CURRICULUM VITAE_STEFANIA GONFLONI

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EDUCATION

1995 PhD in Biophysics (International School for Advanced Studies/ISAS Trieste, Italy)

1993 Master in Biophysics (International School for Advanced Studies /ISAS Trieste Italy)

1991 Degree in Biology (LAUREA in Scienze Biologiche, University of Rome "Tor Vergata")

EMPLOYMENT Dec 2022 - present: Associate Professor Genetics

RESEARCH INTERESTS

Signal transduction, DNA damage response. In the span of my scientific career I have been dealing with different topics, and each and every one of these experiences have contributed to enrich my skills and expertise. As an undergraduate student at the University of Rome Tor Vergata, I worked on the development of Phage peptide display technologies. I moved to Trieste (SISSA/ISAS) to get a PhD in Biophysics, working on chicken neurons, testing the effect of neutralizing recombinant antibodies against neurotrophins. I spent my first post-doc period at EMBL in Heidelberg (Germany), where I acquired a solid background in biochemistry and structural biology on Src tyrosine kinases, using as cell systems both yeast (S.pombe) and mammalian cells (human fibroblasts). During my second post-doc at the Rockefeller University in New York, I further strengthened my skills in structural biology by learning how to purify proteins and grow crystals and solve their structure. As assistant professor at the University of Rome Tor Vergata I have used a Phage display cDNA brain library (T7) for screening novel interactors/regulators/modifiers for p53 family members (i.e. mutant p53, p63). I have characterized post-translational modifications of p63 induced by various DNA damage stressors. I have been interested in understanding DNA damage stress response in female germ cells (in vivo, in mouse) induced by chemotherapeutic drugs. I have developed a win-win strategy of mitigating DNA damage and highlighting key regulatory nodes of chemo-induced paths in vivo in female germ cells by using small molecules. In summary, my work is best defined as a combination of basic, yet innovative science, with strong translational interests.

More than 30 papers in international refereed journals, h-index 25, citations >2550 (Scopus April 2024)