



# Sara Di Russo

**Date of birth:** 21/05/1996 | **Nationality:** Italian | **Gender:** Female | **Address:** Italy (Work)

## ● EDUCATION

01/11/2021 – CURRENT

### PhD student in Life Sciences

Department of Biochemical Sciences Rossi Fanelli, Sapienza University of Rome  
Supervisor: Francesca Cutruzzola Tutor: Alessio Paone

10/2018 – 04/2021

### Master's degree in Pharmaceutical and Medical Biotechnology

Department of Molecular Medicine, University of Pavia  
Thesis title: "Characterization of a *Caenorhabditis elegans* transgenic strain overexpressing  $\beta_2$ -microglobulin's gene"  
Supervisor: Sofia Giorgetti  
Graduation mark: 110/110 cum laude

10/2015 – 10/2018

### Bachelor's degree in Biological Sciences

Department of Ecological and Biological Sciences  
Thesis title: "PrpC proteins overview and role in prion disease"  
Supervisor: Carla Caruso  
Graduation mark: 108/110

## ● AWARDS

08/07/2023 – 12/07/2023

### FEBS Bursary 2023 from Federation of European Biochemical Societies (FEBS)

Abstract selected for "Oral Presentation" and "Poster presentation" at the 47th FEBS congress

01/07/2023

### Best Talk Presentation Award - 3rd Workshop of the SIB group

Speed Talk selected for "Best Talk Presentation" at the "3rd Workshop of the SIB group"

29/06/2024 – 03/07/2024

### SIB Bursary from the Italian Society of Biochemistry and Molecular Biology (SIB)

29/06/2024 – 03/07/2024

### The 48th FEBS Congress

Abstract selected for "Oral Presentation" at the 48th FEBS Congress

## ● TECHNICAL SKILLS

**Standard cell biology:** cells handling, cell counting, trypan exclusion assay, protein quantification, protein gel electrophoresis, western blot, Flow Cytometry

**Cell Metabolism:** measurement of energy metabolism in real time (Seahorse), measurement of Redox parameters (ROS, GSH), ATP levels

**Cell Migration:** Boyden chamber, motility/invasion assay, Transmigration test using transwell insert, cell Permeability

Immunofluorescence analysis, Proximity Ligation Assay (PLA)

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siRNA and plasmid transfection, DNA/RNA purification from cellular extracts, gene quantification using real time PCR, reporter assays, ELISA test

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Cloning, site directed mutagenesis, PCR

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Bacteria transformation and growth

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DNA and RNA extraction and purification from bacteria extracts, DNA gel electrophoresis

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Transcription in vitro

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## ● MEETING AND WORKSHOP

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08/07/2023 – 12/07/2023

**FEBS 2023: the 47th FEBS CONGRESS "Influence of the tumor microenvironment on the formation of brain metastases by breast cancer cells".** Speed talk and poster

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Tours, France

29/06/2023 – 30/06/2023

**3rd Workshop of the SIB group: "Understanding cancer metabolism: exploring tumor heterogeneity to advance cancer therapy".** "Role of amino acid metabolism in the metastatic potential of breast and lung cancer cells". Oral presentation

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Catanzaro, Italy

29/06/2024 – 03/07/2024

**FEBS 2024: The 48th FEBS CONGRESS "Mining Biochemistry for human health and well-being".** Deciphering the role of cytokine-induced glutamate dynamics in breast cancer brain metastasis. Oral presentation

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Allianz MiCo-Milano Convention Centre, Italy

30/09/2024

**XI BeMM SYMPOSIUM PhD School Symposium - PhD School of Biology and Molecular Medicine**

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Sapienza, University of Rome, Italy. I am a member of the organizing committee.

## ● LANGUAGES KNOWLEDGE

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**English B1 (Cambridge English Qualification)**

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In these months I am attending English lessons to achieve B2 levels

**Italian: Native Speaker**

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## ● CERTIFICATIONS

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06/2021

**Licence to practice as a Biologist**

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University of Pavia, Italy

## ● INTERNSHIP

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03/2018 – 07/2018

**Internship at San Faustino laboratory, Viterbo**

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Acquisition of basic skills in immunochemistry and plasma protein electrophoresis, techniques and methods relating to the analysis of bacteriology, clinical chemistry, coagulation and haematology

● **PUBLICATIONS**

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2024

**Beyond the barrier: the immune-inspired pathways of tumor extravasation**

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**Authors:** **Sara Di Russo**, Francesca Romana Liberati, Agnese Riva, Federica Di Fonzo, Alberto Macone, Giorgio Giardina, Marzia Arese, Serena Rinaldo, Francesca Cutruzzolà, Alessio Paone

**Journal title:** Cell Communication and Signaling

2024

**Combined Delivery of miR-15/16 through Humanized Ferritin Nanocages for the Treatment of Chronic Lymphocytic Leukemia**

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**Authors:** Francesca Romana Liberati †, **Sara Di Russo** †, Lorenzo Barolo , Giovanna Peruzzi , Maria Vittoria Farina , Sharon Spizzichino , Federica Di Fonzo , Deborah Quaglio , Luca Pisano , Bruno Botta , Alessandra Giorgi , Alberto Boffi , Francesca Cutruzzolà , Alessio Paone ,and Paola Baiocco.

† These authors contributed equally to this work.

**Journal Title:** Pharmaceutics

**Riboregulation of glycine and serine metabolism**

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**Authors:** Federica Di Fonzo, Sharon Spizzichino, Agnese Riva, **Sara Di Russo**, Chiara Di Lucente, Chiara Scribani Rossi, Giovanni Varchetta, Alessio Paone, Serena Rinaldo, Francesca Cutruzzolà.

This manuscript is currently under submission

**Journal Title:** Biochemical Society Transactions

● **DATE**

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**16/09/2024**

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