



Shirin Navacci

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- 📅 February 16th, 1997
- 🌐 Italian

Current position

PhD student

October 2021-ongoing | Dept. of Molecular Medicine, Sapienza University - Rome (Italy)

- Research project: Dissecting the role of the Cullin3-RENKCTD11 E3 ubiquitin ligase complex in the control of the Hedgehog pathway and medulloblastoma tumorigenesis.
- Tutor: Prof. Lucia Di Marcotullio

Education

Professional practice exam, Biologist (SEC. A)

November 2022 | Sapienza University, Rome (Italy)

MSc in Genomic, Industrial and Environmental Biotechnologies

October 18th, 2021 | Sapienza University, Rome (Italy)

Graduated with Honours (110/110 cum laude)

- Research project: Role of Heterochromatin Protein 1 (HP1) in epigenetics regulations of neural stem cells in *Drosophila melanogaster*.
Tutors: Prof. Lucia Piacentini, Sapienza University, Dept. of Biology and Biotechnology "Charles Darwin"

Bachelor degree in Biology

July 25th, 2019 | Sapienza University, Rome (Italy)

Graduated (101/110)

- Research project: Circadian rhythms and psychophysical well-being: a new role for astrocytes
- Supervisor: Prof. Maria Egle De Stefano - Sapienza University, Dept. of Biology and Biotechnology "Charles Darwin"

Work experience

Nov 2021 – ongoing

Ph.D. student

Sapienza University, Dept. Molecular Medicine (Rome, Italy)
Identification of new REN interactors potentially involved in Sonic-Hedgeog signaling regulation and Sonic-Hedgeog medulloblastoma tumorigenesis

July 2020 – Oct 2021

Master thesis trainee

Sapienza University, Dept. Biology and Biotechnology (Rome, Italy)
Study of HP1 in epigenetics regulations of neural stem cells in *Drosophila melanogaster*.

July 2020 – Oct 2021

Master trainee

Sapienza University, Dept. Biology and Biotechnology
"Charles Darwin" (Rome, Italy)
Elucidation of the neuroprotective role of curcumin, quercetin and resveratrol in the pathogenesis of Alzheimer's disease in transgenic models of *Drosophila melanogaster*.

Teaching activity

2022-2023

Tutoring activities for the advanced analytical methodologies course

Faculty of Genomic, Industrial and Environmental Biotechnologies, Sapienza University, Dept. Biology and Biotechnology (Rome, Italy)

Publications

Total number of publications: 1

First name publications: 1

- 1- Lospinoso Severini L, Loricchio E, [Navacci S](#), [...], **SALL4 is a CRL3^{REN/KCTD11} substrate that drives Sonic Hedgehog-dependent medulloblastoma.** Cell Death Differ. **2023**
doi: 10.1038/s41418-023-01246-6. Epub ahead of print.
PMID: 38062245.

Technical skills

Biochemistry/Genetics	DNA, RNA, and proteins extraction from tissues/cell lysates Agarose and Polyacrylamide Gel Electrophoresis Blotting and immunoprecipitation techniques In vivo ubiquitylation assays Gene knock-down and silencing Lentiviral virus preparation, titration, and infection Bacterial transformation, Miniprep, Maxiprep Fluorescence, light microscopy, Immunofluorescence and Confocal microscopy Paraffin inclusion and immunohistochemistry PCR and Quantitative Real Time PCR
Biology	Vector design: primers design, digestions, ligations, cloning Maintenance of eukaryotic, stem, and primary cells culture Transfection and Electroporation Proliferative, clonogenic, and apoptosis assays IncuCyte® Live-Cell technology (including data analysis)
Animal Care	Drosophila handle, restrain and breeding. Dissection. Mice handle, restrain, and breeding Subcutaneous and intraperitoneal injections Surgical procedures: allograft and xenograft, heterotopic and orthotopic procedures

Awards

2023	<i>Excellent graduate faculty of physical and natural mathematical sciences 2020-2021</i>
2023	<i>ABCD Travel Grant for ABCD National Congress 2023 (ABCD Scientific Committee)</i>
2023	<i>Best Poster Award by Journal of Experimental and Clinical Cancer Research (AICC Congress)</i>

Certifications

2023	Certification 24 CFU
2023	<i>FELASA – Federation of European Laboratory Animal Science Functions A, B, C, D</i> (n. F023/09) Fondazione Santa Lucia IRCCS, Centro Europeo di Ricerca sul Cervello (CERC), Rome (Italy)

Oral presentations

- Flash presentation at XVI FISV Congress – Naples, Italy (14-16 Sept 2022)

Poster presentations

- XVI FISV Congress – Naples, Italy (14-16 Sept 2022)
- SIPMeT Young Scientists Meeting 2022 – Ancona, Italy (22-24 Sept 2022)
- SIrteps Congress – Favignana, Trapani, Italy (17-20 May 2023)
- National ABCD PhD Meeting – Paestum, Salerno, Italy (20-21 Sept 2023)
- ABCD National Congress 2023 – Paestum, Salerno, Italy (20-23 Sept 2023)
- 35th AICC Congress 2023 – L'Aquila, Italy (04-06 Dec 2023)