

**EDUCATION**


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<b>Ph.D.</b> in Genetics and Molecular Biology, Sapienza University of Rome, Rome, Italy	2014
Supervisor Prof Patrizio Dimitri, thesis: <i>Functional studies on the evolutionary conserved Bucentaur (BCNT) protein family</i>	
<b>Laurea Magistrale</b> (equivalent MRes) in Biomolecular Sciences, University of Turin, Turin, Italy	2010
Supervisor Dr Alessandra Fiorio Pla, thesis: <i>PKA mediates the release of nitrogen monoxide and Ca<sup>++</sup> signals induced by arachidonic acid in tumour endothelial cells</i>	
<b>Laurea Triennale</b> (equivalent BSc) in Biological Sciences, University of Catania, Catania, Italy	2007
Supervisor Prof Angela Messina, thesis: <i>Expression of human VDAC3 mitochondrial porin as photo-switchable fusion protein</i>	

**POSTS HELD**


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<b>Research Associate</b> , Department of BBCD, Sapienza University of Rome	Apr 2020 – present
<b>Research Fellow</b> , Pasteur Institute, Sapienza University of Rome	Apr 2018 – Mar 2020
<b>Research Associate</b> , Institute of Molecular Life Sciences, University of Zurich	Mar 2017 - Mar 2018
<b>Research Associate</b> , Pasteur Institute, Sapienza University of Rome	Nov 2016 – Feb 2017
<b>Research Associate</b> , Department of Biochemistry, University of Liverpool	Jan – Oct 2016
<b>Postdoctoral Fellow</b> , Pasteur Institute, Sapienza University of Rome	Mar 2014 – Dec 2015

**RESEARCH APPOINTMENTS**


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<b>Research Associate</b> , Department of Pathology, University of Cambridge	July – Dec 2014
<b>PhD Fellow</b> , Spanish National Cancer Research Centre (CNIO), Madrid, Spain	May – Sep 2012

**PERSONAL DISTINCTIONS****HONOURS and AWARDS**


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<b>Pasteur Institute, Italy</b> – ‘Teresa Ariaudo 2018’ Grant	Apr 2018– Mar 2020
<b>ABCD</b> – Pre-Congress Travel Grant 2019	September 2019
<b>Pasteur Institute, Italy</b> – Post-Doctoral Fellowship	Apr – Dec 2015
<b>Pasteur Institute, Italy</b> – ‘Teresa Ariaudo’ Post-Doctoral Fellowship	Apr 2014 – Mar 2015
<b>Company of Biologists</b> – Travelling Fellowship	July 2014
<b>Pasteur Institute of Rome</b> – Research Fellowship	Nov 2013 – Mar 2014
<b>MIUR</b> – PhD Studentship	Nov 2010 – Oct 2013
<b>University of Turin</b> – Collaboration Scholarship	Jan – May 2009

**TALKS/POSTERS at CONFERENCES and SYMPOSIA**

ABCD Congress, Bologne (BO), Italy	2019
14 <sup>th</sup> International Conference on Drosophila Heterochromatin. Spoleto, Italy	2019
AGI-SIMAG Congress, Cortona (AR), Italy	2019
XIX Italian Drosophila Research Conference, Padua, Italy	2018
National Congress of the Italian Genetics Association (AGI). Cortona, Italy	2013
11 <sup>th</sup> International Conference on Drosophila Heterochromatin. Lecce, Italy	2013
XVI Italian Drosophila Congress. Palermo, Italy	2012
10 <sup>th</sup> International Conference on Drosophila Heterochromatin. Gubbio, Italy	2011

**COURSE ATTENDANCE**

Course in Cytogenetics and molecular Cytogenomics, Cortona Genetics School, Cortona (AR), Italy	2018
Course in Proteomics, CEINGE, Naples (NA), Italy	2020

**TEACHING EXPERIENCE**

<b>Sapienza University of Rome</b> – Subject Expert (Genetics)	Apr 2018 – present
<b>Sapienza University of Rome</b> – ‘Genetics’ and ‘Structural and Functional Genomics of Animal Systems’ - Co-Examiner and Demonstrator	Apr 2018 – present
<b>University of Zurich</b> – ‘Developmental Biology’ course laboratory Demonstrator	Mar 2017 – March 2018
<b>Sapienza University of Rome</b> – ‘Genetics’ course laboratory Demonstrator	Jan 2011 – Dec 2015
<b>Sapienza University of Rome</b> – ‘Genetics’ and ‘Structural and Functional Genomics of Animal Systems’ - Co-Examiner and Demonstrator	Jan 2011 – Dec 2015
<b>University of Turin</b> – ‘Biochemistry’ course laboratory Demonstrator	Jan – May 2009

**KNOWLEDGE EXCHANGE ACTIVITIES**

<b>Sapienza University of Rome/High school “T. Tasso”, Rome</b> – Research Trainer	Jan – Oct 2015
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**INDUSTRIAL COLLABORATIONS**

I am in charge as Technical Manager for the project titled “*Develop of a biotechnology platform for the generation of Fc(IgG)-fusion therapeutic peptides*” in collaboration with **Special Product’s Line S.p.A.**

**MENTORING AND SUPERVISION****As co-supervisor (since 2012)**

Yuri Prozzillo, *PhD students*; Maria Teresa Atterrato, Stefano Cuticone, Diego Ferreri, Gaia Fattorini, Maria Virginia Santopietro, Simone Salemme, Greta Bizzochi, Sofia Marchetta, Mario Loria, *MRes students*; Clelianna Giannicola, Daniele Testa, Chiara De Gregorio, Isabella Assante, Luigi Angelucci, Claudia Spagnoli, Lorenzo Aloise, Aurora Bonesi, Francesca Pico *Bachelor’s student*.

**REFEREE and EDITORIAL BOARD SERVICES**

<b>Associate Editor</b> for <i>European Journal of Medicinal Chemistry</i>	Dec 2020 – present
<b>Guest Editor</b> for <i>MDPI Journals</i>	Mar 2020 – present
<b>Associate Editor</b> for <i>Frontiers in Genetics</i> and <i>Frontiers in Cell and Developmental Biology</i>	Aug 2019 – present
<b>Editor</b> for <i>PlosONE</i>	Oct 2018 – present
Manuscript <b>reviewer</b> for <i>Journal of Cell Science</i> , <i>Open Journal of Genetics</i> , <i>American Journal of Molecular Biology</i> , <i>Cellular &amp; Molecular Biology Letters (BMC)</i>	Apr 2017 – present
Guest <b>Editor</b> for <i>American Journal of Molecular Biology</i>	Apr 2017

**PROFESSIONAL SOCIETY MEMBERSHIPS**

Italian Proteomics Association (ItPA)	since 2019
Associazione di Biologia Cellulare e del Differenziamento (ABCD)	since 2019
International Association for Italian Researchers (AIRI)	since 2014
Italian Society of Biochemistry (SIB)	since 2014

## RESEARCH SKILLS

**Cell Culture** – Mammalian cell culturing, passaging and transfection (DNA plasmids and small interfering RNAs) to manipulate or silence specific genes in mammalian cells – Cell cycle synchronization and midbodies isolation

**Molecular Biology** – Isolation and analysis of bacterial, mammalian and drosophila tissue DNA, RNA and proteins – Bacterial transformation – DNA cloning using conventional restriction enzymes or gateway system – Restriction mapping and electrophoresis analysis of DNA through agarose gel – Genome editing by CRISPR/Cas9 tool – Amplification of DNA fragment by PCR and purification – Production of Lentiviral particles

**Biochemistry** – Preparation of protein extracts from whole cells and chromatin fractionated samples – *In vitro* protein translation – Protein expression and purification from bacteria – SDS-PAGE and Western Blotting – Protein Immunoprecipitation – Chromatin Immunoprecipitation – Tissue-specific protein expression/degradation by using UAS-Gal4 drivers and deGradFP/AiD technologies in *Drosophila melanogaster*

**Cytology and Microscopy** – Immunofluorescence staining of fixed cells (human and *Drosophila*) and organs (*Drosophila*), polytene and mitotic chromosomes (*Drosophila*) – FISH analysis of both polytene and mitotic chromosomes – Analysis of fixed samples under Fluorescence and Contrast – Analysis of *in vivo* cell line/tissues by time-lapse microscopy

**Microscopes** – Nikon Eclipse 50i – Nikon Eclipse 90i – Nikon Eclipse Ti – Leica DM6000 – Zeiss Axiovert 200 – Zeiss AxioObserver Z.1 – Zeiss LSM710 – Zeiss LSM780 – Zeiss LightSheet Z.1 – Olympus 3i SDC

**Drosophila genetics** – Expert handling and maintaining of *Drosophila melanogaster* stocks – classical *Drosophila* genetics and design of genetic crosses – DNA plasmid Injection in *Drosophila* embryos

**Bioinformatics** – BLAST – ViroBLAST – ClustalW – ROBETTA – Phyre2 – Hhpred

**Computing** – Photoshop – ImageJ/Fiji – Imaris – OMERO – Image Lab (Biorad) – NIS Elements (Nikon) – Leica and Zeiss (ZEN) imaging softwares – VisiView – Annhyb – SeqBuilder – SeqMan – FileMaker PRO – CLC Main Workbench – EndNote – GraphPad

**Language** – Italian (Mother Tongue) – English (Fluent) – Spanish (Basic Level)

**Writing** – Preparation of grant applications and paper publications

## FUNDING

Date	Funder	Title	Role	Value (€)
2021-2022	Special Product's Line	<i>Develop of a biotechnology platform for the generation of Fc(IgG)-fusion therapeutic peptides</i>	Principal Investigator	22.000
2021-2022	Sapienza University of Rome	<i>Crosstalk between KAT5 acetyltransferase and cytokinesis regulators in preventing cell division failure and genetic instability</i>	Principal Investigator	2.400
2018 – 2020	Pasteur Institute	<i>Unmasking the encrypted role of dTip60 chromatin remodeling complex in cell division</i>	Principal Investigator	60.000

I gave my contribution to the preparation of the following successful Grant application:

Date	Funder	Title	Role	Value (€)
2019 - 2022	Miur – PRIN 2017	<i>Microtubule and centrosome dynamics, from Omics to neurodevelopmental disorders of Central Nervous System</i>	Collaborator	1.093.864,12
2015 – 2017	Pasteur Institute	<i>Role of ATP-dependent chromatin remodeling complexes in midbody formation and cytokinesis</i>	Collaborator	60.000,00
2015 – 2016	Sapienza University of Rome	<i>Evolutionary and functional study of genes involved in craniofacial development in humans</i>	Collaborator	10.000,00
2012 – 2014	Rome Foundation	<i>Drosophila melanogaster as model organism to study the human protein CFDP1 and its involvement in craniofacial diseases</i>	Collaborator	30.000,00

2012 – 2014	Sapienza University of Rome	<i>The Cfdp1 gene and craniofacial development: from genetics to clinics</i>	Collaborator	50.000,00
2010 – 2013	Pasteur Institute	<i>Functional analysis of CG40218, a Drosophila melanogaster gene encoding a BCNT-like protein required for chromosome organization</i>	Collaborator	60.000,00

## **BILIOMETRICS**

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**H-index: 7** (Scopus)

**Citations: 281** (Scopus)

*"Autorizzo la pubblicazione del mio curriculum vitae e il trattamento dei dati personali in esso contenuti in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16"*