

Books of international distribution, essays in collections (including books edition and book chapters)

1. BARROS PM, Sapeta H, Belo J, Leal AR, Oliveira MM (2024). The root periderm In: Beeckman T, Eshel Amram (eds) "Plant Roots: The Hidden Half". (Ch. 6) pp: 104-118. Boca Raton, USA, CRC Press - Taylor & Francis Group, 2023. DOI: 10.1201/b23126-8
2. MATOS G, Oliveira T, Silva F, Martinho F, Leão M, Fonseca F, Silvestre J, Costeira J, Saldanha R, Santiago C, Morgado E (2024). An Apple Counting System Robust to Multiple Intermittent Occlusions. In: Santos MF, Machado J, Novais P, Cortez P, Moreira PM. (eds) Progress in Artificial Intelligence. EPIA 2024. Lecture Notes in Computer Science, vol 14967. Springer, Cham. DOI: 10.1007/978-3-031-73497-7_15
3. MORCUENDE R, Arellano JB, Vicente R (2024). VI SEFIMEC Symposium: Physiology and Breeding of Cereals. Book of abstracts. Salamanca: Fundación 3CIN. ISBN: 978-84-09-65479-6
4. OLIVEIRA MF, Calha I, Reis P (2024). Farmers' willingness to reduce the use of herbicides in managing weeds in rice crops. In Proceedings of the XV International Scientific Agricultural Symposium "Agrosym 2024", pp. 585-592. East Sarajevo: Faculty of Agriculture. ISBN 978-99976-816-8-3
5. PAIS A, Ramalho R, Sanchez A (2024). Assessing the Assessment of European Researchers' Night: Findings from a Nationwide European Researchers' Night. In The Ecosystem of Science Communication in the Post-Truth Era: Perspectives, Contexts, Dynamics, pp 145-169. University of Ljubljana Press. Ljubljana, Slovenia. DOI: 10.51746/9789612972417
6. REIS P, Oliveira MF, Novais A.(2024). Settlement of young farmers: identification of main constraints from the results of a survey. In Proceedings of the XV International Scientific Agricultural Symposium "Agrosym 2024", pp.1381-1387. East Sarajevo: Faculty of Agriculture. ISBN 978-99976-816-8-3
7. SANCHEZ A, Granado A (2024). Telling Science/Health Stories in Audio. Palgrave Handbook of Science and Health Journalism,197-215. DOI: 10.1007/978-3-031-49084-2_11

Articles published in international peer-reviewed scientific periodicals

1. ALLISON JD, Guignard Q, Ochoa I, Sousa E, Bonifácio L (2024). Asymmetric semiochemical-mediated interactions of *Monochamus* spp. (Coleoptera: Cerambycidae) and associated bark beetles in Portugal and Canada. *Environ Entomol.* 54(1): 46-53. DOI: 10.1093/ee/nvae106
2. AZEVEDO C, Borghi F, Su XB, Saiardi A (2024). On the covalent nature of lysine polyphosphorylation. *Molecular Cell*, 84(9), 1811-1815. DOI: 10.1016/j.molcel.2024.03.029
3. BACK MA, Bonifácio L, Inácio ML, Mota M Boa E (2024). Pine wilt disease: A global threat to forestry. *Plant Pathology*. 73: 1026–1041. DOI: 10.1111/ppa.13875
4. BARBOSA P, Faria JMS, Cavaco T, Figueiredo ACS, Mota M, Vicente CSL (2024). Nematicidal activity of phytochemicals against the root-lesion nematode *Pratylenchus penetrans*. *Plants* 13(5): 726. DOI: 10.3390/plants13050726
5. BARREIRA MJ, Marcos S, Flores CV, Lopes T, Moura IB, Correia CB, Saraiva M, Batista R (2024). Microbiological quality of ready-to-eat street foods in Lisbon, Portugal. *Discov Food* 4, 45. DOI: 10.1007/s44187-024-00105-8
6. BARROS PM, Sapeta H, Diogo AL, Oliveira MM (2024). The impact of drought on phellem development: Identification of novel gene regulators and evidence of photosynthetic activity in cork oak stems. *Environm. Exp. Bot.*, 224, 105785. DOI: 10.1016/j.envexpbot.2024.105785
7. BERTRAND C, Martins R, Nunes F, Brandão P, Nascimento FX (2024). Genomic insights into indole-3-acetic acid catabolism in the marine algae-associated bacterium, *Marinomonas* sp. NFXS50. *Access Microbiology*, 6(9), 000856.v3. DOI: 10.1099/acmi.0.000856.v3
8. BERTRAND CDF, Martins R, Quintas-Nunes F, Reynolds-Brandão P, Barreto Crespo MT, Nascimento FX (2024). Exploring the functional and genomic features of *Cellulophaga lytica* NFXS1, a zeaxanthin and lytic enzyme-producing marine bacterium that promotes microalgae growth. *The Microbe*, 4, 100142. DOI: 10.1016/j.microb.2024.100142
9. BERTRAND CDF, Martins R, Quintas-Nunes F, Reynolds-Brandão P, Barreto Crespo MT, Nascimento FX (2024). Whole genome sequence of *Paracoccus* sp. NFXS7, a carotenoid-producing bacterium isolated from a marine saltern. *Access Microbiology*, 6(7), 000862.v2. DOI: 10.1099/acmi.0.000862.v2
10. BORGHI F, Azevedo C, Johnson E, Burden JJ, Saiardi A (2024). A mammalian model reveals inorganic polyphosphate channeling into the nucleolus and induction of a

- hyper-condensate state. *Cell Reports Methods*, 4(7). DOI: 10.1016/j.crmeth.2024.100814
11. CAMACHO MJ, Albuquerque DC, Inácio ML, Martins VC, Mota M, Freitas PP, de Andrade E (2024). FTA-LAMP based biosensor for a rapid in-field detection of *Globodera pallida*—the pale potato cyst nematode. *Front. Bioeng. Biotechnol.* 12:1337879. DOI: 10.3389/fbioe.2024.1337879
12. CANADAS MJ, Reis P, Ervedeiro J, Novais A (2024). A Systems Approach to Identify and Explain Family Forest Owners' Technical Options. The Link with Labor Organization, Decision-Making Styles and Timber Sales. *Small-scale Forestry*, 23, 581–612. DOI: 10.1007/s11842-024-09579-x
13. CARBAS B, Barros S, Freitas A, Silva AS, Brites C (2024). Comparative analysis of maize physico-chemical parameters and mycotoxin levels in dual environments. *Toxins*, 16(275). DOI: 10.3390/toxins16060275
14. CARREIRÓ F, Barros SC, Brites C, Freitas A, Ramos F, Silva AS (2024). Validation of a biochip array technology for multi-mycotoxins screening in rice and other cereals. *Food Chemistry Advances*, 4, 100586. DOI:10.1016/j.focha.2023.100586
15. CARREIRÓ F, Barros SC, Brites C, Mateus AR, Ramos F, Torres D, Silva AS (2024). Validation of an HPLC-MS/MS method for the quantification of pesticide residues in rice and assessment of the washing effect. *Food Chemistry: X*, 24, 101938. DOI:10.1016/j.fochx.2024.101938
16. CARVALHO P, Gomes C, Gonçalves I, Lourenço TF, Vlad D, Langdale J, Saibo NJM (2024). The bHLH transcription factor OsPRI1 activates the *Setaria viridis* PEPC1 promoter in rice. *New Phytologist*, 241(6): 2495–2505. DOI: 10.1111/nph.19556
17. CARVALHO P, Gomes C, Saibo NJM (2024). C4 Phosphoenolpyruvate Carboxylase: evolution and transcriptional regulation. *Genetics and Molecular Biology*, 46(3 Suppl 1):e20230190. DOI: 10.1590/1678-4685-GMB-2023-0190
18. CASTANHO A, Brites C, Oliveira JC, Cunha LM (2024). Food design thinking: A systematic review from an evolutionary perspective. *Foods*, 13, 2446. DOI:10.3390/foods13152446
19. CATARINO B, Andrade L, Cordeiro AM, Carvalho P, Barros PM, Blázquez MA, Saibo N (2024). Light and temperature signals are integrated through a phyB-dependent gene regulatory network in rice. *Journal of Experimental Botany*, 76(2):562-575. DOI: 10.1093/jxb/erae402
20. CAVACO T, Faria JMS (2024). Phytochemical volatiles as potential bionematicides with safer ecotoxicological properties. *Toxics* 12: 406. DOI: 10.3390/toxics12060406
21. COELHO PS, Naves P, Carranca C (2024). Use of Traps to Monitor the Tomato Leaf Miner Moth Attack in a West Portugal greenhouse. *Agricultural Research & Technology*, 28(4). DOI: 10.19080/ARTOAJ.2024.28.556420

22. CONCEIÇÃO LA, Silva L, Dias S, Maças B, Sousa A, Fiorentino C, D'Antonio P, Barbosa S, Faugno S (2024). Optimize herbicide use in Fodder crops with low-cost remote sensing and variable Rate technology. *Appl. Sci.* 2025, 15, 1979. Doi: 103390/app15041979
23. CONCEIÇÃO LA, Silva L, Valero C, Loures L, Maças B (2024). Delineation of soil management zones and validation through the vigour of a fodder crop. *AgriEngineering* 2024, 6, 1-24. DOI: 103390/agriengineering6010013
24. CORREIA RB, Almeida JM, Wyrwoll MJ, Julca I, Sobral D, Misra CS, Guilgur LG, Schuppe HC, Silva N, Prudêncio P, Nóvoa A, Leocádio AS, Bom J, Mallo M, Kliesch S, Mutwil M, Rocha LM, Tüttelmann F, Becker J, Navarro-Costa P (2024). The conserved genetic program of male germ cells uncovers ancient origins of human infertility. *eLife* 13, 95774. DOI: 10.7554/eLife.95774.3
25. DAVIS T, Naves P (2024). Effects of substrate water content on maturation feeding of *Monochamus galloprovincialis* (Coleoptera: Cerambycidae). *The Canadian Entomologist*, 156 (e23): 1–6. DOI: 10.4039/tce.2024.30
26. DIAS MG, Vasco E, Ravasco F, Oliveira L (2024). The first harmonised total diet study in Portugal: Vitamin D occurrence and intake assessment. *Food Chemistry*, 435, 136676. DOI: 10.1016/j.foodchem.2023.136676
27. DíEZ AR, Szakonyi D, Lozano-Juste J, Duque P (2024). Alternative splicing as a driver of natural variation in ABA response. *The Plant Journal*, 119(1): 9-27. DOI: 10.1111/tpj.16773
28. DUARTE B, Carreiras J, Melo J, Gonçalves M, Silva A, Leão de Sousa M (2024). Impact of mineral and organic fertilisation practices on elemental authenticity signature on apple Royal Gala from protected geographical indication (PGI) “Maça de Alcobaça”. *Journal of Food Composition and Analysis*, 132, 106308. DOI: 10.1016/j.jfca.2024.106308
29. EGIPTO R, Aquino A, Andujar JM (2024). Predicting the canopy conductance to water vapor of grapevines using a biophysical model in a hot and arid climate. *Front. Plant Sci.*, 15: 1334215. DOI: 10.3389/fpls.2024.1334215
30. EGIPTO R, Aquino A, Andújar JM. (2024). Dynamics of Energy Fluxes in a Mediterranean Vineyard: Influence of Soil Moisture. *Agriculture*, 14, 1845. DOI: 10.3390/agriculture14101845
31. FARIA JMS, Barbosa P (2024). *Cymbopogon citratus* allelochemical volatiles as potential biopesticides against the pinewood nematode. *Plants* 13: 2233. DOI: 10.3390/plants13162233
32. FARIA JMS, Figueiredo AC, Teixeira DM, Inácio ML (2024). Infection of in vivo and in vitro pines with the pinewood nematode *Bursaphelenchus xylophilus* and isolation of induced volatiles. *J. Vis. Exp.* 272024211. DOI: 10.3791/67149

33. FARIA JMS, Rusinque L, Inácio ML (2024). Nematicidal activity of volatiles against the rice root-knot nematode and environmental safety in comparison to traditional nematicides. *Plants*, 13(15), 2046. DOI: 10.3390/plants13152046
34. FAUSTINO M, Lourenço T, Strobbe S, Cao D, Fonseca A, Rocha I, Van Der Straeten D, Oliveira MM (2024). Mathematical kinetic modelling followed by in vitro and in vivo assays reveal the bifunctional rice GTPCHII/DHBPS enzymes and demonstrate the key roles of OsRibA proteins in the vitamin B2 pathway. *BMC Plant Biology*, 24:220. DOI: 10.1186/s12870-024-04878-z
35. FAUSTINO M, Lourenço T, Strobbe S, Cao D, Fonseca A, Rocha I, Van Der Straeten D, Oliveira MM (2024). OsTH1 is a key player in thiamin biosynthesis in rice. *Sci. Reports*, 14: 13591. DOI: 10.1038/s41598-024-62326-2
36. FAVARO R, Pettersson M, Thöming G, Arce C, Inácio ML, Turlings T, Faria JMS, Jung T, Bazin D, Pozzebon A, Angeli S, Cappellin L (2024). The use of volatile organic compounds in preventing and managing invasive plant pests and pathogens. *Frontiers in Horticulture*, 3, 1379997. DOI: 10.3389/fhort.2024.1379997
37. FERNANDES L, Paiva DS, Silva AC, Fernandes C, Fernandes AR, Ribeiro D, Martins L, Bragança H, Portugal A (2024). From Lab to Nursery: Novel Approaches of Seed Disinfection for Managing Pine Pitch Canker Propagation. *Forests*, 15(7), 1154. DOI: 10.3390/f15071154
38. FERNANDES P, Pimentel D, Ramiro RS, Silva MDC, Fevereiro P, Costa RL (2024). Dual transcriptomic analysis reveals early induced *Castanea* defense-related genes and *Phytophthora cinnamomi* effectors. *Frontiers in Plant Science*, 15, 1439380. DOI: 10.3389/fpls.2024.1439380
39. FERNANDES T, Gonçalves NM, Mاتيولli CC, Rodrigues MAA, Barros PM, Oliveira MM, Abreu IA (2024). SUMOylation of rice DELLA SLR1 modulates transcriptional responses and improves yield under salt stress. *Planta* 260, 136. DOI: 10.1007/s00425-024-04565-1
40. GIL T, Romão IR, Gomes JC, Vergara-Díaz O, Carvalho LAL, Sousa A, Kasa F, Teixeira R, Mateus S, Katamadze A, Pinheiro DG, Vicente R, Vílchez JI (2024). Comparing native and non-native seed-isolated strains for drought resilience in maize (*Zea mays* L.). *Plant Stress*, 12: 100462. DOI: 10.1016/j.stress.2024.100462
41. GODINHO DP, Yanez RJR, Duque P (2024). Pathogen-responsive alternative splicing in plant immunity. *Trends in Plant Science* 18:S1360-1385(24)00311-X. DOI: 10.1016/j.tplants.2024.11.010
42. GONÇALVES L, Rubiales D, Vaz Patto MC (2024). Exploring grass pea (*Lathyrus sativus* L.) breeding potential in Mediterranean changing climate conditions. *European Journal of Agronomy* 156: 127142. DOI: 10.1016/j.eja.2024.127142.

43. GUARNIERI T, Nascimento JR, Leonan M, Brandão PR, Pereira CDS, Choueri RB, Hardt E, Moraes MLL, Calixto LA, Pereira VJ, Oliveira LG, Lemos SG, Semensatto D, Labuto G (2024). Pharmaceuticals in the environment: A strategy for prioritizing molecules of environmental concern. *Chemosphere*, 368, 143778. DOI: 10.1016/j.chemosphere.2024.143778
44. GUERRA C, Moreira A, Pombo P, Galvão C, Faria C, Granado A, Sanchez A, Paiva JC, Carvalho PS, Costa e Silva E (2024). Mapping Science Communication in Higher Education in Portugal: A Systematic Evidence Analysis of PhD and Master's Programs. *Education Sciences*, 14(6) DOI: 10.3390/educsci14060586.
45. HELLER O, Di Bene C, Nino P, Huygebaert B, Arlauskienė A, Castanheira NL, Higgins S, Horel A, Kir A, Kizeková M, Lacoste M, Munkholm LJ, O'Sullivan L, Radzikowski P, Rodríguez-Cruz MS, Sandén T, Šarūnaitė L, Seidel F, Spiegel H, Stalenga J, Uusi-Kämppe J, Vervuurt W, Keller T, Vanwindekens F (2024). Towards enhanced adoption of soil-improving management practices in Europe. *European Journal of Soil Science*, 75(2), e13483. DOI: 10.1111/ejss.13483
46. HORN A, Lu Y, Astorga Rios FJ, Toft Simonsen H, Becker JD (2024). Transcriptional and metabolic profiling indicates functional divergence in the DXS family of the early land plant *Physcomitrium patens*. *Plant Biology*, 17, 29-39. DOI: 10.1111/plb.13741
47. HORNERO A, Zarco-Tejada PJ, Marengo I, Faria N, Hernandez-Clemente R (2024). Detection of oak decline using radiative transfer modelling and machine learning from multispectral and thermal RPAS imagery. *International Journal of Applied Earth Observation and Geoinformation*, 127: 103679. DOI: 10.1016/j.jag.2024.103679.
48. LACOMBE T, Bavaresco L, Carraro R, Cunha J, Maul E, Muñoz G, Roeckel F, Bergamini C, Hausmann L, Ibáñez J, Laucou V, Lopes PFM, Vezzulli S, Roca P, Ruf J-C, Espinoza AF, Chashchinov N, Battiston E, Bejerano PC (2024). Publication of the 3rd edition of the OIV ampelographic descriptors. *IVES Conference Series*, OIV 2024. DOI: 10.58233/Xk2jsdGQ
49. LOPES FL, Formosa Jordan P, Malivert A, Margalha L, Confraria A, Feil R, Lunn JE, Jönsson H, Landrein B, Baena-González E (2024). Sugar signaling modulates SHOOT MERISTEMLESS expression and meristem function in *Arabidopsis*. *PNAS*, 121 (37): e2408699121. DOI: 10.1073/pnas.2408699121
50. MALFEITO-FERREIRA M, Granja-Soares J, Chandra M, Asryan A, Oliveira J, Freitas V, Loira I, Morata A, Cunha J, Harutyunyan M (2024). Investigating the Influence of Vessel Shape on Spontaneous Fermentation in Winemaking. *Fermentation*, 10(8), 401. DOI: 10.3390/fermentation10080401
51. MARQUES AP, Santos C, Sérgio J, Crespo MTB, Pereira VJ (2024). Enhancing food safety: Employing ultraviolet-C light emitting diodes for water, leaf, and surface

- disinfection. *Innovative Food Science & Emerging Technologies*, 98, 103848. DOI: 10.1016/j.ifset.2024.103848
52. MARTINHO VP, Ferreira AJD, Cunha C, Pereira JL, Sánchez-Carreira MdC, Castanheira NL, Ramos TB (2024). Soil legislation and policies: Bibliometric analysis, systematic review and quantitative approaches with an emphasis on the specific cases of the European Union and Portugal. *Heliyon*, Vol 10, Issue 14, e34307. DOI: 10.1016/j.heliyon.2024.e34307
 53. MARTINS R, Bertrand CDF, Quintas-Nunes F, Reynolds-Brandão P, Barreto Crespo MT, Nascimento FX (2024). Whole-genome sequences of marine bacteria presenting the ability to promote the growth of the diatom *Phaeodactylum tricornutum*. *Access Microbiology*, 6(9), 000864.v3. DOI: 10.1099/acmi.0.000864.v3
 54. MARTINS RC, Queirós C, Silva FM, Santos F, Barroso TG, Tosin R, Cunha M, Leão M, Damásio M, Martins P, Silvestre J (2024). Spectral data augmentation for leaf nutrient uptake quantification, *Biosystems Engineering*, 246, 82-95. DOI: 10.1016/j.biosystemseng.2024.07.001.
 55. MATEUS M, Mão de Ferro R, Pinheiro HM, Machado R, da Fonseca MMR, Sapatinha M, Pires C, Marmelo I, Marques A, Nunes ML, Motta C, Cesário MT (2024). Production and characterization of protein-rich extracts from the red macroalga *Gelidium corneum* and its industrial agar extraction residues. *Algal Res.* 78, 103420. DOI: 10.1016/j.algal.2024.103420
 56. MCGUIRE D, Costa T, Tenreiro A, Cruz J, Sousa R, Leão de Sousa M, Martins C, Pinto F, Gama-Carvalho M, Tenreiro R, Cruz L (2024). Use of immuno-flow cytometry and real-time PCR disclose the epidemiological behaviour of *Erwinia amylovora* populations during the winter in Portuguese pear orchards. *J Plant Pathol* 106, 937–951. DOI: 10.1007/s42161-023-01561-4
 57. MCGUIRE D, Pinto F, Costa T, Cruz J, Sousa R, Leão de Sousa M, Martins C, Gama-Carvalho M, Tenreiro A, Tenreiro R, Cruz L (2024). Fire4CAST – a new integrative epidemiological forecasting model for the accurate prediction of infection risk and effective control of fire blight in *Pyrus* orchards. *J Plant Pathol* 106, 953–966. DOI: 10.1007/s42161-024-01622-2.
 58. NAMORADO S, Martins C, Ogura J, Assunção R, Vasco E, Appenzeller B, Halldorsson TI, Janasik B, Kolossa-Gehring M, Van Nieuwenhuyse A, Ólafsdóttir K, Rambaud L, Riou M, Silva S, Wasowicz W, Weber T, Esteban-López M, Castaño A, Gilles L, Martin LR, Govarts E, Schoeters G, Viegas S, Silva MJ, Alvito P (2024). Exposure assessment of the European adult population to deoxynivalenol – results from the HBM4EU Aligned Studies. *Food Research International Food Research*, 198, 15281. DOI: 10.1016/j.foodres.2024.115281

59. NOVAKOVIC Z, Khalife M, Costache V, Camacho MJ, Cardoso S, Martins V, Gadjanski I, Radovic M, Vidic J (2024). Rapid detection and identification of vancomycin-sensitive bacteria using an electrochemical apta-sensor. *ACS Omega* 9(2): 2841–2849. DOI: 10.1021/acsomega.3c08219
60. PAIS IP, Moreira R, Coelho AR, Semedo J, Reboredo FH, Coutinho J, Lidon FJ, Maças B, Scotti-Campos P (2024). Unveiling the impact of growth traits on the yield of bread wheat germplasm subjected to waterlogging. *Agriculture*, 14, 2: 241. DOI: 10.3390/agriculture1402.241
61. PAZ AM, Castanheira N, Miloczki J, Carrasco M, Vicente C, Carranca C, Gonçalves MC, Mihelič R, Visser S, Keesstra S, Chenu C (2024). Collected knowledge on the impacts of agricultural soil management practices in Europe. *European Journal of Soil Science*, 75(2), e13468. DOI: 10.1111/ejss.13468
62. PAZ MC, Castanheira NL, Paz AM, Gonçalves MC, Monteiro Santos F, Farzamian M (2024). Comparison of Electromagnetic Induction and Electrical Resistivity Tomography in Assessing Soil Salinity: Insights from Four Plots with Distinct Soil Salinity Levels. *Land* 13(3):295. DOI: 10.3390/land13030295
63. PEDRA F, Inácio ML, Fareleira P, Oliveira P, Pereira P, Carranca C (2024). Long-Term Effects of Plastic Mulch in a Sandy Loam Soil Used to Cultivate Blueberry in Southern Portugal. *Pollutants* 2024, 4, 16–25. DOI: 10.3390/pollutants4010002
64. PEREIRA AL, Scotti-Campos P, Coelho PS (2024). Histological Characterization of Downy Mildew Infection in Wild Rocket (*Diplotaxis tenuifolia*). *Plant Pathology*, 73: 2516–2527. DOI: 10.1111/ppa.13979
65. PEREIRA CL, Sousa I, Lourenço VM, Sampaio P, Gárzon R, Rosell CM, Brites C (2024). Relationship between physicochemical and cooking quality parameters with estimated glycaemic index of rice varieties. *Foods*, 13, 135. DOI:10.3390/foods13010135
66. PIRES D, Vicente CSL, Mota M, Inácio ML (2024). Polyphasic approach to the selection of Esteya isolates for the control of the pinewood nematode, *Bursaphelenchus xylophilus*. *Fungal Biology*, 128 (8): 2242-2249. DOI: 10.1016/j.funbio.2024.10.001
67. QUEIRÓS F, Carvalho R, de Sousa R, Sánchez C (2024). Insect pollination improves fruit set, yield and fruit quality of commercial sweet cherry. *Acta Horticulturae*. 1408 (2024), 267-274. DOI: 10.17660/ActaHortic.2024.1408.37
68. REHAN I, Lopes IG, Murta D, Lidon F, Fareleira P, Esteves C, Moreira O, Menino R (2024). Agronomic potential of *Hermetia illucens* frass in the cultivation of ryegrass in distinct soils. *Journal of Insects as Food and Feed*, 1(aop), 1-16. DOI: 10.1163/23524588-00001242

69. RIASCOS-ORTÍZ D, Álvarez-Sánchez DE, Llumiquinga P, Camacho MJ, Inácio ML, Gutiérrez-Gutiérrez C (2024). Integrative taxonomy of two known dagger nematodes of the genus *Xiphinema* (Nematoda: Longidoridae) from the Amazon basin in South America, including the first report of *X. brasiliense* Lordello, from Colombia and Ecuador. *European Journal of Plant Pathology*, 1 – 17. DOI: 10.1007/s10658-024-02979-x
70. SALES H, Alves ML, Sampaio AM, Vaz Patto MC (2024). Understanding the phenotypic variability of the olive ‘*Galega vulgar*’ fruits and oil-related traits across environments. *Scientia Horticulturae* 326:112738. DOI: 10.1016/j.scienta.2023.112738
71. SANCHES M, Sampaio AM, Araújo S, van Eeuwijk F, Van Breusegem F, Vaz Patto MC (2024). Grass pea (*Lathyrus sativus*) interesting panoply of mechanisms to cope with contrasting water stress conditions – a study of worldwide diversity and sub populational differences. *Agricultural Water Management* 292: 108664. DOI: 10.1016/j.agwat.2023.108664
72. SANTOS C, Leitão ST (2024). The exceptionally large genomes of the Fabaeae tribe: Comparative genomics and applications in abiotic and biotic stress studies. *Agriculture* 14(1), 77. DOI: 10.3390/agriculture14010077
73. SERRANO C, Oliveira MC, Lopes VR, Soares A, Molina AK, Paschoalinotto BH, Pires TCSP, Serra O, Barata AM (2024). Chemical Profile and Biological Activities of *Brassica rapa* and *Brassica napus* Ex Situ Collection from Portugal. *Foods*, 13(8):1164. DOI: 10.3390/foods13081164
74. SUGI N, Calhau ARM, Jacquier NMA, Millan-Blanchuez M, Becker JD, Begcy K, Berger F, Bousquet-Antonelli C, Bouyer D, Cai G, Cheung AY, Coimbra S, Denninger P, Dresselhaus T, Feijó JA, Fowler JE, Geelen D, Grossniklaus U, Higashiyama T, Honys D, Igawa T, Ingram G, Jaillais Y, Johnson MA, Kato M, Kawachi M, Kawashima T, Kim YJ, Li H-J, Mongrand S, Motomura K, Nagahara S, Nakajima KP, Nelms B, Qu L-J, Schnittger A, Scholten S, Sprunck S, Sun M-X, Twell D, Weijers D, Yang W-C, Maruyama D, Widiez T (2024). The peri-germ cell membrane: poorly characterized but key interface for plant reproduction?. *Nature Plants*, 10, 1607-1609. DOI: 10.1038/s41477-024-01818-5
75. VALENTE D, Serra O, Carolino N, Gomes J, Coelho AC, Espadinha P, Pais J, Carolino I (2024). A Genome-Wide Association Study for Resistance to Tropical Theileriosis in Two Bovine Portuguese Autochthonous Breeds. *Pathogens* 13(1):71. DOI: 10.3390/pathogens13010071
76. VASCO E, Dias MG, Oliveira L (2024). Mercury exposure assessment from the first harmonised Total Diet Study in Portugal. *Exposure and Health*, 435, 136676. DOI: 10.1007/s12403-024-00649-1

77. VELLINGA RE, Rippin HL, Gonzales GB, Temme EHM, Farrand C, Halloran A, Clough B, Wickramasinghe K, Santos M, Fontes T, Pires MJ, Nascimento A, Santiago S, Burt HE, Brown MK, Jenner HK, Alessandrini R, Marczak AM, Flore R, Sun Y, Motta C (2024). Nutritional composition of ultra-processed plant-based foods in the out-of-home environment: a multi-country survey with plant-based burgers. *Br. J. Nutr.* 1–21. DOI: 10.1017/S0007114524000023
78. VELOSO S, Magro A, Henriques J, Bonifácio L, Fernandes JP, Ramos AP, Diogo E, Bragança H (2024). *Trichoderma atrobrunneum* associated with yellow stain defect of cork planks and critical values of TCA for wine cork stoppers industry. *European Journal of Wood and Wood Products*, 82(4), 1009-1019. DOI: 10.1007/s00107-024-02070-6
79. VERGARA-DÍAZ O, Velasco-Serrano E, Invernón-Garrido A, Katamadze A, Yoldi-Achalandabaso A, Serret MD, Vicente R (2024). Quinoa panicles contribute to carbon assimilation and are more tolerant to salt stress than leaves. *Journal of Plant Physiology*, 292: 154161. DOI: 10.1016/j.jplph.2023.154161
80. VICENTE R, Vergara-Diaz O, Uberegui E, Martínez-Peña R, Morcuende R, Kefauver SC, López-Cristoffanini C, Aparicio N, Serret MD, Araus JL (2024). Non-foliar photosynthesis and nitrogen assimilation influence grain yield in durum wheat regardless of water conditions. *Journal of Experimental Botany*, 75: 3412-3430. DOI: 10.1093/jxb/erae064
81. VIGOUROUX M, Novák P, Oliveira LC, Santos C, Cheema J, Wouters RHM, Paajanen P, Vickers M, Koblížková A, Vaz Patto MC, Macas J, Steuernagel B, Martin C, Emmrich PMF (2024). A chromosome-scale reference genome of *Lathyrus sativus*. *Scientific Data* 11: 1035. DOI: 10.1038/s41597-024-03868-y
82. VILCHEZ JI, Varotto S, Jung HW (2024). Editorial: Epigenetic Regulation Behind Plant-Microbe Interactions. *Frontiers in Plant Science*, 15:1385356. DOI: 10.3389/fpls.2024.1385356
83. WANG X, Yang Y, Wang M, Shao C, Vilchez JI, Yuan F, Liu J, Zhang H (2024). Improving coriander yield and quality with a beneficial bacterium. *Molecular Horticulture*, 4(9). DOI: 10.1186/s43897-024-00087-2
84. WENINGER T, Ramler D, Bondi G, Asins S, O'Sullivan L, Assennato F, Astover A, Bispo A, Borůvka L, Buttafuoco G, Calzolari C, Castanheira N, Cousin I, van den Elsen E, Foldal C, Hessel R, Kadžiulienė Ž, Kukk L, Molina MJ, Montagne D, Oorts K, Pindral S, Ungaro F, Klimkowicz-Pawlas A (2024). Do we speak one language on the way to sustainable soil management in Europe? A terminology check via an EU-wide survey. *European Journal of Soil Science*, 75(2), e13476. DOI: 10.1111/ejss.13476
85. YOLDI-ACHALANDABASO A, Fricke W, Miranda-Apodaca J, Vicente R, Muñoz-Rueda A, Pérez-López U (2024). Climate Change does not impact the water flow of barley at

the vegetative stage, ameliorates at anthesis and worsens after subsequent drought episodes. *Plant Physiology and Biochemistry*, 215: 109060. DOI: 10.1016/j.plaphy.2024.109060

86. ZHOU J, Du J, Bonifácio L, Yin W, Huang L, Ning J, Han D, Hu J, Song W, Zhao L (2024). Vulnerability of Global Pine Forestry's Carbon Sink to an Invasive Pathogen–Vector System. *Global Change Biology*, 30(12), e17614. DOI: 10.1111/gcb.17614

Articles published in international non-indexed scientific journals

1. FARIA JMS, Cavaco T (2024). Environmental and human health benefits of bionematicidal volatiles in comparison to commercial synthetic nematicides. *The 1st International Electronic Conference on Toxics. Proceedings* 102: 8. DOI: 10.3390/proceedings2024102008
2. FARIA JMS, Inácio ML (2024). The Influence of Pine Volatiles on the Growth of an Ophiostomatoid Fungi Associated with Pine Wilt Disease in *Pinus pinaster* *Biol. Life Sci. Forum* 31120249. DOI: 10.3390/ECM2023-16454
3. FERNANDES T, Barros PM, Flores-Tornero M, Carvalho, P, Sapeta H, Becker JD, Abreu IA (2024). OsbHLH089 and OsbHLH094 Modulate OsSLR1 Levels to Maintain Male Reproductive Fitness in Rice. *bioRxiv* 2024.11.24.624999. DOI: 10.1101/2024.11.24.624999
4. GARCIA-OLIVEIRA AL, Federico ML, Guimarães C, Adu GB, Simões F, Soares C, Jankulovska M, Tomlekova N, Mukaro R, Zegeye h, Homma S, Mace E, Jordan D, Dreisigacker S, Burgueño J, Musundire L, Puech J, Syed Alwee SS, Hwa E, Teixeira G, Das B, Tadesse T, Gurmu F, Maças B, Siambi M, Govaerts B (2024). The reshaping of crop breeding programs: How CGIAR genotyping and global partnerships are bridging gaps. *CGIAR Initiative on Breeding Resources*. (Six pages) <https://www.cgiar.org/news-events/news/thereshaping-of-crop-breeding-programs-how-cgiar-genotyping-and-globalpartnerships-are-bridging-gaps/>
5. MARQUES RM, Fernandes T, Barros PM, Leitão ST, Rubiales D, Vaz Patta MC, Santos C (2024). Comparative transcriptomics of *Lathyrus sativus* reveals accession-specific resistance responses against *Erysiphe pisi*. *bioRxiv* 2024.11.23.624375. DOI: 10.1101/2024.11.23.624375
6. MENINO R, Pereira SIA, Moreira H, Castelo-Branco A, Gomes AA, Rodrigues AI, Cunha J, Castro PML, Vega A, Cardoso E, Machado MJ, Alves R, Cardoso F, Lopes F, Guedes R (2024). Potential of slurry from intensive dairy cattle farms for paulownia and populus trees, as organic fertilizer: i. effect on production. *Open Access J Sci.*, 7(1):134-137. DOI: 10.15406/oajs.2024.07.00226

7. MENINO R, Semedo JN, Scotti-Campos P, Castelo-Branco A, Murta D, Nestler C, Cruz VF, Moreira O (2024). Traditional compost and BSF-biodigested compost in the organic fertilization of ryegrass. *Open Access J Sci.*, 7(1):129-132. DOI: 10.15406/oajs.2024.07.00225
8. PEREIRA G, Faria JMS (2024). Activity of *Satureja montana* allelochemical volatiles against the pinewood nematode. *Chem. Proc.* 16(1): 8. DOI: 10.3390/ecsoc-28-20154
9. PEREIRA G, Varela L, Faria JMS (2024). Changes in photosynthetic pigment concentrations induced by pinewood nematode infection of in vitro pine shoots. *Environ. Earth Sci. Proc.* 31:5. DOI: 10.3390/eesp2024031005

Articles published in national journals

1. AMARAL A, Calha IM (2024). Effect of cover crops on the weed flora of processing tomatoes in a regenerative agriculture system with underground irrigation. *Revista de Ciências Agrárias*, 47(1): 75-79. DOI: 10.19084/rca.34853
2. BARATA AM, Gaspar C, Rocha F, Silva, I., Vaz, M., Serra, O., Lopes, V. (2024) A contribuição do BPGV para o desenho contemporâneo da agricultura e alimentação. *Cultivar* 30: 113-122
3. BARBOSA P, Costa M, Espada M, Mota M, Teixeira D, Brás T, Duarte F, Figueiredo J, Cardoso J, Esteves I, Abrantes I, Faria JMS, Varela AR, Nóbrega F, Vieira P, Inácio ML, Vicente CSL (2024). PratyOmics - Metabolómica da planta para o controlo do nemátode das lesões radiculares *Pratylenchus penetrans*. *Voz do Campo*. Abril: 4
4. CALHA IM, Amaral A (2024). Culturas de cobertura - efeito nas infestantes. *Vida Rural*. Dossier Técnico cereais e leguminosas. 76-82
5. CALHA IM, Osuna MD, Nunes C, García-García B, Rodrigues MI, de Andrade E (2024). Mechanisms of resistance in populations of *Echinochloa* sp. from Portugal and Spain. *Revista de Ciências Agrárias*, 47(1): 227-231. DOI: 10.19084/rca.34990
6. CAMACHO MJ, de Andrade E, Inácio ML (2024). Biossensores para a deteção de pragas e doenças no setor agroflorestal. *Vida Rural*. 78: out 2024
7. CASTANHEIRA NL, Paz AM, Gonçalves MC (2024). Desafios e oportunidades na gestão sustentável do solo na Europa: Evidências das consultas EJP SOIL. *Revista das Ciências Agrárias*, 2024, RCA, 47(4):2024, "Solo como pilar de uma só saúde", p. 600-606, Portugal. DOI: 10.19084/rca.38557
8. COELHO PS, Carranca C (2024). O uso de técnicas de agricultura de precisão no controlo de pragas e doenças nas culturas hortícolas. *Vida Rural* 1901: 70-77

9. COUCHINHO F, Paz AM, Mano R, Moura MJ, Antunes J, Castanheira N, Gonçalves MC (2024). Comparação de métodos de determinação do carbono orgânico em solos de Portugal. *Revista das Ciências Agrárias*, 2024, RCA, 47(4):2024, “Solo como pilar de uma só saúde”, p.533-538. DOI: 10.19084/rca.38529
10. CUNHA J (2024). Ficha Varietal de castas de videira: 110 Richter. *Folha Informativa*, n.328 333 31 dez
11. CUNHA J (2024). Ficha Varietal de castas de videira: Branco Gouvães B. *Folha Informativa*, n.323 31 jan
12. CUNHA J (2024). Ficha Varietal de castas de videira: Camarate T. *Folha Informativa*, n.325 31 mar
13. CUNHA J (2024). Ficha Varietal de castas de videira: Cidreiro T. *Folha Informativa*, n.327 31 mai
14. CUNHA J (2024). Ficha Varietal de castas de videira: Gouveio B. *Folha Informativa*, n.328 30 jun
15. CUNHA J (2024). Ficha Varietal de castas de videira: Gouveio Real B. *Folha Informativa*, n.332 30 nov
16. CUNHA J (2024). Ficha Varietal de castas de videira: Jaen T. *Folha Informativa*, n.330 30 set
17. CUNHA J (2024). Ficha Varietal de castas de videira: Rupestris DU Lot. *Folha Informativa*, n.324 29 fev
18. CUNHA J (2024). Ficha Varietal de castas de videira: Sarigo B. *Folha Informativa*, n.329 31 jul
19. CUNHA J (2024). Ficha Varietal de castas de videira: Síria B. *Folha Informativa*, n.326 30 abr
20. CUNHA J (2024). Ficha Varietal de castas de videira: Tinta Martins T. *Folha Informativa*, n.331 31 out
21. FARIA JMS, Santos MT, Nóbrega F, Espada M, Inácio ML (2024). O uso da biotecnologia no estudo de doenças da floresta. *Vida Rural* 5: 56-59
22. FERREIRA MI, Paço MT, Silvestre J, Silva R, Conceição N (2024). Medições de fluxo de seiva pela equipa de Eng^a Rural do ISA - balanço de 30 anos de experiências e aspectos metodológicos. *Anais do Instituto Superior de Agronomia*, Vol. 50, p. 70-102
23. FORTUNATO A, Abreu IA (2024). Primeiros passos para um futuro mais sustentável: adaptação do arroz a condições de não alagamento. *Vida Rural*, Fev 2024
24. GARCIA E, Abreu G, Martins C, Marinho R, Pereira C, Carvalho L, Almeida C, Cruz L, McGuire D, Sousa R, Leão M, Oliveira H (2024). O fogo bacteriano na produção de peras e maçãs: Caracterização da situação nacional e nova estratégia de biocontrolo. *Revista Vida Rural*, abril 2024, 76-82

25. GOMES C, Costa R, Pinheiro N, Bagulho AS, Costa A, Moreira J, Maçãs B, Patanita M, Dôres J, Martins D, Rodrigues P, Machado P, Gírio F (2024). Fileira da cevada e do malte. caso de estudo de sucesso. *Vida Rural* 1895: 72-75
26. LEÃO DE SOUSA M et al. (2024). Novas soluções para pulverização de precisão. *Revista Vida Rural*, Novembro, 58-63
27. LEÃO DE SOUSA M, Rodrigues M, Martinho F, Afonso S, Gonçalves M (2024). Produção de pomóideas sob cobertura com redes fotoseletivas: Uma resposta às Alterações Climáticas? Resultados em macieira cv. Gala. *Revista da Associação Portuguesa de Horticultura*, 155, 46-52, ISSN 1646-1290
28. LOPES VR, Serrano C, Coelho PS, Barata AM (2024). Coleção de couves portuguesas, herança e futuro. *Vida Rural* 1898: 48-57
29. MAÇÃS B, Carita T, Pereira G, Cordeiro AM, Bagulho AS, Simões N, Duarte I, Inês C (2024). Melhoramento genético de plantas no INIAV. *Cultivar – Cadernos de Análise e Prospectiva*, 30: 107-112
30. MAÇÃS B, Costa R, Carita T, Pereira G, Cordeiro AM, Bagulho AS, Simões N, Carneiro JP, Inês C, Duarte I, Simões F, Carvalho T, Nuno P, Gomes C, Costa A, Barcelos C, Meneses M, Nunes C, Pragana J (2024). PEGADA 4.0: Referências de emissões de CO₂-EQ na atividade agrícola em Portugal. (Versão 2023). *Agrotec: Grandes Culturas* 50:16-18
31. MAÇÃS B, Costa R, Gomes C, Bagulho AS, Pinheiro N, Moreira J, Costa A, Patanita M, Dôres J, Rodrigo S (2024). Composição mineral do trigo-duro e suas sêmolos. *Vida Rural* 1899: 76-82
32. MENINO R (2024). Potencial fertilizante de diferentes frass. *New-Bioindustry - Newsletter#4*, Fevereiro:8
33. NAVES P, Santos M (2024). O ácaro-de-Lewis, *Eotetranychus lewisi* (McGregor, 1943). *Portugal Boletim técnico - INIAV* 12024
34. NUNES I, Fernandes P, Vasco E (2024). Avaliação da ingestão de aditivos alimentares em adolescentes portugueses: resultados da monitorização em 2022. *Boletim Epidemiológico Observações*, 13 (Número Especial 16, Epidemiologia), 73-79. ISSN: 0874-2928 | ESN: 2183-8873
35. NUNES I, Vasco E (2024). Monitorização da ingestão de aditivos alimentares: ferramentas de avaliação do consumo e da ingestão. *Boletim Epidemiológico Observações*, 36 (maio-agosto), 60-65. ISSN: 0874-2928 | ESN: 2183-8873
36. PESSOA J, Leão de Sousa M, Aguiar F (2024). Alternatives to herbicides for weed management of a pear orchard Alternativas ao uso de herbicidas na gestão de infestantes em pomar de pereiras. *Revista de Ciências Agrárias, SCAP*, 47(1): 118-123 DOI: 10.19084/rca.34860

37. PORTUGAL J, Calha IM (2024). Weed resistance to herbicides in Portugal. *Revista de Ciências Agrárias*, 47(1): 287-291. DOI: 10.19084/rca.35027
38. PORTUGAL J, Calha IM, Aguiar FC (2024). Prefácio: Renaturalização da Agricultura – Nota de abertura do fascículo especial de comunicações do IV Simpósio Nacional de Herbologia / XIX Congresso de SEMh . *Revista de Ciências Agrárias*, 47(1): 1 DOI: 10.19084/rca.35348
39. REIS P (2024). Agronomia e Saúde: da proteção sanitária à Bioeconomia Circular. *Ingenium* 183: 91-91
40. REIS P (2024). Lógicas de gestão do património fundiário do montado no Alentejo: resultado de quatro casos de estudo. *Sistemas extensivos do Sul. Escritos em homenagem a Inocêncio Seita Coelho*. ISA Press, pp. 181-199, ISBN 978-989-35095-4-8
41. REIS P, Novais A, Canadas MJ (2024). Proprietários e gestão florestal. *Vida Rural*, n.º 1897, ano 72, maio 2024, pp.78-82
42. SÁNCHEZ C, Garcia D, Eira A (2024). Tecnologia rápida e não destrutiva de apoio à tomada de decisão. *Vida Rural*, 1901, p. 64-69
43. SANTOS J, Grifo A, Amaral A, Calha IM (2024). Cover crops effect on floristic community and yield of maize. *Revista de Ciências Agrárias*, 47(1): 85-89 DOI: 10.19084/rca.34855
44. SÁ-PEREIRA P (2024). Controlo de Doenças e Pragas das Plantas: Novas estratégias num clima em mudança. *Caderno Sanidade Voz do Campo*. Nº 287 DEZEMBRO, 24:72-76
45. SOARES C, Semedo J, Simões F, Palha L, Almeida AS, Maças B (2024). Desenvolvimento de variedades portuguesas de arroz: o exemplo do Caravela. *Voz do Campo*, Nov.2024. <https://vozdocampo.pt/arquivo/34235>
46. SOUSA E, Miriam Cavaco M, Calha, Sousa E (2024). Saúde das Plantas: os novos desafios para o ecossistema agroflorestal – Parte I *Revista Voz do Campo* 28720247071
47. SOUSA-ORTEGA C, Royo-Esnal A, Escorial MC, Loureiro I, Lezáun JA, Figarola JI, López-Martínez N, Osca JM, León AIM, Calha IM, Chamorro-Lorenzo L, Arias-Martín M (2024). Nuevo ensayo del grupo de “Biología y Agroecología de las Malas hierbas (BAMh)”: modelos de emergencia para malas hierbas de verano. *Revista de Ciências Agrárias*, 47(1): 350-354. DOI: 10.19084/rca.35128
48. VICENTE P, Maia de Sousa R, Sánchez C (2024). O legado das macieiras regionais: preservar para o futuro. *Vida Rural*, 1903, p. 64-69
49. VICENTE R, Costa R, Katamadze A, Pinheiro N, Vergara-Díaz O, Bagulho AS, Yoldi-Achalandabaso A, Reis J, Costa A, Moreira J, Maças B (2024) Wheat production in

Portugal: implementing new multi-scale phenotyping tools in retrospective studies to support breeding. Vida Rural, 19 January 2024