

Curriculum Vitae – Shirin Navacci

CURRENT POSITION

18/10/2021-on going **PhD Student in Molecular Medicine**
Department of Molecular Medicine, Sapienza, University of Rome (Italy)
Tutor: Prof.ssa Lucia Di Marcotullio
Field of interest: Study of ubiquitylation events in brain tumors

PREVIOUS RESEARCH EXPERIENCES

09/2020-18/10/2021 **Trainee student**
Department of Biology and Biotechnologies “C. Darwin”, Sapienza, University of Rome (Italy)
Tutor: Prof.ssa Lucia Piacentini
Thesis title: “Role of HP1 (Heterochromatin Protein 1) in epigenetic regulations of neural stem cells in *Drosophila melanogaster*”.

09/2020-18/10/2021 **Trainee student**
Department of Biology and Biotechnologies “C. Darwin”, Sapienza, University of Rome (Italy)
Tutor: Prof.ssa Lucia Piacentini in collaboration with Prof.ssa Luciana Mosca
Project: “Neuroprotective role of curcumin, quercetin and resveratrol in the pathogenesis of Alzheimer’s disease in transgenic models of *Drosophila melanogaster*”

EDUCATION

2019-18/10/2021 **MSc in Genomic, Industrial and Environmental Biotechnologies**
Genomic curriculum
Department of Biology and Biotechnologies “C. Darwin”, Sapienza, University of Rome (Italy)
Tutor: Prof.ssa Lucia Piacentini
Score: 110/110 *cum laude*
Thesis title: “Role of HP1 (Heterochromatin Protein 1) in epigenetic regulations of neural stem cells in *Drosophila melanogaster*”.

2016-25/07/2019 **Bachelor’s degree in Biological Sciences**
Molecular and genetic curriculum
Department of Physiology, Sapienza University, Rome (Italy)
Tutor: Prof.ssa Maria Egle De Stefano
Score: 101/110
Thesis title: “Ritmi circadiani e benessere psicofisico: un ruolo per gli astrociti”

EXPERTISE AND SKILLS

Molecular Biology techniques

Plasmidic and genomic DNA extraction, RNA extraction, cloning, DNA mutagenesis, reverse transcription, PCR, quantitative real time PCR, luciferase reporter assays, UV cross-linking and RNA immunoprecipitation (CLIP).

Analysis of proteins

Protein extraction and western blot analysis, protein post-translational modifications analysis; *in vivo* immunoprecipitation.

Cellular biology

Cell culture techniques (animal cells), DNA and siRNA transfection/transduction, cell treatments, BrdU assay, production and use of lentiviral vectors.

Histology and histopathology techniques

Immunofluorescence, histochemical and immuno-histochemical techniques. Confocal microscopy.

Drosophila

Genetic screening. Culturing of Drosophila stocks, formal genetics analysis (stocks maintenance, mutant analysis, recombination, mutation induction). Climbing analysis and lifespan assays.
Dissection of larval brains, testes and ovaries.

IT skills

Office suite; Adobe Photoshop; Image J; Image Lab; GraphPad. Use of various Databases and tools: NCBI, PDB, FlyBase, BLAST, GenScript.

Languages

Italian: native

English: excellent level spoken and written

Farsi: basic knowledge

25/07/2022

F.to Shirin Navacci