

CURRICULUM VITAE STEFANIA MOCCIA

PERSONAL INFORMATION

Surname, Name **STEFANIA MOCCIA**
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Nationality **ITALIAN**

WORK EXPERIENCE

Period (from – to) **NOVEMBER 2019-PRESENT**
Name of employer **National Research Council of Italy, Institute of Food Sciences (CNR-ISA)**
Type of business or sector **Public Research Institution**
Occupation or position held **Researcher
Agri-food strategic area**

Period (from – to) **OCTOBER 2019 – NOVEMBER 2019**
Name of employer **National Research Council of Italy, Institute of Food Sciences (CNR-ISA)**
Type of business or sector **Public Research Institution**
Occupation or position held **Post-doctoral Researcher
Enhancement of plant waste through environmental sustainability and circular economy and identification of bioactive molecules from plant extracts for possible applications in the field of human nutrition and health
Research supervisor Dr. Gian Luigi Russo**

Period (from – to) **MAY 2017 – SEPTEMBER 2019**
Name of employer **National Research Council of Italy, Institute on Terrestrial Ecosystems (IRET-CNR)**
Type of business or sector **Public Research Institution**
Occupation or position held **Post-doctoral Fellowship
"Enhancement of agro-food waste by extracting bioactive molecules and characterizing their biological activity" during the research project: "Improvement of techniques and processes of chestnut transformation for the enhancement of IGP Campania chestnut biodiversity (VALBIOCASTA).**
Thematic **The research activity was mainly carried out at the Laboratory of Biochemistry and Cellular Biology at the Institute of Food Sciences, ISA-CNR, Avellino - Research supervisor Dr. Gian Luigi Russo**

Period (from – to) **JUNE 2016 – DECEMBER 2016**
Name of employer **Department of Pharmacy, University of Salerno**
Type of business or sector **University**
Occupation or position held **Postgraduate Fellowship
Research project: "Micro and nano-particles POLLmeric systems for the administration of PHARMacologically Active molecules - (POLIFARMA) for the research activity "Formulation of bioactives for the development of medicines and nutraceuticals"- Research supervisor Prof. Rita Patrizia Aquino - Department of Pharmacy, University of Salerno, Italy.
The research activity was mainly carried out at the Laboratory of Biochemistry and Cellular Biology at the Institute of Food Sciences, ISA-CNR, Avellino - Research supervisor Dr. Gian Luigi Russo**
Thematic

Period (from – to) **MARCH 2015 – JUNE 2015**
 Name of employer National Research Council of Italy, Institute of Food Sciences (CNR-ISA)
 Type of business or sector Public Research Institution
 Occupation or position held Contractor
 Research activity: "Extraction of biomolecules from agri-food matrices and biochemical and functional characterization through antioxidant activity assays on different models" during the research project PSR 2007-2013 "Chestnut in the world" - Research supervisor Dr. Gian Luigi Russo - Institute of Food Sciences, CNR, Avellino
 Thematic

Period (from – to) **JUNE 2014 – NOVEMBER 2014**
 Name of employer National Research Council of Italy, Institute of Food Sciences (CNR-ISA)
 Type of business or sector Public Research Institution
 Occupation or position held Contractor
 Research project "Integration of experimental skills in the field of cellular biology and development with computational methods for systems biology" - Research supervisor Dr. Angelo Facchiano - Institute of Food Sciences, CNR, Avellino
 Thematic
 The research activity was mainly carried out at the Laboratory of Biochemistry and Cellular Biology at the Institute of Food Sciences, ISA-CNR, Avellino - Research supervisor Dr. Gian Luigi Russo

EDUCATION

Period (from – to) 2013-2017
 Name and type of organization providing education University of Salerno (UNISA)
 Title of qualification awarded **PhD in Pharmaceutical Sciences**
 PhD Thesis title "Novel functional foods from local Italian cultivars for consumers' well-being: from agricultural raw materials to design and development"
 Supervisor and institute University of Salerno (UNISA), tutor Prof. Rita Patrizia Aquino. The activity was mainly carried out at the Laboratory of Biochemistry and Cellular Biology of Nutrition of the Institute of Food Sciences, CNR, Avellino, Research supervisor Dr. Gian Luigi Russo

Period (from – to) February 2014
 Name and type of organization providing education University of Salerno (UNISA)
 Title of qualification awarded Professional Qualification in Pharmacy

Period (from – to) 2008–2013
 Name and type of organization providing education University of Salerno (UNISA)
 Title of qualification awarded **Degree in Pharmacy (14 / S; D.M. 509/1999), 110/110 cum laude**
 Thesis title "Antioxidant properties of methanolic extracts of *Rubus spp.* and *Sambucus nigra in vitro* and in biological models "
 Supervisor and institute University of Salerno (UNISA), tutor Prof. Rita Patrizia Aquino. The activity was mainly carried out at the Laboratory of Biochemistry and Cellular Biology of Nutrition of the Institute of Food Sciences, CNR, Avellino, Research supervisor Dr. Gian Luigi Russo

INVITED SPEAKER TO INTERNATIONAL EVENTS (BY INVITATION)

2021 "Anti-proliferative effect of phenolic compounds from *Castanea sativa* byproducts in malignant cell lines through the activation of autophagy" in the 4th International Conference on Natural Products for Cancer Prevention and Therapy (NPCPT2021), online KAYSERY, 18-19 December 2021.

- 2021 “Active edible coating as a preservation method to maintain the quality and nutraceutical content of fig fruits during shelf life” in the session “Food process engineering, biotechnology and bioprocessing” in the 3rd International Conference on ENGINEERING FUTURE FOOD (EFF2021), virtual conference 23-26 May 2021.
- 2017 “Neuroprotective role of natural polyphenols from *Sambucus nigra*” in the session “Nutrheff-CNR topics: food bioactive compounds and health” in the 9th International meeting on Probiotics, prebiotics new foods, nutraceuticals and botanicals for nutrition & human and microbiota health (Nutrheff), Rome, Italy, 10-12 September 2017.

**INVITED SPEAKER TO
NATIONAL EVENTS
(BY INVITATION)**

- 2019 “Chemical, biochemical and functional characterization of phytochemicals of the EcoNutraPrevention study in experimental models” in the Congress “ANDRODAY 2019”, Rome, Italy 19 November 2019.
- 2019 “Antiproliferative and antioxidant effect of polyphenolic extracts from *Cannabis sativa* L. in a colorectal adenocarcinoma cell line” in the Institute Conference of Research on Terrestrial Ecosystems (IRET-CNR), Rome, Italy, 9-10 April 2019.
- 2018 “Activation of cytosstatic autophagy induced by a polar extract of hemp seed oil (*Cannabis sativa* L.) in a colorectal adenocarcinoma cell line” in the session “Molecular mechanisms of bioactive components present in food” in the XXXIX National Congress of Italian society of human nutrition (SINU), Naples, Italy, 19-21 November 2018.

SCIENTIFIC GRANTS

Best Research Poster Grant 2017 XXXVIII National Congress Italian Human Nutrition Society (SINU) **Moccia, S.**, Spagnuolo, C., Siano, F., Picariello, G., Volpe, M.G., La Cara, F., Russo, G.L. “Antiproliferative and antioxidant effect of polyphenolic extracts from hemp (*Cannabis sativa* L.) in Caco-2 cells” 20-22 November 2017 Turin, Italy.

Research Activities/Projects
(main)

Scientific responsible project of ISA-CNR unit in the regional project “A fishing net for the marine waste chain – FIRM, call 1.26 - Reg. (UE) 508/2014, art. 26 -, 1.40.
From 06 August 2021 to 31 December 2022

Scientific responsible project of ISA-CNR unit in the regional project "Development of management methods of fungal problems, impact on the quality and conservation of fruit production (chestnuts and cherries) - PROCACI" CUP F26B19005320009, PSR Regione Campania (local country administration).
From 01 March 2021 to 30 June 2023

Participation in the scientific activities of the regional project “Evaluation of the biodiversity of local legumes for the production of bread based on vegetable proteins – PANPRO” PSR Regione Campania (local country administration).
From 01 March 2021 to 30 June 2023

Participation in the scientific activities of the project “Nutrition & Active Aging (NUTR-AGE)” Development of formulations of biocompounds to be included in functional foods Ordinary fund for Research Bodies and Institutions (FOE), Ministerial Decree n.856 of 10 October 2019.
From 2019- *in progress*

Participation in the scientific activities of the project “The Food Labelling of Italian Products (FLIP)”, Project of the Italian Society of Human Nutrition (SINU) SINU-Young. From 2018-
in progress

Participation in the scientific activities of the project "New formulations of functional nutraceutical products for the primary prevention of oncological pathologies associated with environmental pollutants in "Terra dei Fuochi" (EcoNutraPrevention)" POR FESR CAMPANIA 2014/2020 –O.S. 1.1 DECREE N ° 549 of 10 June 2018

Publications 21 articles in International Scientific Journals (ISI WoS)
4 Chapters in books
13 Articles in National or not ISI Scientific Journals
30 abstracts in international or national congresses

Date,

Main publications

Russo, G.L., **Moccia, S.**, Russo, M., Spagnuolo, C. (2021). Redox regulation by carotenoids: Evidence and conflicts for their application in cancer. *Biochemical pharmacology*, 194, 114838, doi:10.1016/j.bcp.2021.114838.

Tedesco, I., Spagnuolo, C., Russo, G.L., Russo, M., Cervellera, C., **Moccia, S.** (2021). The Pro-Oxidant Activity of Red Wine Polyphenols Induces an Adaptive Antioxidant Response in Human Erythrocytes. *Antioxidants*, 10(5):800. doi:10.3390/antiox10050800.

Russo, G.L., Spagnuolo, C., Russo, M., Tedesco, I., **Moccia, S.**, Cervellera, C. (2020). Mechanisms of aging and potential role of selected polyphenols in extending healthspan. *Biochem Pharmacol*, 173, 113719. doi: 10.1016/j.bcp.2019.113719.

Moccia, S.*, Siano, F.*, Russo, G.L., Volpe, M.G., La Cara, F., Pacifico, S., Piccolella, S., Picariello, G. (2020). Antiproliferative and antioxidant effect of polar hemp extracts (*Cannabis sativa* L., Fedora cv.) in human colorectal cell lines. *Int J Food Sci Nutr*, 71(4), 410-423. doi: 10.1080/09637486.2019.1666804. *equal contribution

Russo, M.*, **Moccia, S.***, Spagnuolo, C., Tedesco, I., Russo, G.L. (2020). Roles of flavonoids against coronavirus infection. *Chem. Biol. Interact*, 28;328:109211. doi: 10.1016/j.cbi.2020.109211. *equal contribution

Moccia, S.*, Russo, M.*, Durante, M., Lenucci, M. S., Mita, G., Russo, G.L. (2020). A carotenoid-enriched extract from pumpkin delays cell proliferation in a human chronic lymphocytic leukemia cell line through the modulation of autophagic flux. *Current Research in Biotechnology*, 2: 74-82. doi.org/10.1016/j.crbiot.2020.05.001. *equal contribution

Spagnuolo, C., **Moccia, S.**, Russo, G.L. (2018). Anti-inflammatory effects of flavonoids in neurodegenerative disorders. *Eur J Med Chem*, 153, 105-115. doi: 10.1016/j.ejmech.2017.09.001.

Russo, M.*, **Moccia, S.***, Bilotto, S.*, Spagnuolo, C., Durante, M., Lenucci, M. S., Mita, G., Volpe, M. G., Russo, G.L. (2017). A Carotenoid Extract from a Southern Italian Cultivar of Pumpkin Triggers Nonprotective Autophagy in Malignant Cells. *Oxid Med Cell Longev*, 2017, 7468538. doi: 10.1155/2017/7468538. *equal contribution

Tedesco, I.*, **Moccia, S.***, Volpe, S., Alfieri, G., Strollo, D., Bilotto, S., Spagnuolo, C., Di Renzo, M., Aquino, R.P., Russo, G.L. (2016). Red wine activates plasma membrane redox system in human erythrocytes. *Free Radic Res*, Mar 17:1-13 50(5), 557-569. doi: 10.3109/10715762.2016.1152629.

*equal contribution