

BIOGRAPHY-

ALESSANDRO NOTO

Education, formation and Professional Experiences

In 2014 I graduated in Biological Sciences at the University of Rome “La Sapienza” (Bachelor’s Degree). Subsequently, in the same University, I obtained my Master’s Degree in Genetics and Molecular Biology in Basic and Biomedical Research. During this period I did an internship at Immunology of Tumors Unit of Istituto Superiore di Sanità, where I evaluated the anticancer effects of the combination of IFN- α /Romidepsin in melanoma cells and I explored the induction of the immune response (PD-1/PD-L1 signaling). After my Master’s Degree I won a contest for a place for a PhD in Human Biology and Medical Genetics. In these years I studied in a lab that belongs to Mechanisms, biomarkers and models (MBM) Unit of Istituto Superiore di Sanità. Here, I explored the interaction between the helicase protein WRN and the SSBP RPA in response to replicative stress to explore its role in maintaining genomic integrity. After obtaining my PhD, I continued studying WRN as a target of synthetic lethality in cells with MSI phenotype through laboratory-generated biotinylation constructs for the analysis of short-term interaction kinetics. During this period, I obtained the Professional Qualification to Biologist. Actually, since the beginning of this year, I obtained a job as “Health Researcher” at Department of Research, Advanced Diagnostics and Technological Innovation, Translational Research Area of IRCCS Regina Elena National Cancer Institute. During this year I have worked in a PNRR research project which consists of targeting drug resistant melanomas with oncosuppressor miRNA delivered by pre-assembled Lipid Nanoparticles or self-assembling lipid nanoparticles (SANPs), assembled immediately before the treatment.