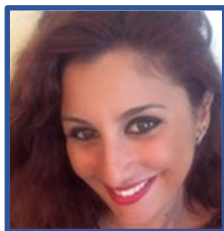


PERSONAL INFORMATION



Antonella Smeriglio



✉ antonella.smeriglio@unime.it

Sex Female | Date of birth 18/09/1984 | Nationality Italian

ACTUAL POSITION

SENIOR RESEARCH (RTD-B) SSD BIO/15 PHARMACEUTICAL BIOLOGY (from December 01, 2022)

University of Messina, Department of chemical, biological, pharmaceutical and environmental sciences (ChiBioFarAm) Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)

QUALIFICATIONS

Master's Degree in Pharmacy

PhD in Experimental, environmental, and occupational toxicology

Specialization in Pharmacognosy

II level Master in Phytotherapy

National scientific license by Ministry of University and Research (MIUR) to Associate Professor call D.D. 2175/2018 competition sector 05/A1 Botany

BIBLIOMETRIC PARAMETERS

Source: Scopus

Documents: 101

H-index: 28

Citations: 2805

WORK EXPERIENCE

-
- October 2021 – November 2022 **RTD-A in Pharmaceutical biology (SSD BIO/15)**
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
Business or sector Scientific Research
- April - September 2021 **Research grant type B in Pharmacological Sciences, CUN Area 05 S.S.D. BIO 14 – Pharmacology (Prot. n. 0045397 of 06/04/2021)**
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
Business or sector Scientific Research
- March 2020 to January 2021 **Research fellow on the following project “Extraction, purification and characterization of oleosomes obtained from Prunus dulcis L. pre and post in vitro enzymatic digestion”**
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
Business or sector Scientific Research

- January 2018 to March 2020 Research fellow in Pharmacognosy by Prof. Antonio Imbesi Foundation on the following project “Native sources of secondary metabolites with potential tyrosinase inhibitory activity”
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
Business or sector Scientific Research
- 2015-2016 Teaching tutor in the II level Master "Clinical Pharmacy: oncological compounding"
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
Business or sector Coordination and management
- May 2015-December 2017 Research fellow in Pharmacognosy by Prof. Antonio Imbesi Foundation
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
Business or sector Scientific Research
- January-April 2015 Research fellow in the following project “Research and development of nanosystems aimed at targeted drug delivery (TDD) in oncology” - Project-PON02_00355_2964193”
University of Messina, Department of Pharmaceutical Sciences and Health Products
Viale Annunziata - 98168 Messina (Italy)
Business or sector Scientific Research
- 2010-2013 PhD student in "Experimental, Environmental and Occupational Toxicology" XXV cycle
University of Messina, Department of Pharmaceutical Sciences and Health Products
Viale Annunziata - 98168 Messina (Italy)
Business or sector Scientific Research
- 2011-2012 Teaching tutor in the II level Master "Diagnostic and molecular methodologies for human health"
University of Messina, Department of Pharmaceutical Sciences and Health Products
Viale Annunziata - 98168 Messina (Italy)
Business or sector Coordination and management
- April – September 2009 Erasmus placement
Plant Research International di Wageningen (Netherland)
Business or sector Scientific Research
- 2007 – 2009 Experimental thesis in Pharmacology (S.S.D. BIO/14)
University of Messina, Department of Pharmaceutical Sciences and Health Products
Viale Annunziata - 98168 Messina (Italy)
Business or sector Scientific Research

TEACHING ACTIVITY

- Academic Year 2022/2023 "Food supplements of vegetable origin" (6 CFU)
Master's Degree in Food Science and Human Nutrition
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
- Academic Year 2022/2023 Supplementary teaching tasks in "Pharmaceutical Biology" for individual laboratory exercises.
Master's Degree in Pharmacy
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
- Academic Year 2022/2023 Supplementary teaching tasks in "Pharmaceutical Botany" for individual laboratory exercises.
Master's Degree in Pharmacy
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
- Academic Year 2021/2022 Cycle of lectures on the topic: "The problem of misidentification of alimurgical species in the Mediterranean area" for PhD students of the XXXV, XXXVI and XXXVII cycle in Applied Biology and Experimental Medicine of the University of Messina, biological-environmental curriculum for a total of 2 lessons of 3 hours.
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
- Academic year 2021/2022 "Plant bioactive molecules " (6 CFU)
Master's degree course in health biology, applied technologies and nutrition.
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
- Academic year 2021/2022 Supplementary teaching tasks in "Pharmaceutical Biology" for individual laboratory exercises and seminars.
Master's Degree in Pharmacy
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)

EXAMINATION COMMISSION

- From 2023 Cher of the "Food supplements of vegetable origin" examination commission
Master's Degree in Food Science and Human Nutrition
University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)
Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)
- From 2023 Effective member of the "Pharmaceutical Botany" examination commission
Master's Degree in Pharmacy

University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)

Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)

From 2023

Effective member of the "Pharmaceutical plant biology" examination commission
Master's Degree in Pharmaceutical chemistry and technology

University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)

Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)

From 2022

Effective member of the "Plant bioactive molecules" examination commission
Master's degree course in health biology, applied technologies and nutrition.

University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)

Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)

From 2021

Effective member of the "Pharmaceutical Biology" examination commission
Master's Degree in Pharmacy

University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)

Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)

EDITORIAL ACTIVITY

September 2022-May 2023

Role: Guest Editor

Special issue: "Holistic Toxicological Approaches in Forensic Sciences Applications: New Perspectives and Approaches to Improve Casework"

Journal: Toxics

June 2022-June 2023

Role: Guest Editor

Special issue: "Biotic and Abiotic Stressors in Plant Metabolism"

Journal: International Journal of Molecular Science

July-December 2021

Role: Lead Editor

Special issue: "Plant Complexes and their Isolated Compounds for Oxidative Stress and Inflammation: from Basic Research to Clinical Evidence"

Journal: Oxidative Medicine and Cellular Longevity

July 2020-July 2021

Role: Guest Editor

Special Issue: "Circular Economy: Agri-Food Byproducts as Source of Bioactive Compounds"

Journal: Molecules

From May 2020

Role: Editor

Topical collection: "Bioactive Compounds in Plants"

Journal: Plants

April 2019-April 2020

Role: Associate Editor

Special issue: "Bioactive Compounds in Plants"

Journal: Plants

From September 2019

Role: Associate Editor

Journal: Plants

From July 2018

Role: Associate Editor

Journal: BMC Complementary Medicine and Therapies

EDUCATION AND TRAINING

December 13-14, 2021

IV° Course in electron and confocal microscopy in botany

Institution: University of Modena (Italy)

March 24, 2021

II level Master in Phytotherapy with marks 110/110

Vote: 110/110

Institution: University of Siena (Italy)

September 04, 2020

Subject expert for the discipline "Pharmaceutical Biology" (S.S.D. BIO/15)

Institution: University of messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm)

Viale Ferdinando Stagno d'Alcontres 31 - 98166 Messina (Italy)

December 12, 2017

Specialization in Pharmacognosy

Vote: 50/50 with onor

Institution: University of Messina (Italy)

July 05, 2017

English certificate B2

Institution: University of Messina Language Center (CLAM)

July 16, 2014

Function Manager in the Pharma-Food Sector

Institution: University of messina, "NUTRALifeHi-Nutraceutical care & Food for Specific Health Uses" Project-PON 01_01499 Hi-LIFE

April 11, 2013

PhD in "Experimental, Environmental and Occupational Toxicology" XXV° Cycle

Institution: University of Messina, Department of Pharmaceutical Sciences and Health Products

Viale Annunziata - 98168 Messina (Italy)

October 17-18, 2013

Course of "Mass spectrometry of biomolecules: clinical and proteomic applications"

Institution: Italian Chemical Society – Mass Spectrometry Division

June 11-14, 2012

"LC-MS 2012 Advanced Course on Coupling Mass Spectrometry with Liquid Phase Separation Techniques"

Institution: Italian Chemical Society – Mass Spectrometry Division

December 15, 2009

Qualification to the profession of Pharmacist

Institution: University of Messina, Department of pharmaceutical sciences and health products

Viale Annunziata - 98168 Messina (Italy)

October 29, 2009

Master's degree in Pharmacy

Vote: 110/110

Institution: University of Messina, Faculty of Pharmacy (Italy)

November 26, 2002

Regional course "Personal computer operator"

Institution: Informatic Center, Messina (Italy)

PERSONAL SKILLS

Mother language

Italian

Other languages

	UNDERSTANDING		SPEAK		WRITTEN PRODUCTION
	Listening	Reading	Interaction	Oral production	
English	B2	B2	B2	B2	B2
French	A2	A2	A2	A2	A2

Levels: A1/2 Base - B1/2 Middle - C1/2 Advanced
Common European Framework of Reference for Languages

Communication

Excellent communication skills acquired during my experience as a university researcher

Organizational and management

Excellent organizational and managerial skills acquired thanks to the experiences of teaching tutor in two II level Masters; Management experiences in following thesis and PhD students in the research laboratory.

Professional skills

Development and validation of standardized extraction methods of plant-complexes and internal analytical LC-DAD, LC-FLU, LC-MSⁿ, GC-FID, GC-MS methods for their phytochemical characterization;
Development and validation of cell-free and cell-based experimental models for the characterization of some biological activities (antioxidant, anti-inflammatory, wound-healing, antiangiogenic and anti-melanogenic) of plant extracts and isolated bioactive compounds;
Excellent command of quality control processes in GLP, laboratory safety and problem solving.

Informatic skills

Excellent command of Microsoft Office tools, internet and e-mail.

Drive licence

B

DISSEMINATION AND FUTURE INFORMATION

Congresses

Over 70 contributions to National and International Congresses;
Seven international invited lectures;
Chairman in one International Congress;
Member of the Scientific Committee in three International Congresses;
For more information see attachment 1

Publications

Three National publications;
Ninety-five international publications;
Three book chapters.

Patents

Two national patents for the conveyance of a plant bioactive compound, specifically hydroxytyrosol from a titrated extract of *Olea Europea* L. fruit conveyed in extra virgin olive oil.

Scientific collaborations

Scientific collaboration with the following National and International Research

groups:

- ISS - Istituto Superiore di Sanità, Dpt. of Food Safety and Veterinary Public Health, Food and Veterinary Toxicology Unit, Viale Regina Elena, 299 - 00161 Rome, Italy;
- University of Genoa, Department of Earth, Environment and Life Sciences;
- University of Salerno, Dipartimento of Pharmacy, Via Giovanni Paolo II 132, 84084 Fisciano, Salerno (Italy);
- Section of Clinical Nutrition and Nutrigenomics, Department of Biomedicine and Prevention, University of Tor Vergata, Rome, Italy.
Research Unit of Molecular Genetics of Complex Phenotypes, Bambino Gesù Children's Hospital, IRCCS, 00146 Rome, Italy.
- Institute of Food Research, Norwich Research Park, Colney Lane, Norwich NR4 7UA, UK;
- Institute of Chinese Medical Sciences, State Key Laboratory of Quality Research in Chinese Medicine, University of Macau Taipa, Macau, China;
- University of M'sila. Department of Microbiology and Biochemistry, Faculty of Sciences, M'sila 28000, Algeria.
- Unit of Biotechnology and Pathologies, Higher Institute of Biotechnology of Sfax, University of Sfax, Tunisia.
- Phytochemistry Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Applied Biotechnology Research Center, Baqiyatallah University of Medical Sciences, Tehran (Iran).

Scientific societies

Member of the following scientific societies:

- Italian Society of Pharmacology (SIF)
- Italian Botanical Society (SBI)
- Italian Society of Phytotherapy (SIFIT)
- Italian Phytochemical Society (SIF)
- European Society of Phytochemistry (PSE)

Projects

Participation in the following research projects:

- "Characterization of natural substances recovered from oil seed byproducts for the formulation of new supplements and health products", Parodi Nutra srl, Campomorone (Genoa, Italy);
- "Indigenous sources of secondary metabolites with potential tyrosinase-inhibitory activity", Prof. A. Imbesi Foundation, Messina (Italy);
- "Research and development of nanosystems aimed at targeted drug delivery (TDD) in oncology" - Project-PON02_00355_2964193, University of Messina (Italy).

AWARDS

-
- Farindustria 2019, Award from the Italian Society of Pharmacology and Farindustria for distinguished quality of its research in the pharmacological field;
 - Award of the Italian Botanical Society as best poster for the contribution entitled "The hull of ripe pistachio nuts (*Pistacia vera* L.) as a source of new promising tyrosinase inhibitors" 114th Congress of the Italian Botanical Society-VI International Plant Science Conference (IPSC), held in Padua on 4-6 September 2019;
 - Valducci Award by the Italian Society of Phytotherapy (S.I.Fit.) and Erba vita Group s.p.a., for the best oral communication entitled "Reconstructed human epidermis (RHE) model as a tool for the evaluation of tolerability and efficacy of a hydroxytyrosol- based formulation on atopic dermatitis" VIII SYRP: S.I.Fit. Young Researchers Project "Experimental models for the study of natural products", held

in Imola on 14 January 2019;

- Travel Grant Award by the Italian Botanical Society, 113th Congress of Italian Botanical Society - V International Plant Science Conference (IPSC), held in Fisciano (Salerno), 2-14 September 2018 for a contribution entitled "*Alnus glutinosa* (L.) Gaertn. and *Alnus cordata* (Loisel) Duby as new sources of safe cosmetic and pharmacological anti-melanogenic agents";

- Award from the Italian Society of Pharmacology (SIF), 38th National Congress "Drugs, Health and Quality of Life" held in Rimini on 25-28 October 2017 for the best poster entitled "Antioxidant effects of a hydroxytyrosol-based pharmaceutical formulation on body composition, metabolic state, and gene expression: a randomized double-blind, placebo-controlled crossover trial";

- Travel Grant Award by the Italian Botanical Society, 112th Congress of Italian Botanical Society - IV International Plant Science Conference (IPSC), held in Parma on 20-23 September 2017 Parma for a contribution entitled "*Euphorbia dendroides* L. (Euphorbiaceae) latex: polyphenols characterization and evaluation of antioxidant and radical scavenging properties";

- Travel Grant Award by the Italian Botanical Society, 111th Congress of Italian Botanical Society - III International Plant Science Conference (IPSC), held in Rome on 21-23 September 2016 for a contribution entitled: "Phytochemical analysis and antioxidant properties of *Euphorbia dendroides* L. latex";

- Travel Grant Award by the European Phytochemical Society (PSE), 2nd International Symposium PSE "Natural Product in Cancer Prevention and Therapy" held in Naples on 25-28 June 2013 for an oral communication entitled "Intracellular distribution and biological effects of plant bioactives in a sex steroid-sensitive model of human prostate adenocarcinoma".
