

Barbara Marengo

Associate Professor

EDUCATION AND TRAINING

1992

Scientific High School Diploma, S. Anna Institute, Turin

2000

Degree in Biological Sciences obtained at the University of Turin, defending an experimental thesis in General Pathology entitled "*Phosphatidylethanolamine-N-methyltransferase: a possible liver-specific prognostic factor transducing antimitogenic and apoptotic signals*". Supervisors: Prof. R. Canuto, Prof. L. Tessitore.

2004

PhD in "*Biology and Pathology of Aging*" obtained by defending a thesis entitled "*Protein Kinase C: a family of isoenzymes, modulated by the production of reactive oxygen species, capable of transducing signals important for cell survival and death*". Supervisor: Prof. Cinzia M. Domenicotti.

2012

Specialization Diploma with honors in "*Clinical Pathology*" obtained by defending a thesis entitled "*Inhibition of p38MAPK: a possible strategy to sensitize neuroblastoma cells to etoposide*". Supervisor: Prof. Cinzia Domenicotti, Co-supervisor: Prof. Maria A. Pronzato

2014

Professional Qualification as Biologist

01/08/2014

Achievement of the National Scientific Qualification for Associate Professor (II level)

08/11/2024

Achievement of the National Scientific Qualification for Full Professor (I level)

PROFESSIONAL HISTORY

2004-2012

Research and collaboration contracts with the G. Gaslini Institute and the University of Genoa.

05/07/2012 – 01/08/2017

Fixed-term Researcher, type A (scientific disciplinary sector MED/04), full-time, University of Genoa, Department of Experimental Medicine, Section of General Pathology.

[01/08/2017 – 30/06/2019](#)

Fixed-term Researcher, type A (scientific disciplinary sector MED/04), full-time, University of Genova, Department of Experimental Medicine, Section of General Pathology.

[01/07/2019 – 30/06/2022](#)

Fixed-term Researcher, type B (scientific disciplinary sector MED/04), full-time, University of Genova, Department of Experimental Medicine, Section of General Pathology.

[01/07/2022 – present](#)

Associate Professor (Professore di Seconda Fascia), MED/04 sector, School of Medical and Pharmaceutical Sciences, full-time, University of Genova, Department of Experimental Medicine, Section of General Pathology.

EXPERIENCE

MAIN SEMINARS

[22-11-1999 to 24-11-1999](#)

Speaker at the XXVII Symposium of the Italian Society of Cancerology, Milan, with the presentation: "PEMT is inactivated in rat and human liver cancer and PEMT overexpression partially reverts the neoplastic phenotype". Tessitore L. et al., Abst. in Tumori, vol. 85 suppl.1 no. 5, p. 37

[25-09-2000 to 27-09-2000](#)

Speaker at the VI Congress of the Italian Society of Basic and Applied Cell Kinetics, Rimini, with the presentation entitled: "PEMT2 expression and growth-arrest and apoptosis in MLP29 cells"

[29-01-2003 to 01-02-2003](#)

Speaker at Apoptosis 2003: From signaling pathways to therapeutic tools, Luxembourg, with the presentation: "A novel role of protein kinase C-delta in signaling triggered by glutathione depletion in neuroblastoma cells", Book of Abstracts, p. 94

[26-06-2003 to 29-06-2003](#)

Speaker at SFRR-Europe Meeting 2003: Free Radicals and Oxidative Stress: Chemistry, Biochemistry and Pathophysiological Implications, Ioannina (Greece), with the presentation: "Protein kinase-delta: an intermediate in cell signaling triggered by glutathione depletion", Book of Abstracts, p. 23

[19-09-2006 to 22-09-2006](#)

Speaker at the XXVIII National Congress of the Italian Society of Pathology, Pavia, with the presentation: "PKC-delta: a redox-sensitive kinase able to sensitize neuroblastoma cells to oxidative death", Book of Abstracts, p. 27

[14-11-2008 to 15-11-2008](#)

Speaker at the Annual Meeting of the Dianzani School, General Pathology, Siena, with the presentation: "Potential role of PKC- δ in tumor sensitivity to chemotherapy"

[26-08-2009 to 29-08-2009](#)

Speaker at SFRR-Europe Meeting 2009, Rome, with the presentation: "PKC delta: a limiting kinase in DNA oxidative damage and apoptosis in neuroblastoma cells". *Free Radical Biol Med*, vol. 43, Supplement 1, abstract OP I-8, p. S44

[02-12-2009 to 03-12-2009](#)

Speaker at SIP Meeting "Beyond the bench....preparing your career transition", Naples, with the presentation: "Oxidative stress and PKC signaling in neuroblastoma cells", *Book of Abstracts*, p. 20

[16-06-2010 to 18-06-2010](#)

Speaker at Lipid Oxidation, Human Diseases and Aging Meeting, Turin, with the presentation: "PKC-dependent redox-signaling in the chemosensitivity of neuroblastoma cells", *Book of Abstracts*, p. S28

[18-11-2011 to 19-11-2011](#)

Speaker at the Annual Meeting of the Dianzani School of General Pathology, Sassari, with the presentation: "Inhibition of the p38MAPK-dependent pathway as a combined approach to sensitize neuroblastoma cells to etoposide"

[12-09-2012 to 15-09-2012](#)

Speaker at the 1st Joint Meeting of Pathology and Laboratory Diagnostics, Udine, with the presentation: "Inhibition of p38MAPK: A Combined Strategy for Sensitizing Neuroblastoma Cells to Etoposide Through the Modulation of Pro-Inflammation Markers". *The American Journal of Pathology*, vol. 181, September 2012 Supplement, p. S17

[25-06-2014 to 27-06-2014](#)

Speaker at the Third International Conference on Cellular Environmental Stressors in Biology and Medicine: Focus on Redox Reactions, Ferrara, with the presentation: "Inflammation and oxidative balance: two key players engaged in neuroblastoma chemoresistance mechanism", *Book of Abstracts*, p. 35

[17-11-2017 to 18-11-2017](#)

Speaker at the Scientific Meeting of the Dianzani School, with the presentation: "Role of the p53-mediated pathway in determining the resistance of high-risk neuroblastoma to etoposide"

[10/10/2024 to 12/10/2024](#)

Speaker at the International Congress of the HNE CLUB entitled "*Lipid Oxidation: new biochemical insights and clinical applications*" with the presentation: "Ferroptosis: an oxidative strategy to fight neuroblastoma chemioresistance"

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

[01/01/2013 – 31/10/2014](#)

University Research Project 2012: "Modulation of signal transduction pathways as a combined strategy to sensitize neuroblastoma cells to etoposide treatment".

Research Outputs: SCOPUS 2-s2.0-84876887873; 2-s2.0-84878711134

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES



01/08/2016 – present

Manuscript reviewer upon invitation from editorial offices of the following international journals: Free Radical Biology & Medicine; PLOS One; International Journal of Cancer; International Journal of Obesity; Journal of Neurochemistry; Cancers; International Journal of Molecular Sciences; BMC Cancer; Frontiers in Oncology; Oxidative Medicine & Cellular Longevity; Scientific Reports; IUBMB Life; Molecules; Onco; Cells; Pharmaceuticals; Life; Apoptosis.

01/01/2021 – present

Associate Editor for *Frontiers in Molecular Biosciences*; Review Editor for *Frontiers in Oncology*; Guest Associate Editor, Special Issue “Redox metabolism: a double-edge sword sustaining the adaptive resistance to therapy in cancer” (*Frontiers in Oncology*); Guest Editor, Special Issue “Paradox Role of Oxidative Stress in Cancer: State of the Art” (*Antioxidants*); Topic Editor for *International Journal of Molecular Sciences*.

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

29/09/2006

Winner of a Scholarship under the EC Marie Curie Programme for participation in the 14th Euroconference on Apoptosis, Chia, Cagliari, presenting the following poster-selected abstract: “Reactive oxygen species and PKC delta: a crosstalk aimed at triggering apoptosis of MYCN amplified neuroblastoma cells”.

06/09/2012

Winner of the Young Investigator Award, ARS Award, during the 16th Biennial Meeting Society for Free Radical Research International, London, with the following poster-selected abstract: “The p38MAPK inhibition: a new combined approach to reduce neuroblastoma survival under etoposide treatment”.

12/09/2012

Young Investigator Award for the best scientific contribution presented at the XXXI Congress of the Italian Society of Pathology and Translational Medicine, Udine, with the oral presentation entitled: “Inhibition of p38MAPK: A Combined Strategy for Sensitizing Neuroblastoma Cells to Etoposide Through the Modulation of Pro-Inflammation Markers”. Abstract in *The American Journal of Pathology*, vol. 181, September 2012 Supplement, abstract NAMT12, p. S17

OTHER EXPERIENCES

08-01-2024

Member of the Organizing Committee of the XVI Scientific Meeting of the Dianzani School. Conference entitled: “2014-2024: the Dianzani School ten years later”; Genoa, 16-17 September 2024

08-01-2024

Member of the Organizing Committee of the International Congress of the HNE CLUB entitled “Lipid Oxidation: new biochemical insights and clinical applications”; Genoa, 10-12 October 2024.