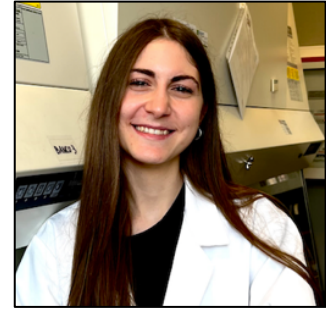


CURRICULUM VITAE  
MARILISA CONENNA



**PERSONAL INFORMATION**

Name:	Conenna, Marilisa
Date and place of birth:	10/10/1996, Ceglie Messapica (BR, Italy)
Nationality:	Italian
Address:	Via Ravenna 15, Ostuni (BR)
Work address:	Laboratory of Molecular Oncology, Department of Molecular Medicine, Viale Regina Elena 291, 00161, Rome, Italy
Telephone:	+39 3665403709; +1 (929) 248-7219
Mail address:	<a href="mailto:marilisa.conenna@uniroma1.it">marilisa.conenna@uniroma1.it</a> ; mc5445@cumc.columbia.edu

**WORK EXPERIENCE**

Dates (from-to):	<b>FROM 03/2023-Present</b>
Name and address of employer:	Columbia University of New York, USA; Department of Pathology and Cell Biology, 630 W 168th St, New York, NY 10032
Type of business or sector:	Molecular Oncology
Occupation or position held:	Visiting Ph.D. student in the laboratory of Prof Francesca Bartolini
Main activities and responsibilities:	Cell biology and molecular biology

Dates (from-to):	<b>FROM 11/2020-ONGOING (END DATE 05/2024)</b>
Name and address of employer:	Sapienza University of Rome; Laboratory of Molecular Oncology, Department of Molecular Medicine, Viale Regina Elena 291, 00161, Rome, Italy
Type of business or sector:	Molecular Oncology
Occupation or position held:	Ph.D. student in Molecular Medicine
Main activities and responsibilities:	Cell biology and molecular biology

## **EDUCATION**

Dates (from-to):	<b>FROM 11/2020-ONGOING (END DATE 05/2024)</b>
Name and type of organization providing education and training:	Sapienza University of Rome; Laboratory of Molecular Oncology, Department of Molecular Medicine
Occupation or position held:	Ph.D. student in Molecular Medicine
Principal subjects/occupational skills covered:	<p>The ongoing Ph.D. project, named “Defining the role of the cytoskeleton regulator inverted formin 2 (INF2) in Hedgehog-dependent medulloblastoma” aims to study the INF2 function and cytoskeleton remodelling in hedgehog signaling pathway. In order to understand how INF2 function in controlling actin polymerization, microtubule dynamics and mitochondrial fission could impact on the regulation of hedgehog signaling, this project aims to analyze the cytoskeleton and mitochondria dynamics following modulation of INF2 expression in Hedgehog-dependent cells. The final aim of the project is to identify new effective therapeutic targets to for the treatment of medulloblastoma. We expect our efforts to pave the way to a novel area of investigation in HH signaling.</p> <p>The project is being carried out with different models (cell lines, primary cells and mouse and human brain tissues) and techniques (cell biology, molecular biology).</p>

This project is being carried out under the supervision of Prof. Lucia Di Marcotullio and Prof. Paola Infante, Sapienza University, in collaboration with Prof. Francesca Bartolini, Columbia University.

Dates (from-to):

**FROM 10/2018-07/2020**

Name and type of organization providing education and training:

Sapienza University of Rome

Principal subjects/occupational skills covered:

cell biology, molecular biology

Master's degree project named "The role of the RNA-binding ubiquitin Ligase MEX3A in the degradation of oncosuppressor RIG-I: a new molecular mechanism involved in Glioblastoma tumorigenesis". Immunoblot analysis, immunoprecipitation, in vivo ubiquitylation assay, cell proliferation assay, mRNA expression analysis, immunohistochemistry and in vitro wound healing assay were used on cell models.

Title of qualification awarded:

Master's degree in Genetic and molecular biology (LM-6, D.M 2017), Vote 110/110 summa cum laude.

Dates (from-to):

**FROM 10/2015-10/2018**

Name and type of organization providing education and training:

Sapienza University of Rome

Principal subjects/occupational skills covered:

General competences on Biology, Cytology, Histology, Physics and Chemistry, Comparative Anatomy, Informatics, Botany, Zoology, Mathematics, Organic Chemistry, Microbiology, Molecular Biology, Ecology, Virology, Genetics, Forensic Genetics, Animal and Plant Physiology, Pharmacology, Biochemistry, and Genomics.

Thesis project "Study of intracellular trafficking of misfolded and retained proteins in the endoplasmatic reticulum"

Title of qualification awarded:

Bachelor's degree in Biological sciences (L-13, D.M. 270/2010), Vote 106/110

## **TRAINING**

Dates (from-to):

**FROM 05/2019-07/2020**

Name and type of organization  
providing education and training:

Sapienza University of Rome, Laboratory of Molecular  
Oncology, Department of Molecular Medicine

Dates (from-to):

**FROM 03/2018-06/2018**

Name and type of organization  
providing education and training:

Sapienza University of Rome, Department of Biology and  
Biotechnology Charles Darwin

## **CONGRESS PARTECIPATION**

Dates:

**12/2021**

Name:

**-Poster presentation**

MOLECULAR PATHOLOGY: FROM BENCH TO BEDSIDE-  
SIPMeT Young Scientist Meeting, Perugia (Italy)

Dates:

**09/2022**

Name:

**-Poster presentation**

MOLECULAR PATHOLOGY: FROM BENCH TO BEDSIDE-  
SIPMeT Young Scientist Meeting, Ancona (Italy)

Dates:

**09/2022**

Name:

**-Poster presentation and Chairwoman**

5<sup>th</sup> Brain Storming Research Assembly For Young  
Neuroscientists (BraYn), Roma (Italy)

Date:

**12/2023**

Name:

The Cell Bio 2023 (ASCB | EMBO Meeting)  
Boston (MA, USA)

## CERTIFICATIONS:

Address and names

**Columbia University, New York USA**

**TC0550:** CUMC Rodent Barrier Training.

**TC0800:** The Mouse and Rat: Computer Based Training.

**TC0900:** Introduction to the Institute of Comparative Medicine

**TC2750:** Rodent Anesthesia and Analgesia: Computer Based Training.

**TC1200:** Mouse Wetlab

## PERSONAL SKILLS AND COMPETENCES

Mother tongue:

Italian

Other languages:

English (IELTS, Europass Level B1)

Social skills and competences:

Good communication skills, acquired during the studies in Italy and good ability to work in team, in international groups and in multidisciplinary projects.

Organizational skills and competences:

Good organizational skills acquired during the studies in Italy and during my Ph.D. activity: good autonomy, ability to plan and organize projects. High predisposition to team work and multidisciplinary project organization. High flexibility and adaptability.

Technical skills and competences:

**Data analysis:** Adobe Photoshop, Image J, Image Lab, GraphPad. Use of various DataBases and tools: NCBI, PDB, BLAST, Serial cloner 2-6, GenScript, OncoMX, Uniprot, Biorender, STRING.

**Cell culture:** Primary cells (murine medulloblastoma cells, mouse DRG neurons), immortalized murine and human cell lines.

**Immunofluorescence and histology:** Tissue preparation of histological samples: fixation, freezing, immunofluorescence. Cell preparation for immunofluorescence: fixation and permeabilization.

**Molecular Biology techniques:** Plasmidic and genomic DNA extraction, DNA mutagenesis, cloning, RNA extraction, reverse transcription, PCR, quantitative real time PCR, ubiquitination assays, gel electrophoresis, luciferase report assays.

**Analysis of proteins:** Protein extraction and western blot analysis, protein post-translational modifications analysis; *in vivo* and *in vitro* immunoprecipitation, ELISA.

**Cellular biology:** DNA and siRNA transfection, cell treatments, BrdU and EDU assay, production and use of lentiviral vectors.

**Animal (scientific procedures):** manipulation of mice and mice's brain tissues.  
Isolation and primary neuronal culture dorsal root ganglia from adult mice. Intra-peritoneal/retroorbital/subcutaneous injections, tail cutting, toe clipping.

## **HONORS & AWARDS:**

Dates (From-to)

**2016-2017**

Name:

“Laziodisco” scholarship

Dates (From-to)

**2017-2018**

Name:

“Laziodisco” scholarship

Dates (From-to)

**2018-2019**

Name:

“Laziodisco” scholarship

Dates (From-to)

**2019-2020**

Name:

“Laziodisco” scholarship

Dates (From-to)

**2019-2020**

Name:

Graduation prize

Dates (From-to)

**03/2023-08/2023**

Name:

**Fellowship** “Bando per il finanziamento di progetti di ricerca congiunti e individuali per la mobilità all'estero di studenti di dottorato del XXXVI e XXXVII ciclo.

Dates (From-to)

03/2023- 05/2024

Name:

Residenze Universitarie "College Italia" - Manhattan, 225  
Rector Place - Battery Park - New York

### **SELECTED PUBLICATIONS:**

-Deborah Quaglio, Paola Infante, Silvia Cammarone, Lara Lamelza, **Marilisa Conenna**, Francesca Ghirga, Gennaro Adabbo, Luca Pisano, Lucia Di Marcotullio, Bruno Botta, Mattia Mori. Exploring anthraquinone-based hybrids for the identification of a novel generation of SMO antagonists, 2023, *A European Journal*

- Lucia Di Marcotullio, Ludovica Lospinoso Severini, Elena Loricchio, Shirin Navacci, Irene Basili, Romina Alfonsi, Flavia Bernardi, Marta Moretti, **Marilisa Conenna**, Antonino Cucinotta, Sonia Coni, Marialaura Petroni, Enrico De Smaele, Giuseppe Giannini, Marella Maroder, Gianluca Canettieri, Angela Mastronuzzi, Daniele Guardavaccaro, Olivier Ayrault, Paola Infante and Francesca Bufalieri. SALL4 is a CRL3<sup>REN/KCTD11</sup> substrate that drives Sonic Hedgehog-dependent medulloblastoma, 2023, *Cell Death and Differentiation*

- Atul Kumar, Delfina Larrea, Maria Elena Pero, Paola Infante, **Marilisa Conenna**, Grace Ji-Eun Shin, Wesley B Grueber, Lucia Di Marcotullio, Estela Area-Gomez, Francesca Bartolini. MFN2-dependent recruitment of ATAT1 coordinates mitochondria motility with alpha-tubulin acetylation and is disrupted in CMT2A, 2023, bioRxiv, 2023 Preprint.