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)

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)

SOCIETY MEMBERSHIPS

Italian Society of Biochemistry (SIB); 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; INCT Redoxoma; European Association for the Study of Diabetes (EASD).

EDITORIAL BOARD MEMBER

Scientific Reports; Genes & Nutrition; The open Nitric Oxide Journal; Frontiers in Cancer Molecular Targets and Therapeutics; MAP Kinase; Trends in Cell & Molecular Biology; Nutrients; Reactive Oxygen Species; Oxidative Medicine and Cellular Longevity.

SCIENTIFIC PRODUCTIVITY AND IMPACT

She is author of more than 180 papers on high-ranking journals; 16 book chapters and 110 abstracts of International and National Congresses. (H-index 55, Total citations >12200)

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, carbohydrates) of cancerous cells;
- Impact of nutrients and nutraceuticals (polyphenols and organosulfur compounds) on redox homeostasis, epigenetics and cellular oxidative metabolism.