; Luzio, A; Moutinho-Pereira, J. "Grapevine stress responses and adaptation strategies in a changing climate". Paper presented in *National Congress on Climate Change*, 2018.
- 13 Correia, Sofia; Bernardo, S; Queirós, F; Ribeiro, C; Schouten, R; Silva, AP; Gonçalves, B. "Effect of Aloe vera postharvest application on quality of 'Skeena' sweet cherry". Paper presented in *VIII Congresso Ibérico de Ciências Hortícolas*, 2017.
- 14 Lima, M; Luzio, A; Pereira, J; Bernardo, S; Moutinho-Pereira, J; Dinis, L.-T. "Caulino potencia a síntese de fenóis, antocianinas e taninos no bago de uva sob o stresse estival". Paper presented in *I Simpósio em Bioquímica Aplicada*, 2017.
- 15 Dinis, L.-T; Luzio, A; Bernardo, S; Malheiro, A; Fraga, H.; Gonçalves, Igor; Pinto, G; Correia, CM; Moutinho-Pereira, J. "Kaolin benefits on grapevine physiology and oxidative damage as a tool to mitigate climate change". Paper presented in *Ampelos – 4th International Symposium. Mediterranean Vineyards and Climate Change*, 2017.
- 16 Bernardo, S; Luzio, A; Brito, C; Pinto, G; Meijón, M; Valledor, L; Pintó-Marijuan, M.; et al. "Grapevine physiology and hormonal dynamics: modulation of summer stress by kaolin exogenous application". Paper presented in *10th Biology conferences - UTAD*, 2016.
- 17 Dinis, L.-T; Luzio, A; Bernardo, S; Silva, Ermelinda; Rocha, L; Ferreira, H; Correia, CM; Moutinho-Pereira, J. "Effect of kaolin on sugars, acidity and colour attributes of grape berries growing in two regions (Douro valley and Alentejo)". Paper presented in *Annual Conference COST FA1106 "Quality Fruit"*, 2016.
- 18 Luzio, A; Dinis, L.-T; Bernardo, S; Gonçalves, A; Coutinho, J; Malheiro, A; Correia, CM; Moutinho-Pereira, J. "Improvement of grape berry growth induced by a pre-veraison kaolin treatment.". Paper presented in *Annual Conference COST FA1106 "Quality Fruit"*, 2016.
- 19 Bernardo, S; Luzio, A; Conde, A; Gerós, H.; Correia, CM; Moutinho-Pereira, J; Dinis, L.-T. "Kaolin foliar application mediates grapevine oxidative damage, proline and enzymatic antioxidants under summer stress". Paper presented in *Annual Conference COST FA1106 "Quality Fruit"*, 2016.

- 20 Bernardo, S; Luzio, A; Correia, CM; Moutinho-Pereira, J; Dinis, L.-T. "Application of Kaolin Particle Film on Mediterranean Grapevine Reduce Oxidative Damage". Paper presented in *19th Symposium of Biology Students in Europe*, 2016.
- 21 Morais, MC; Gonçalves, B; Ribeiro, A; Bacelar, E; Rodrigues, MA; Oliveira, Ivo; Prgomet, I; et al. "Aplicação de boro na amendoeira (*Prunus dulcis* (Mill.) D.A. Webb.): efeitos na fisiologia e produtividade das árvores". Paper presented in *Simpósio Nacional de Frutos Secos*, 2016.
- 22 Luzio, A; Brito, C; Pinto, G; Bernardo, S; Meijón, M; Valledor, L; Correia, CM; Moutinho-Pereira, J; Dinis, L.-T. "Global DNA methylation in *Vitis vinifera* leaves treated with kaolin". Paper presented in *50th meeting of the Portuguese Microscopy Society*, 2016.
- 23 Dinis, L.-T; Brito, C; Pinto, G; Bernardo, S; Valledor, L; Pintó-Marijuan, M.; Correia, CM; Moutinho-Pereira, J. "Quantification and immunohistochemical assessment of ABA and IAA in *Vitis vinifera* leaves treated with kaolin". Paper presented in *50th meeting of the Portuguese Microscopy Society*, 2016.
- 24 Bernardo, Sara; Afonso, S; Correia, Sofia; Morais, MC; Oliveira, Ivo; Queirós, F; Ribeiro, C; Silva, AP; Gonçalves, B. "Calcium chloride application decrease cracking incidence in cherries". Paper presented in *9th Biology conferences - UTAD*, 2015.
- 25 Afonso, S; Bernardo, S; Correia, Sofia; Morais, MC; Oliveira, Ivo; Queirós, F; Ribeiro, C; Silva, AP; Gonçalves, Berta. "Efeito da aplicação de películas comestíveis na qualidade da cereja da cv. "Sweetheart"". Paper presented in *9th Biology conferences - UTAD*, 2015.

Journal article

- 1 Pádua, Luís; Bernardo, Sara; Dinis, Lia-Tânia; Correia, Carlos; Moutinho-Pereira, José; Sousa, Joaquim J.. "The Efficiency of Foliar Kaolin Spray Assessed through UAV-Based Thermal Infrared Imagery". *Remote Sensing* 14 16 (2022): 4019. <http://dx.doi.org/10.3390/rs14164019>
10.3390/rs14164019
- 2 Bernardo, Sara; Rodrigo, Maria Jesús; Vives-Peris, Vicente; Gómez-Cadenas, Aurelio; Zacarías, Lorenzo; Machado, Nelson; Moutinho-Pereira, J; Dinis, L.-T. "Fine-tuning of grapevine xanthophyll-cycle and energy dissipation under Mediterranean conditions by kaolin particle-film". *Scientia Horticulturae* 291 (2022): 110584-110584. <https://doi.org/10.1016/j.scienta.2021.110584>
10.1016/j.scienta.2021.110584
- 3 Dinis, Lia-Tânia; Bernardo, Sara; Yang, Chenyao; Fraga, Hélder; Malheiro, Aureliano C.; Moutinho-Pereira, José; Santos, João A.. "Mediterranean viticulture in the context of climate change". *Ciência e Técnica Vitivinícola* 37 2 (2022): 139-158. <http://dx.doi.org/10.1051/ctv/ctv20223702139>
10.1051/ctv/ctv20223702139

- 4 Bernardo, Sara; Dinis, Lia-Tânia; Machado, Nelson; Barros, Ana; Pitarch-Bielsa, Marta; Malheiro, A.C; Gómez-Cadenas, Aurelio; Moutinho-Pereira, J. "Uncovering the effects of kaolin on balancing berry phytohormones and quality attributes of *Vitis vinifera* grown in warm-temperate climate regions". *Journal of the Science of Food and Agriculture* (2021): <https://doi.org/10.1002/jsfa.11413>.
10.1002/jsfa.11413
- 5 Bernardo, Sara; Dinis, Lia-Tânia; Machado, Nelson; Barros, Ana; Pitarch-Bielsa, Marta; Gómez-Cadenas, Aurelio; Moutinho-Pereira, José. "Kaolin impacts on hormonal balance, polyphenolic composition and oenological parameters in red grapevine berries during ripening". *Journal of Berry Research* (2021): 1-15. <http://dx.doi.org/10.3233/jbr-210737>.
10.3233/jbr-210737
- 6 Bernardo, Sara; Dinis, Lia Tânia; Luzio, A; Machado, Nelson; Vives-Peris, Vicente; López-Climent, María F.; Gómez-Cadenas, Aurelio; et al. "Particle film technology modulates xanthophyll cycle and photochemical dynamics of grapevines grown in the Douro Valley". *Plant Physiology and Biochemistry* 162 (2021): 647-655. <https://doi.org/10.1016/j.plaphy.2021.03.038>.
10.1016/j.plaphy.2021.03.038
- 7 Luzio, A.; Bernardo, S.; Correia, C.; Moutinho-Pereira, J.; Dinis, L.-T.. "Phytochemical screening and antioxidant activity on berry, skin, pulp and seed from seven red Mediterranean grapevine varieties (*Vitis vinifera* L.) treated with kaolin foliar sunscreen". *Scientia Horticulturae* 281 (2021): 109962. <http://dx.doi.org/10.1016/j.scienta.2021.109962>.
Accepted · 10.1016/j.scienta.2021.109962
- 8 Bernardo, S; Luzio, A; Machado, N; Ferreira, H; Vives-Peris, Vicente; Malheiro, A.C; Correia, C; et al. "Kaolin Application Modulates Grapevine Photochemistry and Defence Responses in Distinct Mediterranean-Type Climate Vineyards". *Agronomy* (2021): <https://doi.org/10.3390/agronomy11030477>.
10.3390/agronomy11030477
- 9 Bernardo, Sara; Dinis, Lia-Tânia; Luzio, Ana; Machado, Nelson; Gonçalves, Alexandre; Vives-Peris, Vicente; Pitarch-Bielsa, Marta; et al. "Optimising grapevine summer stress responses and hormonal balance by applying kaolin in two Portuguese Demarcated Regions". *OENO One* 55 1 (2021): 207-222. <http://dx.doi.org/10.20870/oenone.2021.55.1.4502>.
Published · Open access · 10.20870/oenone.2021.55.1.4502
- 10 Dinis, L.-T; Bernardo, S; Matos, C; Malheiro, A.C; Flores, R; Alves, S; Costa, C; et al. "Overview of Kaolin Outcomes from Vine to Wine: Cerceal White Variety Case Study". *Agronomy* 10 9 (2020): 1422-1422. <https://doi.org/10.3390/agronomy10091422>.
10.3390/agronomy10091422
- 11 Bernardo, S; Dinis, L.-T; Machado, N; Moutinho-Pereira, J. "Grapevine abiotic stress assessment and search for sustainable adaptation strategies in Mediterranean-like climates. A review". *Agronomy for Sustainable Development* 38 6 (2018): <https://doi.org/10.1007/s13593-018-0544-0>.
10.1007/s13593-018-0544-0
- 12 Conde, Artur; Neves, Andreia; Breia, Richard; Pimentel, Diana; Dinis, Lia-Tânia; Bernardo, Sara; Correia, Carlos Manuel; et al. "Kaolin particle film application stimulates photoassimilate synthesis and modifies the primary metabolome of grape leaves". *Journal of Plant Physiology* 223 (2018): 47-56. <http://dx.doi.org/10.1016/j.jplph.2018.02.004>.
10.1016/j.jplph.2018.02.004

- 13 Dinis, L.-T.; Bernardo, S.; Luzio, A.; Pinto, G.; Meijón, M.; Pintó-Marijuan, M.; Cotado, A.; Correia, C.; Moutinho-Pereira, J.. "Kaolin modulates ABA and IAA dynamics and physiology of grapevine under Mediterranean summer stress". *Journal of Plant Physiology* 220 (2018): 181-192. <http://dx.doi.org/10.1016/j.jplph.2017.11.007>.
10.1016/j.jplph.2017.11.007
- 14 Bernardo, S.; Dinis, L.-T.; Luzio, A.; Pinto, Glória; Meijón, Mónica; Valledor, Luís; Conde, A.; et al. "Kaolin particle film application lowers oxidative damage and DNA methylation on grapevine (*Vitis vinifera* L.)". *Environmental and Experimental Botany* 139 (2017): 39-47. <http://dx.doi.org/10.1016/j.envexpbot.2017.04.002>.
10.1016/j.envexpbot.2017.04.002
- 15 Conde, Artur; Pimentel, Diana; Neves, Andreia; Dinis, Lia-Tânia; Bernardo, Sara; Correia, Carlos M.; Gerós, Hernâni; Moutinho-Pereira, José. "Kaolin Foliar Application Has a Stimulatory Effect on Phenylpropanoid and Flavonoid Pathways in Grape Berries". *Frontiers in Plant Science* 7 (2016): <http://dx.doi.org/10.3389/fpls.2016.01150>.
10.3389/fpls.2016.01150
- 16 Dinis, L. T.; Ferreira, H.; Pinto, G.; Bernardo, S.; Correia, C. M.; Moutinho-Pereira, J.. "Kaolin-based, foliar reflective film protects photosystem II structure and function in grapevine leaves exposed to heat and high solar radiation". *Photosynthetica* 54 1 (2016): 47-55. <http://dx.doi.org/10.1007/s11099-015-0156-8>.
10.1007/s11099-015-0156-8
- 17 Dinis, L.-T.; Bernardo, S.; Conde, A.; Pimentel, D.; Ferreira, H.; Félix, L.; Gerós, H.; Correia, C.M.; Moutinho-Pereira, J.. "Kaolin exogenous application boosts antioxidant capacity and phenolic content in berries and leaves of grapevine under summer stress". *Journal of Plant Physiology* 191 (2016): 45-53. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84950272040&partnerID=MN8TOARS>.
10.1016/j.jplph.2015.12.005

Magazine article

- 1 Dinis, Lia-Tânia; Ana Luzio; Bernardo, S; José Moutinho-Pereira. "Efeito foto/termoprotetor do caulino potencia a qualidade de uvas brancas", *Agrotec - Revista técnico-científica agrícola*, 2021
- 2 Bernardo, S; Dinis, Lia-Tânia; Nelson Machado; José Moutinho-Pereira; Dinis, Lia-Tânia. "Estratégias de adaptação da viticultura Mediterrânica ao stresse estival severo", *Vida Rural - Revista Profissional de Agronegócios*, 2019

Thesis /
Dissertation

- 1 "Understanding vine response to Mediterranean summer stress for the development of rationale adaptation strategies: the kaolin case". PhD, Universidade de Trás-os-Montes e Alto Douro, 2021. <http://hdl.handle.net/10348/10987>.
- 2 Bernardo, Sara Silva. "Influence of kaolin particle film in antioxidant activities of leaf and berry extracts from *Vitis vinifera* L. (cv. Touriga Nacional)". Master, 2016. <http://hdl.handle.net/10348/5930>.

Activities

Oral presentation

	Presentation title	Event name Host (Event location)
2023/02/02	Understanding vine response to Mediterranean summer stress for the development of adaptation strategies: the kaolin case	IVES general assembly and Science meeting 2023 (Portugal)
2022/05/12	Kaolin application effects in Touriga-Franca leaf physiology, photoprotection responses and berry ripening under a changing climate	VII International Congress of Mountain and Steep Slopes Viticulture - CERVIM University of Trás-os-Montes and Alto Douro (UTAD) (Vila Real, Portugal)
2021/11/18	Adaptation measures: the kaolin case. Mini-workshop - Implications of Climate Change for Viticulture and Wine production, 18 november 2021, Instituto Superior de Agronomia (ISA), Universidade de Lisboa, Lisboa, Portugal.	Implications of Climate Change for Viticulture and Wine production Instituto Superior de Agronomia, Universidade de Lisboa, Portugal (Lisboa, Portugal)
2021/10/12	Keeping up with grapevine summer stress: the kaolin case	Symposium Agriculture and Food Sustainability – New climate change scenarios University of Madeira, Madeira Island, Portugal (Funchal, Portugal)
2018/12/07	O escaldão da videira: causas e possíveis medidas para o seu controlo	XVI Jornadas Técnicas de balanço (Arcos de Valdevez, Portugal)
2018/07	Assessing grapevine stress responses in the Douro region through kaolin application	SEB annual meeting SEB (Florence, Italy)
2018/05	Managing grapevine stress responses through kaolin application: effects on plant physiology and berry acidity	III International Symposium on Water, Soils and Geotechnology (Vila Real, Portugal)
2018/03/05	Estratégias de adaptação da viticultura face às alterações climáticas	Semana da Competitividade e Inovação 4INOVA.PT (Vila Real, Portugal)
2018/02/19	Physiological performance and grapevine quality during summer stress: the kaolin effect.	National Congress on climate change (Vila Real, Portugal)
2017/11/21	Conservation of acidity during grapevine ripening through kaolin application	XI Jornadas de Bioquímica (Vila Real, Portugal)

2017/06/07	Kaolin affects the physiology of grapevine under Mediterranean summer stress	VIII Congresso Ibérico de Ciências Hortícolas (Coimbra, Portugal)
2017/05/10	Efeito do caulino no bago de uva sob o stress estival	X Jornadas de Bioquímica (Vila Real, Portugal)
2017/05/10	Resistance of red wine varieties to summer stress: evaluation of grape berries quality of "Herdade do Esporão"	X Jornadas de Bioquímica, (Vila Real, Portugal)
2017/04/07	O uso potencial do caulino como protetor solar da vinha na Região Demarcada do Douro	Seminário: A geologia na Rota da Vinha e do Vinho na Região do Douro Superior (Torre de Moncorvo, Portugal)
2016/11/25	Enzymatic activity, oxidative damage and proline concentration effects regarding to kaolin application under summer stress.	II Jornadas de Engenharia Agronómica - UTAD (Vila Real, Portugal)
2016/10/22	Gestão das práticas culturais como medida de adaptação às alterações climáticas	Festival Moscatel Douro (Alijó, Portugal)
2016/10/12	Kaolin application boosts grapevine oxidative defence and enzymatic antioxidants under summer stress	10as Jornadas de Biologia (Vila Real, Portugal)
2016/10/06	Kaolin foliar application has a stimulatory effect on phenylpropanoid and flavonoid pathways in grape berries	Annual Conference COST FA1106 "Quality Fruit" (Porto, Portugal)
2016/09/17	O Impacte das alterações climáticas na vinha e no vinho: medidas de adaptação	Dia Regional do Engenheiro 2016 Ordem dos Engenheiros/Região Norte (Fafe, Portugal)
2016/05/28	Efeito do caulino como protetor do escaldão das folhas na videira	1ª Feira Agrícola de Lamego - 1as Jornadas da Vinha (Lamego, Portugal)
2016/05/04	Efeito benéfico do caulino no comportamento fisiológico das videiras e na composição fenólica das uvas	X Simpósio de Vitivinicultura do Alentejo (Évora, Portugal)
2015/04/15	Kaolin application boosts grapevine antioxidant capacity in the Douro valley	8th Biochemistry conferences - UTAD (Vila Real, Portugal)
2014/10/22	Effects of kaolin application on grapevine (Touriga Nacional cv.) physiological behaviour	8th Biology conferences - UTAD (Portugal)

2012/10/18	Immunolocalization of the cytokeratins 7 and 20 in the cat cystic endometrial hyperplasia	6th Biology conferences - UTAD (Portugal)
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Event organisation

	Event name Type of event (Role)	Institution / Organization
2016/07/27 - 2016/08/05	Workshop organization and presentation - "Immunohistochemical Method - Fluorescence" on the 19th Symposium of Biology Students in Europe – SymBioSE (UTAD, Vila Real) (2016/07/27)	

Event participation

	Activity description Type of event	Event name Institution / Organization
2022/04/13 - 2022/04/13	Ação de Divulgação da Oferta Educativa da UTAD - Laboratório de Histologia do Departamento de Biologia e Ambiente da UTAD Exhibition	Ação de Divulgação da Oferta Educativa da UTAD Universidade de Trás-os-Montes e Alto Douro, Portugal
2021/03/10 - 2021/03/10	JXB Series: Photoprotective energy dissipation is greater in the lower, not the upper, regions of a rice canopy: a 3D analysis Seminar	SEB Journal webinar Society of Experimental Biology (SEB), United Kingdom
2020/12/01 - 2020/12/01	Co-Chair in the first session - Climate Change and Viticulture: Climate change impact mitigation for European viticulture. Clim4Vitis Day Workshop (webinar), co-organized by PIK and the University of Geisenheim (Germany), on the 1st of December 2020. Congress	
2020/07/10 - 2020/07/10	online course - Introduction to Data Management Plans from the capacity-building programme Ready for BioData Management? Workshop	online course Introduction to Data Management Plans from the capacity-building programme Ready for BioData Management? BioData.pt, Portugal
2019/06/11 - 2019/06/11	Introducción a la Espectrometría de Masas en la Cromatografía Líquida Seminar	Instituto de Agroquímica y Tecnología de Alimentos, Spain

2017/11/15 - 2017/11/15

"Princípios Gerais para Obter uma
Publicação Científica"

Workshop

ReadyToPub, Portugal

Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2021/09/06 - 2021/12/17	Berry development and ripening	Post graduation in Wine Quality (Pós-Graduação)	Universidade de Trás-os-Montes e Alto Douro, Portugal
2020/11/25 - 2020/11/25	Laboratory Workshop: Ecophysiological state of vines. Activity performed within the Week of Science and Technology 2020 event (SC&T2020)	Workshop Laboratorial: Estado fisiológico da vinha. Atividade para a Semana da Ciência e Tecnologia 2020 (SC&T2020) (Outros)	Universidade de Trás-os-Montes e Alto Douro, Portugal

Interview (tv / radio show)

	Program	Theme
2017/03/17 - 2017/03/17	Lab2business. Valorização Económica para o Setor Agroalimentar	Kaolin application as a way to bypass climate change in Mediterranean vines (PT)

Distinctions**Award**

2022	2021 Best PhD Thesis award - Agronomy Journal MDPI AG, Switzerland
2021	Best oral presentation of the Symposium "Agriculture and Food Sustainability: New Climate Change Scenarios" Universidade da Madeira, Portugal
2018	Best oral communication at the National Congress on Climate Change
2018	Prémio de Investigação Fundação Maria Rosa: atribuído ao Projeto "Abordagem ecofisiológica e molecular para mapeamento vitivinícola na Região do Douro. (EcoVitiDouro)" liderado pela Investigadora Lia-Tânia Rosa Dinis

Other distinction

2017	Semi-finalist of the International Talking Science Contest "FameLab - Portugal" British Council and Ciência-Viva, Portugal
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