



## Silvia Ripa

**Email:** [silvia.ripa1@gmail.com](mailto:silvia.ripa1@gmail.com)

**LinkedIn:** [www.linkedin.com/in/silvia-ripa-869b4a204](https://www.linkedin.com/in/silvia-ripa-869b4a204)

**Gender:** Female **Nationality:** Italian

### ABOUT ME

After graduating in Pharmacy at La Sapienza University of Rome, I decided to participate to the PhD competition at the Department of Molecular Medicine. During this 3 years I mastered the main molecular biology techniques (genomic, RNA, protein extractions, Western blot analysis, qRT-PCR), cell biology techniques (murine and human cell culture techniques, transfections/traductions, lentivirus production, organoids from mice samples), and histology and histopathology techniques.

### WORK EXPERIENCE

[ 01/11/2021 – Current ]

#### PhD student

*Sapienza University of Rome*

**City:** Rome | **Country:** Italy

PhD Student in Molecular Medicine, Dept. of Molecular Medicine

Tutor: Prof. Gianluca Canettieri

Field of interest: Targeting redox alterations and sensors in colorectal cancer

[ 01/04/2024 – 20/04/2024 ]

#### Internship

*Johns Hopkins University School of Medicine*

**City:** Baltimore | **Country:** United States

Internship at Dept. of Pediatrics

Tutor: Prof. Raphael Viscidi

Field of interest: Preparation of virus like particle (VLP) vaccines for colorectal cancer

[ 01/05/2021 – 31/10/2021 ]

#### Internship

*Sapienza University of Rome*

**City:** Rome | **Country:** Italy

Internship at Dept. of Molecular Medicine

Tutor: Prof. Gianluca Canettieri

[ 01/09/2019 – 21/01/2021 ]

#### Trainee

*Sapienza University of Rome*

**City:** Rome | **Country:** Italy

Master degree in Pharmacy and Medicine

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

### EDUCATION AND TRAINING

[ 01/10/2015 – 21/01/2021 ]

#### Master degree

*Sapienza University of Rome*

**City:** Rome | **Country:** Italy | | **Final grade:** 110/110L | **Thesis:** Il cancro della prostata resistente alla castrazione: interazione tra il recettore per gli androgeni e la via di segnale PI3K/Akt/mTOR

[ 10/09/2018 – 18/02/2019 ]

#### Erasmus

*Universitat de Barcelona*

**City:** Barcelona | **Country:** Spain |

Laboratory activities of pharmacology, pharmacognosy and plant physiology

[ 12/09/2010 – 10/07/2015 ] **High school diploma**

*Liceo Classico Giulio Cesare*

**City:** Rome | **Country:** Italy |

## QUALIFICATIONS

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[ 01/2023 – 03/2023 ] **Accreditation for handling and working with mice**

Corso di formazione 'sperimentazione preclinica e benessere animale' for mice: function A

[ 09/2022 ] **Qualification to profession of Pharmacist**

[ 10/2022 ] **Registration in Register of Pharmacists**

## TECHNICAL SKILLS AND COMPETENCES

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### Cellular biology

cell culture techniques (animal cells, human cells and organoids), 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

### Histology and histopathology techniques

Use of microtome, paraffin inclusions, immunofluorescence, histochemical and immunohistochemical 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

## CONFERENCES AND SEMINARS

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[ 09/2022 ] **Molecular pathology: from bench to bedside- SIPMeT Young Scientist Meeting** Ancona

Poster presentation 'Discovery of novel human lactate dehydrogenase inhibitors: structure-based virtual screening studies and biological assessment'

[ 09/2023 ] **General Pathology: the trunk of the tree of medicine Molecular pathology - SIPMeT Young Scientist Meeting**  
Parma  
Poster presentation 'Discovery of novel human lactate dehydrogenase inhibitors: structure-based virtual screening studies and biological assessment'

[ 09/2024 ] **Translational pathophysiology- SIPMeT** Udine  
Poster presentation 'Novel n-(heterocyclylphenyl)benzenesulfonamide sharing an unreported binding site with tcf-4 at the  $\beta$ -catenin armadillo repeats domain as anticancer agent'

[ 09/2024 ] **64th annual Meeting of the Italian Cancer Society (SIC) Science-driven approaches to achieve early diagnosis of cancer and to overcome therapy resistance**  
Milan  
Poster presentation 'Selective targeting of redox alterations in medulloblastoma tumors through nanotechnology-based delivery systems'

## PUBLICATIONS

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[ 2022 ] **Discovery of novel human lactate dehydrogenase inhibitors: Structure-based virtual screening studies and biological assessment.**

**Reference:** Eur J Med Chem. 2022; 240:114605.

Di Magno L, Coluccia A, Bufano M, Ripa S, La Regina G, Nalli M, Di Pastena F, Canettieri G, Silvestri R, Frati L.

[ 2023 ] **Novel N-(Heterocyclylphenyl)benzenesulfonamide Sharing an Unreported Binding Site with T-Cell Factor 4 at the B-Catenin Armadillo Repeats Domain as an Anticancer Agent**

**Reference:** ACS Pharmacol Transl Sci. 2023 Jul; 6(7):1087-1103

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.

[ 2024 ] **Development of N-(4-(1H-Imidazol-1-yl)phenyl)-4-chlorobenzenesulfonamide, a Novel Potent Inhibitor of  $\beta$ -Catenin with Enhanced Antitumor Activity and Metabolic Stability**

**Reference:** Med Chem. 2024 Nov 28;67(22):20298-20314

Puxeddu M, Ling L, **Ripa S**, D'Ambrosio M, Nalli M, Parisi A, Sciò P, Coluccia A, Granese A, Santelli M, Masci D, Cuřínová P, Naro C, Sette C, Pastore A, Stornaiuolo M, Bigogno C, Dondio G, Di Magno L, Canettieri G, Liu T, Silvestri R, La Regina G.

## LANGUAGE SKILLS

**Mother tongue(s):** Italian

**Other language(s):**

**English**

**LISTENING C1 READING C1 WRITING B2 SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

**Spanish**

**LISTENING B2 READING B2 WRITING B2 SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

**French**

**LISTENING A2 READING A2 WRITING A2 SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2**

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**EXPERTISES AND SKILLS**   **Scientific**

Colorectal, prostate cancer

Molecular biology techniques

Cell and organoid cultures

Metabolic assays

Mice handling

**Personal**

Public relations

Teamwork

Leadership

Effective communication

Critical thinking

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SILVIA RIPA

Cognome **RIPA**

Nome **SILVIA**

nato il **24/11/1996**

(atto n. **01291** P. **1** S. **A21**)

a **ROMA**

Cittadinanza **ITALIANA**

Residenza **ROMA**

Via **VIA PISA N.11 PL.5 IN.22**

Stato civile **===**

Professione **===**

CONNOTATI E CONTRASSEGNI SALIENTI

Statura **1,80**

Capelli **Castani**

Occhi **Castani**

Segni particolari **===**



Firma del titolare **Silvia Ripa**

**ROMA** li **26 LUG 2016**

Impronta del dito  
indice sinistro

IL SINDACO

**LA Piacentini Augusto**

*Director Optica*





DATA DI SCADENZA  
24 NOV 2026

AX 9616363



REPUBBLICA ITALIANA



COMUNE DI  
ROMA

CARTA D'IDENTITA'

N° AX 9616363

DI

RIPA

SILVIA