

# CURRICULUM VITAE

## PERSONAL INFORMATION

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Nationality	ITALIAN

## WORK EXPERIENCE

01 July 2020 - now	Research Scientist at Institute of Food Sciences, National Research Council (CNR), Avellino (Italy)
June 2019-July2020	Fellowship at the Institute of Food Sciences (CNR, Avellino, Italy) on a project entitled "Healthy properties of new products for nutraceuticals and human nutrition"
June 2015 –June2016	Research Scientist at Institute of Food Sciences, (not permanent position) National Research Council (CNR), Avellino (Italy)
June 2012-August 2014	Fellowship at the Institute of Food Sciences (CNR, Avellino, Italy) on a MERIT (RBNE08ZZN7) project entitled "Development of new pharmacological strategies for the treatment of cognitive dysfunction associated with aging and psychiatric disorders, with specific reference to psychosis and neurodegenerative diseases"
September-December 2011	Contract at the Institute of Food Sciences (CNR, Avellino, Italy) on a project entitled: "Hormetic effects of phytochemicals in cellular models"
July-December 2010	Fellowship at the Institute of Food Sciences (CNR, Avellino, Italy) on a project entitled "Study of molecular mechanisms of toxicity of polyphenols"
January-September 2009	Fellowship at the Institute of Food Sciences (CNR, Avellino, Italy) on a project entitled: "Acute and chronic toxicity of food-derived molecules on human cell lines"
June-December 2008	Contract at the Institute of Food Sciences (CNR, Avellino, Italy) on a project entitled: "Exploiting polyphenol sensitivity in primary chronic lymphocytic leukemia"

## VISITING SCIENTIST

- December 2013 Slovak Academy of Sciences, Bratislava, Slovackia (Dr. Katarina Bauerova)
- May-August 2013 Wellcome Trust Sanger Institute Genome Campus, Hinxton, Cambridgeshire, United Kingdom. (Dr. Kosuke Yusa Group Leader of Team Stem Cell Genetics)
- June-September 2010 and March 2011 - Fondation Recherche sur le Cancer et les Maladies du Sang Laboratoire de Biologie Moleculaire et Cellulaire du Cancer (LBMCC) Hopital Kirchberg, 9, rue Edward Steichen, L-2540 Luxembourg (Dr. Marc Diederich)



## EDUCATION AND TRAINING

2007 - 2011

Doctorate Program in Medical Oncology, Surgery and Clinical Immunology, Second University of Naples, Italy

February 2007

Biological Sciences Academic degree, University of Sannio, Benevento, Italy

## RESEARCH ACTIVITIES/PROJECTS (MAIN)

Foods and health, nutraceuticals and functional foods.

- Study of the neuroprotective effects of natural molecules (extracts obtained from food and drinks or pure molecules)
- Study of the antioxidant and chemopreventive activity of pure bioactive compounds or extracts from foods and beverages, and investigation of the molecular mechanism, on in vitro and ex vivo models
- Study of the hormetic effect induced by polyphenols and dioxins (TCDD and PCB) in in vitro models

Responsible of unit – PANPRO, “Regional project GAL ( Misura 16, Intervento16.1.1, Azione 2) 2021

Participant – PROCACI, “Regional project GAL ( Misura 16, Intervento16.1.1, Azione 2) 2021

## BIBLIOMETRIC INDICES

(www.scholar.google.it,  
15/12/2021)

**Citations 3322**

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## Scientific production

34 articles in International Scientific Journals (ISI WoS)

1 book chapter

6 Articles in National or not ISI Scientific Journals

>20 abstracts in international or national congresses

## Main Publications

GL Russo, S Moccia, M Russo, **C Spagnuolo**

Redox regulation by carotenoids: evidence and conflicts for their application in cancer  
Biochem pharmacol, 021 Dec;194:114838. doi: 10.1016/j.bcp.2021.114838. 2021

I Tedesco, **C Spagnuolo**, GL Russo, M Russo, C Cervellera, S Moccia

The Pro-Oxidant Activity of Red Wine Polyphenols Induces an Adaptive Antioxidant Response in Human Erythrocytes. Antioxidants 2021 May 18;10(5):800. doi: 10.3390/antiox10050800

Tedesco I\*, **Spagnuolo C\***, Bilotto S, Izzo AA, Borrelli F, Rigano D, Russo M, Tarricone F, Russo GL.

Antioxidant and Chemopreventive Effect of Aliophen® Formulation Based on Malts and Hops. Antioxidants (Basel). 2020 Dec 30;10(1):29.

Russo GL, **Spagnuolo C**, Russo M, Tedesco I, Moccia S, Cervellera C.

Mechanisms of aging and potential role of selected polyphenols in extending healthspan

Biochem Pharmacol. 2020 Mar;173:113719.

Russo M, Moccia S, **Spagnuolo C**, Tedesco I, Russo GL

Roles of flavonoids against coronavirus infection. Chem Biol Interact. 2020 Sep 1;328:109211. doi: 10.1016/j.cbi.2020.109211

Russo GL, **Spagnuolo C**, Russo M, Tedesco I, Moccia S, Cervellera C.

Mechanisms of aging and potential role of selected polyphenols in extending healthspan. Biochem Pharmacol. 2020 Mar;173:113719.

doi:10.1016/j.bcp.2019.113719

**Spagnuolo C**, Moccia S, Russo GL.

Anti-inflammatory effects of flavonoids in neurodegenerative disorders.

Eur J Med Chem. 2018 Jun 10;153:105-115. doi: 10.1016/j.ejmech.2017.09.001.

Russo M\*, **Spagnuolo C\***, Russo GL, Skalicka-Woźniak K, Daglia M, Sobarzo-Sánchez E, Nabavi SF, Nabavi SM.

Nrf2 targeting by sulforaphane: a potential therapy for cancer treatment.

Crit Rev Food Sci Nutr. 2016 Dec 21:0. doi: 10.1080/10408398.2016.1259983

**C Spagnuolo**, G Flores, GL Russo, ML Ruiz del Castillo

A phenolic extract obtained from methyl jasmonate treated strawberries enhances apoptosis in a human cervical cancer cell line

Nutr Cancer. 2016 Oct;68(7):1140-50. doi: 10.1080/01635581.2016.1208831.

**Spagnuolo C**, Napolitano M, Tedesco I, Moccia S, Russo GL.

Neuroprotective role of natural polyphenols.

Current Topic in Medicinal Chemistry. 2016;16(17):1943-50

**Spagnuolo C**, Russo GL, Orhan IE, Habtemariam S, Daglia M, Sureda A, Nabavi SF, Loizzo MR, Tundis R, and Nabavi SM.

Genistein and cancer: current status, challenges, and future direction  
Advances in Nutrition: An International Review Journal. 2015 Jul 15;6(4):408-19.

Tedesco I\*, **Spagnuolo C\***, Carbone V\*, Minasi P and Russo GL  
Identification and quantification of flavonoids from two Southern Italy cultivars of *Allium caepa* L. Var. Tropea (red onion) and Montoro (copper onion) and their capacity to protect human erythrocytes from oxidative stress.  
Journal of agricultural and food chemistry. 2015 Jun 3;63(21):5229-38.

Mohammada RM, Muqbil I, Lowe L, Yedjou C, Hsu HY, Lin LT, Siegelin MD, Fimognari C, Kumar NB, Dou QP, Yang H, Samadi AK, Russo GL, **Spagnuolo C**, Ray SK, Chakrabarty M, Morreo JD, Coley HM, Honoki H, Fujii H, Georgakilas AG, Amedei A, Niccolai E, Amin A, Ashraf SS, Helferich WG, Yang X, Boosani CS, Guha G, Bhakta D, Ciriolo MR, Aquilano K, Chen S, Mohammed SI, Keith WN, Bilstrand A, Halicka D, Nowsheen S, Azmi AS.  
Broad targeting of resistance to apoptosis in cancer.  
Seminars in Cancer Biology. 2015 Dec;35 Suppl:S78-103.

Russo M\*, **Spagnuolo C\***, Volpe S, Tedesco I, Bilotto S, Russo GL.  
ABT-737 resistance in B-cells isolated from chronic lymphocytic leukemia patients and leukemia cell lines is overcome by the pleiotropic kinase inhibitor quercetin through Mcl-1 down-regulation.  
Biochemical Pharmacology 2013Apr 1;85(7):927-36.

Tedesco I\*, **Spagnuolo C\***, Russo M, Iannitti R, Nappo A, Russo GL.  
Protective Effect of  $\gamma$ -Irradiation Against Hypochlorous Acid-Induced Haemolysis in Human Erythrocytes.  
Dose-Response. 2013;1(1):1-12

M Russo\*, **C Spagnuolo \***, I Tedesco, S Bilotto, GL Russo.  
Flavonoid quercetin in disease prevention and therapy: facts and fancies  
Biochemical Pharmacology 2012 Jan 1;83(1):6-15.

**C Spagnuolo**, C Cerella, M Russo, S Chateauviex, M Diederich and GL Russo.  
Quercetin down-regulates Mcl-1 by acting on mRNA stability and protein degradation  
British journal of cancer 2011 105(2):221-30

M Russo, **C Spagnuolo**, S Volpe, A Mupo and GL Russo.  
Quercetin induced apoptosis in association with death receptors and fludarabine in cells isolated from chronic lymphocytic leukaemia patients.  
British journal of cancer 2010 Aug 24;103(5):642-8.