



Barbara Marengo

Fixed-term assistant professor

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Education and training

2014

Biology License

University of Genova - Genova - IT

2012

Specialisation in Clinical Pathology

P38MAPK inhibition a new approach to sensitize neuroblastoma cells to etoposide

University of Genova - Genova - IT

2004

PhD Doctor in Biology and Pathology of Aging

Protein kinase C a family of isoenzymes modulated by reactive oxygen species production able to transduce signals for cell survival and death

University of Genova - Genova - IT

2000

Biological Science Degree

Phosphatidylethanolamine N-methyltransferase a possible prognostic factor specific for liver able to transduce antimitogenic and apoptotic signals

University of Torino - Torino - IT

Academic experience

2012 - ONGOING

Researcher

University of Genova - Genova - IT

Research and Teaching activity

2004 - 2012

Post-doctoral fellow

G. Gaslini Institute - Genova - IT

Research and Teaching activity

2000 - 2003

PhD Student

University of Genova - Genova - IT

Research activity

Language skills

English

Independent

Research interests

The research activity is focused to study:

- the role of antioxidant systems and metabolism in carcinogenesis and in the acquisition of chemoresistance.
- the role of drug-induced metabolic-adaptation of Cancer Stem Cells in chemoresistance
- Nanoparticles as possible drug-carriers able to stimulate ROS-mediated cell death in drug-resistant cancer cells
- p38MAP Kinase inhibitors as a strategy to counteract chemoresistance of human neuroblastoma cells.
- the role of protein kinase C in cellular responses of adaptation to oxidative damage.
- the role of oxysterols in the activation and polarization of macrophages as a pathogenic mechanism of atherosclerosis.
- the influence of oxidative stress in the progression of hepatocarcinoma

The research activity is documented by 49 publications in International Journals and by participation to many National and International Meetings as speaker.

In 2012 she has obtained: 'Best Scientific Work Award', XXXI National Congress of the Italian Society of Pathology; Udine 12-15 September 2012 and 'SFRR 2012 Young Investigator Award' 16th meeting of Society for Free Radical Research international; London 6-9 September 2012.

Reviewer for many Scientific Journal. Topic Editor of Frontiers in Oncology and International Journal of Molecular Sciences. Co-Guest Editor of Special Issue "Paradox Role of Oxidative stress in Cancer: state of the art" published by Antioxidants.