

Alessandro Verrecchia



Research Assistant

PERSONAL INFO

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research.ieo.it/alessandro-verrecchia

List of publications:

<https://www.scopus.com/authid/detail.uri?authorId=20636262100>

SKILLS AND TECHNIQUES

- Gene Cloning
Gibson Assembly, Gateway Cloning, PiggyBac Transposon
- Site Directed Mutagenesis
- Retro- and lentiviral vectors infections
- Genome wide shRNAs screening
- CRISPR/Cas9 technology:
Gene knockout, tagging, mutation
CRISPRa, CRISPRi
- shRNAs libraries for Illumina sequencing
- RNA expression analysis
- Quantitative PCR
- ChIP, HiChIP
- Cell culture techniques
- Basic FACS analysis
- Cell sorting
- Western Blot analysis
- Lab management
- Specific software skills:
Evernote, FileMakerPro - Lab Management
SnapGene, Geneious – Molecular Biology

With a Master's Degree in Pharmacy (1988) and a Postgraduate Qualification in Experimental Endocrinology (1991) from the University of Milano, I have built my career in advanced molecular biology and genetics. My research journey began at DiBit, San Raffaele Hospital, in Claudio Bordignon's Gene Therapy laboratory and subsequently at the Telethon Institute of Gene Therapy (TIGET), where I worked on gene transfer in human and mouse cells using retroviral and lentiviral vectors. In 2004, I advanced my expertise in molecular and cellular biology at Bruno Amati's laboratory at the European Institute of Oncology (IEO), where I led implementation and design of CRISPR-Cas9-based technologies.

In 2024, I transitioned to the laboratory of Molecular Mechanisms of Cancer and Aging under P.G. Pelicci, focusing on the study of promoter and enhancer interactions, utilizing state-of-the-art techniques such as CRISPR, ChIP, and HiChIP to unravel complex gene regulatory networks.

During the SARS-CoV-2 pandemic, I contributed to molecular diagnostic efforts by analyzing nasopharyngeal swab specimens, leveraging automated liquid handling systems (Microlab STARlet, Hamilton) and King Fisher (ThermoFisher) platforms to ensure high-throughput RNA extraction and precise RT-PCR testing.

CURRENT POSITION

- From 2024 Research Technician / Research Assistant,
Molecular Mechanisms of Cancer and Aging (Prof. P.G. Pelicci)
European Institute of Oncology-IEO, Milan, Italy
- 2004-2023 Research Technician / Research Assistant,
Oncogenes, transcription and cancer (Dr. Bruno Amati)
European Institute of Oncology-IEO, Milan, Italy

ACADEMIC QUALIFICATIONS

- 1991 **Post-graduated in Experimental Endocrinology,**
Facoltà di Farmacia, Università Statale di Milano, Italy
- 1988 **Graduated in Pharmacy,**
Facoltà di Farmacia, Università Statale di Milano, Italy

PROFESSIONAL AND RESEARCH EXPERIENCES

- 2002-2003 **Molmed spa** (Biotech company)
San Raffaele Hospital, Milan, Italy
Research Technician
- 1999-2002 **Genera spa** (Biotech company)
San Raffaele Hospital, Milan, Italy
Research Technician
- 1996-1999 **T.I.G.E.T** (Telethon Institute for Gene Therapy)
San Raffaele Hospital, Milan, Italy
Research Technician
- 1992-1996 **Experimental Hematology and Gene Therapy Lab**
San Raffaele Hospital, Milan, Italy
Fellow
- 1989-1992 **Experimental Toxicology Lab**
Istituto Mario Negri, Milan, Italy
Fellow

SELECTED COURSES AND MEETINGS

- 5-7th February 2020 **Introduction to Python programming**
Course held by CINECA, Milan
- 3-4th May 2016 **Revolutionary Science Day**
"CRISPR connects your next discovery"
Geneva, Switzerland
- 14-17th November 2012 **Targeted Genome Editing Using Zinc Finger Nucleases**
EMBL, Advanced Training Center
Heidelberg, Germany