

Eloise Mastrangelo

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<http://users.unimi.it/biolstru/ibf-cnr-lab.html>

Research staff (group leader, currently responsible for a team of 15 people) at the National Research Council (CNR)-Biophysics Institute, Milano (Italy). First tasks are the protein expression and purification, the chemical-physical characterization of recombinant proteins, structural characterization, drug design and discovery. My main interests are:

ACTUAL POSITION

- the comprehensive characterization and inhibition (with small molecules) of the RNA viruses replicative machinery through the structural and functional studies of the viral replication proteins. Such interests have been enriched by several experiences in different European labs: in the lab of Architecture et Fonction des Macromolécules Biologiques, Marseille, France; in the lab of Structural Biology at EMBL, Hamburg; in the lab of Molecular Virology, in Leiden, The Netherlands; at the Université Paris-Sud and SOLEIL, Paris.
- the study of the processes involved in various apoptotic pathways, through the analysis of the 3D structures of the proteins involved in the pathway, with the aim to design pro-apoptotic molecules for cancer therapy.

Funding:

- ARISLA (2020-2023). Grant “Therapeutic effects of retromer stabilization in Amyotrophic Lateral Sclerosis”. Scientific team member
- Telethon (2017-2021) Grant nr: GGP16010. Scientific team member
- AIRC-MFAG (2016-2020). Grant nr: 17083. PI of the project
- SIR-MIUR (2015-2018). Grant nr: RBSI14C78S. PI of the project
- FIRB-MIUR (2014-2017). Grant nr: RBFR1309E. Scientific team member
- FP7: SILVER (2010-2014). Grant nr: 260644. Scientific team member
- FP6: VIZIER (2005-2009). Grant nr: 511960. Scientific team member

WORK EXPERIENCE

- 2003-2005 Scientist in Sienabiotech S.p.A. (Siena). Alzheimer's disease field, for the identification and analysis of proteins whose phosphorylation status is altered from amyloid-beta exposure, using 2D-PAGE, 2D immunoblot and Mass Spectrometry approaches (MALDI-Tof , ESI-MS).
- 2001-2003 Fellowship for a researcher-training course in oncology within the “National Program of Oncology Research” at AlfaWasserman (Bologna). Development of vehicle and release systems of anticancer drugs
- 2000-2001 Yearly collaboration with “Società Prodotti Antibiotici” at the University of Florence, for the chemical synthesis of products related to the ‘Study of mechanism of action of alendronate and clodronate on cellular system’ in the osteoporosis field.

EDUCATION AND TRAINING

2006-2009 PhD in Molecular and Cellular Biology at the Department of Biomolecular Sciences and Biotechnology, Univ of Milano (Italy)
 PhD thesis title: “*Structural and functional characterization of flaviviral NS3 and NS5 proteins: identification of new drug targets*”

1993-1999 Degree in Chemistry, Department of Chemistry, University of Florence (Italy). Final mark: 110/110 cum laude.
 Title of thesis: “*Synthesis of glycosilated peptides to investigate the role of the glycosil moiety in autoantibody recognition in Multiple Sclerosis Disease*”

ADDITIONAL INFORMATION

Publications 3 patents and 61 publications (14 as first author, 10 as corresponding author. H-index: 23 [http://www.ncbi.nlm.nih.gov/pubmed/?term=mastrangelo+e\[Author\]](http://www.ncbi.nlm.nih.gov/pubmed/?term=mastrangelo+e[Author]))

Awards

- Feb 2014, Highlighted Article. Antiviral Research, Volume 102, February 2014, Pages 23–28
- May 2011, Poster prize at 24th ICAR (International Conference on Antiviral Research) - Sofia, Bulgaria. Targeting the flavivirus helicase.
- 2001-2003. Fellowship Award from FOundation for Research on the Migration and Integration of Technologies (FORMIT) for the “National Program of Oncology Research”.

Main congress communications More than 30 oral presentations or poster communications to national and international Congresses

Supervision of students and post-doctoral fellows Supervision of:

- Dozens master’s degree students in Biology or Biotechnology, at the University of Milano (Italy)
- 5 PhD students in Molecular and cellular Biology, Department of Biosciences, at the University of Milano (Italy)
- Several post-docs at CNR-IBF, section of Milano (Italy)

Teaching activities

- Adjunct professor from 2006 to 2009 for the "Course of recombinant DNA technology lab" for the degree in Biotechnology, University of Milano (Italy)
- Dozens of seminars and invited lectures.

Major collaborations

- International Centre for Genetic Engineering and Biotechnology, Trieste
- Laboratory of Molecular Virology and Antiviral Research, Dept. of Clinical and Biological Sciences, University of Turin
- Katholieke Universiteit Leuven: Laboratory of Virology, Leuven, Belgium
- Global Phasing Ltd., Cambridge, UK
- Institut de Biochimie et Biophysique Moléculaire et Cellulaire. - Université Paris Sud 11

Review activity Peer review: <https://publons.com/researcher/3851731/eloise-mastrangelo/peer-review/>
 Review Editor on the Editorial Board of Structural Biology (specialty section of Frontiers in Molecular Biosciences and Frontiers in Cell and Developmental Biology)