

MARINA LOTTI – Curriculum vitae

PERSONAL INFORMATION

Name: MARINA LOTTI

Research Unique Identifier: ORCID 0000-0001-5419-7572

Date of Birth: 21/7/1957

Nationality: Italian

Web site: <https://www.unimib.it/marina-lotti>

EDUCATION

1980: Degree in Biological Sciences, State University of Milano, magna cum laude (Supervisors Proff. F.M. Gerola and M.A. Favali)

1985: PhD in Natural Sciences (Doktor in Naturwissenschaften), Max-Planck-Institut fuer Molekulare Genetik, Berlin, Germany (Supervisors Proff. M- Stoeffler-Meilicke e R. Lochmann). Magna cum laude (ausgezeichnet)

CURRENT POSITION

2006-present: Full Professor of Biochemistry (BIO10), Dept of Biotechnology and Biosciences, State University of Milano Bicocca

PREVIOUS POSITIONS

2000-2006: Associate Professor of Biochemistry, Dept. of Biotechnology and Biosciences, State University of Milano Bicocca

1990-2000: Research Associate, University of Milano and State University of Milano Bicocca

1985-1989: Research Associate, Italian National Research Council

1982-1985: Fellow of the Max-Planck-Institut fuer Molekulare Genetik, Germany

INSTITUTIONAL RESPONSABILITIES

From Jan 2022: Member of the University Board

2018-2021: Head of the Department of Biotechnology and Biosciences

2018-2021: Member of the Academic Senate of the University of Milano-Bicocca

2014-2018: Member of the University Board for the Quality of Research

2008-2015: Head of the Department of Biotechnology and Biosciences

Member of the Board of the PhD course in Converging Technologies for Biomolecular Systems

SCIENTIFIC SOCIETIES

2019-Present: Member of the Board of the Biocatalysis Division. European Federation of Biotechnology

Member of the Italian Society of Biochemistry and Molecular Biology

COMMISSIONS OF TRUST

Grant reviewer: MIUR, Icelandic Research Fund, Land Nord Rhein Westphalen (Germany), Research Foundation Flanders – FWO (Belgium) Estonian Research Council, College of Expert Reviewers of the European Science Foundation; Estonian Research Council; Austrian Science Fund

APPOINTMENTS IN EDITORIAL BOARDS

Applied and Environmental Microbiology, ASM (2022)

ACTIVITY AS A REVIEWER for major publishers in the field

RESEARCH

Major research topics concern the study of enzymes employed in biocatalysis, model proteins and intrinsically disordered proteins (IDPs) by a combined approach of mutagenesis (both directed evolution and site directed mutagenesis) and biochemical and biophysical characterization. Physiological and molecular adaptation of microorganisms to extreme environments is a very relevant issue. In this frame, cold adapted

enzymes are studied both to understand the structural determinants of temperature adaptation and to develop low temperature transformation processes at the aims to save energy and to preserve labile compounds. Ice-binding proteins from Antarctic organisms are studied with the goal of gaining insight into the detail of protein-ice crystals interactions and to use this knowledge for cryopreservation purposes. Protein aggregation *in vitro* and *in vivo* is studied with a special focus on the formation of inclusion bodies formed upon overproduction of recombinant proteins in bacterial hosts. Moreover, novel biocatalysts are isolated from non-commercial sources or produced by protein engineering.

TEACHING

Biochemistry II year Biotechnology; Industrial Biochemistry, I year of the Master Course in Industrial Biotechnology

MASTER AND POST-GRADUATE EDUCATION

2017-2018: Coordinator for UNIMIB of the Master Biocirce (Bioeconomy in The Circular Economy)

2014- Present: Co-chair of the International School on Industrial Biotechnology (ESSIB

<http://www.essib.eu/>).

2017-2018: Co-organizer of the Summer School "Towards a bio-based economy: Science, Innovation, Economics, Education"