

Curriculum Vitae

Nelson Machado

Nelson Filipe Lopes Machado (N.F.L.Machado). Received both the Degree in Chemistry of Biological Processes in (2006) and the PhD in Biochemistry - Specialty in Molecular Biophysics (2012) from the University of Coimbra - Faculty of Science and Technology (FCTUC, Coimbra, Portugal), having later obtained a Master's in Oenology and Viticulture (2018) from the University of Trás-os-Montes and Alto Douro (UTAD, Vila Real, Portugal). Presently, he works as Researcher at INESC TEC (Porto, Portugal), since May 2024, after having worked as Senior Project Officer, in ADVID/CoLAB Vines&Wines (Vila Real, Portugal), between 2019-2024. Previously (2014-2019), N.F.L. Machado has worked as post-doctoral researcher at UTAD, which he joined after a first post-doctoral fellowship at UNIFI (Florence, Italy). N.F. L. Machado published >40 articles in specialized journals, which resulted in >1200 citations, and has an h-index 18 (SCOPUS, 01/2026). He co-supervised 3 doctoral theses and 2 master's theses, being also co-recipient of 6 awards and recognitions. He has been enthusiastic to attend highly recognized scientific meetings, participating in multiple round table and talks, and being co-author of >30 oral presentations. Concerning R&D+I projects, N.F.L. Machado participates and/or participated, in distinct roles, in more than 20 projects. N.F. L. Machado, presents a diverse background in distinct area(s), encompassing Agricultural Sciences with emphasis Agricultural and Food Biotechnology, Molecular Physical-Chemistry, Multivariate Analysis and Modelling. In his professional activities, he interacted with 121 collaborator(s) in co-authoring scientific works. In its Science Vitae curriculum, the most frequent terms in the context of scientific, technological and artistic-cultural production are: Flavones; Isoflavones; Spectroscopy; Multivariate analysis (PLS-DA); Analytical methods; Foodstuffs; Valorization; Biodiversity; Wastes; winery; Summer stress; mitigation; grape varieties; clonal selection; sustainability; food; Innovation; Infrared spectroscopy; Clone; Wine; Tempranillo; Phytochemical antioxidants; Phenols; Antioxidant; Structure-activity

Identificação

Identificação pessoal

Nome completo
Nelson Filipe Lopes Machado

Género
Masculino

Data de nascimento
1983/05/26

Nomes de citação

Machado, Nelson
N.F.L. Machado

Identificadores de autor

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Domínios de atuação

Ciências Agrárias - Biotecnologia Agrária e Alimentar - Biotecnologia Agrária e Biotecnologia Alimentar
Ciências Exatas - Química - Química Física
Ciências Agrárias - Biotecnologia Agrária e Alimentar - Biotecnologia Agrária e Biotecnologia Alimentar
Ciências Agrárias - Biotecnologia Agrária e Alimentar - Seleção com Base em Marcadores Moleculares
Ciências Agrárias - Biotecnologia Agrária e Alimentar - Biotecnologia Agrária e Biotecnologia Alimentar

Idiomas

Idioma	Conversação	Leitura	Escrita	Compreensão	Peer-review
Português (Idioma materno)					
Inglês	Utilizador independente (B1)	Utilizador proficiente (C1)	Utilizador proficiente (C1)	Utilizador independente (B1)	Utilizador proficiente (C1)
Espanhol; Castelhano	Utilizador proficiente (C1)	Utilizador independente (B1)	Utilizador independente (B1)	Utilizador proficiente (C1)	Utilizador independente (B2)
Italiano	Utilizador independente (B1)	Utilizador independente (B1)	Utilizador elementar (A1)	Utilizador independente (B1)	Utilizador elementar (A1)
Francês	Utilizador elementar (A1)	Utilizador independente (B1)	Utilizador elementar (A1)	Utilizador elementar (A2)	Utilizador elementar (A1)

Formação

	Grau	Classificação
2015/09/01 - 2018/10/31 Concluído	Enologia e Viticultura (EN: Oenology and Viticulture) (Mestrado) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal *"Application of FTIR spectroscopy as a clonal selection tool for the improvement of grape varieties: The Tinta Roriz case" (TESE/DISSERTAÇÃO)*	17

2008/01/01 - 2012/12/14 Concluído	Doutoramento em Bioquímica (EN: Biochemistry) (Doutoramento) Especialização em Biofisica Molecular (Molecular Biophysics Expertise) Universidade de Coimbra, Portugal Universidad de Málaga - Campus de Teatinos, Espanha *"Chromone Derivatives as Antioxidant Agents - The Structural Variable"* *(TESE/DISSERTAÇÃO)*	Aprovado com distinção e louvor, por unanimidade (Highest)
2001/09/01 - 2006/09/15 Concluído	Licenciatura em Química (EN: Chemistry) (Licenciatura) Especialização em Ramo Científico: Química dos Processos Biológicos (EN: Chemistry of Biological Processes) Universidade de Coimbra Faculdade de Ciencias e Tecnologia, Portugal *"Estudo de Cafeiatos Potencialmente Anticencerígenos: Influência do Grupo Éster"* *(TESE/DISSERTAÇÃO)*	15

Percurso profissional

Ciência

	Categoria Profissional Instituição de acolhimento	Empregador
2024/05/15 - Atual	Investigador Auxiliar (carreira) (Investigação) Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal
2014/04/01 - 2019/07/14	Pós-doutorado (Investigação) 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 Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal
2013/04/01 - 2014/03/31	Investigador Contratado (Investigação) Università degli Studi di Firenze Dipartimento di Chimica 'Ugo Schiff', Itália	Università degli Studi di Firenze Dipartimento di Chimica Ugo Schiff, Itália
2005/09/01 - 2006/09/15	Estagiário de Investigação (Investigação)	Universidade de Coimbra Unidade de Investigação e Desenvolvimento Química-Física Molecular, Portugal

Outros

	Categoria Profissional Instituição de acolhimento	Empregador
2019/07/15 - 2024/05/05	Senior Project Officer - Team & Project Management ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Associação para o Desenvolvimento da Viticultura Duriense, Portugal
2008/01/01 - 2012/12/15	PhD student	Universidade de Coimbra Unidade de Investigação e Desenvolvimento Química-Física Molecular, Portugal
2006/09/15 - 2007/12/31	Research team member, PhD candidate	Universidade de Coimbra Unidade de Investigação e Desenvolvimento Química-Física Molecular, Portugal

Projetos

Bolsa

	Designação	Financiadores
2008/01/01 - 2011/12/31	Chromone Derivatives as Antioxidant Agents - The Structural Variable. SFRH/BD/40235/2007 Bolseiro de Doutoramento Universidade de Coimbra Unidade de Investigação e Desenvolvimento Química-Física Molecular, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluído

Projeto

	Designação	Financiadores
2025/01/01 - 2029/12/31	INESC TEC – Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência UID/50014/2025 10.54499/UID/50014/2025 Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Em curso

2024/05/15 - 2025/12/31	PhenoBot - Fotónica Inteligente para Fenotipagem de Culturas Agroalimentares (EN: PhenoBot - Smart Photonics for Phenotyping of Agri-Food Crops) PRR - C05-i03-I-000134 Investigador Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	Concluído
2022/07/15 - 2024/05/05	CoLAB Vines & Wines base funding Nº 01/C05-i02/2022. Co-Investigador Responsável (Co-IR) Associação para o Desenvolvimento da Viticultura Duriense, Portugal	Agência Nacional de Inovação SA, Portugal Em curso
2023/07/10 - 2024/04/30	WATERFLOW - Rede de sensores para mapeamento do stress hídrico na vinha (EN: WATERFLOW: Sensor network for mapping water stress in the vineyard) WATERFLOW – Rede de sensores para mapeamento do stress hídrico na vinha Orientador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal Universidade de Trás-os-Montes e Alto Douro, Portugal	Caixa d'Estalvis i Pensions de Barcelona, Espanha Em curso
2023/03/01 - 2024/04/30	WATSON - An overall frameWork with Anticounterfeit and inTelligencebased technologieS that will assist food chain stakehOlders in rapidly identifying and preveNting the spread of fraudulent practices. Grant Agreement no.101084265 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	
2023/01/01 - 2024/04/30	DigiFarm2All - Sustentabilidade e Democratização da Agricultura 4.0 (EN: DigiFarm2All - Sustainability and Democratization of Agriculture 4.0) PRR-C05-i03-I-000108 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Concluído
2023/01/01 - 2024/04/30	SOLVIT - Solutions to restore degraded Soils in Mediterranean vineyards via Organic muLch and biochar derived from VITiculture industry waste. 01/C05-i09/2024.PC644866286-00000011 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Agência para a Competitividade e Inovação IP, Portugal Em curso

2023/01/01 - 2024/04/30	Agrob - Novel Robots for Monitoring, Fertilization And Selective Harvesting 01/C05-i09/2024.PC644866286-00000011 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Agência para a Competitividade e Inovação IP, Portugal Em curso
2023/01/01 - 2024/04/30	Decision-support systems (DSSs) for viticulture and winemaking practices 01/C05-i09/2024.PC644866286-00000011 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Agência para a Competitividade e Inovação IP, Portugal Em curso
2022/10/12 - 2024/04/30	SFT-EDIH: Smart Sustainable Farms Foods and Trade European Digital Innovation Hub https://www.iapmei.pt/Paginas/SFT-EDIH.aspx Desenvolvimento técnico ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Agência para a Competitividade e Inovação IP, Portugal Em curso
2022/10/01 - 2024/04/30	InovTransfer - Inovação na Transferência de Conhecimento e Tecnologia no Sector Vitivinícola, foram desenvolvidos dois manuais técnicos (EN: InovTransfer - Innovation in the Transfer of Knowledge and Technology in the Wine Sector, two technical manuals were developed) PDR2020-2024-080384 Desenvolvimento técnico Associação para o Desenvolvimento da Viticultura Duriense, Portugal	Concluído
2022/10/01 - 2024/04/30	Wine4Cast - Spatio-temporal prediction of vineyard productivity for multi-actor usability: integration of remote optical-photonic sensors, artificial intelligence and climate scenarios. PRR-C05-i03-I-000071 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Concluído
2021/10/01 - 2024/04/30	Vine and Wine Portugal - Driving Sustainable Growth Through Smart Innovation 01/C05-i09/2024.PC644866286-00000011 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Agência para a Competitividade e Inovação IP, Portugal Em curso

2019/10/01 - 2023/03/31	VInCI - Vin, Innovation et Competitivité Internationale (EN: VInCI - Wine, Innovation and International Competitiveness). SOE3/P2/F0917 Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Concluído
2019/10/01 - 2023/03/31	VINIoT – Serviço de viticultura de precisão baseado na rede de sensores IoT para a transformação digital de PME no espaço SUDOE (VINIoT – Precision viticulture service based on IoT sensor network for the digital transformation of SMEs in the SUDOE space) SOE3/P2/E0911 Investigador Associação para o Desenvolvimento da Viticultura Duriense, Portugal	Concluído
2020/11/01 - 2023/02/28	COPPEREPLACE – Development and implementation of new technologies, products and strategies to reduce copper application in vineyards and remediate contaminated soils in the SUDOE region. SOE4/P1/E1000 - COPPEREPLACE Investigador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Concluído
2021/09/01 - 2022/10/30	ReWine | Re-desenhar, Re-adaptar e Re-inventar, rumo a uma Economia Circular (EN: Re-design, Re-adapt and Re-invent, towards a Circular Economy) Aviso n.º 6700/2021 Orientador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Concluído
2019/07/15 - 2022/07/14	Laboratório Colaborativo da Vinha e do Vinho - CoLAB VINES & WINES (EN: Collaborative Laboratory Vines & Wines - CoLAB VINES & WINES)) RHAQ/COLAB - Operação nº NORTE-06-3559-FSE-000067 Senior Project Officer - Team Management Associação para o Desenvolvimento da Viticultura Duriense, Portugal	Comissao de Coordenacao e Desenvolvimento Regional do Norte, Portugal Concluído
2022/01/01 - 2022/06/30	MiKS4Vine and ZEONI - New Products/formulations to promote a vine more resilience to climatic changes 01/C05-i09/2024.PC644866286-00000011 Proposal preparation ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Agência para a Competitividade e Inovação IP, Portugal Em curso

2022/01/01 - 2022/06/30	VineAdapt2Climate - Modelação e projecção de diversos eventos climáticos (EN: VineAdapt2Climate - Modeling and projection of various climate events) 01/C05-i09/2024.PC644866286-00000011 Proposal preparation ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Agência para a Competitividade e Inovação IP, Portugal Em curso
2020/06/01 - 2021/06/30	SutainWine Aviso n.º 7778/2020 - projeto 448 Orientador ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Governo da República Portuguesa Ministério do Ambiente, Portugal Concluído
2019/10/01 - 2021/06/30	INFRAVINI- Creation of Spatial Data Infrastructure for Climate Change Management in the Vineyard NORTE-01-0247-FEDER-039739 Investigador Associação para o Desenvolvimento da Viticultura Duriense, Portugal	Concluído
2020/06/01 - 2021/01/31	SAT2WATER - Using SATellite data to support WATER management H2020-LC-GD-2020/LC-GD-9-2-2020/101036779 Investigador responsável ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal	Não financiado
2016/10/01 - 2019/07/14	Innovine & Wine - Vine and Wine Innovation Platform. NORTE-01-0145-FEDER-000038 Bolseiro de Pós-Doutoramento Universidade de Trás-os-Montes e Alto Douro, Portugal	Concluído
2014/04/01 - 2016/10/31	INNOFOOD - NNOvation in the FOOD sector through the valorisation of food and agro food by products. NORTE-07-0124-FEDER-0000029 Bolseiro de Pós-Doutoramento Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal	Concluído
2016/05/01 - 2016/09/30	Fostering viticulture sustainability for Douro Valley: multidisciplinary efforts from field to wine (VitalityWINE) NORTE-01-0145-FEDER-000017 Investigador Universidade de Trás-os-Montes e Alto Douro Centro de Investigação e de Tecnologias Agro-Ambientais e Biologicas, Portugal	Concluído

2013/04/01 - 2014/03/31	Characterization of novel heme proteins and biomolecules in solution and interacting with metallic nanoparticles to highlight the presence of conformational changes upon interaction. CHIM/02 - CHIMICA FISICA Bolseiro de Pós-Doutoramento	
2011/01/01 - 2013/12/31	Projecto Estratégico - UI 70 - 2011-2012 PEst-OE/QUI/UI0070/2011 Instituto Politécnico de Coimbra, Portugal Universidade de Coimbra, Portugal Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal Universidade de Coimbra Unidade de Investigação e Desenvolvimento Química-Física Molecular, Portugal Instituto Politécnico de Leiria Escola Superior de Educação e Ciências Sociais, Portugal Universidade do Porto Faculdade de Farmácia, Portugal Cooperativa de Ensino Superior Politécnico e Universitário CRL, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluído
2005/10/15 - 2007/04/15	Desenvolvimento de Novos Agentes Anticancerígenos: Derivados Fenólicos de Origem Natural ou Sintética - Relações Estrutura-Actividade (EN: Development of New Anticancer Agents: Phenolic Derivatives of Natural or Synthetic Origin - SARs) POCI/QUI/55631/2004 Universidade do Porto Faculdade de Ciências, Portugal Universidade de Coimbra, Portugal Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal Universidade de Coimbra Unidade de Investigação e Desenvolvimento Química-Física Molecular, Portugal Universidade do Porto Faculdade de Farmácia, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluído

Outro

	Designação	Financiadores
2024/12/01 - 2025/06/02	Twins Foods - Food Surrogates and Digital Twins To End Food Waste Twin-Foods Investigador Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal	
2022/01/01 - 2022/06/30	Waterflow - Mapeamento do Stress Hídrico na vinha através de uma rede de sensores (EN: Waterflow - Mapping Water Stress in Vineyards Using a Network of Sensors) Waterflow Orientador	Caixa d'Estalvis i Pensions de Barcelona, Espanha Concluído

Universidade de Trás-os-Montes e Alto Douro, Portugal
ADVID - Cluster da Vinha e do Vinho e CoLAB
VINES&WINES, Portugal

Produções

Publicações

Artigo em conferência

1 Carbas, Bruna; Machado, Nelson; Brites, Carla; Rosa, Eduardo A.S.; Barros, Ana I. R.N.A.. "New Insights in the Quality of Phaseolus vulgaris L.: Nutritional Value, Functional Properties and Development of Innovative Tools for Their Assessment". Trabalho apresentado em *1st International Electronic Conference on Food Science and Functional Foods*, *online*, 2020.

Publicado • 10.3390/foods_2020-07726

2 Machado, Nelson. "Genotypic Variation For Carotenoids Content and Chemometric Model Development For Seed Quality Parameters in Wheat.". Trabalho apresentado em *Agriculture and Climate Change – Adapting Crops to Increased Uncertainty.*, *Amsterdão*, 2015.

Publicado • https://doi.org/10.1016/j.proenv.2015.07.240

3 Duó, Danielli; Felix, Jorge L.P.. "Análise imediata de açúcares e acidez titulável em mirtilos através de espectroscopia de Infravermelho (EN: Immediate analysis of sugars and titratable acidity in blueberries using Infrared spectroscopy)". Trabalho apresentado em *3º Simpósio Nacional de Fruticultura*, *Vila Real*, 2014.

10.5540/03.2014.002.01.0022

4 Machado, Nelson. "Avaliação do conteúdo fenólico e atividade antioxidante de suplementos alimentares baseados em frutas e frutos vermelhos (EN: Evaluation of the phenolic content and antioxidant activity of food supplements based on fruits and berries)". Trabalho apresentado em *3º Simpósio Nacional de Fruticultura.*, *Vila Real*, 2014.

Publicado

5 N.F.L. Machado. Autor correspondente: N.F.L. Machado. "Chromones as Antioxidant Agents – Structural Elucidation by Raman Spectroscopy Coupled to Theoretical Methods.". *Salamanca*, 2008.

Artigo em revista

1 De Almeida, Antônio Thiago Soares; Paes, Juarez Benigno; Figueiredo, Damielle Leite; Barros, Ana Isabel; Chaves, Izabella Luzia Silva; Machado, Nelson Filipe Lopes; Gonçalves, Fabricio Gomes; et al. "Efficacy of extracts from Amazonian wood processing residues in protecting rubberwood against xylophagous termites". *Wood Material Science and Engineering* (2026): 1-14. https://doi.org/10.1080/17480272.2026.2666645.

10.1080/17480272.2026.2666645

2 Vieira, Ângela; Nascimento, Amanda Priscila Silva; Branco, Maria Zélia; Martins-Lopes, Paula; Eiras-Dias, José Eduardo; Brazão, João; Ferreira, Luís; Machado, Nelson; Barros, Ana Novo. "FTIR-ATR Spectroscopy and Chemometrics for Varietal Screening of PDO Douro Monovarietal Wines: An Exploratory Feasibility Study". *Molecules* 31 6 (2026): 1004. https://doi.org/10.3390/molecules31061004.

10.3390/molecules31061004

3 Carbas, B.; Machado, N.; Pathania, S.; Brites, C.; Rosa, E.A.S.; Barros, A.I.R.N.A.. "Potential of Legumes: Nutritional Value, Bioactive Properties, Innovative Food Products, and Application of Eco-friendly Tools for Their Assessment". *Food Reviews International* 39 1 (2023): 160-188. http://www.scopus.com/inward/record.url?eid=2-s2.0-85104383874&partnerID=MN8TOARS.

10.1080/87559129.2021.1901292

4 Yang, C.; Menz, C.; Reis, S.; Machado, N.; Santos, J.A.; Torres-Matallana, J.A.. "Calibration for an Ensemble of Grapevine Phenology Models under Different Optimization Algorithms". *Agronomy* 13 3 (2023): http://www.scopus.com/inward/record.url?eid=2-s2.0-85152432195&partnerID=MN8TOARS.

10.3390/agronomy13030679

5 Bernardo, S.; Rodrigo, M.J.; Vives-Peris, V.; Gómez-Cadenas, A.; Zacarías, L.; Machado, N.; 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): http://www.scopus.com/inward/record.url?eid=2-s2.0-85114720557&partnerID=MN8TOARS.

10.1016/j.scienta.2021.110584

6 Bernardo, S.; Dinis, L.-T.; Machado, N.; Barros, A.; Pitarch-Bielsa, M.; Malheiro, A. C.; Gómez-Cadenas, A.; 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* 102 2 (2022): 782-793. http://www.scopus.com/inward/record.url?eid=2-s2.0-85110486423&partnerID=MN8TOARS.

10.1002/jsfa.11413

7 Ferreira, L.; Machado, N.; Gouvinhas, I.; Santos, S.; Celaya, R.; Rodrigues, M.; Barros, A.. "Application of Fourier transform infrared spectroscopy (FTIR) techniques in the mid-IR (MIR) and near-IR (NIR) spectroscopy to determine n-alkane and long-chain alcohol contents in plant species and faecal samples". *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy* 280 (2022): http://www.scopus.com/inward/record.url?eid=2-s2.0-85132778018&partnerID=MN8TOARS.

10.1016/j.saa.2022.121544

8 Bernardo, S.; Dinis, L.-T.; Luzio, A.; Machado, N.; Vives-Peris, V.; López-Climent, M. F.; Gómez-Cadenas, A.; 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. http://www.scopus.com/inward/record.url?eid=2-s2.0-85103123496&partnerID=MN8TOARS.

10.1016/j.plaphy.2021.03.038

9 Bernardo, S.; Dinis, L.-T.; Machado, N.; Barros, A.; Pitarch-Bielsa, M.; Gómez-Cadenas, A.; Moutinho-Pereira, J.. "Kaolin impacts on hormonal balance, polyphenolic composition and oenological parameters in red grapevine berries during ripening". *Journal of Berry Research* 11 3 (2021): 465-479. http://www.scopus.com/inward/record.url?eid=2-s2.0-85114037916&partnerID=MN8TOARS.

10.3233/JBR-210737

10 Bernardo, S.; Dinis, L.-T.; Luzio, A.; Machado, N.; Gonçalves, A.; Vives-Peris, V.; Pitarch-Bielsa, M.; 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://www.scopus.com/inward/record.url?eid=2-s2.0-85103653466&partnerID=MN8TOARS.

10.20870/OENO-ONE.2021.55.1.4502

11 Yang, C.; Menz, C.; Fraga, H.; Reis, S.; Machado, N.; Malheiro, A.C.; Santos, J.A.. "Simultaneous calibration of grapevine phenology and yield with a soil–plant–atmosphere system model using the frequentist method". *Agronomy* 11 8 (2021): http://www.scopus.com/inward/record.url?eid=2-s2.0-

85113936673&partnerID=MN8TOARS.

10.3390/agronomy11081659

12 Bernardo, S.; Luzio, A.; Machado, N.; Ferreira, H.; Vives-Peris, V.; Malheiro, A.C.; Correia, C.; et al. "Kaolin application modulates grapevine photochemistry and defence responses in distinct mediterranean-type climate vineyards". *Agronomy* 11 3 (2021): http://www.scopus.com/inward/record.url?eid=2-s2.0-85108825899&partnerID=MN8TOARS.

10.3390/agronomy11030477

13 Machado, Nelson. "Nutrients, Antinutrients, Phenolic Composition, and Antioxidant Activity of Common Bean Cultivars and their Potential for Food Applications". *Antioxidants* (2020): http://dx.doi.org/10.3390/antiox9020186.

10.3390/antiox9020186

14 Bruna Carbas; Nelson Machado; David Oppolzer; Luis Ferreira; Carla Brites; Eduardo A.S. Rosa; Ana I.R.N.A. Barros. "Comparison of near-infrared (NIR) and mid-infrared (MIR) spectroscopy for the determination of nutritional and antinutritional parameters in common beans". *Food Chemistry* 306 (2020): 125509-125509. https://doi.org/10.1016/j.foodchem.2019.125509.

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Artigo em revista (magazine)	1	Pian, Livia; Machado, Nelson; António Pinto; Estevinha, Raul; Jucilene Siqueira; André Duque; José Silvestre ; Cátia Pinto. "Informações microclimáticas para apoio à viticultura (EN: Microclimatic information to support viticulture)", Revista Voz do campo, 2024, https://vozdocampo.pt/arquivo/21553.
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	3	Bernardo, S; Dinis, L.-T; N.F.L. Machado; Moutinho-Pereira, José Manuel. "Estratégias de adaptação da viticultura mediterrânica ao stresse estival severo", Vida Rural - Revista Profissioal de Agronegócios, 2019
Poster em conferência	1	Bernardo, S; Dinis, L.-T; Machado, Nelson; Moutinho-Pereira, José Manuel. Autor correspondente: Bernardo, S. "Kaolin effects on berry quality of Touriga-Franca grapevines in distinct Mediterranean wine-growing regions". 2021.
	2	Sara Bernardo; Dinis, Lia-Tânia; Luzio, Ana; Machado, Nelson; Gonçalves, Alexandre; Correia, Carlos; Moutinho-Pereira, José Manuel. "Optimizing grapevine acclimation strategies in the Douro Region through kaolin application.". 2020.

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	40	Machado, Nelson. "A Theoretical and Spectroscopy Study of the Conformational Behaviour of Ferulic Acid Derivatives.". Trabalho apresentado em *IV CIE (IV Congresso Ibérico de Espectroscopia/XX Reunión Española de Espectroscopía)*, 2006.
	41	Machado, Nelson. "Spectroscopic Studies on Hydroxycinnamic Acid Derivatives as Potential Anti-inflammatory Agents.". Trabalho apresentado em *IV CIE (IV Congresso Ibérico de Espectroscopia/XX Reunión Española de Espectroscopía)*, 2006.
Tese / Dissertação	1	"Application of FTIR spectroscopy as a clonal selection tool for the improvement of grape varieties: The Tinta Roriz case". Mestrado, Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, 2018. http://hdl.handle.net/10348/9145.
	2	"Chromone derivatives as antioxidant agents: the structural variable". Doutoramento, Universidade de Coimbra, 2012. http://hdl.handle.net/10316/23600.

Atividades

Apresentação oral de trabalho

	Título da apresentação	Nome do evento Anfitrião (Local do evento)
2025/12/03	'Plant Drive Agriculture', com recurso a wearables inteligentes, para uma agricultura causal de alta rentabilidade e resiliência: o caso de estudo do Phenowear (EN: Plant Drive Agriculture, using smart wearables, for highly profitable and resilient causal agriculture: the Phenowear case study.)	Ação de sensibilização para a Digitalização da Agricultura (EN: Awareness campaign for the digitalization of agriculture.) AJAP (EN: Association of the young Portuguese farmers) (Peso da Régua, Portugal)
2025/09/10	Real-time monitoring of leaves' gaseous exchange in C3 green plants: the thermodynamical role of water	II International Meeting Molecules4Life Universidade de Trás-os-Montes e Alto Douro (Vila Real, Portugal)
2023/02/02	Understanding vine to Mediterranean summer stress for the development of adaptation strategies: The kaolin case.	IVES (Porto, Portugal)
2022/11/23	Touriga Franca: do colapso de 2020 ao ressurgimento em 2022, como funciona esta casta? (EN: Touriga Franca: from the 2020 collapse to the resurgence in 2022, how does this variety work?)	VitiVino-2022. II Simpósio de Viticultura & IV Colóquio Vitivinícola Associação Portuguesa de Horticultura (Palmela, Portugal)
2022/11/23	INFRAVINI – Infraestrutura de dados espaciais temática para apoio à gestão das alterações climáticas na vinha (EN: INFRAVINI -Thematic spatial data infrastructure to support climate change management in vineyards).	VitiVino-2022. II Simpósio de Viticultura & IV Colóquio Vitivinícola APH (Palmela, Portugal)
2022/11/23	Desenvolvimento de uma rede de sensores para mapeamento do estado hídrico na vinha (EN: Development of a network of sensors for mapping vineyard water status)	VitiVino-2022. II Simpósio de Viticultura & IV Colóquio Vitivinícola APH (Palmela, Portugal)
2022/11/23	Digitalização e mecanização adaptada à viticultura de montanha – o futuro é hoje? (EN: Digitalization and mechanization adapted to mountain viticulture – is the future today?)	VitiVino-2022. II Simpósio de Viticultura& IV Colóquio Vitivinícola APH (Palmela, Portugal)
2022/05/13	Kaolin application effects in Touriga-Franca leaf physiology, photoprotection responses and berry ripening under a changing climate.	7th International Congress of Mountain and Steep Slopes Viticulture (VII CERVIM) CERVIM (Vila Real, Portugal)
2021/12/15	Mecanização, robótica, plataformas de apoio à decisão, o que é que pode fazer a diferença e reduzir custos? (EN: Mechanization, robotics, DSS platforms, what can make a difference and reduce costs?)	Conferências Vida Rural: "Verdes" anos (https://www.youtube.com/watch?v=9UV1wOOTDc8) Revista Vida Rural (Porto, Portugal)

2021/10/12	Kaolin effects on berry quality of Touriga-Franca grapevines in distinct Mediterranean wine-growing regions.	ARDITI (Funchal, Portugal)
2021/10/11	Keeping up with grapevine summer stress: the kaolin case	ISOPlexis – Center for Sustainable Agriculture and Food Technology (Funchal, Portugal)
2021/08/10	Prediction of phytochemical composition, in vitro antioxidant activity and individual phenolic compounds of common beans using MIR and NIR spectroscopy.	The 4th International Conference on applied Biochemistry and Biotechnology (Jinzhou/online, China)
2020/11/10	New insights in the quality of Phaseolus vulgaris L.: nutritional value, functional properties and development of innovative tools for their assessment.	MDPI - Foods
2019/11/20	Application of FTIR (Fourier Transform Infrared Spectroscopy) for determination of nutritional and antinutritional parameters in bean samples	Sociedade Portuguesa de Química (SPQ) e Colégio Oficial de Químicos da Galiza (COLQUIGA) (Santiago de Compostela, Espanha)
2018/07/05	Adaptability of some red grape varieties at Alentejo terroir: comparative study of physiological and biochemical analysis.	The Society for Experimental Biology's (SEB) Annual Main Meeting The Society for Experimental Biology (´Florença, Itália)
2018/07/04	Assessing grapevine stress responses in the Douro region through kaolin application.	The Society for Experimental Biology's (SEB) Annual Main Meeting Society for Experimental Biology (Florence, Itália)
2018/05/18	Managing grapevine stress responses through kaolin application: Effects on plant physiology and berry acidity.	II SASGEO (II Simpósio Internacional de Águas, Solos e Geotecnologias) Universidade de Trás-os-Montes e Alto Douro (Vila Real, Portugal)
2018/04/28	Comparison between the oenological performance of two 'Vitis vinifera' grape varieties in distinct harsh sites: Is wine caste preponderant for stress resistance?	VI International congress on mountain and steep slope viticulture. CERVIM (La Laguna, Espanha)
2018/03/07	Assessing grapevine physiological performance through kaolin application under severe field conditions.	III Jornadas de Engenharia Agronómica. Universidade de Trás-os-Montes e Alto Douro (Vila Real, Portugal)
2018/02/20	Physiological performance and grapevine quality during summer stress: the kaolin effect.	National Congress on climate change (CNAC) Universidade de Trás-os-Montes e Alto

		Douro (Vila Real, Portugal)
2017/11/23	Conservation of acidity during grapevine ripening through kaolin application.	Semana Ciência e Tecnologia, Ciência e Cidadania. Universidade de Trás-os-Montes e Alto Douro (Vila Real, Portugal)
2017/11/15	Does FTIR-ATR represent a suitable tool for evaluating summer stress exposure in vineyard?	XXIII Encontro Luso-Galego de Quimica. Colégio Oficial de Químicos de Galiza. (Ferrol, Espanha)
2017/11/03	As folhas da videira: aqui começa efetivamente um vintage, portanto há que as tratar bem!	Open Day ModelVitiDouro: Novos desafios para a viticultura num clima em mudança. Régia Douro Park (Vila Real, Portugal)
2016/05/27	FTIR methods for the study of food matrices and by-products: On the path to the sustainability.	CITAB's Science Release Centre for the Research and Technology of Agro-Environmental and Biological Sciences (CITAB) (Vila Real, Portugal)
2015/11/19	Usage of FTIR for the classification of different infection timings of olive drupes with Colletotrichum acutatum resorting to FTIR.	XXI Encontro Luso-Galego de Química Colegio Oficial de Químicos de Galicia (COLQUIGA) (Pontevedra, Espanha)
2015/11/19	Traceability of Grape Varieties in PDO Douro Wines: FTIR as an innovative prompt tool.	XXI Encontro Luso-Galego de Química Colegio Oficial de Químicos de Galicia (COLQUIGA) (Pontevedra, Espanha)
2015/08/15	Raman Spectroscopy as a Screening Method of fatty Acid Oxidation.	23rd ICORS (International Conference on Raman Spectroscopy) Yonsei University (Bangalore, Índia)
2015/06/04	Is there a simpler procedure to assess the phenolic content in wheat?	9th World congress of Polyphenols and applications. International Society of Antioxidant in Nutrition and Health (ISANH) (St. Julian's, Malta)
2014/11/27	Infravermelho vs métodos colorimétricos: Correlação entre conteúdo fitoquímico e atividade antioxidante em mirtilos (Infrared vs colorimetric methods: Correlation between phytochemical content and antioxidant activity in blueberries)	XX Encontro Luso-Galego de Química Faculdade de Ciências da Universidade do Porto (Porto, Portugal)
2014/11/14	By-products valorization: physicochemical properties and phytochemical content of a new grape stems-based liquer.	XX Encontro Luso-Galego de Química. Sociedade Portuguesa de Química (Porto, Portugal)

2014/10/16	Espectroscopia Vibracional: Uma Ferramenta para análise imediata de matrizes alimentares (EN: Vibrational Spectroscopy: A Tool for instant analysis of food matrices).	V Jornadas de Ciência Alimentar Nucleo de Estudades de Ciência Alimentar da AAUTAD (NECA-AAUTAD) (Vila Real, Portugal)
2014/07/10	Copper (II) complexes of cinnamic and caffeic acid: A Raman study	VIII Congresso Ibérico de Espectroscopia/XXIV Reunión Española de Espectroscopía. Universedad de la Rioja (Logroño, Espanha)
2012/08/14	Raman Spectroscopy as a Screening Method of fatty Acid Oxidation	23rd ICORS (International Conference on Raman Spectroscopy) ICORS (Bangalore, Índia)
2010/09/09	A Conformational Study of 3-Methyl-8-carboxylic Acid Flavone by Vibrational Spectroscopy.	VI CIE (VI Congresso Ibérico de Espectroscopia/XXII Reunión Española de Espectroscopía. Faculdade de Ciências da Universidade do Porto (Porto, Portugal)
2006/10/13	The Medicinal Chemistry´s Contribution in the Discovery of Anticancer Agents.	Medicinal Chemistry in the 21st Century. Sociedade Portuguesa de Química (Lisboa, Portugal)
2006/09/23	Phenolic Derivatives as Potential Anticancer Agents.	3rd International Conference on Oxidative Stress in Skin Medicine and Biology University of Athens (Andros, Grécia)
2006/03/23	Phenolic Derivatives: A New Challenge for Anticancer Therapy.	Smart Toxicology: Subcellular Targets of Anticancer Therapy" - Cursos Internacionais de Toxicologia. Centro de Neurociências e Biologia celular da Universidade de Coimbra (Coimbra, Portugal)

Orientação

	Título/Tema Papel desempenhado	Curso (Tipo) Instituição / Organização
2025/09/01 - Atual	Otimização da eficiência quântica da fotossíntese em plantas C3: simulação computacional multi-escala e inteligência artificial da maquinaria molecular do cloroplasto (EN: Optimization of the quantum efficiency of photosynthesis in C3 plants: multiscale computational simulation and artificial intelligence of the chloroplast molecular machinery).	Engenharia Física (Mestrado) Universidade do Porto Faculdade de Ciências, Portugal

	Coorientador	
2022/03/01 - 2022/06/30	Climate change impact on grapevine phenology - analysing the potential of the General Sigmoid Model in the Douro Demarcated Region, Portugal Coorientador	International Land and Water Management (Wageningen University & Research) (Licenciatura/Bacharelato) Associação para o Desenvolvimento da Viticultura Duriense, Portugal Universidade do Porto, Portugal Wageningen University, Países Baixos
2017/01/01 - 2021/11/05	Understanding vine response to Mediterranean summer stress for the development of rationale adaptation strategies: the kaolin case. Coorientador	Cadeias de Produção Agrícola - da mesa ao campo (Doutoramento) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal
2017/01/01 - 2020/05/22	Potential of Phaseolus vulgaris: Nutritional values, functional properties and development of innovative tools for their assessment. Coorientador	Cadeias de Produção Agrícola - da mesa ao campo (Doutoramento) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal
2015/07/01 - 2020/05/21	Selection of 'Tinta Roriz' clones for excellence in winery industry. Coorientador	Cadeias de Produção Agrícola - da mesa ao campo (Doutoramento) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal
2019/02/01 - 2019/07/15	Maceração de engaços em aguardente vínica utilizada para fortificação de vinhos do Porto: avaliação do impacto no desenvolvimento da cor de vinhos do Porto tintos (EN: Maceration of grape stems in liquor used to fortify Port wines: assessment of the impact on the color development of red Port wines). Coorientador	Bioquímica (Licenciatura/Bacharelato) Universidade de Trás-os-Montes e Alto Douro, Portugal
2017/10/01 - 2019/02/20	Aplicação das técnicas de espectroscopia de infravermelho com transformada de Fourier (FTIR), nos intervalos médio (MIR) e próximo (NIR), para avaliação do conteúdo em n-alcanos e álcoois de cadeia longa de amostras vegetais e fecais (EN: Application of Fourier transform infrared spectroscopy (FTIR) techniques in the mid (MIR) and near (NIR) ranges, to evaluate the content of n-alkanes and long-chain alcohols in plant and fecal samples). Coorientador	Engenharia Zootécnica (Mestrado) Universidade de Trás-os-Montes e Alto Douro, Portugal

2017/10/01 - 2018/06/30	Melhoramento da casta tinta Roriz através da avaliação de diferentes clones em diferentes estados de maturação (EN: Improvement of the Tempranillo grape variety through the evaluation of different clones at distinct ripening stages). Orientador	Ciência Alimentar (Licenciatura/Bacharelato) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências da Vida e do Ambiente, Portugal
2015 - 2016/05/17	Inovação no setor vitivinícola: autenticação de vinhos monocasta da Região Demarcada do Douro, através de espetroscopia de Infravermelho (EN: Innovation in the winemaking sector: authentication of single-varietal wines from the Douro Demarcated Region, through Infrared spectroscopy). http://hdl.handle.net/10348/7208. Coorientador	Mestrado em Enologia (Mestrado) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal
2014/10/01 - 2015/06/01	Propriedades do 'Aloe vera': No encalço das moléculas responsáveis (EN: 'Aloe vera' peroperties: Tracking down the responsible molecules). Coorientador	Quimica Medicinal (Licenciatura/Bacharelato) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências da Vida e do Ambiente, Portugal

Organização de evento

	Nome do evento Tipo de evento (Tipo de participação)	Instituição / Organização
2023/07/01 - 2024/03/18	Organization of the workshop: Racionalização da Vinha de Encosta (EN: Rationalization of Mountain Viticulture), within the training and capacity building component of the project "Agenda mobilizadora Vine & Wine PT" (2024/03/18 - 2024/03/18) Oficina (workshop) (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2023/07/01 - 2024/03/15	Organization of the workshop: Formação 8.1.5 (Agroecologia) (EN: Training 8.1.5 (Agroecology)), within the training and capacity building component of the project "Agenda mobilizadora Vine & Wine PT" (2024/03/14 - 2024/03/15) Oficina (workshop) (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2023/06/01 - 2023/10/26	Synergy Day: Robotics and IoT for Vineyards - promoted by INESC TEC with the support of InovTechAgro, Sogrape and ADVID/CoLAB Vines&Wines, demonstrated IoT solutions for vineyard monitoring tasks	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal

	on Douro terraces, using three robots that promise to revolutionize the wine sector. (2023/10/26 - 2023/10/26) Outro (Coorganizador)	
2023/04/01 - 2023/07/06	Within the "Vineyard Days" initiative, CoLAB V&W has organized a demonstration session entitled "Technological innovations in viticultural machinery for mountain viticulture in the Douro vineyards" to show the latest advances of these technologies, in actual vineyard environment. This session took place at Quinta das Carvalhas, Pinhão, in the Douro Demarcated Region. (2023/07/06 - 2023/07/06) Outro (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2023/01/01 - 2023/05/26	Within the "Vineyard Days" initiative, it was conducted the Workshop: Trends and digital innovations applied to the wine sector, to show, and test, the latest digital tools developed to support the vintiviniculture sector. This even comprised both a room session and field demonstrations and took place at Quinta da Pacheca, Peso da Régua, Douro region. (2023/05/26 - 2023/05/26) Oficina (workshop) (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2023/03/23 - 2023/03/23	The Seminar: "Strategic Management in the Wine Sector: How Decision Support Tools Can Increase Competitiveness", the VINCI project, presented, in addition to the results obtained throughout this project, the tools developed to support decision-making and the adaptation of SMEs to the market, besides complementary platforms presented by other entities such as the IVDP, the regulatory entity of the Douro Region. (2023/03/23 - 2023/03/23) Seminário (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2023/03/08 - 2023/03/08	The Workshop "The impact of innovation in supporting SMEs in the Wine Sector", organized by ADVID/CoLAB VINES&WINES, aimed to present the results of the project VINCI - Vin, Innovation et Compétitivité Internationale, which includes a tool for selecting export markets, as well as the VINIOT project - Precision viticulture service based on the IoT sensor network for the digital transformation of SMEs in the SUDOE space. (2024/03/08 -	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal

	2024/03/08) Oficina (workshop) (Coorganizador)	
2022/09/30 - 2022/09/30	Workshop - Será a Economia Circular para todos? (EN: Will the Circular Economy be suitable for everyone?) (2022/09/30 - 2022/09/30) Oficina (workshop) (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2022/06/06 - 2022/06/06	Workshop: Ferramentas de suporte à decisão na viticultura: futuro ou presente? (EN: Decision support tools in viticulture: future or present?) (2022/06/06 - 2022/06/06) Oficina (workshop) (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2022/05/13 - 2022/05/13	Technical session, within the official program of the VII CERVIM congress - Technological solutions for mountain viticulture: demonstration of machines and equipment, in Quinta de Prados, UTAD - Vila Real. A field demonstration session intending to show the latest technologies and implements regarding the mountain viticulture challenges. (2022/05/11 - 2022/05/14) Outro (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal Inov4Agro Pólo Universidade de Trás-os-Montes e Alto Douro, Portugal CERVIM - Centre for Research, Environmental Sustainability and Advancement of Mountain Viticulture, Itália
2022/05/13 - 2022/05/13	Technical session demonstrating machines and equipment for vitiviniculture, at Quinta de Prados, UTAD - Vila Real. A field demonstration session, directed to ADVID Associates ans other producers, intending to show the latest technologies and implements regarding the mountain viticulture challenges. (2022/05/13 - 2022/05/13) Outro (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal Universidade de Trás-os-Montes e Alto Douro, Portugal
2022/01/27 - 2022/01/27	Within the INFRAVINI project, CoLAB V&W organized, alongside the other partners of this project, the webinar “Impact Management of Climate Change in the Vineyard”. This event aimed to present the Infrastructure of Spatial Data, an innovative decision support platform, developed through INFRAVINI, and start collecting feedback concerning its applicability in the Douro vitiviniculture. (2022/01/27 - 2022/01/27) Seminário (Coorganizador)	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal Universidade de Trás-os-Montes e Alto Douro, Portugal ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2021/07/15 - 2021/07/15	Within the "Vineyard Days" cycle, it has been promoted a demonstration session, dedicated to mechanization	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal

	and robotization for hillside vineyards, promoted by ADVID/CoLAB VINES&WINES, which took place at Quinta do Seixo – Sogrape. The event aimed to present technologies for the mechanization of operations on terraces and robotic solutions for hillside vineyards, including demonstration of alternative technologies for ecological control of weeds, pests and diseases in the vineyard. (2021/07/15 - 2021/07/15) Outro (Coorganizador)	
2021/06/22 - 2021/06/22	Demonstration session, within the "Vineyard Days" intitiative, organized by CoLAB V&W, to show the use of aerial drones for the vineyard cultural practices, which took place at Quinta de Santa Bárbara – Poças. The purpose of this event was the technical demonstration of UAVs (drones) that allow monitoring of the vineyard, using multispectral and infrared cameras, and also carrying out applications and treatments, efficiently, in different vineyard systematizations. (2021/06/22 - 2021/06/22) Coorganizador	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2021/06/16 - 2021/06/16	Within the Presidency of the EU Council, which Portugal held From January to June 2021, CoLAB V&W has been invited, by the Science Ministry to organize an event devoted to the sustainability of the EU winemaking sector, which resulted in the event "Agricultura 4.0 - Promoção da Sustentabilidade para o Setor Europeu do Vinho" (EN: Agriculture 4.0 - Promoting Sustainability for the European Wine Sector), held by CoLAB V&W, with international speakers, and global scope. (2021/06/16 - 2021/06/16) Conferência (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2020/12/10 - 2020/12/10	Webinar "Desafios à tomada de decisão em vitivinicultura face às alterações climáticas - perspetiva do setor na busca de soluções (EN: Challenges to decision-making in winemaking in the face of climate change - sector perspective in the search for solutions), organized within the development of the INFRAVINI project, enviaseging the development of a platform intended to function as a DSS to support the adaptation of the vitiviniculture sector	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal Universidade de Trás-os-Montes e Alto Douro, Portugal

	to the climate change, one of the main challenges faced by this industry. (2020/12/10 - 2020/12/10) Seminário (Coorganizador)	
2020/10/22 - 2020/10/22	INNOVATION TALKS - Discussion of the role of CoLABs in rebalancing territorial asymmetries https://www.youtube.com/watch?app=desktop&v=vT7FV0CNF2M (2020/10/22 - 2020/10/22) Conferência (Coorganizador)	Agência Nacional de Inovação SA, Portugal ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2019/12/10 - 2019/12/10	VINES&WINES Brokerage Event - An event organized by CoLAB Vines&Wines, with the purpose of discussing the main challenges faced by the portuguese winemaking sector, while promoting bilateral meetings between participants with the aim of developing partnerships and identifying existent technological solutions, as well as finding new research and development funding opportunities. (2019/12/10 - 2019/12/10) Outro (Coorganizador)	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2007/04/30 - 2007/05/01	First Iberic Meeting on Medicinal Chemistry (1st IMMC): Anticancer Agents, 2007, Régua, Portugal – Secretariat member. (2007/04/30 - 2007/05/01) Congresso (Outra)	

Participação em evento

	Descrição da atividade Tipo de evento	Nome do evento Instituição / Organização
2026/07/08 - 2026/07/08	Participation in the round table "Descarbonização e gestão ambiental da cadeia vitivinícola: desafios e oportunidades (EN: Decarbonization and environmental management of the wine supply chain: challenges and opportunities)" in "Seminário sobre Descarbonização e Sustentabilidade Ambiental no Setor Vitivinícola", within the framework of project "STrengthS4WineChaiN" Mesa-redonda	Seminar on Decarbonization and Environmental Sustainability in the Wine Sector - project STrengthS4WineChaiN Universidade de Trás-os-Montes e Alto Douro, Portugal
2025/12/12 - 2025/12/12	Speaker at the "Phenobot - a nova fronteira da viticultura regenerativa centrada na fisiologia da planta" (EN: PhenoBot - the new frontier of	Phenobot - a nova fronteira da viticultura regenerativa centrada na fisiologia da planta (EN: Phenobot - the new frontier of regenerative viticulture

	regenerative viticulture focused on plant physiology) workshop, where the Phenowear technology, resulting from the PhenoBot project, has been demonstrated. Oficina (workshop)	focused on plant physiology) ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2025/12/05 - 2025/12/05	Speaker in the Webinar: "BioEngenharia para uma Agricultura de Precisão Baseada na Fisiologia da Planta" (EN: Bioengineering for Precision Agriculture Based on Plant Physiology). Two presentations made: 'Reconstruction and analysis of genome-scale models of Vitis vinifera: energy generation and cellular physiological state' and 'Phenowear: Linking biotechnology and plant physiology-based agriculture for high-productivity and resilient farming' Seminário	Webinars Phenobots 2025: BioEngenharia para uma Agricultura de Precisão Baseada na Fisiologia da Planta (EN: Bioengineering for Precision Agriculture Based on Plant Physiology) Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal
2025/12/05 - 2025/12/05	Speaker in the Webinar: "Amostragem representativa: Satélite, drone e ponto de medição" (EN:Representative sampling: Satellite, drone, and point of measurement), with the presentation: Design experimental e monitorização fisiológica multi-escala: casos de estudo do Phenobot (EN: Experimental design and multiscale physiological monitoring: case studies of Phenobot). Seminário	Webinars Phenobots 2025: Amostragem representativa: Satélite, drone e ponto de medição (EN: Representative sampling: Satellite, drone, and point of measurement). Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal
2025/09/10 - 2025/09/12	Participation in the International Congress Molecules4Life Congresso	Molecules4Life Universidade de Trás-os-Montes e Alto Douro Centro de Química Vila Real, Portugal
2025/06/30 - 2025/09/11	Students' mentor in the INESC TEC Summer Internships - 2025 Edition Outro	INESC TEC Summer Internships Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal
2025/06/11 - 2025/06/12	Presentation of the PhenoBot project in a parallel session, within FNA 2025 - The Portuguese national agriculture fair, 2025 Edition Seminário	Seminário de apresentação de resultados de projectos (EN: Seminar for presenting project results) Centro Operativo e Tecnológico Hortofrutícola Nacional, Portugal
2025/04/24 - 2025/04/24	Participation in the 12th AgroIN, Annual Conference of Agribusiness, held by Magazine "Vida Rural" Conferência	AgroIN, 12th Edition

2024/06/24 - 2024/07/20	Students' mentor in the INESC TEC Summer Internships - 2024 Edition Outro	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal
2023/11/17 - 2023/11/17	Presentation of CoLAB V&W and participation in a round table, among the other speakers, to discuss the management of projects focused in sustainability, in a simposium with entrepreneurship and management for a more sustainable future as the main theme, aimed at environmental engineering students and anyone interested in the areas of environment and sustainability. Simpósio	Regia Douro Summit: Simpósio: Empreendedorismo e Gestão para um futuro mais sustentável Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal
2023/11/16 - 2023/11/16	Co-representation of CoLAB V&W in the annual meeting of CoLABs and CTI, held by The National Innovation Agency (ANI), entity responsible for monitoring and monitoring CoLAB and CTI, entities with an interface role between scientific research and industry, in an event bringing together some of the main actors of the National Innovation System, on November 16, at the Pavilion of Knowledge, in Lisbon, under the theme “Innovation and Technological Enhancement towards the Sustainable Development Goals (SDGs)”. Encontro	4th Annual Meeting of Collaborative Laboratories (colab) and 1st Annual Meeting of Technology and Innovation Centers (CTI) Agência Nacional de Inovação SA, Portugal
2023/10/10 - 2023/10/10	Presentation of the WaterFlow initiative and participation in a round table alongside Gregoire Letort, Co-Founder Xinomavro Ventures (Host), António Graça, Head of Research & Development at Sogrape, David Carter, Co-Founder and CEO at Deep Planet. This FoodHack meetup, held in Lisbon, aimed at connecting food tech entrepreneurs, investors, researchers, seasoned executives and managers from producers, retailers and service providers and innovation and technology enthusiasts from the most relevant companies and institutions in the agrifood scene. Encontro	FoodHack Lisbon #3 | From Grape to Glass...or a Can: Next Wave in Wine Tech FoodHack, Portugal
2023/10/03 - 2023/10/03	Lecture at the Miguel Torga School Group, adressing the topic of climate change and its impact on viticulture, as well as the work, developed the	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal

	vitiviniculture sector, to adapt to these changes. The event, besides the presence of teachers from Spain, Turkey and Poland, involved in the Erasmus+ program, also counted with the presence of students and teachers from the organizing entity. Outro	
2023/07/05 - 2023/07/07	Participation in the round table "Innovation, sustainability and food security: what is the positioning and roadmap of the agrifood sector Colabs in the Agro sector?", within the thematic sessions of "Ciência 2023", an event bringing together all the scientific comunity, which was, for the first time, a thematic meeting, focusing on the ocean and waters, their intrinsic connections and mutual impact, but, above all, on the role of science in all its plenitude of contributions to knowing, exploring and, also, protecting the true lung of the planet. Encontro	CIÊNCIA 2023 - Encontro com a Ciência e a Tecnologia em Portugal Universidade de Aveiro, Portugal
2023/06/30 - 2023/07/01	Participation in the round table "Innovation and Technology in the Ecosystem" undertaken within the SmartFarm 4.0 final event (Session III), aiming to sign the closure of the Smartfarm 4.0 project - intelligent solutions for sustainable, predictive and autonomous agriculture. The event, held over 2 days, have been distributed in conference cycles with the aim of discussing digital innovation in agricultural sector, besides demostrating some technologies and projects in a real environment. Conferência	SFCOLAB - Smart Farm Collaborative Laboratory, Portugal
2023/05/19 - 2023/05/19	Participation in the first panel (round table Climate Change - Key Drivers), of the Dão Innovation Sessions - Wine Wars, which took place at the Polytechnic Institute of Viseu. Seminário	Dão Innovation Sessions: Wine Wars - Risk Management in the Wine Industry 2023
2023/05/12 - 2023/05/13	Invited presentation “Viticultura sustentável: Práticas ou Regime?” (EN: Sustainable Viticulture: Practices or Regime?), and participation in the corresponding session's round table, in the Seminar "Sustainability in Vinhos Verdes", part of the Conference	Encontros Vínicos do Vinho Verde - Seminário ‘Sustentabilidade nos Vinhos Verdes’ Ordem dos Engenheiros, Portugal

	"Encontros Vínicos do Vinho Verde", with the scope of gathering experts in distinct areas to debate the main challenges faced by the "Vinhos Verdes" wine region, as well as potencial solutions to guarantee the sustainbaility of the winemaking sector in this region. Seminário	
2023/02/09 - 2023/02/09	This workshop, the final event of the VINIoT project, aimed to present the outputs achived,to the project partners and the general public, namely the IoT sensor network developed to boost the digital transformation of wine SMEs in the SUDOE space. Oficina (workshop)	Fundación Empresa Universidad Gallega, Espanha
2022/12/06 - 2022/12/07	Participation in a pitch session, presenting the achievements of CoLAB V&W so far, in the 3rd Annual Meeting of Collaborative Laboratories, aiming to debate the evolution of CoLAB activities and their integration into the dynamics of regional ecosystems, during the transition to a new cycle of basic financing, within the scope of the Interface Mission and the National Recovery and Resilience Plan (PRR). This event featured the presentation of the main results obtained during 2022 and the highlights of the national CoLAB network. Encontro	Agência Nacional de Inovação SA, Portugal
2022/06/08 - 2022/06/08	Participation in the round table "Innovation & Technology at the service of Agriculture" organized by Tejanos, as a parallel session within the FNA (National Agricultural Fair), with the purpose of discussing the latest technological advances, concerning the agriculture sector, as well as its potencial to be game changers. Mesa-redonda	Tejanos, Portugal
2022/05/11 - 2022/05/14	Chair of the session: Mountain and steep slope Vineyards: agronomic practices through new technologies (Session 2. Theme 2) in the VII International Congress of Mountain and Steep Slope Viticulture (VII CERVIM) Congresso	7th International Congress of Mountain and Steep Slopes Viticulture (VII CERVIM) CERVIM - Centre for Research, Environmental Sustainability and Advancement of Mountain Viticulture, Itália Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal Associação para o Desenvolvimento da

		Viticultura Duriense, Portugal
2021/09/27 - 2021/12/17	Challenge proponent and team member (CoLAB V&W representant) in the Douro & Porto Hackathon (2021 Edition). As part of the mission of the Instituto dos Vinhos do Douro e do Porto, I.P., to encourage the adoption of best practices in the field of viticulture and technological development, a marathon of intensive work will take place with the aim of developing solutions to relevant challenges in the Demarcated Region of the Douro. This initiative is the result of an inclusive and transversal process, assuming a collaborative stance from the first day. Outro	Associação para o Desenvolvimento da Viticultura Duriense, Portugal Instituto dos Vinhos do Douro e Porto, Portugal
2021/11/09 - 2021/11/10	Participation in the parallel session "Agri-food, Energy and Sustainability; Biodiversity and Forest, Social Services and Tourism" in the 2nd Annual Meeting of Collaborative Laboratories, aiming to promote and monitor the activities and progressive evolution of the 35 recognized CoLAB, as well as their development in the context of regional, national and European research and innovation strategies. The 2nd edition of the initiative also aims to debate the role of CoLAB in the dynamics of innovation, job creation and qualified work in Portugal. Encontro	2º Encontro Anual de Laboratórios Colaborativos Agência Nacional de Inovação SA, Portugal Fundação para a Ciência e a Tecnologia, Portugal
2021/10/25 - 2021/10/29	Participation in a round table within the VINIoT project workshop, which took place within the scope of the GALICIA INNOVATION DAYS, with the aim of identifying and discussing technological trends in the wine sector, presenting the potential and the current contingencies in the use of each one, as well as the perspectives for the future. Oficina (workshop)	Xunta de Galicia, Espanha Fundación Empresa Universidad Gallega, Espanha
2021/10/08 - 2021/10/08	Presentation of CoLAB Vines&Wines at “Ciência ao almoço” (EN: Science at Lunch) – Universidade do Minho, Braga, PT Encontro	Universidade do Minho, Portugal

2021/04/16 - 2021/04/16	Presentation of CoLAB Vines&Wines ate LEAF, seminars' cycle, from ISA. https://www.isa.ulisboa.pt/en/leaf/highlights/seminars/leaf-seminar-catarina-barbosa-nelson-machado Seminário	Universidade de Lisboa Instituto Superior de Agronomia, Portugal
2018/12/14 - 2019/04/05	Participation in the contest 'FoodValorization' undertaken within the Newfood project, as leader of the project 'Cuscos de Farinhas Alternativas', winner idea, awarded with 2000 € for the development of the product, plus 4000 €, corresponding to the winner prize. Participation also as partner of the project 'Aguardente de Cereja sobrematurada', granted with 2000 € in the development stage of the same contest. Concurso	Newfood Universidade de Trás-os-Montes e Alto Douro, Portugal
2018/07/09 - 2018/07/11	Participation in the international spectroscopy meeting X CIE -XXVI RNE Congresso	X CIE -XXVI RNE Spectroscopy Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal
2018/05/23 - 2018/05/24	Infowine.forum - International viticulture congress with the patronage of the OIV. http://www.infowineforum.com/tematicas.html	6th Infowine.forum - Wine Fiction VINIDEAs, Portugal
2018/05/04 - 2018/05/05	National conference of the students of viticulture and oenology. Conferência	I Jornadas de Enologia e Viticultura - I Jornadas de Enologia e Viticultura - Inovação e novas oportunidades do setor Associação Nacional de Estudantes de Enologia e Viticultura (ANEEV), Portugal
2017/12/19 - 2017/12/19	Workshop developed within the framework of the project 'Projeto Douro Agroalimentar 4.0', where BCSD representants presented distinct funding opportunities for projects regarding the sustainability of the agrofood sector. Oficina (workshop)	Bioeconomy Marketplace: Oportunidades para o setor agroalimentar. BCSD Portugal - Conselho Empresarial para o Desenvolvimento Sustentável, Portugal
2017/05/10 - 2017/05/12	Conference regarding the future of the wine, turism and gastronomy sectors in the Douro Region, taking advantage of wine turism. Conferência	Associação para o Desenvolvimento do Régia-Douro Park, Portugal

2017/04/07 - 2017/04/09	Field seminar on the geology of the Douro Demarked Region (DDR) and its impact on distinct aspects of viticulture. Seminário	Associação Portuguesa de Geólogos, Portugal
2016/05/19 - 2016/05/20	Infowine.forum - International vitiviniculture congress. http://www.vinideas.pt/infowineforum2016/ Congresso	VINIDEAs, Portugal
2015/06/25 - 2015/06/26	Advanced Course on applications of X-Ray Diffraction. Oficina (workshop)	Universidade de Trás-os-Montes e Alto Douro Centro de Química Vila Real, Portugal
2014/12/04 - 2014/12/05	Participation in the third National Symposium of Fruticulture. Congresso	Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal
2014/06/05 - 2014/06/06	Participation in the 8th World Congress on Polyphenols Applications: ISANH Polyphenols, held at Lisbon, Portugal. Congresso	8th World Congress on Polyphenols Applications: ISANH Polyphenols International Society of Antioxidants i Nutrition and Health Research (ISANH), França
2013/07/06 - 2013/07/11	Participation in the 38th meeting of FEBS (Federation of European Bochemical Scocieties) Congress, held at St Petersburg, Russia Congresso	38th FEBS (Federation of European Bochemical Scocieties) Congress Federation of European Biochemical Societies, Reino Unido
2013/02/22 - 2013/02/24	Participation in the II Olive Oil Iberic Meeting (II Encontro Ibérico do Azeite) Congresso	II Olive Oil Iberic Meeting (II Encontro Ibérico do Azeite) Câmara Municipal de Abrantes, Portugal
2012/11/23 - 2012/11/24	Intensive course on the application of Matlab for biostatistics. Oficina (workshop)	Universidade de Coimbra Faculdade de Medicina, Portugal
2012/09/17 - 2012/09/20	Participation in the VII CIE (VII Congresso Ibérico de Espectroscopia/XXIII Reunión Española de Espectroscopía), held at Córdoba, Spain. Congresso	VII CIE (VII Congresso Ibérico de Espectroscopia/XXIII Reunión Española de Espectroscopía) Universidad de Córdoba, Espanha
2011/08/23 - 2011/09/03	Participation in the XIV European Conference on the Spectroscopy of Biological Molecules (ECSBM11), held at Coimbra, Portugal. Congresso	XIV European Conference on the Spectroscopy of Biological Molecules (ECSBM11) Universidade de Coimbra, Portugal

2011/02/04 - 2011/02/04	Intensive course on the application of DFT (DEnsity Functional Approaches) for distinct purposes. Oficina (workshop)	DFT@PT Universidade de Coimbra Centro de Física, Portugal
2010/08/26 - 2010/09/03	Participation in the 30th European Congress of Molecular Spectroscopy (EUCMOS 2010), 26th August – 3rd September, 2010, Firenze, Italy. Congresso	30th European Congress of Molecular Spectroscopy (EUCMOS 2010) Università degli Studi di Firenze, Itália
2010/06/21 - 2010/06/25	Summer School on plasmonics, regarding the application of distinct approaches for the enhancement of spectroscopical signals. Oficina (workshop)	Plasmonics: Enhanced sensing on metal nanostructures (Summer School) Sociedad Espanõla de Óptica, Espanha
2009/08/28 - 2009/09/03	XIII European Conference on the Spectroscopy of Biological Molecules (ECSBM09), held at Palermo, Italy. Congresso	Università degli Studi di Palermo, Itália
2008/09/09 - 2008/09/11	Participation in the V CIE (V Congresso Ibérico de Espectroscopia/XXI Reunión Española de Espectroscopía), held at Murcia, Spain. Congresso	V CIE (V Congresso Ibérico de Espectroscopia/XXI Reunión Española de Espectroscopía) Universidad de Murcia, Espanha
2008/06/08 - 2008/06/10	Participation in the XXIVth International Conference on Polyphenols (ICP 2008) Congresso	XXIVth International Conference on Polyphenols (ICP 2008) Universidad de Salamanca, Espanha
2008/04/14 - 2008/04/16	Intensive course on the application of (TD)DFT time-dependent Density Functional Teory, thourgh distinct approaches. Oficina (workshop)	(TD)DFT Course Universidade de Coimbra Centro de Física, Portugal
2007/10/19 - 2007/10/21	Workshop organized by the Portuguese Biophysical Society regarding the application of spectroscopical tools to biological systems. Oficina (workshop)	Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal
2006/09/10 - 2006/09/14	Participation in the IV CIE (IV Congresso Ibérico de Espectroscopia/XX Reunión Española de Espectroscopía). Congresso	Universidad de Castilla-La Mancha, Espanha

Júri de grau académico

	Tema Tipo de participação	Nome do candidato (Tipo de grau) Instituição / Organização
2026/07/29	Metal-Based Approaches in Breast Cancer Therapy: A Close Look into Cellular Response Arguente	Clara Sofia Baeta Martins (Doutoramento) Universidade de Coimbra Faculdade de Ciencias e Tecnologia, Portugal
2017/02/22	Evaluation of grape stems extracts from cultivar 'Sousão' as a source of phenolic compounds against oxidative stress in vitro using keratinocytes. Arguente principal	Marcelo Flávio Jesus Queiroz (Mestrado) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências da Vida e do Ambiente, Portugal
2016/05/17	Inovação no setor vitivinícola: autenticação de vinhos monocasta da Região Demarcada do Douro, através de espetroscopia de Infravermelho (EN: Innovation in the wine sector: authentication of single-varietal wines from the Douro Demarcated Region through infrared spectroscopy). Orientador	Ângela Sofia Miguel Martins Vieira (Mestrado) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências Agrárias e Veterinárias, Portugal
2015/11/04	Estudo de parâmetros químicos e bioquímicos de castas brancas cultivadas na Região Demarcada do Douro (EN: Study of chemical and biochemical parameters of white grape varieties cultivated in the Douro Demarcated Region). Arguente principal	Ana Carolina Figueiredo Gonçalves (Mestrado) Universidade de Trás-os-Montes e Alto Douro Escola de Ciências da Vida e do Ambiente, Portugal

Arbitragem científica em conferência

	Nome da conferência	Local da conferência
2025/01/08 - 2025/10/24	IOCAG 2025 The 3rd International Online Conference on Agriculture	Online

Arbitragem científica em revista

	Nome da revista (ISSN)	Editora
2025/06/24 - 2026/12/20	agriculture - Special Issue: Advances in Sustainable Viticulture (Guest Editor) (ISSN 2077-0472)	MDPI

Consultoria / Parecer

	Descrição da atividade	Instituição / Organização
2023/06/01 - 2023/07/11	Analysis and contributions, on behalf of ADVID/CoLAB Vines&Wines, to a preliminary proposal for characterizing regional smart specialization chains - Written Consultation, for the Northern Regional Innovation Council (CRIN) -	Comissao de Coordenacao e Desenvolvimento Regional do Norte, Portugal

	'Document Regional Smart Specialization Chains', and Contributions to the document supporting the development of the 'entrepreneurial discovery Process', including participation in the first meeting of CRIN for the 2021-2027 programming period. CRIN (Conselho Regional de Inovação do Norte) is a CCDR-N advisory body.	
2022/07/01 - 2022/12/31	Collaboration in the contributions, of ADVID/CoLAB Vines&Wines, to the public consultation, promoted by the APA, of the study: Avaliação das disponibilidades hídricas atuais e futuras e aplicação do Índice de escassez WEI+ (EN: Assessment of current and future water availability and application of the Water Scarcity Index WEI+)	Agência Portuguesa do Ambiente, Portugal
2022/07/01 - 2022/12/31	Collaboration in the contributions, of ADVID/CoLAB Vines&Wines, regarding cooperation interests with CECOLAB in the area of Circular Economy - within the scope of the II ANNUAL MEETING promoted by this CoLAB with the theme “Cooperação para a Economia Circular e Posicionamento Internacional” (EN: Cooperation for Circular Economy and International Positioning)	CECOLAB, Portugal
2021/01/01 - 2022/12/31	Collaboration in the contributes of ADVID/CoLAB Vines&Wines to ANI survey on the first working program od Cluster 6. ‘Food, Bioeconomy, Natural Resources, Agriculture and Environment’, do Programa Horizonte Europa (HEU, draft WP para 2021-2022)	Agência Nacional de Inovação SA, Portugal
2021/01/01 - 2022/12/30	Collaboration in the preparation of ADVID/CoLAB Vines&Wines contributes to the strategy ´Plano de Gestão de Região Hidrográfica (PGRH) | 3º Ciclo (2022-2027)- Questões significativas da Gestão da Água (QSiGA)', regarding RH3 (Douro), for APA, the Portuguese Environmental Agency	Agência Portuguesa do Ambiente, Portugal
2021/01/01 - 2022/03/17	Collaboration in the contributions of ADVID/CoLAB Vines&Wines, as member of ENVI-RD, for the preparation of CEEV 'Roadmap on Sustainability'. The CEEV Roadmap on Sustainability was adopted by CEEV's General Assembly on 17th March 2022, and further integrated in the 'EU CODE OF CONDUCT ON RESPONSIBLE FOOD	Comité Européen des Entreprises Vins (CEEV), Bélgica

	BUSINESS AND MARKETING PRACTICES'

Entrevista (jornal / revista)

	Descrição da atividade	Jornal/Forum
2023/03/29	Interview to Agência Lusa (Portuguese governmental News Agency, https: //www.lusa.pt/), regarding the closing seminar of the ViNCI project, which resulted in the news "Projeto Vinci cria ferramentas de previsão para produção de vinho e mercados" (EN: Project Vinci creates forecasting tools for wine production and markets). Reproduced in: Agroportal; Agrotec; Gazeta Rural; Diário de Trás-os Montes and A Voz de Trás-os-Montes.	Agência Lusa
2021/12/08	Interview, with a national news agency, regarding the dissemination of the audiovisual materials developed within the framework of the “ReWine” educational program, with the goal of promoting distinct circular economy “good practices” already implemented by companies in the wine sector, so these could be widely known and, thus, replicated.	Agência Lusa / Greensavers.sapo.pt

Entrevista / Programa (rádio / tv)

	Programa	Tema
2022/02/28 - 2022/02/28	Interview to 'Noite Informativa' (evening news program) - Porto Canal	The developement of the INFRAVINI platform and its capabilities
2019/06/06 - 2019/06/06	Primeiro Jornal (SIC afternoon news)	Development of new (Award wining) healthy foodstsuffs

Membro de associação

	Nome da associação	Tipo de participação
2009/01 - 2012/07	Real República Boa Bay Ela	Comensal
2005 - 2008	Vila Flor Sport Clube	Membro do Conselho Fiscal
2003 - 2005	Núcleo de Estudantes de Química (NEQ-AAC)	Vogal

Membro de comissão

	Descrição da atividade Tipo de participação	Instituição / Organização
2021/04/01 - 2024/03/30	ADVID/CoLAB Vines&Wines designated expert at the CNOIV (EN: National Commission of the International Organisation of Vine and Wine) groups of Viticulture: SUSTAIN and Mountain Viticulture Membro	Organisation Internationale de la Vigne et du Vin, França
2021/06/01 - 2023/12/31	Co-Representative of ADVID/CoLAB Vines&Wines in ENVI-RD, participating in the continuous updating of the R&D agenda and the development of technical support documents for policy decisions of the EU Wine Research Agenda - Comité Européen des Entreprises Vins (CEEV). Membro	Comité Européen des Entreprises Vins (CEEV), Bélgica
2021/01/01 - 2023/12/30	Co-Representative of ADVID/CoLAB Vines&Wines, as one of the managing entities, at CNCACSA - Centro Nacional de Competências para as Alterações Climáticas do Sector Agroflorestal (EN: National Competence Center for Climate Change in the Agroforestry Sector). This included participation in the establishment of CNCACSA strategic priorities and R&D agenda, available at: https://www.cncalteracoesclimaticas.pt/images/Agenda_Investigacao_Inovacao_CNCACSA_2023.pdf Membro	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2021/01/01 - 2023/12/30	Co-Representative of ADVID/CoLAB Vines&Wines, as one of the managing entities, at InovTechAgro - Centro Nacional de Competências para a Inovação Tecnológica do Setor Agroflorestal (EN: National Competence Center for Technological Innovation in the Agroforestry Sector). Membro	ADVID - Cluster da Vinha e do Vinho e CoLAB VINES&WINES, Portugal
2021/01/01 - 2022/06/30	Co-Representative of AVID/CoLAB Vines&Wines in the Regional Platform for Smart Specialization 'RIS3 NORTE, working group GT1 – “Energia procedente da biomassa e do mar” and “Indústrias agroalimentares e biotecnológicas" and collaboration on the development of the Smart Specialization Strategy (RIS3T) - Galiza e Região Norte (CCDR e ANI).	Comissao de Coordenacao e Desenvolvimento Regional do Norte, Portugal Agência Nacional de Inovação SA, Portugal

Membro

Outro júri / avaliação

	Descrição da atividade	Instituição / Organização
2026/01/13 - 2026/01/31	Jury member of a grant for MSc researchers "Sistema NPK e Werables metabólicos para plantas" (EN: NPK System and Metabolic Werables for Plants), at INESC TEC-CRIIS	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal
2025/05/12 - 2025/07/25	Jury member of a grant for MSc researchers "AE2025-0273 Investigação (BI)" - PhenoBot-LA8.1, within the PhenoBot project (PRR - C05-i03-I-000134 - Phenobot), at INESC TEC-CRIIS	Instituto de Engenharia de Sistemas e Computadores Tecnologia e Ciência, Portugal

Distinções

Prémio

2025	Menção Honrosa na "Bolsa de Investigação Jorge de Mello" atribuía ao projecto "Pocket Vet" (EN: Honorable Mention awarded to "Pocket Vet" project " in the call "Bolsa de Investigação Jorge de Mello") Fundação Amélia de Mello, Portugal
2022	Prémio Empreendedorismo e Inovação Crédito Agrícola, 9ª Edição, atribuído ao projecto ReWine (EN: 9th edition of the "Crédito Agrícola" Entrepreneurship and Innovation Prize, awarded to the ReWine Project)
2021	Prémios Vida Rural: Prémio "I&D que Marca", atribuído ao projecto SustainWine (EN: "Vida Rural Prizes": Remarkable R&D Prize, awarded to the SustainWine Project)
2019	Winner of the contest 'FoodValorization' undertaken within the Newfood project, with the project 'Cuscos de Farinhas Alternativas', awarded with a total of 6000 €
2018	Prémio de Investigação 2017 da Fundação Maria Rosa (EN: Research Prize 2017, awarded by "Fundação Maria Rosa") Fundação Maria Rosa, Portugal
2018	Best oral communication in CNAC (Congresso Nacional sobre Alterações Climáticas, EN: National Congress on Climate Change) Universidade de Trás-os-Montes e Alto Douro, Portugal
2006	“Spectro Analytical Instruments” prize for best poster communication Spectro Analytical Instruments GmbH, Alemanha