

Dr. Silvia Portarena

Curriculum vitae

Personal information

E-mail **silvia.portarena@cnr.it**
Nationality Italian
Date of birth October 31st 1983

Education

**From 15/03/2011
to 14/02/2013**

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

PhD in “Food Biotechnology “

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**

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

Master degree in “Physics”. Passing grade: 110/110

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**

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

Bachelor degree in “Physics”. Passing grade: 110/110 with honours.

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

Supervisor: Dr. Yogendra Narain Srivastava

Trainings

**From 25/05/2017
to 26/05/2017**

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

“Espressione dei risultati, taratura, standard interni e internazionali, accreditamento e metodologie” - workshop

Reference: attendance certificate

**From 10/11/2015
to 11/11/2015**

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

“1st MS Lipidomic school”

Reference: attendance certificate

**From 26/01/2015
to 30/01/2015**

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

“Exploring the complexity - Statistical methods for monitoring and analysis of agricultural and forestry systems” - workshop

Reference: attendance certificate

**From 16/10/2014
to 17/10/2014**

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

“Agroforestry Systems – a Modern Response to Global Challenges of Climate Change, Food Production, Bioenergy Needs, and Environmental Restoration”- conference

Reference: attendance certificate

17/06/2014

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

“3D Raman Imaging and Correlative Scanning Microscopy Techniques”- Practical-theoretical workshop:

Reference: attendance certificate

19/11/2013

Thermo Fisher Scientific, Torino, Italy

“Food safety and defence of authenticity of national productions” - seminar

Reference: attendance certificate

**From 25/09/2013
to 27/09/2013**

“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

**From 19/09/2012
to 21/09/2012**

Department of Agri-Food Science and
Technologies
University of Bologna, Cesena (FC),
Italy

**From 11/04/2012
To 13/04/2012**

Fondazione Edmund Mach,
San Michele all'Adige (TN), Italy

**From 21/09/2011
to 23/09/2011**

PTP science park, Lodi, Italy

Reference: attendance certificate

**“17th Workshop on the Developments in the Italian PhD Research on Food Science
Technology and Biotechnology.”**

Reference: attendance certificate

“Giornate di Studio e Incontro sulla Spettrometria”

Reference: attendance certificate

**“16th Workshop on the Developments in the Italian PhD Research on Food Science
Technology and Biotechnology”**

Reference: attendance certificate

Working experiences, Grants, Scholarships and Fellowships

**From 29/09/2019
to present**

CNR-Institute of Research on
Terrestrial Ecosystems
Porano (TR), Italy

**From 04/01/2019
to 03/05/2019**

CNR-Institute of Research on
Terrestrial Ecosystems
Porano (TR), Italy

**From 04/07/2018
to 03/01/2019**

CNR-Institute of Research on
Terrestrial Ecosystems
Porano (TR), Italy

**From 29/06/2018
To 29/06/2019**

CNR-Institute of Research on
Terrestrial Ecosystems
Porano (TR), Italy

**From 04/01/2018
to 03/07/2018**

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

**From 04/07/2017
to 03/01/2018**

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

**From 03/01/2017
to 03/07/2017**

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

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

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

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

Researcher permanent position

Research sector: stable isotope analysis in plant physiology, ecophysiology and agro-food traceability; biochemical analysis of organic matrices through Raman spectroscopy; application of multivariate statistical models for the analysis of complex data.

Postdoctoral contract (PROT.N. 3580; 28/12/2018)

Founded by: project DTA. AD008.001 - RITMARE -

Supervisor: Dr. Chiara Baldacchini

Postdoctoral contract (PROT.N. 1852; 03/07/2018)

Research sector: “Adaptation of agroforestry systems to anthropogenic pollution”

Founded by: project DTA.AD005.125-ITALGAS

Supervisor: Dr. Enrico Brugnoli

Collaboration as 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 plants (PROT. N. 1812; 29/06/2018).

Postdoctoral contract (PROT.N. 4780; 21/12/2017)

Research sector: “Stable isotope analyses on eco-forestry samples”

Founded by: project NEXTDATA

Supervisor: Dr. Carlo Calfapietra.

Postdoctoral contract (PROT.N. 0002761; 05/07/2017)

Research sector: “Stable isotope analyses on eco-forestry samples”

Founded by: project NEXTDATA

Supervisor: Dr. Carlo Calfapietra.

Postdoctoral contract (PROT.N. 0000003; 02/01/2017)

Research sector: “Stable isotope analyses on eco-forestry samples”

Founded by: project PALMO

Supervisor: Dr. Carlo Calfapietra

Postdoctoral contract (PROT.N. 0002107; 30/07/2015)

Research sector: “Stable isotope analyses on food samples”

Founded by: project CISIA

Supervisor: Dr. Marco Lauteri

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

From 21/06/2015 to 12/07/2015 Faculty of Science School of Environmental Sciences University of East Anglia (UK)	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 15/09/2009) 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 Department of Ecological and Biological science Tuscia University Viterbo (VT), Italy	Collaboration contract for the course of "Physics Laboratory and Statistics" for the Biological Science Degree. (PROT.N. 686; 01/10/2018)
From October 2017 To January 2018 Department of Ecological and Biological science Tuscia University Viterbo (VT), Italy	Collaboration contract for the course of "Physics Laboratory and Statistics" for the Biological Science Degree. (PROT.N. 683; 25/09/2017)

Supervision of research grants and thesis

**From 15/01/2021
to 14/01/2022**

CNR-Institute of Research on
Terrestrial Ecosystems
Porano (TR), Italy

Negar Rezaei Sangsarakhi, 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.

2015/2016

Department of Agricultural, Food and
Environmental Sciences of the
University of Perugia, Italy

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.

Institutional responsibilities

07/01/2021 Member of the Committee of research grant (BANDO N. IRET 017-2020) at IRET-CNR

09/10/2020 Representative of IRET-CNR of the hazelnut supply chain working group.

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 30/09/2021**

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 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: scientific manager.
Reference: PROT.N. 0623; 14/02/2020

**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

	<p>Description: – Adaptation to climate change in Italian mountain areas, between fragility and development opportunities</p> <p>Role: Participant-Stable isotope analyses on eco-forestry samples</p> <p>Reference: PROT.N. 0003; 02/01/2017</p>
From 01/08/2011 To 31/07/2014	<p>Project: “Conoscenze Integrate per Sostenibilità ed Innovazione del Made in Italy Agroalimentare”</p> <p>Financing organization: CNR-DTA</p> <p>Budget: 8.000.000 Euro, budget operative unit – 345.000 Euro</p> <p>Description: The main aims of CISIA project were:</p> <ul style="list-style-type: none"> - 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 <p>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 ^{13}C, ^{18}O of the olive oil samples. Isotope and polyphenol data elaboration and organization of the scientific reports.</p> <p>Reference: PROT.N. 2150; 01/08/2014</p>
From March 2013 To November 2015	<p>Project: “Qualità delle produzioni tipiche campane ed il suo territorio: approcci innovativi ed integrati per rafforzare la competitività del sistema agroalimentare - QUARC”</p> <p>Financing organization: Campania region, Italy</p> <p>Budget: 4.379.548 Euro, budget operative unit – 99.583 Euro</p> <p>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.</p> <p>Role: participant in the research conduction, particularly in geographic and varietal tracing of the olive oils by means of stable isotope approach.</p> <p>Reference: PROT.N.1809; 29/06/2018</p>
From November 2009 to October 2013	<p>Project: “Ecologia e produttività dei tartufi: effetti della gestione forestale”</p> <p>Financing organization: Umbria region, Italy</p> <p>Role: participant in the research, particularly, sampling of truffles, plant leaves, xylematic water and stable isotope measurements.</p> <p>Budget: 75.000 Euro</p> <p>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.</p> <p>Reference: PROT N.0465; 04/03/2011</p>
From 2011 To 2014	<p>Project: “- Sicurezza, sostenibilità e competitività delle produzioni agroalimentari della campania (C.A.R.I.N.A.)”</p> <p>Financing organization: POR Campania FSE 2007-2013</p> <p>Budget: 4590.901,75 Euro</p> <p>Description: creation of models for the traceability and certification of the origin of agro-food products and valorization of Campania agricultural production</p> <p>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.</p> <p>Reference: PROT.N.1821; 02/07/2018</p>
From 27/07/2010 to 24/07/2012	<p>Project: “Integrated project to enhance the oil and protect the landscape of the Sabine”</p> <p>Financing organization: PSR Lazio 2007-2013, MIS 124 Progetto integrato di filiera RL03 Cod. Agea 8475903791 (Consorzio Sabino Produttori)</p> <p>Budget: 2.564.310</p> <p>Description: development of olive production through the modernization of olive and olive farms transformation of the territory.</p> <p>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.</p> <p>Reference: PROT.N.1810; 29/06/2018</p>
From June 2009 to March 2012	<p>Project: “Tracciabilità, certificazione e tutela della qualità dell’olio di oliva e delle olive da tavola”</p>

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: Protocol n.2248, date 27/08/2018

Publications in peer-reviewed journals

- **Portarena, S.**, Leonardi, L., Scartazza, A., Lauteri, M., Baldacchini, C., Farinelli, D., Famiani, F., Ciolfi, 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. IF: 3.667
- **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. IF: 3.667
- **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. IF: 4.946
- Chiocchini, F., **Portarena, S.**, Ciolfi, 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. IF: 4.946
- **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. IF 3.667
- **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. IF: 4.946
- 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. IF 3.441
- 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. IF 1.323

Book chapters

- **Portarena, S.** & Brugnoli, E. (2015). 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).

Occasional reviewer

- Food Chemistry
- African Journal of Food science

Extended abstracts, conference proceedings without peer review practice

- **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).

- M. Ciolfi, F. Chiocchini, G. Russo, O. Gravichkova, A. Pisanelli, **S. Portarena**, A. Scartazza, E. Brugnoli, M. Lauteri. (2016). Spatial- and spatio-temporal analysis of stable isotopes ratios in biogeochemical processes. The 1 st isotope ratio MS day. May 9-11, 2016 Fondazione Edmund Mach. Book of abstracts. (ISBN 978-88-7843-046-4).
- O. Gavrichkova, M. Lauteri, M. Ciolfi, F. Chiocchini, P. Paris, A. Pisanelli, **S. Portarena**, E. Brugnoli (2016). Changes in host-mycorrhiza relationships revealed by stable isotopes after naturally-induced thinning of the stand: case study on *Tuber aestivum*. EGU 2016, 17-22 April, Vienna, Austria. Book of abstracts. (ISBN 1029-7006)
- Lauteri M., **Portarena S.**, Chiocchini F., Ciolfi M., Russo G., Brugnoli E. Phenotyping the plant x environment interaction on the imprinting of stable isotope composition in agro-food products. 4th MS-food Day, University of Foggia, 7-9 October 2015, (ISBN 978-88-909328-6-1)
- **Portarena S.** Environmental, phenological and genotypic effects on carbon and oxygen isotopic fingerprinting of extra-virgin olive oil. 18th Workshop on the Developments in the Italian PhD Research on Food Science Technology and Biotechnology. Conegliano (UD Italy), 25-27 September, 2013. Book of abstracts. (ISBN 978-88-97385-68-4).
- Brugnoli E., **Portarena S.**, Gavrichkova O. (2010) Origine Geografica e Rintracciabilità
- A. Augusti, **S. Portarena**, A. Paoletti, D. Farinelli, A. Rosati, F. Famiani, M. Lauteri. (2016). Effect of fruit removal on photosynthetic characteristics and carbon isotope composition in olive leaves. The 1 st isotope ratio MS day. May 9-11, 2016 Fondazione Edmund Mach. Book of abstracts. (ISBN 978-88-7843-046-4).
- F. Chiocchini, **S. Portarena**, M. Ciolfi, E. Brugnoli, M. Lauteri (2016). Carbon and oxygen isoscapes for geographical traceability of Italian extra virgin olive oils. The 1 st isotope ratio MS day. May 9-11, 2016 Fondazione Edmund Mach. Book of abstracts. (ISBN 978-88-7843-046-4).
- M. Ciolfi, F. Chiocchini, O. Gavrichkova, A. Pisanelli, **S. Portarena**, A. Scartazza, E. Brugnoli, M. Lauteri (2016). Timescape: a simple space-time interpolation geostatistical Algorithm EGU 2016, 17-22 April, Vienna, Austria. Book of abstract. (ISBN 1029-7006).
- Del Monaco G., Marcolongo L., Lauteri M., **Portarena S.**, La Cara F. (2014). The anti-oxidant and anti-inflammatory agent oleocanthal: a study on virgin olive oils from several Italian regions. 8th World Congress on polyphenols applications, June 4-6, 2014. Lisbon, Portugal. Book of abstract. (ISBN 978-2-35609-073-7).
- **Portarena S.** (2012). Authentication and traceability of Italian extra virgin olive oils by means of stable isotopes techniques. 17th Workshop on the Developments in the Italian PhD Research on Food Science Technology and Biotechnology. Cesena, 19-21 September, Book of abstract. (ISBN 978-886541-224-4).
- **Portarena S.**, Gavrichkova O., Lauteri M., Brugnoli E. (2013). Authentication and traceability of Italian extra-virgin olive oil by means of stable isotopes applications. XVI Simposio Científico-Técnico de EXPOLIVA, li Jaen, 8-11 May, 2013, Book of abstract. (ISBN. 978-84-938900-1-8).
- **Portarena S.** Authentication and traceability of Italian extra virgin olive oil applying stable isotopes. 16th Workshop on the Developments in the Italian PhD Research on Food Science Technology and Biotechnology. Lodi, 21-23 September 2011. Book of abstract. (ISBN 978-88-841-2717-2)

Technical Reports and Manuscripts

- Leonardi L, Mattioni M, Spaccino L, **Portarena S**, Lauteri M. (2016). Sviluppo ed ottimizzazione di una metodica per la purificazione degli acidi grassi dell'olio extravergine di oliva mediante HPLC in reverse phase. CNR Technical Report (N.0002539, 19/10/2016)
- **Portarena S.**; Intra-specific variability in compound-specific stable isotope profiles of monovarietal extra virgin olive oils from a comparative field in Central Italy, University of East Anglia- School of Environmental Sciences-Norwich-United Kingdom, August, 2015 (report of the CNR short term scientific mission)
- Lauteri M, **Portarena S**, Chiocchini F, Ciolfi M, Russo G, Spaccino L, Brugnoli E: Isotopi stabili e tracciabilità dell'origine geografica di matrici biologiche, In collaborazione con l'insegnamento di Qualità e tracciabilità dei prodotti d'origine

animale, modulo Tracciabilità dei prodotti d'origine animale nell'ambito del Corso di Laurea Magistrale in Biotecnologie per la sicurezza e la qualità delle produzioni agrarie Dipartimento DAFNE, Università degli Studi della Toscana, December 2014.

- Lauteri M, Chiocchini F, Ciolfi M, Gravichkova O, Pisanelli A, **Portarena S**, Scrtazza A, Brugnoli E, Spaccino L, De Simoni G, Magnani E: Ecologia e produttività dei tartufi: effetti della gestione forestale, 2.12.2013.
- **Portarena S.**, Gobbino M., Lauteri M., Mannina L., Capitani D., Brugnoli E. (2012) Analisi di Spettrometria di Massa Isotopica e di Risonanza Magnetica Nucleare per la caratterizzazione geografica e la tracciabilità di oli extravergini di oliva italiani. UNAPROL, Sistemi di controllo del rispetto delle norme di autenticità e qualità dell'olio di oliva e delle olive da tavola, pp 11-42.

Oral presentations

- **Portarena, S.** Brugnoli, E. Stable isotopes as markers of oil geographical origin. Olive oil workshop. Olive oil authenticity and control, current situation and new approaches. Food and Nutrition Torribera Campus, University of Barcelona. 29 May, 2019.
- **Portarena, S.** Baldacchini, C. Environmental statistics. Menvipro project school. Co-funded by the Erasmus+Programme of the European Union. IRET-CNR, Porano, 2 April, 2019.
- **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.
- **Portarena, S.** Brugnoli, E. Autenticazione e tracciabilità dell'olio extravergine di oliva: dalla ricerca scientifica all'applicazione. Convegno-dibattito per la valorizzazione dell'olio Dop Umbria. Villa Fabri di Trevi, 16 December, 2017.
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La sottoscritta è a conoscenza della responsabilità penale prevista, dall'art. 76 del D.P.R. 445/2000, per le ipotesi di falsità in atti e dichiarazioni mendaci ivi indicate.

Data

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