

PERSONAL INFORMATION**Alba N. Mininni**

📍 Affiliation
 University of Basilicata
 Department of Agricultural, Forestry, Food and Environmental Sciences (DAFE)
 Address Via Lanera, 20 MATERA

☎ 0039 0835355269 📠 +39 3332370344

✉ alba.mininni@unibas.it

🌐 <http://docenti.unibas.it/site/home/docente.html?m=009387>

🔍 Scopus ID: 56497941800

🔗 ORCID ID: <https://orcid.org/0000-0002-2710-6759>

Sex Female | Date of birth 10/04/1982 | Nationality Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Research Director and 1st level Technologist / <input type="checkbox"/> First Researcher and 2nd level Technologist / <input type="checkbox"/> Principal Investigator

WORK EXPERIENCE

- From 1st July 2025 till today Associate Professor for the scientific disciplinary sector AGRI-03/A (Arboriculture and Fruitculture) at DAFE, University of Basilicata (Unibas)
- From 1st July 2022 till 30 June 2025 Researcher RTDB for the scientific disciplinary sector AGRI-03/A (Arboriculture and Fruitculture) at DiCEM, University of Basilicata (Unibas)
- From 1st September 2018 till 30 June 2022 Researcher RTDA for the scientific disciplinary sector AGRI-03/A (Arboriculture and Fruitculture) at DiCEM, University of Basilicata (Unibas)
- From February till March 2020 Research activity at Fitotechniki, Arta (Greece) in the frame of the project VirFree H2020-MSCA-RISE-2016, in collaboration with the Aristotle University of Thessaloniki with a Marie S. Curie RISE H2020 Agreement
- From October 2012 till May 2018 Research fellow for the scientific disciplinary sector AGRI-03/A (Arboriculture and Fruitculture) at DiCEM, Unibas
- From January till May 2009 Research activity at Molecular Biology Laboratory C.R.E.S.Co.M.A. (Centro di Ricerca di Eccellenza per la Sperimentazione e definizione di nuovi sistemi analitici per il Controllo di Matrici Ambientali ed Alimentari) (Nautilus, Vibo Valentia) in collaboration with University of Padua.
- September 2011 PhD in Food Biotechnology at the University of Padua
- July 2006 Master's Degree in Food Biotechnology at the University of Padua (110 cum laude)

WORK ACTIVITIES**Editorial activity**

- 2026 Guest Associate Editor of the Special Issue: "Plants in the Urban Environment" in the International Journal of Plant Biology
- 2024-2025 Guest Associate Editor of the Special Issue: "Emerging Contaminants in Water-Soil-Plant Systems" in Frontiers in Plant Science
- 2022-2023 Guest Associate Editor of the Special Issue: "Emerging Approaches for Enhancing Nutritional Quality of Berries" in Frontiers in Plant Science
- 2022 Guest Editor of the Special Issue of the Journal Agronomy "Applications of Soil Microorganisms for Sustainable Crop Production"
- 2021 Co-Editor of the volume of the ISHS series Acta Horticulturae – IX International Symposium on Irrigation of Horticultural Crops
- 2020 – till now Associate Editor for the CABI – Springer Nature - Agriculture and Bioscience Journal
- 2020 - Guest Editor of the Special Issue of the Journal Sustainability: "Wastewater reuse for irrigation of rural and urban ecosystem: applications and future perspectives"

2019 – Member of Editorial Board of International Journal of Plant Biology

Invited presentations Speaker at the National conference The GreenLink “Affrontare la desertificazione nel Mediterraneo col Cocoon”, Rome 23 October 2018 presenting the results of the LIFE 14/CCA/GR/000389 AgroClimaWater

Courses Teaching activity of Ornamental Arboriculture (6 CFU) in the Bachelor degree in the “Landscape, Environment and Urban Green”

Teaching activity of Urban Green in the Laboratory of Phenomenology of Architecture (6 CFU) in the Course Degree in Architecture

Projects RU – Responsible of Research Unit

- 2023-2025 R.U. for DAFE of PRIN2022 KIWINNER “Climate change-enhanced kiwifruit physiological decline: Integrated solutions to recover plant and soil functions” Total budget euro 206,722 R.U. euro 57,890
- 2022-2025 R.U. for DiCEM of UE HORIZON 2020 - PRIMA - 2111 - Call 2021 Section 1 Farming IA FARM4CLIMATE “Smart governance and operational models for agroecological carbon farming” Total Budget 2,749,437.50 euro R.U. 151,500 euro;
- 2019-2022 R.U. for DiCEM of H2020 VirFree Project VirFree H2020-MSCA-RISE-2016- “Virus free fruit nurseries” Total Budget 787,500 euro R.U. 36,000 euro;
- 2020-2023 R.U. for DiCEM of Rural Development Programmes Basilicata 2014-2020, 16.2: Nutri.Fe “Sustainability of fruit agroecosystems: soil fertility and nutrition”. PSR 2014-2020 Basilicata sottomis. Total budget 300,000 euro R.U. 104,000 euro;
- 2019-2021 R.U. for DiCEM of LIFE14 AGROCLIMAWATER CCA/GR/000389 “Promoting water efficiency and supporting the shift towards a climate resilient agriculture in Mediterranean countries”. Total budget 2,423,223 euro R.U. 303,478 euro

Projects – Responsible of Tasks inside Projects funded by private or public Entities

- 2020-2021 - Responsible of the task: "Determine the effect of carbohydrates and auxin depletion on abscission zone" of the project: "Fruit Drop of Gold3 in Italy" funded by ZESPRI Gropus Limited (Project Number GI21038)
- 2020-2021 - Responsible of the task: "Water and soil management" of the project: "Water and soil management of G3 in Italy" funded by ZESPRI Gropus Limited (Project Number GI21020)
- 2020 Responsible of the activities related to the “Functional Analysis of the Urban Greening” O.R. 3 “Gestione efficiente dell'utilizzo degli ambienti interni ed esterni dell'edificio” National Project COGITO “COGnitive dynamic system to allOw buildings to learn and adapt”, funded by the Programma Operativo Nazionale – Ricerca & Innovazione - PON R&I 2014-2020
- 2019-2020: Responsible of the task "Calculation of the water needs of Gold3 kiwifruit " of the project: "Water needs of G3 during an annual cycle" funded by ZESPRI Gropus Limited (Project Number GI20069)
- 2018-2019: Responsible of the task: "Research activity on fruit hormones and anatomy of stalk" of the project titled: "Pre-harvest fruit drop in Gold3 kiwifruit" supported by ZESPRI Gropus Limited (Project Number GI1951)

Publications

Total number of publications in peer-review journals: 60

Total number of citations: 801, H index: 13 (source: Scopus, May 2026)

Some relevant papers:

Calabritto M., **Mininni A.N.**, De Pauw, D. J.W. Green S., Dichio B., Steppe K., Combining plant-based sensing and mechanistic modelling to quantify hydraulic resistance and capacitance for real-time irrigation in Mediterranean yellow-fleshed kiwifruit orchards, *AGRICULTURAL WATER MANAGEMENT*, Vol. 316, (2025), 109607, <https://doi.org/10.1016/j.agwat.2025.109607>

Di Biase R., Calabritto M., **Mininni A.N.***, Montanaro G., Dichio B. (2025) *Microtensiometer-based trunk water potential as a plant water status indicator in kiwifruit under different soil water availability*. *IRRIGATION SCIENCE*. <https://doi.org/10.1007/s00271-025-01020-1>

Calabritto M., **Mininni A.N.***, Di Biase R., Petrozza A., Summerer S., Cellini F. and Dichio B. (2025) *Physiological and image-based phenotyping assessment of waterlogging responses of three kiwifruit rootstocks and grafting combinations*. *FRONTIERS IN PLANT SCIENCE* 16:1499432. doi: 10.3389/fpls.2025.1499432

Addesso R., Araniti F., Bloise A, **Mininni A. N.***, Dichio B., López-González D., Elshafie H. S., Ellerbrock R.H, Schnee L. S., Filser J., Sileo D., Sofo A. (2025) *Soil organic matter quality in an olive orchard differently managed for 21 years: Insights into its distribution through soil aggregates and depth*, AGRICULTURE, ECOSYSTEMS & ENVIRONMENT, Volume 380,2025,109388,ISSN 0167-8809, <https://doi.org/10.1016/j.agee.2024.109388>

Mininni A.N.*, Pietrafesa A., Calabritto M., Di Biase R., Brunetti G., De Mastro F., Murgolo S., De Ceglie C., Salerno C. and Dichio B. (2024) *Uptake and translocation of pharmaceutically active compounds by olive tree (Olea europaea L.) irrigated with treated municipal wastewater*. FRONTIERS IN PLANT SCIENCE 15:1382595. doi:10.3389/fpls.2024.1382595

Calabritto M., **Mininni A.N.***, Di Biase R., Pietrafesa A. and Dichio B. (2024) *Spatio-temporal dynamics of root water uptake and identification of soil moisture thresholds for precision irrigation in a Mediterranean yellow-fleshed kiwifruit orchard*. FRONTIERS IN PLANT SCIENCE 15:1472093. doi:10.3389/fpls.2024.1472093

Sofo A., Dichio B., Elshafie H.S., Camele I., Calabritto M., Tomasi I., Mastroleo M., Xylogiannis E., D'Ippolito I., & **Mininni A.N.** (2024). *Enhancing soil properties through sustainable agronomic practices reduced the occurrence of kiwifruit vine decline syndrome*. SOIL USE AND MANAGEMENT, 40, e13052. <https://doi.org/10.1111/sum.13052>

Brunetti, G., Traversa, A., De Mastro, F., Dichio B., Mottola F., **Mininni A. N.**, Nigro P., Coccozza C. (2023). *Evaluation of the QuEChERS extraction approach for the analysis of active compounds of pharmaceuticals in olive tree portions*. CHEM. BIOL. TECHNOL. AGRIC. 10, 80 <https://doi.org/10.1186/s40538-023-00454-z>

Mininni A. N., Tuzio A., Brugnoli E., Dichio B., Sofo A. 2022. Carbon isotope discrimination and water use efficiency in interspecific *Prunus* hybrids subjected to drought stress. PLANT PHYSIOLOGY AND BIOCHEMISTRY Vol. 175, 15 March 2022, Pages 33-43

Fausto, C., Araniti, F., **Mininni, A.N.** et al. Differential olive grove management regulates the levels of primary metabolites in xylem sap. PLANT SOIL 460, 281–296 (2021) <https://doi.org/10.1007/s11104-020-04800-0>

Sofo A., **Mininni A. N.**, Ricciuti P. 2020 Comparing the effects of soil fauna on litter decomposition and organic matter turnover in sustainably and conventionally managed olive orchards, GEODERMA, Volume 372,2020,114393,ISSN 0016 7061, <https://doi.org/10.1016/j.geoderma.2020.114393>

Sofo A, **Mininni AN**, Fausto C, Scagliola M, Crecchio C, Xilyoyannis C, Dichio B (2019). Evaluation of the possible persistence of potential human pathogenic bacteria in olive orchards irrigated with treated urban wastewater. SCIENCE OF THE TOTAL ENVIRONMENT, vol. 658, p. 763-767, ISSN: 0048-9697, doi:10.1016/j.scitotenv.2018.12.264

Fausto C., **Mininni A. N.**, Sofo A., Crecchio C., Scagliola M., Dichio B., Xilyoyannis C. 2018 Olive orchard microbiome: characterisation of bacterial communities in soil-plant compartments and their comparison between sustainable and conventional soil management systems, PLANT ECOLOGY & DIVERSITY, 11:5-6, 597-610, DOI: 10.1080/17550874.2019.1596172

Pascasio S., Crecchio C., Scagliola M., **Mininni A. N.**, Dichio B., Xilyoyannis C., Sofo A., 2018 Microbial-based soil quality indicators in irrigated and rainfed soil portions of Mediterranean olive and peach orchards under sustainable management, AGRICULTURAL WATER MANAGEMENT, 195: 172-179,ISSN 0378-3774, <https://doi.org/10.1016/j.agwat.2017.10.014>

Montanaro G., Dichio B., Lang A., **Mininni A. N.**, Xilyoyannis C., 2015. Fruit calcium accumulation coupled and uncoupled from its transpiration in kiwifruit. J. PLANT PHYSIOL. 181: 67-74, DOI: 10.1016/j.jplph.2015.04.004

Montanaro G., Dichio B., Lang A., **Mininni A. N.**, Nuzzo V., Clearwater M. J., Xilyoyannis C., 2014. Internal versus external control of calcium nutrition in kiwifruit. J. PLANT NUTR. SOIL SCI. 177: 819–830, DOI: 10.1002/jpln.201400396.

Book chapter

Xiloyannis C., Dichio B., **Mininni A. N.** (2023) *Vine Nutrition and Water Requirements* in the Book: "Kiwifruit: Botany, Production and Uses" Richardson A., Burdon J., Ferguson R. pp. 164-183 CABI International <https://doi.org/10.1079/9781800620933.0011>

Other Relevant Information

Member of the "Italian Society of Italian Horticulture"(SOI);

Member of the Italian Society of Arboriculture" (SIA);

Member of the "International Society of Horticultural Science" (ISHS).

I actively collaborate with Zespri and the Spin Off company Agreement s.r.l. and Karposia in research and demonstration activities in the agricultural sector. I also collaborate with many Farmers' Organizations in innovation technology transfer and training.

International Network

2022- till today - MC member of the COST ACTION FRUITCREWS *Fruit tree Crop REsponses to Water deficit and decision support Systems applications.*

WG1 Kiwifruit Review Coordinator

Organization of International events

- 2027 Co-Convener of the ISHS XII International Symposium on Kiwifruit (5-10 September 2027, Matera, Italy)
- 2019 Symposium secretariat of the IX International Symposium on Irrigation of Horticultural Crops (17-20 June 2019 Matera, Italy)
- 2013 Symposium Secretariat of the VIII International Peach Symposium (17-20 June 2013 Matera, Italy)

Member of Scientific Committee

- 2025-2026 Member of the Scientific Committee of the ISHS XI International Symposium on Irrigation of Horticultural crops (18-23 January 2026, Tatura, Australia)
- 2024 Member of the Scientific Committee of the national congress: URGES "Urban Green Shapes" (1-2 October 2024, Matera, Italy)
- 2022 Member of the Scientific Committee of the symposium: WATER: A WORLDWIDE CHALLENGE FOR HORTICULTURE! - IHC 2022 (15-18 August 2022 Angers, France)
- 2021 Member of the Scientific Committee of the ISS2021 ISHS "IX International Strawberry Symposium", (1-5 May 2021 Rimini, Italy)
- 2020 Member of the Scientific Committee of the International Conference "Water Efficiency & Climate Resilient Agriculture" (15-16 July 2020 Chania, Greece).
- 2019 Member of the Scientific Committee of the International Symposium on Precision Management of Orchards and Vineyards (7-11 October 2019, Palermo, Italy)
- 2019 Member of the Scientific Committee of the IX International Symposium on Irrigation of Horticultural Crops (17-20 June 2019 Matera, Italy)

Speaker at national and international symposia

2026

- ISHS XI International Symposium on Irrigation of Horticultural Crops with a presentation titled: "*Real-time trunk water potential monitoring: insights for kiwifruit water relations and irrigation management*" Tatura, Australia, January 2026

2025

-*Cambiamenti climatici: valutazione della tolleranza di portinnesti di actinidia a carenza ed eccesso idrico* Agriworld 2025, Matera, Italy

- *Physiological and phenotypic assessment of water stress response of three kiwifruit rootstocks and scion/rootstock combinations* in the International conference Water relations and irrigation of fruit crops: from science to policy and practice. - FRUITCREWS COST Action, Noussa (Greece), 16-18 June 2025

- *Effects of the application of a PGPB microbial consortium on the waterlogging response of kiwifruit* Giornate scientifiche SOI Pisa, Italy 25-27 June 2025

2024

- ISHS XI International Symposium on Kiwifruit with a presentation titled: "*Effects of kiwifruit rootstocks on physiological responses of grafting combinations under waterlogging stress*" *MontManganui, New Zealand, February 2024*

-ISHS III International Symposium on Greener Cities: Improving Ecosystem Services in a Climate-Changing World (GreenCities2024) with a presentation titled: "*Assessment of plant species suitability for green walls in Mediterranean area*" Wisley, UK, September 2024

2023

- ISHS X International Symposium on Irrigation of Horticultural Crops with a presentation titled: "*Fate of CECs in soil-plant system in olive trees irrigated with treated municipal wastewater*", Stellenbosch, South Africa January, 2023

-XIV Giornate Scientifiche SOI - L'ortoflorofruitticoltura per la transizione ecologica, with a presentation titled: "*Contaminants of emerging concern (CECs) in olive plant irrigated with wastewater: uptake and distribution into plant tissues*", Torino, Italy June 2023

2022

-IHC 31° International Horticultural congress, with a presentation titled: "*Evaluation of contaminants of emerging concern (CECs) absorption and accumulation in plan irrigated with treated municipal wastewater: preliminary results*" Angers, France, August 2022

2021

- ISHS X International Symposium on Kiwifruit with a presentation titled: "*Physical structure and chemical quality of waterlogged soils in a kiwifruit orchard*" Turkey, 27-30 September 2021

2020

-International Conference "Water Efficiency & Climate Resilient Agriculture" with a presentation titled: "*LIFE AgroClimaWater project: environmental impact and water use of sustainable fruit orchards in Mediterranean area*" Chania, Greece 15-16 July 2020

2019

-ISHS IX International Symposium on Irrigation of Horticultural crops with a presentation titled: "*Sustainable strategy of irrigation in fruit orchards: environmental impact at sub-basin level*" Matera, Italy 17-20 June 2019

2017

-ISHS International Symposium on Greener cities for more efficient ecosystem services in a climate changing world with a presentation titled: "*Multifunctional peri-urban agriculture: the ecosystem services of a sustainable olive grove*". Bologna, Italy 12-15 September 2017

2017

-Sustain Conference with a presentation titled: "*Endophytes: the effect of sustainable management in an olive grove under semi-arid conditions*" Dublin, Ireland 28-29 August 2017

Matera, 5/05/2026

Prof.ssa Alba N. Mininni



According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV and application for recruiting purposes.