

Laura Pastorino

Associate professor

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Education and training

2003

PhD in Biophysics

Nanobiocatalytic processes and their environmental applications
University of Genoa - Genoa - IT

1999

Laurea Degree in Chemical Engineering

Development of immobilization techniques for penicillin G acylase for the production of antibiotics
University of Genoa - Genoa - IT

Academic experience

2016 - ONGOING

Researcher (type B)

University of Genoa - Genoa - IT

2014 - 2016

Researcher (type A)

University of Genoa - Genoa - IT

2003 - 2014

Post-doctoral fellow

University of Genoa - Genoa - IT

2001

Adjunct faculty member

Louisiana Tech University - Ruston - US

Research interests

My interests are mainly in tissue engineering and nanomedicine. At the beginning of my career I had the opportunity to deepen my knowledge in the field of biophysics applied to the fabrication of biomolecular nanostructures for sensors and pharmaceuticals. In particular, during my study period at Louisiana Tech University, I approached the self-assembly technique for the design and fabrication of intelligent systems for the diagnosis and for the controlled release of drugs.

These issues are still the subject of my research. This knowledge has been then applied to the field of tissue engineering, in particular for the development of in vitro models for the study of pathophysiological processes and for the regeneration of tissues. Moreover, I am also actively involved in the study of molecular interactions between cell membrane models and pharmacologically active molecules using synchrotron light (European Synchrotron Radiation Facility) in collaboration with the IMEM institute of the CNR and with Kazan federal University.