


# Miriana Cardano

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Sex Female | Date of birth 24/05/1993 | Nationality Italian

## RESEARCH EXPERIENCE | PHD IN BIOMOLECULAR SCIENCES AND BIOTECHNOLOGIES (INSTITUTE OF ADVANCED STUDIES OF PAVIA, IUSS)

Under the supervision of Dr. Laura Zannini (IGM-CNR) Pavia, Italy

Oct 2019 - present

Project: "TSPY-like 2, a gender specific player in the DNA damage response"

### RESEARCH FELLOWSHIP

IGM-CNR (Group directed by Dr. Laura Zannini) Pavia, Italy

May 2019 - Sep 2019

Project: "TSPY-like 2, a gender specific player in the DNA damage response"

### RESEARCH FELLOWSHIP

IGM-CNR (Genome stability group directed by Dr. Ennio Prospero) Pavia, Italy

Jan 2018 - Jan 2019

Project: "PCNA acetylation as a novel tumor biomarker through analysis of PCNA-targeted cell lines carrying specific mutations"

### UNIVERSITY TRAINING

IGM-CNR (Genome stability group directed by Dr. Ennio Prospero) Pavia, Italy

Oct 2015 - Oct 2017

Attendance and personal involvement in the project on PCNA-interacting proteins degradation after UV-C damage.

### UNIVERSITY TRAINING

Laboratory of Biochemistry directed by Prof. Maria Enrica Tira

Università degli studi di Pavia, Pavia, Italy

Nov 2014 - Oct 2015

Attendance and personal involvement in the project on microtubular stability during the differentiation from megakaryocytes to platelets.

## EDUCATION | MASTER DEGREE IN MOLECULAR BIOLOGY AND GENETICS

Università degli studi di Pavia, Facoltà di Biologia e Biotecnologie, Pavia, Italy

**110/110 cum laude**

2015-2017

## **BACHELOR DEGREE IN BIOLOGICAL SCIENCES**

Università degli studi di Pavia, Facoltà di Biologia e Biotecnologie, Pavia, Italy  
94/110  
2012-2015

## **SCIENTIFIC HIGH SCHOOL DIPLOMA**

Liceo Ginnasio Statale "Benedetto Cairoli", Vigevano PV, Italy  
2007-2012

### **PERSONAL SKILLS | TECHNICAL SKILLS**

- Eukaryotic cell cultures
- Basic mouse handling
- DNA extraction and electrophoresis analysis on agarose gel
- RNA extraction
- Cloning of plasmids and transfection (lipofectamine)
- Gene silencing
- Production of knock out cell lines by CRISPR-Cas9
- Flow cytometry
- PCR
- Slot blot analysis
- Protein extraction and quantification, SDS-PAGE analysis, Western blotting analysis
- Immunoprecipitation assay
- Pull-down experiments
- *In vitro* binding assay with recombinant proteins
- Immunofluorescence experiments
- Proximity Ligation Assay (PLA)
- MTT assay
- Colony formation assay

### **MOTHER TONGUE**

Italian

### **OTHER LANGUAGE**

English: understanding C1; speaking B2; writing C1

### **INFORMATICS SKILLS**

- MS Windows, OS Macintosh
- Office (Word, PowerPoint, Excel)
- ImageJ, TotalLab
- Bioinformatics tools (NCBI, EBI, UniProt, BLAST, Clustal Omega)

### **OTHER PERSONAL SKILLS**

Very good ability to independently organize my work, to operate in a group context, to communicate and cooperate with colleagues. Good leadership during group work and problem-solving competence.

Positive, dynamic, responsible, determined and proactive.

**PUBLICATIONS** | **Miriana Cardano**, Carla Tribioli, Ennio Prosperi. **2020**. *Targeting Proliferating Cell Nuclear Antigen (PCNA) as an Effective Strategy to Inhibit Tumor Cell Proliferation*. *Curr Cancer Drug Targets*. 20(4):240-252.  
doi: 10.2174/1568009620666200115162814.

**ABSTRACTS AND MEETING PARTECIPATIONS** | **Miriana Cardano**, Giacomo Buscemi and Laura Zannini. *TSPY-like 2, a sex specific player in the DNA damage response*. First international workshop on Sexual dimorphism in cancer (online via zoom), 22<sup>nd</sup>-26<sup>th</sup> March 2021

**Miriana Cardano**, Martina Magni, Giacomo Buscemi and Laura Zannini. *Revealing the gender specific role of TSPYL2 during DNA damage response*. Keystone eSymposia – Genomic stability and DNA repair, 21<sup>st</sup>-23<sup>rd</sup> September 2020

Final congress “Progetto Bandiera Interomics”, Rome, Italy, 29<sup>th</sup>-30<sup>th</sup> October 2018 (“*PCNA acetylation as a novel tumor biomarker through analysis of PcnA-targeted cell lines carrying specific mutations*”, **Oral presentation**)

Ennio Prosperi, Giulio Ticli, Claudia Scalera, **Miriana Cardano**, Ilaria Dutto, Ornella Cazzalini, Lucia A. Stivala, Alexander Rapp, M. Cristina Cardoso. *p21 (CDKN1A) stimulates nucleotide excision repair DNA synthesis by influencing both recruitment and release of PCNA-interacting factors at DNA damage sites*. 5<sup>th</sup> DNA Polymerases meeting, Leiden, The Netherlands, 23<sup>th</sup>-26<sup>st</sup> September 2018

**Miriana Cardano**, Carla Tribioli, Ornella Cazzalini, Lucia A. Stivala, Ennio Prosperi. *Investigating PCNA acetylation to identify novel biomarkers of DNA replication stress in normal and tumor cells*. XV FISV Congress, Rome, Italy, 18<sup>th</sup>-21<sup>st</sup> September 2018

Giulio Ticli, **Miriana Cardano**, Claudia Scalera, Ilaria Dutto, Ornella Cazzalini, Lucia A. Stivala, Alexander Rapp, M. Cristina Cardoso, Ennio Prosperi. *Coordination of PCNA-interacting partners by p21CDKN1A at sites of UV-induced DNA damage*. 6<sup>th</sup> EU-US Conference on Repair of endogenous DNA damage. Udine, Italy, 26<sup>th</sup>-28<sup>th</sup> September 2017

**WORKSHOPS AND COURSES** | EMBL-EBI workshop: University of Pavia, 2021 (Virtual)

“Corso di Comunicazione efficace e Public Speaking”. Pavia, Italy, 18<sup>th</sup>-25<sup>th</sup> Oct 2019

“Corso teorico e pratico di microscopia confocale”. Pavia, Italy, 16<sup>th</sup>-18<sup>th</sup> May 2018

Workshop “Measure binding affinities and protein stability with NanoTemper Technologies”. Milan, Italy, May 15<sup>th</sup> 2018

**REFERENCES** | Dr. **LAURA ZANNINI**  
laura.zannini@igm.cnr.it

Dr. **ENNIO PROSPERI**  
prosperi@igm.cnr.it

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