

## Curriculum Vitae – Silvia Ripa

### Personal data:

**Name and Surname:** Silvia Ripa  
**Date and place of birth:** 24/11/1996, Roma (RM), Italy  
**Citizenship:** Italian  
**Fiscal code:** RPISLV96S64H501D  
**Work address:** Laboratory of Molecular Oncology (Department of Molecular Medicine), Viale Regina Elena 291, 00161 Rome, Italy  
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### Education:

**January-March 2023:** Corso di formazione ‘sperimentazione preclinica e benessere animale’ moduli teorici e pratici per la funzione A, at ‘Università di Roma La Sapienza, Roma (Italy)

**November 2022:** qualification to the profession of pharmacist and registration in the Register of Pharmacists

**September 2015-January 2021:** Master degree in Pharmacy and Medicine at La Sapienza University of Rome, Rome (Italy).

Score: 110/110 *cum laude*.

Thesis title: “Il cancro della prostata resistente alla castrazione: interazione tra il recettore per gli androgeni e la via di segnale PI3K/Akt/mTOR ”.

Supervisor: Prof.ssa Ida Silvestri – Dept. of Molecular Medicine, La Sapienza University of Rome, Rome (Italy)

**September 2018- February 2019:** Erasmus at Universitat de Barcelona, Barcelona  
6 month of Erasmus+ project spent at 'Universitat de Barcelona' doing laboratory activities of pharmacology, pharmacology and plant physiology.

**September 2010- July 2015:** High school diploma at Liceo Classico Giulio Cesare Roma

### Research experience:

**November 2021– Present:** PhD Student in Molecular Medicine, Dept. of Molecular Medicine, Sapienza University, Rome (Italy).  
Tutor: Prof. Gianluca Canettieri.  
Field of interest: Targeting redox alterations and sensors in colorectal cancer.

**May 2021 – November 2021:** Trainee at Dept of Molecular Medicine, Sapienza University of Rome (Italy).  
Tutor: Prof. Gianluca Canettieri

**August 2019 – January 2021:** Trainee at Policlinico Umberto I Dept. of Molecular Medicine, Sapienza University of Rome, Rome (Italy).  
Tutor: Prof.ssa Ida Silvestri  
Field of interest: interaction between PI3K/Akt/mTOR pathway and prostate cancer

Technical skills and competences:

**Cellular biology:** cell culture techniques (animal and human cells), DNA and siRNA transfection/transduction, cell treatments, proliferation assay, cell viability and proliferation assay, drug-screening, proliferation and cellular vitality assay (MTT and TB), clonogenicity assay, production and use of lentiviral vectors.

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

**Analysis of proteins:** Protein extraction and western blot analysis, immunoprecipitation.

**Cytofluorometry techniques**

**Animal (scientific procedures):** manipulation of mice and mice's tissues, tail cutting, toe clipping.

**Data analysis:** Adobe Photoshop, Image J, Image Lab, GraphPad. Use of various DataBases and tools: NCBI, BLAST, GenScript, Uniprot, Biorender, STRING.

Congress participation:

**September 2022:** Poster presentation 'Discovery of novel human lactate dehydrogenase inhibitors: Structure-based virtual screening studies and biological assessment'  
Molecular pathology: from bench to bedside- SIPMeT Young Scientist Meeting  
Ancona (Italy)

**September 2023:** Poster presentation 'Discovery of novel human lactate dehydrogenase inhibitors: Structure-based virtual screening studies and biological assessment'  
General Pathology: the trunk of the tree of medicine Molecular pathology- SIPMeT Young Scientist Meeting  
Parma (Italy)

Publications:

- Di Magno L, Coluccia A, Bufano M, **Ripa S**, La Regina G, Nalli M, Di Pastena F, Canettieri G, Silvestri R, Frati L. *Discovery of novel human lactate dehydrogenase inhibitors: Structure-based virtual screening studies and biological assessment*. Eur J Med Chem. 2022;240.

-Nalli M, Di Magno L, Wen Y, Liu X, D'Ambrosio M, Puxeddu M, Parisi A, Sebastiani J, Sorato A, Coluccia A, **Ripa S**, Di Pastena F, Capelli D, Montanari R, Masci D, Urbani A, Naro C, Sette C, Orlando V, D'Angelo S, Biagioni S, Bigogno C, Dondio G, Pastore A, Stornaiuolo M, Canettieri G, Liu T, Silvestri R, La Regina G. *Novel N-(Heterocyclylphenyl)benzensulfonamide Sharing an Unreported Binding Site with T-Cell Factor 4 at the  $\beta$ -Catenin Armadillo Repeats Domain as an Anticancer Agent*. ACS Pharmacol Transl Sci. 2023 Jul 3;6(7):1087-1103.

