



**«VALorization of Mediterranean small-scale FARMS by
cropping wild UnExploited species»**

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This deliverable presents the latest scientific publications in peer-reviewed journals in open access mode, as well as the presentations of the results of the project in conferences.

Scientific publications

1. Nikolaos Polyzos, Beatriz Paschoalinotto, Maria Compochoi, Maria Inês Dias, Lillian Barros, **Spyridon A. Petropoulos**. 2022. Fertilization of Pot Grown *Cichorium spinosum* L.: How it can affect plant growth, chemical profile and bioactivities of edible parts? *Horticulturae* 8(890): 1-22. <https://doi.org/10.3390/horticulturae8100890> (A149)
2. Beatriz H. Paschoalinotto, Nikolaos Polyzos, Maria Compochoi, Youssef Roupheal, Alexios Alexopoulos, Maria Inês Dias, Lillian Barros, Spyridon A. Petropoulos. 2022. Domestication of Wild Edible Species: The Response of *Scolymus hispanicus* Plants to Different Fertigation Regimes. *Horticulturae* 9, 103. <https://doi.org/10.3390/horticulturae9010103>. (A158)
3. Angel Carrascosa, Jose Antonio Pascual, Margarita Ros, **Spyridon A. Petropoulos**, M^a del Mar Alguacil García. 2023. Agronomical practices and management for commercial cultivation of *Portulaca oleracea* as a crop: A Review. *Plants* 12, 1246. <https://doi.org/10.3390/plants12061246> (A163)
4. Antonios Chrysargyris, Christos Goumenos and Nikolaos Tzortzakis. 2023. Use of Medicinal and Aromatic Plant Residues for Partial Peat Substitution in Growing Media for *Sonchus oleraceus* Production. *Agronomy* 2023, 13, 1074. <https://doi.org/10.3390/agronomy13041074>
5. Antonios Chrysargyris, Stavros Louka, Spyridon A Petropoulos, Nikolaos Tzortzakis. 2023. Soilless cultivation of *Portulaca oleracea* using medicinal and aromatic plants residues for partially peat replacement. *Horticulturae* 9, 474 <https://doi.org/10.3390/horticulturae9040474> (A165)
6. Carrascosa A., Pascual J.A., López-García A., Romo-Vaquero M., De Santiago A., Ros M., Petropoulos S.A., Alguacil M.M. 2023. Effects of inorganic and compost tea fertilizers application on the taxonomic and functional microbial diversity of the purslane rhizosphere. *Frontiers in Plant Science* 14: 1159823 <https://doi.org/10.3389/fpls.2023.1159823> (A166)
7. Carrascosa A., Pascual J.A., López-García A., Romo-Vaquero M., Ros M., **Petropoulos S.A.**, Alguacil M.M. 2023. Different Functional and Taxonomic Composition of the Microbiome in the Rhizosphere of Two Purslane Genotypes rhizosphere. *Agronomy* 13, 1795. <https://doi.org/10.3390/agronomy13071795> (A174)

Conference proceedings

1. Conference proceedings: Beatriz H. Paschoalinotto, Miguel A. Prieto, Nikolaos Polyzos, Maria Compochoi, Spyridon Petropoulos, Isabel C.F.R. Ferreira, Maria Inês Dias, Lillian Barros. Análise do perfil nutricional de partes comestíveis da *Portulaca oleracea* L. produzida pela técnica de rotação de culturas. **III Colóquio Nacional de Plantas Aromáticas e Medicinais. Castelo Branco, Portugal, 24-26 March, 2022.** Type of dissemination: oral
2. Conference proceedings: Beatriz H. Paschoalinotto, Miguel A. Prieto, Nikolaos Polyzos, Maria Compochoi, Spyridon Petropoulos, Isabel C.F.R. Ferreira, Maria Inês Dias, Lillian Barros. “Impacto de diferentes métodos de produção agrícola no perfil nutricional de beldroega (*Portulaca oleracea* L.)”. **Ciência 2022 – Encontro com a ciência e Tecnologia em Portugal. Lisboa, Portugal, 16-18 maio de 2022.** Type of communication: poster

3. Conference proceedings: Nikolaos Polyzos, Beatriz Paschoalinotto, Maria Compochoi, Maria Inês Dias, Lillian Barros, Spyridon A. Petropoulos. The effects of fertilization regime on growth parameters and bioactive properties of pot grown *Cichorium spinosum* L. plants. **1st International Electronic Conference on Horticulturae** (on-line). 16-30 April, 2022. Type of communication: poster
4. Conference proceedings Ángel Carrascosa, José Antonio Pascual, Margarita Ros, Spyridon Petropoulos, María del Mar Alguacil. The effect of fertilization regime on growth parameters of *Sonchus oleraceus* and two genotypes of *Portulaca oleracea*. **1st International Electronic Conference on Horticulturae (on-line). 16-30 April, 2022.** Type of communication: poster
5. Conference proceedings Maria Inês Dias, Beatriz H. Paschoalinotto, Nikolaos Polyzos, Spyridon Petropoulos, Lillian Barros. Tailor-made fertilization regimes as strategies to increase phenolic composition: the case study of pot grown *Cichorium spinosum* L. **Polyphenols Applications 2022**. Valencia, Spain, 28-30 September, 2022. Type of communication: oral
6. Conference proceedings: Beatriz H. Paschoalinotto, Miguel A. Prieto, Nikolaos Polyzos, Maria Compochoi, Spyridon Petropoulos, Isabel C.F.R. Ferreira, Maria Inês Dias, Lillian Barros. Crop rotation and irrigation experiment effects the nutritional and chemical profile of *C. spinosum*. **Ciência 2022 – XVI Encontro de Química dos Alimentos Castelo Branco, Portugal**, 23-26 outubro de 2022. Type of dissemination: oral
7. Conference proceedings: Beatriz H. Paschoalinotto, Miguel A. Prieto, Nikolaos Polyzos, Maria Compochoi, Spyridon Petropoulos, Isabel C.F.R. Ferreira, Maria Inês Dias, Lillian Barros. “Functionality assessment of *Scolymus hispanicus* (golden thistle) for its daily-basis incorporation in the Mediterranean diet”. **Ciência 2022 – XVI Encontro de Química dos Alimentos Castelo Branco, Portugal**, 23-26 outubro de 2022. Type of dissemination: poster
8. Conference proceedings: Ángel Carrascosa, José Antonio Pascual, Álvaro López-García, Margarita Ros, Spyridon A Petropoulos, María del Mar Alguacil. Microbial community structure in purslane (*Portulaca oleracea*) rhizosphere after different organic and inorganic fertilizer rates. **13th International Scientific Agriculture Symposium “AGROSYM 2022”**. Jahorina, Bosnia and Herzegovina, October 6-09, 2022. Type of communication: poster
9. Paraskevi Katsimantou, Stefania-Fani Plitsi, Chrysanthi Foti, Ourania Pavli, Spyridon A. Petropoulos. Seed priming enhances seed germination and seedling growth of five wild edible species. **13th International Scientific Agriculture Symposium “AGROSYM 2022”**. Jahorina, Bosnia and Herzegovina, October 6-9, 2022. Type of communication: poster
10. Conference proceedings: Nikolaos Polyzos, Maria Kompochoi, Alexios Alexopoulos, Maria Ines Diaz, Beatriz Paschoalinotto, Lillian Barros, Spyridon A. Petropoulos. The effect of fertilization regimes on growth and chemical composition of *Cichorium spinosum* plants. **13th International Scientific Agriculture Symposium “AGROSYM 2022”**. Jahorina, Bosnia and Herzegovina, October 6-09, 2022. Type of communication: poster
11. Conference proceedings: Beatriz H. Paschoalinotto, Miguel A. Prieto, Maria Compochoi, Nikolaos Polyzos, Spyridon Petropoulos, Isabel C.F.R Ferreira, Maria Inês Dias, Lillian Barros. Avaliação da influência da adubação via solução nutritiva no perfil nutricional de *Scolymus hispanicus* L. **IV Congresso das Escolas Superiores Agrárias, Santarem, Portugal**, November 3-4, 2022. Type of dissemination: oral
12. Conference proceedings: Beatriz H. Paschoalinotto, Miguel A. Prieto, Nikolaos Polyzos, Maria Compochoi, Spyridon Petropoulos, Isabel C.F.R. Ferreira, Maria Inês Dias, Lillian Barros. “Impacto del riego en el perfil nutricional y químico de las partes comestibles del cardo dorado (*Scolymus hispanicus* L.). **III Congreso Nacional de Jóvenes**

- Investigadores en Ciencia, Ingeniería y Tecnología de los Alimentos, Salamanca, Spain**, 10-11 November, 2022. Type of dissemination: oral
13. Conference proceedings: Paschoalinotto B. H., Prieto M.A., Compocho M.; Polyzos N.; Pires, T.C.S.P.; Petropoulos S.; Ferreira I.C.F.R.; Dias M.I.; Barros L. Estudo integrado da influência do tipo de cultivo e irrigação nas propriedades bioativas de *Cichorium spinosum* L. **XXVI Encontro Galego-Português de Química, Santiago de Compostela, Espanha**, 16-18 November, 2022. Type of dissemination: oral
 14. Conference proceedings: Paschoalinotto B. H., Prieto M.A., Compocho M.; Polyzos N.; Pires, T.C.S.P.; Petropoulos S.; Ferreira I.C.F.R.; Dias M.I.; Barros L. Combinação de diferentes regimes de fertilização e irrigação para a produção de cardo dourado (*Scolymus hispanicus* L.) de alto valor nutricional e mineral. **XXVI Encontro Galego-Português de Química, Santiago de Compostela, Espanha**, 16-18 November, 2022. Type of dissemination: oral
 15. Conference proceedings: Polyzos N., Papaioannou E., Paschou M., Petropoulos S.A. Commercial exploitation of *Sonchus oleraceus*: the response of plants to fertilization regimes. 4th Mediterranean Forum, Chania, Greece, 4-7 December, 2022. Type of communication: poster
 16. Chrysargyris A, Xylia P, Tzortzakis N, 2022. Olive-mill and grape-mill waste as a substitute growing medium component for unexplored vegetables production in nurseries. **9th International Conference on Sustainable Solid Waste Management, CORFU2022**. 15-18 June 2022, Corfu, Greece. Type of communication: oral
 17. Chrysargyris A, Hajisolomou E, Tzortzakis N, 2022. *Origanum dubium* and *Sideritis cypria* plant waste as a substitute growing medium component for *Portulaca oleracea* production in nurseries. **9th International Conference on Sustainable Solid Waste Management, CORFU2022**. 15-18 June 2022, Corfu, Greece. Type of communication: poster
 18. Tzortzakis N, Goumenos C, Xylia P, Chrysargyris A. 2023. Exploring Medicinal and Aromatic Plant residues after distillation as a peat substitute component in growing media for *Sonchus oleraceus* production. **10th International Conference on Sustainable Solid Waste Management, CHANIA2023**. 21-24 June 2023, Chania, Greece. Type of communication: oral