

**Laura Siracusa**

**Born in Catania, January the 6th, 1972 (she/her)**

***Education:***

**1996:** Degree in Chemistry, University of Catania

**1996:** Qualified as Chemist, free lance

**1996-1999:** PhD, Organic Chemistry, University of Catania

***Work experience***

**2000-2001:** Post-doc at the Department of Chemistry, University of Bristol (UK); research area: supramolecular chemistry;

**2002:** research assistant at ICB-CNR, research area: biocatalysis;

**2003-2004:** Sales Specialist analytical at Sigma-Aldrich Co.;

**2004:** research assistant at University of Catania, research area: natural products, biocatalysis;

**2004-2007:** research assistant at ICB-CNR, research area natural products chemistry;

**January the 1st, 2008-present:** permanent researcher at ICB-CNR.

***Scientific Activity***

Lead author of oral communications in national and international conferences;

co-author in more than 60 peer-reviewed research papers;

Habitual reviewer for the following journals in the scientific area of natural products and food chemistry: Journal of Agricultural and Food Chemistry, Food Chemistry, Food Control, Journal of Food Quality, Journal of Food Science and Technology.

Her research activity mainly focusses in the area of metabolic profiling: analysis of complex matrices from natural sources, food biochemistry; study of edible plants profiles in pre-and post-harvest treatments, storage, and processing. Valorization of residual natural sources; structural modification of bioactive compounds. She is currently collaborating with research units in agronomy, food technology, pharmacology, toxicology, material science, supramolecular chemistry, computational analysis, state-of-the-art statistical analysis.

***Main projects***

**2017-2019:** “**Bioprofiling: marcatori molecolari genomici, metabolici e proteici in biomedicina**”, project coordinator

**2017-2020:** “**Innovative foods and food up-cycling: use of agrofood wastes as source of nutrients**” Signed agreement between ICB-CNR and Di3A – University of Catania, agreement leader

**2019- still running:** **Natural and pharmacological inhibition of the early phase of viral replication (VIRSUDNET) – PRIN2017** - cod. PRIN2017M8R7N9, task leader

**2021 – still running:** “**Ellagic acid and punicic acid rich extracts from pomegranate matrices**” DCM.AD007.199, scientific leader

***Main teaching experience***

**From 2018** , Adjunct Professor of Phytochemistry , Department of Drug Sciences, University of Catania

**From 2020**, Adjunct Professor of Food Chemistry, Department of Agriculture, Food and Environment, University of Catania

**Other:**

Journal of Food Studies, ISSN 2116-1073, Editorial board member

“Phytochemicals of edible plants in human health” Special issue of Journal Agronomy, ISSN 2073-4395 , Special issue Editor

[https://www.mdpi.com/journal/agronomy/special\\_issues/Plants\\_Phytochemicals](https://www.mdpi.com/journal/agronomy/special_issues/Plants_Phytochemicals)

**Book chapters:**

1. F. Gresta, G.M. Lombardo, L. Siracusa, G. Ruberto. Saffron: An Alternative Crop for Sustainable Agricultural Systems. A review. In *Sustainable Agriculture*, **2009**, Ed. Springer, Part III: Biodiversity, 355-376.
2. Laura Siracusa, Fabio Gresta, Giuseppe Ruberto. Saffron (*Crocus sativus* L.) apocarotenoids: a review of their biomolecular features and biological activity perspectives. In: Yamaguchi, M. (Ed.), *Carotenoids: Properties, Effects and Diseases*, Nova Science Publ. Inc. NY, USA, **2011**, pp. 145-178. ISBN: 978-1-61209-713-8.
3. Laura Siracusa, Giuseppe Ruberto. Plant polyphenol profiles as a tool for traceability and valuable support to biodiversity. Chapter II (15-33) In *Polyphenols in Plants: Isolation, Purification and Extract Preparation* , 1<sup>st</sup> Edition (April **2014**).Elsevier Books, ISBN 9780123979346.
4. Laura Siracusa, Francesco Cimino, Antonella Saija, Giuseppe Ruberto. Bioactive Compounds from the Leaves of Sicilian Liquorice. In: *Advances in Chemistry Research*, Chapter 3, 133-167. Editor: James C. Taylor. ISBN 978-1-53613-206-9, **2018** Nova Science Publishers, Inc.
5. Laura Siracusa, Giuseppe Ruberto. Not only what is food is good – polyphenols from edible and nonedible vegetable wastes. Chapter I (3-21) in *Polyphenols in Plants: Isolation, Purification and Extract Preparation* , 2<sup>nd</sup> Edition (August **2018**) . Elsevier Books, ISBN 9780128137680; ebook ISBN 9780128137697.
6. Oscar Grillo, Marisol Lo Bianco, Sebastiano Blangiforti, Laura Siracusa, Gianfranco Venora, Giuseppe Ruberto. Phenolic fingerprinting and glumes image analysis as an effective approach for durum wheat landraces identification. Chapter 2 (21-37) in *Rediscovery of Landraces as a Resource for the Future* (September **2018**). Intechopen Books,ISBN 978-1-78923-724-5; eBook ISBN 978-1-78923-725-2.

**Bibliometric indicators (September 2021):**

H-index (Scopus) = 23; H-index (Google Scholar) = 23;

Total citations: 1383 (Scopus);

<https://www.scopus.com/authid/detail.uri?authorId=56246061900>

total citations: 1995 (Google Scholar)

<https://scholar.google.it/citations?user=iMBxR7MAAAAJ&hl=it>