

Maria Rosa Ciriolo

CURRENT POSITION

Full Professor at the Department of Biology, University of Rome "Tor Vergata", Italy.

Head of the section "Biochemistry of aging" Research Center, IRCCS San Raffaele "La Pisana" Rome, Italy.

EDUCATION

1980 University of Rome "La Sapienza" : Doctor of Biology cum laude

1988 University of Yeshiva, New York, NY, USA: Specialization in Pharmacology with honors

CHRONOLOGY OF EMPLOYMENT

1980-1983: Fellow, Inst. of Biochemistry, University of Rome "La Sapienza", Rome, Italy

1983-1994: Researcher, University of Rome "Tor Vergata", Rome, Italy

1986-1988: Research associate, Yeshiva University, New York, NY (USA)

1994-2002: Full Professor, University of Chieti "G. D'Annunzio", Chieti, Italy

2002- to present: Full Professor, University of Rome "Tor Vergata", Rome, Italy

2007- to present: Head of laboratory "Biochemistry of Ageing" IRCCS San Raffaele, Rome, Italy

TEACHING

Biochemistry – Degree Course in Biological Sciences (First Level)

Proteins and Metabolism – Degree Course in Cellular and Molecular Biology (Second Level)

Biochemistry – Degree Course in Pharmacy

Biochemistry of Nutrition – Degree Course in Nutritional Sciences (Second level)

Laboratory of Biochemistry – Degree Course in Biological Sciences (First Level)

AWARDS

1988: Performance of duties as Research Associate in Molecular Pharmacology from Albert Einstein College of Medicine, New York, USA

PATENT

RM92A000930 entitled: " Use of glutathione for preparation of pharmaceuticals with antiviral activity" obtained on 12.28.1992.

Patent n°. 0.600.985-9 entitled "Preparation and Pharmacological Activity of Copper complexes with Isatin and its Imine Derivatives as Antitumoral Agents" deposited on 03.20.2006.

SOCIETY MEMBERSHIPS

Italian Society of Biochemistry (SIB) and enlisted in National Order of Biologist; Society for Free Radical Research (SFRR); National Interuniversity Consortium I.N.B.B. (Institute National Biostructure and Biosystems); National Health committee on the evaluation of copper risk assessment; European Cell Death Organization (ECDO); INCT Redoxoma; European Association for the Study of Diabetes (EASD).

EDITORIAL BOARD MEMBER

Scientific Reports; Genes & Nutrition; Frontiers in Oncology: Cancer Molecular Targets and Therapeutics; MAP Kinase; Trends in Cell & Molecular Biology; ROS: Reactive Oxygen Species; Oxidative Medicine and Cellular Longevity; Nutrients.

OTHER SERVICES

- Member of the National board reviewer of the Italian Ministry of Education, Universities and Research;
- Referee for VQR (Evaluation of Research Quality);
- Grant reviewer for “Regione Calabria”, University of Padua; University of “Piemonte Orientale”; Israel Science Foundation; National Science Center of Poland; InBev-Baillet Latour Grants for Medical Research.
- Guest Editor for *Antioxidants & Redox Signaling* and *International Journal of Cell Biology*.
- Task Force Member (*Validation Team*) of the Halifax Project “*Getting to Know Cancer*”.

SCIENTIFIC PRODUCTIVITY AND IMPACT

She is author of more than 180 papers on high-ranking journals; 20 book chapters and 120 abstracts of International and National Congresses. (**H-index 55**, Total citations > 12000).

RESEARCH ACTIVITY

- Glutathione and antioxidant enzymes in the control of reactive oxygen and nitrogen species metabolism and their alterations in redox-related pathologies (cancer, degeneration, Type 2 diabetes, atherosclerosis);
- Nitric oxide metabolism and regulation of nitric oxide synthases;
- Interplay between redox and phosphorylative signaling in tumor, neuronal cell death and viral infections;
- Redox signal transduction pathways in cell processes (proliferation, differentiation, autophagy, apoptosis);
- Control of mitochondrial function and turnover (biogenesis/mitophagy);
- De-regulated metabolism (lipid, amino acids, glucose) of cancerous cells;
- Impact of nutrients and nutraceuticals (polyphenols and organosulfur compounds) on redox homeostasis, epigenetics and cellular oxidative metabolism.