

Dr. Silvia Portarena

Curriculum vitae

Personal information

E-mail [REDACTED]
Nationality [REDACTED]
Date of birth [REDACTED]

Education

From 15/03/2011 to 14/02/2014 **PhD in “Food Biotechnology “**

Department for Innovation in
Biological, Agro-Food, and Forest
Systems, University of Tuscia
(Viterbo), Italy

Title of the thesis: “Authentication and traceability of extra virgin olive oil by means of stable isotopes applications”.
Supervisors: Dr. Enrico Brugnoli and Dr. Marco Esti
Reference: Protocol n. 6663, date 30.05.2014, thesis and scientific papers

From 26/10/2005 to 24/04/2008 **Master degree in “Physics”. Passing grade: 110/110**

Faculty of Mathematic, Physic and
Natural Sciences, University of
Firenze, Italy

Title of the thesis: “Natural aerosol study by means of Ion Beam Analysis techniques”.
Supervisor: Dr. Franco Lucarelli
Reference: Protocol n.015748, date 24.04.2008, thesis and scientific paper

From 01/10/2002 to 14/10/2005 **Bachelor degree in “Physics”. Passing grade: 110/110 with honours.**

Faculty of Mathematic, Physic and
Natural Sciences, University of
Perugia, Italy

Title of the thesis: “Non-commutative variables and dynamic of a charged particle in an external magnetic field”.
Supervisor: Dr. Yogendra Narain Srivastava

October 2005 **Degree in violin**

Music conservatory of
Perugia, Italy

Trainings

From 25/05/2017 to 26/05/2017 **“Espressione dei risultati, taratura, standard interni e internazionali, accreditamento e metodologie” - workshop**

Department of Chemistry, Life
Sciences and Environmental
Sustainability,
University of Parma, Italy

Reference: attendance certificate

From 10/11/2015 to 11/11/2015 **“1st MS Lipidomic school”**

Department of Pharmacological and
Biomolecular Sciences,
University of Milan, Italy

Reference: attendance certificate

From 26/01/2015 to 30/01/2015 **“Exploring the complexity - Statistical methods for monitoring and analysis of agricultural and forestry systems” - workshop**

Consiglio per la Ricerca e la
sperimentazione in Agricoltura, Centro
di Ricerca per la Selvicoltura, Arezzo
(CRA-SEL), Italy

Reference: attendance certificate

From 16/10/2014 to 17/10/2014 **“Agroforestry Systems – a Modern Response to Global Challenges of Climate Change, Food Production, Bioenergy Needs, and Environmental Restoration”- conference**

CNR-Institute of Agro-environmental
and Forest Biology, Porano (TR), Italy

Reference: attendance certificate

17/06/2014 **“3D Raman Imaging and Correlative Scanning Microscopy Techniques”- Practical-theoretical workshop:**

- Faculty of Mathematic, Physic and Natural Sciences, University of Firenze, Italy
19/11/2013 Reference: attendance certificate
“Food safety and defence of authenticity of national productions” - seminar
- Thermo Fisher Scientific, Torino, Italy
Reference: attendance certificate
“18th Workshop on the Developments in the Italian PhD Research on Food Science Technology and Biotechnology”
- Department of Agronomy Food Natural resources Animals and environment
University of Padova, Conegliano (PD), Italy
Reference: attendance certificate
“17th Workshop on the Developments in the Italian PhD Research on Food Science Technology and Biotechnology.”
- Department of Agri-Food Science and Technologies
University of Bologna, Cesena (FC), Italy
Reference: attendance certificate
“Giornate di Studio e Incontro sulla Spettrometria”
- Fondazione Edmund Mach, San Michele all’Adige (TN), Italy
Reference: attendance certificate
“16th Workshop on the Developments in the Italian PhD Research on Food Science Technology and Biotechnology”
- From **25/09/2013 to 27/09/2013**
Reference: attendance certificate
- From **19/09/2012 to 21/09/2012**
Reference: attendance certificate
- From **11/04/2012 To 13/04/2012**
Reference: attendance certificate
- From **21/09/2011 to 23/09/2011**
Reference: attendance certificate
- PTP science park, Lodi, Italy

Working experiences, Grants, Scholarships and Fellowships

- From **01/09/2022 ongoing** **Researcher position**
National Biodiversity Future Center, 90133 Palermo, Italy
Founded by: Piano Nazionale di Ripresa e Resilienza
Spoke 4 – Ecosystem function, service and solution
Activity 5 - Conceptual framework and methodological tools for Nature Based Solutions (NBS) and restoration ecology
- From **30/09/2019 ongoing** **Researcher permanent position**
CNR-Institute of Research on Terrestrial Ecosystems Porano (TR), Italy
Research sector: stable isotope analysis in plant physiology, ecophysiology and agro-food traceability; biochemical analysis of organic matrices through spectroscopic techniques; application of multivariate statistical models for the analysis of complex data.
- From **04/01/2019 to 29/09/2019** **Postdoctoral contract** (PROT.N. 3580; 28/12/2018)
CNR-Institute of Research on Terrestrial Ecosystems Porano (TR), Italy
Founded by: project DTA. AD008.001 - RITMARE -
Supervisor: Dr. Chiara Baldacchini
- From **04/07/2018 to 03/01/2019** **Postdoctoral contract** (PROT.N. 1852; 03/07/2018)
CNR-Institute of Research on Terrestrial Ecosystems Porano (TR), Italy
Research sector: “Adaptation of agroforestry systems to anthropogenic pollution”
Founded by: project DTA.AD005.125-ITALGAS
Supervisor: Dr. Enrico Brugnoli
- From **04/01/2018 to 03/07/2018** **Postdoctoral contract** (PROT.N. 4780; 21/12/2017)
CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy
Research sector: “Stable isotope analyses on eco-forestry samples”
Founded by: project NEXTDATA
Supervisor: Dr. Carlo Calfapietra.
- From **04/07/2017 to 03/01/2018** **Postdoctoral contract** (PROT.N. 0002761; 05/07/2017)
CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy
Research sector: “Stable isotope analyses on eco-forestry samples”
Founded by: project NEXTDATA
Supervisor: Dr. Carlo Calfapietra.
- From **03/01/2017 to 03/07/2017** **Postdoctoral contract** (PROT.N. 0000003; 02/01/2017)
Research sector: “Stable isotope analyses on eco-forestry samples”
Founded by: project PALMO

CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy

Supervisor: Dr. Carlo Calfapietra

**From 04/08/2015
to 02/01/2017**

CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy

Postdoctoral contract (PROT.N. 0002107; 30/07/2015)
Research sector: "Stable isotope analyses on food samples"
Founded by: project CISIA
Supervisor: Dr. Marco Lauteri

**From 16/07/2016
to 16/12/2016**

**From 21/06/2015
to 12/07/2015**

Faculty of Science
School of Environmental Sciences
University of East Anglia (UK)

Mandatory maternity leave (PROT.N. 0001704; 11/07/2016)

Short Term Mobility program fellowship
(PROT. N.0001295)

Project title: "Inter-varietal variability in compound-specific stable isotope profiles of monovarietal extra virgin olive oils from a comparative field in Central Italy"
Financing organization: CNR
Supervisors: Dr. Enrico Brugnoli & Dr. Simon Kelly.
Reference: Confirmation of short-term researcher mobility visit to the School of Environmental Sciences, UEA

**From 04/08/2014
to 03/08/2015**

CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy

Postdoctoral contract (PROT.N. 0002150; 01/08/2014)
Research sector: "Italian extra virgin olive oil traceability"
Founded by: project CISIA
Supervisor: Dr. Marco Lauteri

**From 10/04/2014
To 09/07/2014**

CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy

Contract of employment, based on independent and occasional work (PROT N.0935; 09/04/2014)

Research title: "Isotopic methods for geographical traceability and certification of origin of agricultural food".
Supervisor. Dr. Enrico Brugnoli

**From 25/08/2011
To 31/03/2014**

CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy

Providing association with research assignment at CNR (PROT. N. 0001479; 25/08/2011)

Field of Research: TA.P02.002 "Global change and terrestrial vegetation - atmosphere-biosphere exchanges "
Supervisor: Dr. Enrico Brugnoli.

**From 01/03/2011
To 28/02/2014**

Department for Innovation in Biological, Agro-Food, and Forest Systems, University of Tuscia, Viterbo, Italy

Scholarship for the XXVI cycle of PhD in "Food Biotechnology", co-founded by IBAF-CNR (PROT.N. 1359; 03/08/2011)

Research title "Authentication and traceability of extra-virgin olive oil by means of stable isotopes applications"
Supervisors: Dr. Marco Esti & Dr. Enrico Brugnoli

**From 15/01/2011
to 14/03/2011**

CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy

Contract of employment, based on independent and occasional work (PROT N.0000465; 04/03/2011)

Research title: "Analysis of truffles and forest plants sample".
Supervisor. Dr. Enrico Brugnoli

**From 15/06/2009
to 14/01/2011**

CNR-Institute of Agro-environmental and Forest Biology, Porano (TR), Italy

Young researcher grant, founded by POR FSE 2007-2013 Assi II e IV, Obiettivo specifico "I", Risorse CIPE (PROT N. 806 del 15/06/2009)

Research title: "Stable isotopes analysis in food bioelements, in particular the study of Italian extra-virgin olive oil"
Supervisor: Dr. Enrico Brugnoli.

**From 15/04/2010
to 15/09/2010**

Mandatory maternity leave (PROT.N.0001165; 23/07/2010)

University Teaching

**From March 2019
To May 2019**

Department of Economics, Engineering, Society and Enterprise
Viterbo (VT), Italy

Collaboration contract for the course of "Physics Laboratory and Statistics" for the Engineering Degree. (PROT.N. 1116; 18/02/19)

From October 2018 To January 2019 Collaboration contract for the course of “Physics Laboratory and Statistics” for the Biological Science Degree. (PROT.N. 686; 01/10/2018)
Department of Ecological and Biological science
Tuscia University
Viterbo (VT), Italy

From September 2017 To January 2018 Collaboration contract for the course of “Physics Laboratory and Statistics” for the Biological Science Degree. (PROT.N. 683; 25/09/2017)
Department of Ecological and Biological science
Tuscia University
Viterbo (VT), Italy

Supervision of research grants and thesis

From 15/01/2021 to 14/01/2022 Negar Rezaei Sangsaraki, Research Grant
Title: “Adaptation to climate change and resilience actions in the South west inner areas of Orvieto”
Supervisor: Dr. Silvia Portarena
Reference: Assignment document; date 09.01.2021.
CNR-Institute of Research on Terrestrial Ecosystems
Porano (TR), Italy

2015/2016 C. Agostinelli, Master Thesis in Food Economy and Culture
Title: “Tracciabilità e rintracciabilità dell’olio extravergine di olive DOP “Umbria” sottozona” Colli Orvietani”
Co-supervisors: Prof. D. Farinelli, Dr. Silvia portarena
Reference: Final Thesis; date 25.10.2016.
Department of Agricultural, Food and Environmental Sciences of the University of Perugia, Italy

Other teaching activities

06/09/2021 Lecturer of Environmental statistics at Summer School “Environmental Science
13/09/2021 Education for Sustainable Human Health”, organized by Erasmus+ Capacity Building Menvipro project

Organization of conferences

13/04/2023 Piante, Pianeta e Futuro. Conference for high school students organized as part of the celebrations for the Centenary of the CNR. Orvieto. Palazzo del Popolo.
<https://centenario.cnr.it/evento/piante-pianeta-futuro/>

Institutional responsibilities

22/06/2023 Member of the Committee of research grant (BANDO N. IRET 01-2023-TR) at IRET-CNR
07/12/2022 Member of the Committee of research grant (BANDO N. IRET 08-2022-TR) at IRET-CNR
07/01/2021 Member of the Committee of research grant (BANDO N. IRET 017-2020) at IRET-CNR
09/10/2020 Member of the Italian hazelnut supply chain-working group – Piano del settore Corilicolo 2022/2025, 2. Gruppo di lavoro 2 "Tecniche di produzione, ricerca, difesa e ambiente", Sottogruppo 2.2 "Tecniche culturali, miglioramento genetico e cambiamenti climatici"
29/06/2018-29/06/2019 Scientific manager to the convention between Department of Agricultural and Environmental Sciences of Perugia University and Institute of Agro-environmental and Forest Biology for the research on olive and hazel trees (PROT. N. 1812; 29/06/2018).

Awards & Miscellanea

May 2018 **Award for the best 10 young researchers**
“2nd IRMS day”, conference
Rewarded by the Division of Mass Spectrometry of the Italian Chemical Society.
Reference: document of declaration

July 2017 **Research grant under the project “Por3O - Portuguese Olive Oil Omics for traceability and authenticity”**
3rd place to the final ranking of the candidates for a post-doc position in the framework of the project Por3O – Portuguese Olive Oil Omics.
Dep. Fitotecnia, Escola de Ciências e Tecnologia, Instituto de Ciências Agrárias e Ambientais Mediterranicas (ICAAM), Universidade de Evora, Portugal
Reference: document of declaration

March 2016 **Award for the best 5 young researchers**

“1st IRMS day”, conference
Rewarded by the Division of Mass Spectrometry of the Italian Chemical Society.
Reference: document of declaration

Scientific projects & Research campaigns

- From 05/11/2020 to 31/09/2023** **Project: “NBFC”**
Financing organization: Piano Nazionale di Ripresa e Resilienza
Budget: 614.316 €
Description: National Biodiversity Future Center – Spoke 4 – Ecosystem function, service and solution – Activity 5 - Conceptual framework and methodological tools for Nature Based Solutions (NBS) and restoration ecology
Role: participant – scientific collaborator
- From 05/11/2020 to 31/09/2023** **Project: “ACARO”**
Financing organization: PSR, Umbria region.
Budget: 32.905 Euro
Description: Adattamento ai cambiamenti climatici ed azioni di resilienza nelle Aree Interne del sud-ovest dell’ORVIETANO.
Role: scientific manager of IRET partner.
Reference: PROT.N. 3791; 05/11/2020
- From 30/06/2021 to 31/12/2022** **Project: “OLEAS”**
Financing organization: Fondazione Cassa di Risparmio di Orvieto
Budget: 2.000 Euro
Description: Sustainable strategies for the management of the olive fly.
Role: coordinator.
Reference: PROT.N. 0623; 14/02/2020
- From 17/01/2020 to 30/06/2021** **Project: “OLIVOC”**
Financing organization: Fondazione Cassa di Risparmio di Orvieto
Budget: 5.000 Euro
Description: Strategies for the management of the olive fly by VOC analysis.
Role: coordinator.
Reference: PROT.N. 0623; 14/02/2020
- From 01/09/2021 to 01/09/2023** **Project: “DivAirCity”**
Financing organization: European Union, Horizon 2020 program
Budget: 533.000 Euro
Description: The power of diversity and social inclusion as a mean for reducing air pollution and achieving green urban nexus in climate neutral cities
Role: participant – scientific collaborator.
- From 15/11/2018 to 14/11/2022** **Project: “MENVIPRO”**
Financing organization: European Union, Erasmus program + Capacity Building in Higher Education
Budget: 89.455 Euro
Description: Modernization of environment protection studies programs for Armenia and Georgia.
Role: participant – summer school lecture, project dissemination and quality control.
- From 04/07/2017 to 03/07/2018** **Project: “NEXTDATA”**
Financing organization: CNR-DTA
Budget: 174.000 Euro
Description: Carbon and water fluxes in mountain forest and grassland ecosystems from leaf to ecosystem level: effects of climate variability and management
Role: participant-Stable isotope analyses on organic matters from mountain eco-systems
Reference: PROT.N. 4780; 21/12/2017
- From 03/01/2017 to 03/07/2017** **Project: “Piani di adattamento locale in ambito Montano Mediterraneo - PALMO”**
Financing organization: CNR-DTA
Budget: 450.000 Euro
Description: – Adaptation to climate change in Italian mountain areas, between fragility and development opportunities
Role: Participant-Stable isotope analyses on eco-forestry samples
Reference: PROT.N. 0003; 02/01/2017

- From 01/08/2011 To 31/07/2014** **Project: “Conoscenze Integrate per Sostenibilità ed Innovazione del Made in Italy Agroalimentare”**
Financing organization: CNR-DTA
Budget: 8.000.000 Euro, budget operative unit – 345.000 Euro
Description: The main aims of CISIA project were:
- Advanced diagnostics for food safety quality and traceability;
- Valorization of genetic resources;
- Innovation for improving agricultural food production and sustainability;
- product/process innovation for the food industry and for the ratio of food and health
Role: participant in the research conduction, particularly in geographic tracing of the olive oils by means of both stable isotope and polyphenol approach. Gathering the samples from different geographic areas of Italy, samples preparation and analyses of ¹³C, ¹⁸O of the olive oil samples. Isotope and polyphenol data elaboration and organization of the scientific reports.
Reference: PROT.N. 2150; 01/08/2014
- From March 2013 To November 2015** **Project: “Qualità delle produzioni tipiche campane ed il suo territorio: approcci innovativi ed integrati per rafforzare la competitività del sistema agroalimentare - QUARC”**
Financing organization: Campania region, Italy
Budget: 4.379.548 Euro, budget operative unit – 99.583 Euro
Description: The aim of this project was to improve the sustainability of agricultural food production improving the quality (also extended to food safety) and its genetic and environmental traceability.
Role: participant in the research conduction, particularly in geographic and varietal tracing of the olive oils by means of stable isotope approach.
Reference: PROT.N.1809; 29/06/2018
- From November 2009 to October 2013** **Project: “Ecologia e produttività dei tartufi: effetti della gestione forestale”**
Financing organization: Umbria region, Italy
Role: participant in the research, particularly, sampling of truffles, plant leaves, xylematic water and stable isotope measurements.
Budget: 75.000 Euro
Description: The project is related to the studying of the interactions between the host trees and truffles and determination of the ambient conditions that favor the fungi growth. The study is performed on different levels: from the laboratory measurements on potted plants in environment to in situ measurements under natural plant growing conditions.
Reference: PROT N.0465; 04/03/2011
- From 2011 To 2014** **Project: “- Sicurezza, sostenibilità e competitività delle produzioni agroalimentari della campania (C.A.R.I.N.A.)”**
Financing organization: POR Campania FSE 2007-2013
Budget: 4590.901,75 Euro
Description: creation of models for the traceability and certification of the origin of agro-food products and valorization of Campania agricultural production
Role: participant in the research conduction, including the coordination of different partners, sampling collection and analyses. Data elaboration and final drafting of the scientific report.
Reference: PROT.N.1821; 02/07/2018
- From 27/07/2010 to 24/07/2012** **Project: “Integrated project to enhance the oil and protect the landscape of the Sabine”**
Financing organization: PSR Lazio 2007-2013, MIS 124 Progetto integrato di filiera RL03 Cod. Agea 8475903791 (Consorzio Sabino Produttori)
Budget:2.564.310
Description: development of olive production through the modernization of olive and olive farms transformation of the territory.
Role: participant in the research conduction, including the coordination of different partners, sampling collection and analyses. Data elaboration and final drafting of the scientific report.
Reference: PROT.N.1810; 29/06/2018
- From June 2009 to March 2012** **Project: “Tracciabilità, certificazione e tutela della qualità dell’olio di oliva e delle olive da tavola”**
Financing organization: Italian consortium of olive growers, UNAPROL
Budget: 300.000 Euro, budget operative unit – 150.000 Euro
Description: The aim of this project was to elucidate the influence of environmental and geographical factors on the stable isotopes (C and O) to ascertain the geographical origin of virgin olive oil. With this objective in mind, isotope measurements were extended to a

large number of Italian olive oil samples, originating from regions with different climatic conditions along a north–south transect.

Role: Scientific and technical manager. Coordination between CNR and UNAPROL. Gathering the samples from different geographic areas of Italy, samples preparation and analyses of ^{13}C , ^{18}O of the olive oil samples. Data elaboration and organization of the scientific reports.

Reference: PROT.N. 2248; 27/08/2018

Publications in peer-reviewed journals

- **Portarena S.**, Gavrichkova O., Brugnoli E., Battistelli A., Proietti S., Moscatello S., Famiani F., Zadra C., Tombesi S., Farinelli D. (2023) Grafted hazelnut: a sustainable agricultural practice to face summer stressful conditions. *Acta Horticulturae*, accepted.
- Farinelli D., Bernacchia C., Brugnoli E., **Portarena S.**, Zadra C. (2023). Influence of pollinizers on fruit quality characteristics in hazelnut cultivar “Tonda Francescana®”. *Acta Horticulturae*, accepted.
- Vinci, A., Di Lena, B., **Portarena, S.**, & Farinelli, D. (2023). Trend Analysis of Different Climate Parameters and Watering Requirements for Hazelnut in Central Italy Related to Climate Change. *Horticulturae*, 9(5), 593.
- Vinci A., Traini C., **Portarena S.** Farinelli D. Assessment of the mid - season crop coefficient for the evaluation of water demand of young, grafted hazelnut trees in a high-density orchards. *Water*, 15 (9), 1683.
- Cinosi N., **Portarena S.***, Almadi L., Berrettini A., Torres M., Pierantozzi P., Villa, F., Galletti A., Famiani F. & Farinelli D. (2023). Use of Portable Devices and an Innovative and Non-Destructive Index for In-Field Monitoring of Olive Fruit Ripeness. *Agriculture*, 13(1), 194.
- **Portarena S.***, Anselmi C., Leonardi L., Proietti S., Bizzarri A. R., Brugnoli E., & Baldacchini C. (2023). Lutein/ β -Carotene Ratio in Extra Virgin Olive Oil: An Easy and Rapid Quantification Method by Raman Spectroscopy. *Food chemistry*. 134748.
- Anselmi C., **Portarena S.**, Baldacchini C., Proietti S., Leonardi L., & Brugnoli E. (2022). One Drop Only. Easy and rapid Raman evaluation of β -carotene in olive oil and its relevance as an index of olive fly attack. *Food Chemistry*, 133340.
- **Portarena S.***, Gavrichkova O., Brugnoli E., Battistelli A., Proietti S., Moscatello S., Famiani F., Tombesi S., Zadra C., Farinelli D. (2022). Carbon allocation strategies and water uptake in young grafted and own-rooted hazelnut (*Corylus avellana* L.) Cultivars. *Tree Physiology*. 42(5), 939-957
- Farinelli D., **Portarena S.***, da Silva D. F., Traini C., da Silva G. M., da Silva E. C., ... & Villa, F. (2021). Variability of Fruit Quality among 103 Acerola (*Malpighia emarginata* DC) Phenotypes from the Subtropical Region of Brazil. *Agriculture*, 11(11), 1078.
- **Portarena S***, Leonardi L., Scartazza A., Lauteri M., Baldacchini C., Farinelli, D., Famiani F., Cioffi M., Brugnoli E. (2019). Combining analysis of fatty acid composition and $\delta^{13}\text{C}$ in extra-virgin olive oils as affected by harvest period and cultivar: Possible use in traceability studies. *Food Control*, 105, 151-158.
- **Portarena S***, Anselmi C., Zadra C., Farinelli D., Famiani F., Baldacchini C., Brugnoli E. (2019). Cultivar discrimination, fatty acid profile and carotenoid characterization of monovarietal olive oils by Raman spectroscopy at a single glance. *Food Control*, 96, 137–145.
- **Portarena S.***, Baldacchini C., Brugnoli E. (2017). Geographical discrimination of extra-virgin olive oils from the Italian coasts by combining stable isotope data and carotenoid content within a multivariate analysis. *Food Chemistry*, 215, 1-6.
- Chiocchini, F., **Portarena S.**, Cioffi M., Brugnoli E., Lauteri M. (2016). Isoscapes of carbon and oxygen stable isotope compositions in tracing authenticity and geographical origin of Italian extra-virgin olive oils. *Food Chemistry*, 202, 291-301.
- **Portarena S***, Farinelli D., Lauteri M., Famiani F., Esti M., Brugnoli E. (2015). Stable isotope and fatty acid compositions of monovarietal olive oils: implications of ripening stage and climate effects as determinants in traceability studies. *Food Control*, 57, 129-135.
- **Portarena S***, Gavrichkova O., Lauteri M., Brugnoli E. (2014). Authentication and traceability of Italian extra-virgin olive oil by means of stable isotopes

applications. Food Chemistry, 164,12-16.

- Gavrichkova O., Proietti S., Moscatello S., **Portarena S.**, Battistelli A., Matteucci G., Brugnoli E. (2011) Short-term natural $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ variations in pools and fluxes in a beech forest: the transfer of isotopic signal from recent photosynthates to soil respired CO_2 . Biogeosciences, 8, 2833-2846.
- Calzolari G., Chiari M., Nava S., Lucarelli F., **Portarena S.** (2010). Proton induced γ -ray emission yields for the analysis of light elements in aerosol samples in an external beam set-up. Nuclear Instruments and Methods in Physics Research B. 268, 1540-1545.

Book chapters

- **Portarena S.** & Brugnoli E. (2016). Traceability and authenticity of dietary lipids. In: Sanders, T. (Ed.), Functional Dietary Lipids, Food Formulation, Consumer Issues and Innovation for Health, Woodhead Publishing, pp. 223-247. (ISBN: 978-1-78242-247-1).

Editorial activity

- Guest editor for the Special Issue "New Challenge of Horticultural Crops under Climate Change". Journal: Horticulturae (ISSN 2311-7524); IF: 2.923.
- Guest editor for the Special Issue "Advances in Chromatographic and Spectral Methods Combined with Chemometrics in Food Analysis". Journal: Foods (ISSN 2304-8158); IF: 5.561.

Occasional reviewer

- Food Chemistry
- African Journal of Food science

Extended abstracts, conference proceedings without peer review practice

- **Portarena S.**, Farinelli D., Cinosi D., Brugnoli E., Traini C., Famiani F. (2023). Tree-ring isotopic study reveals a different degree of tolerance to summer stress conditions in olive tree cultivars. IX International Olive Symposium 2023. Book of abstract.
- **Portarena S.**, Farinelli D., Cinosi D., Traini C., Famiani F., Rezaie N., Brugnoli E. (2023). Dendroecological analyses for olive cultivar characterization. International conference. TRACE 2023. Book of abstract.
- **Portarena S.**, Gavrichkova O., Brugnoli E., Battistelli A., Proietti S., Moscatello S., Famiani F., Tombesi S., Zadra C., Farinelli D. (2022). Grafting: a sustainable agricultural practice to face climatic stressful conditions in hazelnut (*Corylus avellana* L.). 10th International Congress on Hazelnut. Book of abstract.
- **Portarena S.**, Gavrichkova O., Brugnoli E., Battistelli A., Proietti S., Moscatello S., Famiani F., Zadra C., Farinelli D. (2022). Carbon allocation strategies and water uptake in young grafted and own-rooted hazelnut (*Corylus avellana* L.) cultivars. XIII Congresso Nazionale SISEF. Book of abstract.
- **Portarena S.**, Gavrichkova O., Brugnoli E., Battistelli A., Proietti S., Moscatello S., Famiani F., Zadra C., Farinelli D. (2022). Grafting: a sustainable agricultural tool to face climatic stressful conditions in hazelnut (*Corylus avellana* L.). 6th European Agroforestry conference - EURAF 2022. Book of abstract. ISBN 9788897666189.
- **Portarena S.** Leonardi L, Scartazza A, Lauteri M, Baldacchini C, Brugnoli E. (2018). Seasonal climatic influence on carbon stable isotope compositions of fatty acids in monovarietal extra-virgin olive oils. The 2nd isotope ratio MS day. June 27-29, 2018 Messina University. Book of abstracts.
- **Portarena S.**, Leonardi L., Pedentchouk N., Lauteri M., Augusti A., Kelly S., Mihailova A., Brugnoli E. (2016). Olive ripening and cultivar effects on carbon stable isotope compositions of n-alkanes and fatty acids in extra-virgin olive oils. The 1st isotope ratio MS day. May 9-11, 2016 Fondazione Edmund Mach. Book of abstracts. ISBN 978-88-7843-046-4.
- Ciolfi M. Chiocchini F. Russo G. Gavrichkova O. Pisanelli A. **Portarena S.** Scartazza A. Brugnoli E. Lauteri M. (2016). Spatial- and spatio-temporal analysis of stable isotopes ratios in biogeochemical processes. The 1st isotope ratio MS day. May 9-11, 2016 Fondazione Edmund Mach. Book of abstracts. ISBN 978-88-7843-046-4.
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Data
18/09/2023

Firma

A handwritten signature in black ink, appearing to be 'S. Perini', written in a cursive style.