

Curriculum vitae Carlo Santambrogio

Personal data

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Education

13/01/2011: PhD in Nanostructures and Nanotechnology (maximum score), Department of Materials Science, University of Milano-Bicocca.

13/11/2007: Master Degree in Physics (*magna cum laude*), Department of Physics “Giuseppe Occhialini”, University of Milano-Bicocca.

14/10/2004: Bachelor Degree in Physics (106/110), Department of Physics “Giuseppe Occhialini”, University of Milano-Bicocca.

Teaching Activity

2023-present: Member of the Teaching Board of the PhD Course in "Molecular and Translational Medicine" (DIMET), XXXIX cycle, University of Milano-Bicocca.

2023-present: Lecturer for the “Structural Biotechnology” course, Master Degree in Industrial Biotechnology, University of Milano-Bicocca.

2020-2022: Lecturer for the “Biochemistry Laboratory” course, Bachelor Degree in Biological Sciences, University of Milano-Bicocca.

2019: Lecturer for the “Biochemistry Laboratory” course, Master Degree in Biology, University of Milano-Bicocca.

2014-2018: Lecturer for the “Biochemistry Laboratory” course, Bachelor Degree in Biotechnology, University of Milano-Bicocca.

2008-present: Thesis supervisor for ~30 students.

Post-Doc Positions

01/11/2021-present: Assistant Professor (type B) of Applied Physics, Department of Biotechnology and Biosciences, University of Milano-Bicocca.

01/03/2019-31/10/2021: Assistant Professor (type A) of Biochemistry, Department of Biotechnology and Biosciences, University of Milano-Bicocca.

01/02/2018-31/05/2018: Research Scholarship for the Project “Tear Proteome of ALS Patients Studied by High-Resolution Mass Spectrometry”, University of Milano-Bicocca.

01/01/2014-31/12/2017: Research Fellowship for the Project “Aggregation Mechanisms of Amyloid Proteins Related to Human Pathologies”, University of Milano-Bicocca.

01/07/2012-30/06/2013: Research Fellowship for the Project “Role of Lpt-Proteins in the Lipopolysaccharide Transport”, University of Milano-Bicocca.

01/03/2011-29/02/2012: Research Fellowship for the Project “Lipase Engineering for the Optimization of Trans-Esterification Reactions”, University of Milano-Bicocca.

Research Experiences Abroad

09-10/2017: Top-down and middle-down proteomics for the analysis of PTMs and covalent labeling, Barcelona, Spain (supervisor: Dr. Marta Vilaseca).

09-11/2010, 06/2012, 06/2016: Separation by ion mobility – mass spectrometry of protein conformers and oligomers, Antwerp, Belgium (supervisor: Professor Frank Sobott).

Principal Scientific Interests

The research activity of Carlo Santambrogio has been focused on the study of protein folding and binding, with the characterization of dynamic and heterogeneous structural ensembles (intrinsically disordered proteins, IDPs; amyloid proteins, etc.) for the identification and quantification of distinct conformers and the obtainment of structural parameters (*e.g.* solvent-accessible surface area) for computational modeling. The principal experimental methods employed are Mass Spectrometry, Fluorescence Spectroscopy and Circular Dichroism. Additional research lines: Protein Electrospray Mechanism; Multiple PTMs analysis; Metal Nanoclusters.

Main Scientific Collaborators

International: Paolo Carloni (Juelich Research Center, Germany); Sonia Longhi (CNRS Marseille, France); Frank Sobott (University of Leeds, UK); Vladimir Uversky (University of South Florida, FL); Salvador Ventura (Autonomous University of Barcelona, Spain).

National: Michael Assfalg (University of Verona); Alberto Barbiroli (University of Milan); Graziella Cappelletti (University of Milan); Sara Fortuna (University of Udine); Yves Galante (CNR Milan); Fabio Moda (Istituto Besta, Milan); Pier Luigi Mauri (CNR Milan); Stefano Ricagno (University of Milan); Franco Tagliaro (University of Verona); Barbara Zambelli (University of Bologna).

Milano-Bicocca: Stefania Brocca, Laura Cipolla, Luca De Gioia, Marina Lotti, Francesco Peri, Alessandra Polissi, Davide Prospero, Antonino Natalello, Paolo Tortora (Dipartimento di Biotecnologie e Bioscienze); Sergio Brovelli, Franca Morazzoni, Roberto Scotti, Silvia Tavazzi (Dipartimento di Scienza dei Materiali); Anna Brajkovic (Dipartimento di Scienze Ambientali e Scienze della Terra); Francesco Mantegazza, Domenico Salerno (Dipartimento di Medicina e Chirurgia).

Research Activity

55 papers on international, peer-reviewed journals (10 first author; 8 corresponding author)

2 book chapters

Citations: 938 (Scopus); 1252 (Scholar)

H-index: 19 (Scopus); 23 (Scholar)

Meetings and Symposia

11 oral communications at national and international conferences

7 posters at national and international conferences

Editorial Activity

2021-present: Member of the Editorial Board of Biomedicines (MDPI)

2016-present: 27 Peer-reviews for: Scientific Reports (Nature); Journal of Food Biochemistry (Wiley); Molecular Medicine (Feinstein Institute for Medical Research); BioTechniques (Future Science Group); Journal of Neurochemistry (Wiley); Viruses (MDPI); Biomolecules (MDPI); Membranes (MDPI); International Journal of Molecular Sciences (MDPI); Proteomes (MDPI).