



Deliverable title	D2.11 At least 4 open access papers published in international peer-reviewed journals (months 36)
Deliverable Lead:	UNIVPM
Related Work Package:	WP2- Multi-actor internal and external communication and technology transfer
Related Task:	Task 2.5 Documentation of scientific results (month 13 –36)
Author(s)	Deborah Pacetti
Dissemination level	PU
Due Submission Date:	29/05/2025
Actual submission:	29/05/2025
Start date of project	30.05.2022
Duration	36 months
Summary of Deliverable D2.11 – Open Access Papers in International Peer-Reviewed Journals	While the project was required to deliver at least four open access publications, it far exceeded expectations, producing 22 peer-reviewed papers across leading international journals, ensuring that knowledge generated within the consortium is accessible to the global community. The publications cover the full spectrum of research carried out by the project. Some papers provide comprehensive reviews, such as literature surveys on the nutritional traits of sea fennel and its applications in food and nutraceuticals. Others report original experimental findings - including chemical profiling of leaves, flowers, and sprouts; antioxidant, antimicrobial, and hypoglycaemic properties; volatile composition and essential oils; and the impact of drying, preservation, and extraction methods. These contributions demonstrate sea fennel's richness as a source of bioactive compounds and its versatility in food innovation. Equally important are the papers focused on sustainability and agronomy. Results of life cycle assessments, field trials with biostimulants, and analyses of environmental impacts of sea fennel-based products provide practical guidelines for sustainable cultivation and valorization. Several studies also explored socio-economic and market aspects, showing how the plant can fit into Mediterranean farming systems and consumer markets. By publishing in respected journals such as <i>Molecules</i>, <i>Food Bioscience</i>, <i>Foods</i>, <i>Sustainability</i>, <i>Cleaner Environmental Systems</i>, and others, SEAFENNEL4MED has built a solid scientific foundation that will outlast the project itself.



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Versioning and Contribution History

Version	Date	Modified by	Modification reason
v1.0	29/05/2025	Deborah Pacetti	First version

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1. Monitoring of open access papers published in international peer-reviewed journals

22 papers

PROJECT PARTNER: P1 - UNIVPM			
COMMUNICATION TOOLS	DELIVERABLE	DETAILS	JOURNAL/MAGAZINE/CONFERENCE/
OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	A literature review describing the available reports about physico-chemical and nutritional traits of <i>Crithmum maritimum</i> L. and its application in food production Title: Sea Fennel (<i>Crithmum maritimum</i> L.) as an Emerging Crop for the Manufacturing of Innovative Foods and Nutraceuticals Authors: Maryem Kraouia, Ancuta Nartea, Antonietta Maoloni, Andrea Osimani, Cristiana Garofalo, Benedetta Fanesi, Lama Ismaiel, Lucia Aquilanti, Deborah Pacetti Journal: <i>Molecules</i> 2023, 28(12), 4741; https://doi.org/10.3390/molecules28124741	International peer-reviewed Journal: <i>Molecules</i>, MDPI Special Issue "Halophytes: Nutrients, Bioactive Compounds, Chemical Characterisation and Potential Applications"
OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	An original research article describing the chemical characterization of fresh leaves and sprouts of sea fennel Title: Sea fennel (<i>Crithmum maritimum</i> L) leaves and flowers: bioactive compounds, antioxidant activity and hypoglycaemic potential Authors: Ancuta Nartea; Oghenetega Lois Orhotohwo; Benedetta Fanesi; Paolo Lucci, Monica Rosa Loizzo, Rosa Tundis, Lucia Aquilanti, Simona Casavecchia, Giacomo Quattrini. Journal: <i>Food Bioscience</i>, 2023, 56, 103417. https://doi.org/10.1016/j.fbio.2023.103417	International peer-reviewed Journal: <i>Food Bioscience</i>, ELSEVIER
OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	An original research paper reporting the exploitation of sea fennel for production of dried spices using different drying methods. Title: Impact of Different Drying Methods on the Microbiota, Volatilome, Color, and Sensory Traits of Sea Fennel (<i>Crithmum maritimum</i> L.) Leaves Authors: Maoloni, A.; Cardinali, F.; Milanović, V.; Reale, A.; Boscaino, F.; Di Renzo, T.; Ferrocino, I.; Rampanti, G.; Garofalo, C.; Osimani, A.; et al. Journal: <i>Molecules</i> 2023, 28, 7207. https://doi.org/10.3390/molecules28207207	International peer-reviewed Journal: <i>Molecules</i>, MDPI Special Issue "Halophytes: Nutrients, Bioactive Compounds, Chemical Characterisation and Potential Applications"

OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	An original research article dealing with the Life cycle assessment analysis of sea fennel crop production Title: Life cycle assessment of open-field sea fennel production in central Italy Authors: Duca D., Boakye-Yiadom KA, Ilari A., Aquilanti L., Foppa Pedretti E. Journal: <i>Cleaner Environmental Systems</i> , 2024 , 13, 100198 https://doi.org/10.1016/j.cesys.2024.100198	International peer-reviewed Journal: <i>ELSEVIER</i>
OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	An original research article dealing with the evaluation of a biofertilizer on sea fennel crop Title: Biostimulation effect on <i>Crithmum maritimum</i> L. root development in controlled environment Authors: STEFANO ZENOBI, MARCO FIORENTINI, BIAGIO DI TELLA, VESNA MILANOVIC, ANDREA MARCELLI, LUIGI LEDDA, PAOLA ANTONIA DELIGIOS, LUCIA AQUILANTI, and ROBERTO ORSINI. Journal: <i>Turkish Journal of Agriculture and Forestry</i> , 2024 , 42, DOI: 10.55730/1300-011X.3204	International peer-reviewed Journal: Turkish Journal of Agriculture and Forestry, published by the Scientific and Technological Research Council of Turkey
OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	An original research article dealing with the Environmental Impact Assessment of New Sea Fennel-Based Food Products Title: Environmental Impact Assessment of New Sea Fennel-Based Food Products: Spice and Fermented Pickles Authors: Costantini, E.; Boakye-Yiadom, K.A.; Ilari, A.; Foppa Pedretti, E.; Duca, D. Journal: <i>Sustainability</i> , 2025, 17, 1869. DOI: https://doi.org/10.3390/su17051869	International peer-reviewed Journal: <i>Sustainability</i> , MDPI
OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Food-Grade Polar Extracts from Sea Fennel (<i>Crithmum maritimum</i> L.) By-Products: Unlocking Potential for the Food Industry Authors: Aizhan Ashim, Lama Ismaiel, Benedetta Fanesi, Ancuta Nartea, Antonietta Maoloni, Oghenetega Lois Orhotohwo, Helen Stephanie Ofei Darko, Paolo Lucci, Lucia Aquilanti, Deborah Pacetti, Roberta Pino, Rosa Tundis and Monica Rosa Loizzo	International peer-reviewed Journal: <i>Sustainability</i> , MDPI

PROJECT PARTNER: P3 - CREA-AN

COMMUNICATION TOOLS	DELIVERABLE	DETAILS	JOURNAL/MAGAZINE/CONFERENCE/
OPEN ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	1 Title: An insight into the sea fennel (<i>Crithmum maritimum</i> L.) volatile fraction: Diversity in wild populations of different geographical origin and identification of key odorants	International peer-reviewed Journal: Food Bioscience, ELSEVIER

Author:

Antonio Raffo ^a, Lucia Aquilanti ^b, Irene Baiamonte ^a, Simona Casavecchia ^b, Valentina Melini ^a, Nicoletta Nardo ^a, Annunziata Nartea ^b, Deborah Pacetti ^b, Eleonora Saggia Civitelli ^a, Lucrezia Sforza ^a

PROJECT PARTNER: P4 - UNIST

COMMUNICATION TOOLS	DELIVERABLE	DETAILS	JOURNAL/MAGAZINE/CONFERENCE/
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Chemical Profiling of Sea Fennel (<i>Crithmum maritimum</i> L., Apiaceae) Essential Oils and Their Isolation Residual Waste-Waters Authors: Politeo O., Popović M., Veršić Bratinčević M., Kovačević K., Urlić B., Generalić Mekinić I. Journal: Plants 2023, 12(1), 214. https://doi.org/10.3390/plants12010214	International peer-reviewed Journal: Plants, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Conventional vs. Microwave-Assisted Hydrodistillation: Influence on the Chemistry of Sea Fennel Essential Oil and Its By-Products Authors: Politeo O., Popović M., Veršić Bratinčević M., Koceić P., Ninčević Runjić T., Generalić Mekinić I. Journal: Plants 2023, 12(7), 1466. https://doi.org/10.3390/plants12071466	International peer-reviewed Journal: Plants, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Comparison of Conventional and Green Extraction Techniques for the Isolation of Phenolic Antioxidants from Sea Fennel. Authors: Veršić Bratinčević M., Kovačić R., Popović M., Radman S., Generalić Mekinić I. Journal: Processes 2023, 11, 2172. https://doi.org/10.3390/pr11072172	International peer-reviewed Journal: Processes, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Vinegar-Preserved Sea Fennel: Chemistry, Color, Texture, Aroma, and Taste Authors: Radman, S., Brzović, P., Radunić, M., Rako, A., Šarolić, M., Ninčević Runjić, T., Urlić, B., Generalić Mekinić, I. Journal: Foods, 12 (2023) 3812, 13. https://doi.org/10.3390/foods12203812	International peer-reviewed Journal: Foods, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Volatiles from French and Croatian Sea Fennel Ecotypes: Chemical Profiles and the Antioxidant, Antimicrobial and Antiageing Activity of Essential Oils and Hydrolates Authors: Politeo, O.; Ćurlin, P.; Brzović, P.; Auzende, K.; Magné, C.; Generalić Mekinić, I. Journal: Foods, 13(5) (2024) 645. https://doi.org/10.3390/foods13050695	International peer-reviewed Journal: Foods, MDPI

OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: A Year in Life of Sea Fennel: Annual Phytochemical Variations of Major Bioactive Secondary Metabolites Authors: Popović M., Radman, S., Generalić Mekinić, I., Ninčević Runjić, T., Urlić, B., Veršić Bratinčević, M. Journal: Applied Science(Basel), 14 (2024), 3440, 14. https://doi.org/10.3390/app14083440	International peer-reviewed Journal: Applied Science, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: The alphabet of sea fennel: Comprehensive phytochemical characterisation of Croatian populations of <i>Crithmum maritimum</i> L. Authors: Generalić Mekinić, I. , Politeo, O., Ljubenkov, I., Mastelić, L., Popović, M., Veršić Bratinčević, M., Šimat, V., Radman, S., Skroza, D., Ninčević Runjić, T., Runjić, M., Dumičić, G., Urlić, B. Journal: Food Chemistry X, 22 (2024), 101386, 12. doi: https://doi.org/10.1016/j.fochx.2024.101386	International peer-reviewed Journal: Food Chemistry X, Elsevier
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Sea Fennel (<i>Crithmum maritimum</i> L.) Flowers as an Emerging Source of Bioactive Compounds Authors: Radman, S., Mastelić, L., Ljubenkov, I., Lazarevski, S., Politeo, O., Podrug, R., Prga, I., Čorić, I., Popović, M., Veršić Bratinčević, M., Skroza, D., Brzović, P., Runjić, M., Urlić, B., Generalić Mekinić, I. Journal: Polish Journal of Food and Nutrition Sciences, 2024, 74(3), 221–231. doi: https://doi.org/10.31883/pjfn/191399	International peer-reviewed Journal: Polish Journal of Food and Nutrition Sciences
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Influence of harvest location on phenolic composition and antioxidant activity of sea fennel Authors: Mimica N., Generalić Mekinić I., Skroza D., Brzović P. Journal: Croatian journal of food science and technology, Vol. 16 No. 1, 2024. https://doi.org/10.17508/CJFST.2024.16.1.09	International peer-reviewed Journal: Croatian journal of food science and technology
OPEN-ACCESS PUBLICATION – Book Chapter	D2.11	Title: Adaptation of the Chasmophyte <i>Crithmum maritimum</i> to High-Salinity Conditions Authors: Blažević I. Đulović A., Burčul F., Tomaš J., Brzović P., Radman S., Politeo O., Generalić Mekinić I. Book Chapter	InTechOpen Book Chapter, 2025, 1-24. https://www.intechopen.com/online-first/1217767 DOI: 10.5772/intechopen.1009145
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Biological Activities of Essential Oils and Hydrolates from Different Parts of Croatian Sea Fennel (<i>Crithmum maritimum</i> L.) Authors: Slišković, L., Režić Mužinić, N., Politeo, O., Brzović, P., Tomaš, J., Generalić Mekinić, I., Popović, M. Journal: Biomolecules, 15 (2025), 5; 888, 17. doi: 10.3390/biom15050666	International peer-reviewed Journal: Biomolecules (MDPI)

PROJECT PARTNER: P5 - IACKR

COMMUNICATION TOOLS	DELIVERABLE	DETAILS	JOURNAL/MAGAZINE/CONFERENCE/
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Chemical Profiling of Sea Fennel (<i>Crithmum maritimum</i> L., Apiaceae) Essential Oils and Their Isolation Residual Waste-Waters Author: Politeo O., Popović M., Veršić Bratinčević M., Kovačević K., Urlić B., Generalić Mekinić I. Journal: Plants 2023, 12(1), 214, https://doi.org/10.3390/plants12010214	International peer-reviewed Journal: Plants, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Conventional vs. Microwave-Assisted Hydrodistillation: Influence on the Chemistry of Sea Fennel Essential Oil and Its By-Products Authors: Politeo O., Popović M., Veršić Bratinčević M., Koceić P., Ninčević Runjić T., Generalić Mekinić I. Journal: Plants 2023, 12(7), 1466, https://doi.org/10.3390/plants12071466	International peer-reviewed Journal: Plants, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Comparison of Conventional and Green Extraction Techniques for the Isolation of Phenolic Antioxidants from Sea Fennel. Authors: Veršić Bratinčević M., Kovačić R., Popović M., Radman S., Generalić Mekinić I. Journal: Processes 2023, 11, 2172, https://doi.org/10.3390/pr11072172	International peer-reviewed Journal: Processes, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Vinegar-Preserved Sea Fennel: Chemistry, Color, Texture, Aroma, and Taste Authors: Radman, S., Brzović, P., Radunić, M., Rako, A., Šarolić, M., Ninčević Runjić, T., Urlić, B., Generalić Mekinić, I. Journal: Foods, 12 (2023) 3812, 13. https://doi.org/10.3390/foods12203812	International peer-reviewed Journal: Foods, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: A Year in Life of Sea Fennel: Annual Phytochemical Variations of Major Bioactive Secondary Metabolites Authors: Popović M., Radman, S., Generalić Mekinić, I., Ninčević Runjić, T., Urlić, B., Veršić Bratinčević, M. Journal: Applied Science, 14 (2024), 3440, 14. https://doi.org/10.3390/app14083440	International peer-reviewed Journal: Applied Science, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: The alphabet of sea fennel: Comprehensive phytochemical characterisation of _Croatian populations of <i>Crithmum maritimum</i> L. Authors: Generalić Mekinić, I., Politeo, O., Ljubenkov, I., Mastelić, L., Popović, M., Veršić Bratinčević, M., Šimat, V., Radman, S., Skroza, D., Ninčević Runjić, T., Runjić, M., Dumičić, G., Urlić, B. Journal: Food Chemistry X, 22 (2024), 101386, 12. doi: https://doi.org/10.1016/j.fochx.2024.101386	International peer-reviewed Journal: Food Chemistry X, Elsevier

OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Sea Fennel (<i>Crithmum maritimum</i> L.) Flowers as an Emerging Source of Bioactive Compounds Authors: Radman, S., Mastelić, L., Ljubenković, I., Lazarevski, S., Politeo, O., Podrug, R., Prga, I., Čorić, I., Popović, M., Veršić Bratinčević, M., Skroza, D., Brzović, P., Runjić, M., Urlić, B., Generalić Mekinić, I. Journal: Polish Journal of Food and Nutrition Sciences, 2024, 74(3), 221–231. doi: https://doi.org/10.31883/pjfn/191399	International peer-reviewed Journal: Polish Journal of Food and Nutrition Sciences
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Biological Activities of Essential Oils and Hydrolates from Different Parts of Croatian Sea Fennel (<i>Crithmum maritimum</i> L.) Authors: Slišković, L., Režić Mužinić, N., Politeo, O., Brzović, P., Tomaš, J., Generalić Mekinić, I., Popović, M. Journal: Biomolecules, 15 (2025), 5; 888, 17. doi: 10.3390/biom15050666	International peer-reviewed Journal: Biomolecules (MDPI)

PROJECT PARTNER: P6 - UNIBRE

COMMUNICATION TOOLS	DELIVERABLE	DETAILS	JOURNAL/MAGAZINE/CONFERENCE/
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Volatiles from French and Croatian Sea Fennel Ecotypes: Chemical Profiles and the Antioxidant, Antimicrobial and Antiageing Activity of Essential Oils and Hydrolates Authors: Politeo, O.; Ćurlin, P.; Brzović, P.; Auzende, K.; Magné, C.; Generalić Mekinić, I. Journal: Foods, 13(5) (2024) 645. https://doi.org/10.3390/foods13050695	International peer-reviewed Journal: Foods, MDPI
OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: A Characterization of Biological Activities and Bioactive Phenolics from the Non-Volatile Fraction of the Edible and Medicinal Halophyte Sea Fennel (<i>Crithmum maritimum</i> L.). Authors: Lemoine, C.; Rodrigues, M.J.; Dauvergne, X.; Cérantola, S.; Custódio, L.; Magné, C. Journal: Foods 2024, 13, 1294. https://doi.org/10.3390/foods13091294	International peer-reviewed Journal: Foods, MDPI

PROJECT PARTNER: P7 - INGREF

COMMUNICATION TOOLS	DELIVERABLE	DETAILS	JOURNAL/MAGAZINE/CONFERENCE/
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OPEN-ACCESS PUBLICATION IN INTERNATIONAL PEER-REVIEWED JOURNALS	D2.11	Title: Impact of growing region on the phenolic compounds and the antioxidant activity of <i>Crithmum maritimum</i> L. Authors: Mezni F.*, Slama A., Ayari F., Khaldi A. Journal: Journal of materials and environmental science 2024, Volume 15, Issue 8, Page 1201-1207	International peer-reviewed Journal: Journal of materials and environmental science
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