



Gianluca Damonte

Associate Professor

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Education and training

1991

PhD in Biochemistry

Structural characterisation of glucose phosphate dehydrogenase purified from erythrocytes

University of Pavia and Genova - ITALY

1985

Doctor in Biological Sciences

Role of metallothioneins and lysosomes in cadmium homeostasis processes in mussel digestive gland cells - 110/110 cum laude

University of Genova - ITALY

Academic experience

2015 -

Associate Professor

University of Genova - ITALY

Head of the Biochemistry laboratory (chemical synthesis and mass spectrometry) at the CEBR - Centre of Excellence for Biomedical Research at the University of Genoa.

1999 - 2015

Assistant Professor

Università di Genova - Genova - IT

Professional experience

1997 - 1999

CNR Technologist - ex art. 23 (D.P.R. 171 12/02/1991)

National Research Council - Roma - ITALY

Scientific-technical management of the Finalised Biotechnology Project - project tester

Language skills

Italian: mother tongue

English: Good

Teaching activities

2004-2005 Teaching Professor at the Degree Course in Dentistry of the University of Genoa

2003- Teaching Professor in Medical Chemistry, Biochemistry and Biochemistry at the Imperia and Pietra Ligure Teaching Centres (Degree Course in Nursing and Physiotherapy) of the University of Genoa

2006- Teaching Professor in Structural Biology at the Degree Course in Biotechnology of the University of Genoa.

2007-2012 Teaching Professor of Biochemistry at the degree course in Biomedical Engineering, University of Genoa.

2012- Teaching Professor in Biochemistry at the degree course in Biological Sciences, University of Genoa.

2021- Teaching Professor in Instrumental Analysis at the Degree Course in Applied and Experimental Biology of the University of Genova

1999- Teaching Professor in Biochemistry I (Chemistry and Biochemistry propaedeutics) at the Degree Course in Medicine of the University of Genova

1999- Tutor and co-teacher of several Bachelor, Master and Master theses and tutor of several PhD students in Biochemistry.

Teaching and research activities in higher education

Supervision of the research activities of PhD students and research fellows

Participation in the teaching board of the PhD in Experimental Medicine - Biochemistry Curriculum - University of Genoa.

Teaching Professor at the PhD in Experimental Medicine - Biochemistry Curriculum - University of Genoa

- Research interests

- Chemical synthesis and structural characterisation of molecules of biological interest such as peptides, PNAs, and nucleotide-structured molecules with potential antiviral and antitumour activity.

- Structural study of proteins, oligonucleotides, carbohydrates and lipids using gas and liquid chromatography techniques coupled to tandem mass spectrometry.

- Study of the “in vitro” and “in vivo” stability and pharmacokinetics of pro-drugs and pharmacologically active molecules encapsulated in engineered erythrocytes used as appropriate bioreactors for the controlled and specific release of cytotoxic drugs.

- Proteomic analysis of enzymatic molecules of marine organisms by ion trap and q-TOF mass spectrometry (MS and MS/MS) techniques

- Extraction and structural characterisation of molecules with cytotoxic activity (di- and tri-terpenes) from plants and marine organisms and evaluation of their activity on experimental antiaging models “in vitro” and “in vivo”.

- Study of the functional effects and related biomolecular mechanisms of abscisic acid in various human cells and characterisation of the abscisic acid biosynthesis pathway in animal cells.

Other professional activities

01/11/2008 to date Member of the Orientation Commission of the School of Medical and Pharmaceutical Sciences of the University of Genoa.

2013/2014 to date Head for the computer system of the Degree Courses in Medicine and Surgery and Dentistry of the School of Medical and Pharmaceutical Sciences of the University of Genoa for online teaching (AulaWeb).

01/11/2015 to date Head of International Commission of the School of Medical and Pharmaceutical Sciences and Delegate for Internationalisation of the Department of Experimental Medicine of the University of Genoa

2017 to date Member of the Teaching Commission of the Degree Course in Medicine and Surgery of the University of Genoa

Since 2023 Dean of the Degree Course in Medicine and Surgery of the University of Genoa