

PERSONAL INFORMATION

Lucrezia Lamastra

CURRENT POSITION

Associate Professor in Agrarian Chemistry (AGR-13)

ADDITIONAL RELEVANT POSITIONS

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RESEARCH FIELD (MAX 1000 characters space included)

In the last 10 years I have investigated the link between agriculture, food production, food consumption and the environment, with a specific focus on the impacts associated to water and climate. These studies have been conducted using environmental chemical analysis, environmental modelling and life cycle assessment approaches. I have coordinated sustainability programs, including VIVA, and serve as the coordinator of the SOStain scientific committee. I have numerous publications on the environmental impact assessment of wine production

WORK EXPERIENCE

11/2020–Present

Associate Professor SSD AGR 13)

Department for Sustainable food production- Università Cattolica del Sacro Cuore, Piacenza (Italia)
Research, teaching, project management

11/2017-11/2020

Researcher (L. 240/2010; B) SSD AGR 13

Department for Sustainable food production- Università Cattolica del Sacro Cuore, Piacenza (Italia)
Research, teaching, project management

05/2013-10/2016

Researcher (L. 240/2010; A) SSD CHIM 10

Department for Sustainable food production- Università Cattolica del Sacro Cuore, Piacenza (Italia)
Research, teaching, project management

10/2007–04/2013

Research Fellow

Università Cattolica del Sacro Cuore, Piacenza (Italia)

05/2006-09/2007

Research Fellow

Università degli studi di Torino, Torino

EDUCATION AND TRAINING

2007-2010

PhD Agrarian Chemistry, Agrisystem School (UCSC)

2000-2006

Degree in Pharmaceutical Chemistry (110/110 cum laude)

PERSONAL SKILLS

Mother tongue

Italian

Other languages

English (B2) and French (B1)

ADDITIONAL INFORMATION

Publications and main indexes

46

H-Index: 20

Google Scholar Page: <https://scholar.google.it/citations?hl=it&user=ux9gXywAAAAJ>Scopus: <https://www.scopus.com/authid/detail.uri?authorId=37124403500>Publons: <https://publons.com/researcher/5142145/lucrezia-lamastra/>

Relevant publications for the call

- Lamastra, L., Suci, N.A., Novelli, E., Trevisan, M., 2014. A new approach to assessing the water footprint of wine: An Italian case study. *Sci. Total Environ.* 490, 748-756. <https://doi.org/10.1016/J.SCITOTENV.2014.05.063>
- Bonamente, E., Scrucca, F., Rinaldi, S., Merico, M.C., Asdrubali, F., Lamastra, L., 2016. Environmental impact of an Italian wine bottle: Carbon and water footprint assessment. *Sci. Total Environ.* 560, 274-283. <https://doi.org/10.1016/j.scitotenv.2016.04.026>
- Lamastra, L., Balderacchi, M., Di Guardo, A., Monchiero, M., Trevisan, M., 2016. A novel fuzzy expert system to assess the sustainability of the viticulture at the wine-estate scale. *Sci. Total Environ.* 572, 724-733. <https://doi.org/10.1016/J.SCITOTENV.2016.07.043>
- Miglietta, P.P., Morrone, D., Lamastra, L., 2018. Water footprint and economic water productivity of Italian wines with appellation of origin: Managing sustainability through an integrated approach. *Sci. Total Environ.* 633, 1280-1286. <https://doi.org/10.1016/j.scitotenv.2018.03.270>
- Borsato, E., Giubilato, E., Zabeo, A., Lamastra, L., Criscione, P., Tarolli, P., Marinello, F., Pizzol, L., 2019. Comparison of Water-focused Life Cycle Assessment and Water Footprint Assessment: The case of an Italian wine. *Sci. Total Environ.* 666, 1220-1231. <https://doi.org/10.1016/j.scitotenv.2019.02.331>
- Borsato, E., Zucchini, M., D'Ammaro, D., Giubilato, E., Zabeo, A., Criscione, P., Pizzol, L., Cohen, Y., Tarolli, P., Lamastra, L., Marinello, F., 2020. Use of multiple indicators to compare sustainability performance of organic vs conventional vineyard management. *Sci. Total Environ.* 711, 135081. <https://doi.org/10.1016/J.SCITOTENV.2019.135081>
- Luzzani, G., Lamastra, L., Valentino, F., Capri, E., 2021. Development and implementation of a qualitative framework for the sustainable management of wine companies. *Sci. Total Environ.* 759, 143462. <https://doi.org/10.1016/J.SCITOTENV.2020.143462>
- D'Ammaro, D., Capri, E., Valentino, F., Grillo, S., Fiorini, E., Lamastra, L., 2021a. A multi-criteria approach to evaluate the sustainability performances of wines: the Italian red wine case study. *Sci. Total Environ.* 799. <https://doi.org/10.1016/J.SCITOTENV.2021.149446>
- D'Ammaro, D., Capri, E., Valentino, F., Grillo, S., Fiorini, E., Lamastra, L., 2021b. Benchmarking of carbon footprint data from the Italian wine sector: A comprehensive and extended analysis. *Sci. Total Environ.* 779, 146416. <https://doi.org/10.1016/J.SCITOTENV.2021.146416>
- Rugani, B., Lamastra, L., 2023. A common framework for sustainability indicators in the wine sector: Dream or reality? *Curr. Opin. Environ. Sci. Heal.* 31. <https://doi.org/10.1016/J.COESH.2022.100408>
- Bertorelli, S., Gubelli, S., Bramanti, V., Capri, E., Lamastra, L., 2023. How Does the Wine Sector Perform and Communicate Sustainability? The Italian Case. *Sustain.* 2023, Vol. 15, Page 12700 15, 12700. <https://doi.org/10.3390/SU151712700>
- Frasnetti, E., Ravaglia, P., D'Ammaro, D., Capri, E., Lamastra, L., 2024. Can Italian wines outperform European benchmarks in environmental impact? An examination through the product environmental footprint method. *Sci. Total Environ.* 919, 170630. <https://doi.org/10.1016/J.SCITOTENV.2024.170630>

Presentations at conferences

Over 25 invited and selected lectures on sustainability in the agri-food system in national and international conferences.

Main projects with interest for the call

- 1) Scientific manager and coordinator of the VIVA program (VIVA La Sostenibilità della Vitivinicoltura in Italia), under an agreement between the Ministry of the Environment and the Protection of Land and Sea and the OPERA research center of Università Cattolica del Sacro Cuore (2017-2022)
- 2) TTGG, 'The tough get going', LIFE16 ENV/IT/000225 (2017-2021) “. Responsible of actions (Action leader) B.1 and C.1; Total Budget: 2,148,987 €
- 3) MEDWATERICE: Towards a sustainable water use in Mediterranean rice-based agro-ecosystems. PRIMA Programme (PRIMA-Section-2018; Topic: 1.1.3: Irrigation technologies and practices); Participant; Total Budget: 1.4 million €

4) Participation in the activities of the PNRR project National Center for Agriculture Technologies AGRITECH as Task Co-Leader of Task 6.2.2 (Spoke 6, WP 2) Eco-planning and design of circular systems combining different farm types, food, and feed companies with waste transformation plants. (On going)

5) Participation in the activities of the PNRR ONFOODS project Research and innovation network on Food and Nutrition Sustainability, Safety and Security, as Task Leader of Task 2.1.5 Environmental performances of new products/processes (Spoke 2, WP 1) and WP co-leader of WP 2.2 NEW TECHNOLOGIES FOR FOOD WASTE REDUCTION (Spoke 2, WP 2) (Ongoing).

Honours and awards -

Memberships and managerial activities

Scientific Coordinator of SOSstain Program

Member of the Italian Society for agrarian Chemistry (SICA)

Member of the Interministerial Working Group (MiTE + MIPAAF) on Sustainability (GLIS) from 01/09/2017

ASN 2021/2023 - Attestazione di avvenuto conseguimento dell'Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Prima Fascia nel Settore Concorsuale 07/E1 - CHIMICA AGRARIA, GENETICA AGRARIA E PEDOLOGIA.

