

● WORK EXPERIENCE

 **IRCCS BURLO GAROFOLO** – TRIESTE, ITALY

RESEARCH SCHOLARSHIP (BORSA DI STUDIO) – 14/07/2025 – CURRENT

Clinical research in the field of hematopoietic stem cell transplantation.

 **UNIVERSITY OF TRIESTE** – TRIESTE, ITALY

Address Via Licio Giorgieri 5, Trieste, Italy

RESEARCH ASSOCIATE (ASSEGNO DI RICERCA) – 11/04/2024 – 10/06/2025

Identification of new Rho GTPase inhibitors for the treatment of Glioblastoma.
Laboratory of Guidalberto Manfioletti/Riccardo Sgarra.

 **UNIVERSITY OF PARIS** – PARIS, FRANCE

Business or Sector Professional, scientific and technical activities | **Address** 35 Rue Hélène Brion, Paris, France |

Website <http://parisepigenetics.com/en/>

PHD – 30/09/2019 – 21/12/2023

Study of the Interplay between facultative heterochromatin and the DNA double-strand break repair response.
Laboratory of Sophie Polo. Funding from Marie Skłodowska-Curie Actions (Joint Training and Research Programme on Chromatin Dynamics & the DNA Damage Response, ITN-aDDress).

 **UNIVERSITY OF TRIESTE** – TRIESTE, ITALY

Business or Sector Professional, scientific and technical activities | **Address** Via Licio Giorgieri 5, Trieste, Italy |

Website <https://www.units.it/>

UNDERGRADUATE INTERNSHIP – 04/03/2018 – 21/03/2019

Analysis of the action of HMGA1 (a chromatin architectural factor) on breast cancer nuclear stiffness. Laboratory of Guidalberto Manfioletti/Riccardo Sgarra.

 **UNIVERSITY OF TRIESTE** – TRIESTE, ITALY

Business or Sector Professional, scientific and technical activities | **Address** Via Licio Giorgieri 5, Trieste, Italy |

Website <https://www.units.it/>

UNDERGRADUATE INTERNSHIP – 29/02/2016 – 29/06/2016

Analysis of the efficacy of antimicrobial peptides on bacterial cultures. Laboratory of Marco Scocchi.

● EDUCATION AND TRAINING

30/09/2019 – 07/12/2023 Paris, France

PHD IN HEMATOLOGY, ONCOGENESIS AND BIOTHERAPY University Paris Cité

- Exploration of the DNA repair pathways that resolve DNA double-strand breaks (DSBs) within facultative heterochromatin domains.
- Assessment of the alterations that occur to the epigenetic information in facultative heterochromatin in response to DSB induction and repair.

Strong focus on immunofluorescence, DNA/RNA-FISH and live imaging microscopy.
Funding from Marie Skłodowska-Curie Actions (MSCA).

Field of study Biology | **Level in EQF** EQF level 8 |

Thesis Study of the Interplay between facultative heterochromatin and the DNA double-strand break repair response.

02/10/2016 – 21/03/2019 Trieste, Italy

MASTER'S DEGREE IN FUNCTIONAL GENOMICS University of Trieste

Courses regarding Biochemistry, Genomics, Transcriptomics, Proteomics, Epigenetics, Genetics and Microbiology.
Master degree grade: 110/110 with honours.

Field of study Life sciences | **Level in EQF** EQF level 7

06/10/2013 – 06/10/2016 Trieste, Italy

BACHELOR'S DEGREE IN BIOLOGICAL SCIENCES AND TECHNOLOGIES University of Trieste

Courses regarding Cellular Biology, Bioinformatics, Molecular Biology, Biochemistry, Statistics and Pharmacology.
Bachelor's degree grade: 106/110

Field of study Life sciences | **Level in EQF** EQF level 6

14/09/2008 – 27/06/2013 Trieste, Italy

SECONDARY SCHOOL DIPLOMA Liceo Scientifico Galileo Galilei

Level in EQF EQF level 4

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PUBLICATIONS

2025

[Identification of a new small Rho GTPase inhibitor effective in glioblastoma human cells](#)

2022

[Imaging the Response to DNA Damage in Heterochromatin Domains](#)

2021

[DNA Double-Strand Break Repair: All Roads Lead to HeterochROMAtin Marks](#)

2021

[A molecular Rosetta Stone to decipher the impact of chromatin features on the repair of Cas9-mediated DNA double-strand breaks](#)

2019

[The High Mobility Group A1 \(HMGA1\) Chromatin Architectural Factor Modulates Nuclear Stiffness in Breast Cancer Cells](#)

● CONFERENCES AND SEMINARS

13/09/2023 – 15/09/2023 Queen's College, University of Oxford (UK)

EMBO YIN Genome Integrity Meeting

10/10/2022 – 14/10/2022 Sounio, Greece

EMBO workshop - The DNA-damage response in cell physiology and disease

31/05/2022 – 02/06/2022 Heraklion, Greece

ITN-aDDress - Bioimaging Summer School

21/03/2022 – 01/04/2022 Heidelberg, Germany

EMBO Young Investigator Programme PhD Course 2022

28/06/2021 – 28/06/2021 Online

ITN-aDDress - Bioinformatics Summer School

21/06/2021 – 22/06/2021 Online

32nd virtual Pezcoller Symposium - Aging and Cancer

07/12/2020 – 10/12/2020 Online

EMBO virtual workshop - Chromatin dynamics and nuclear organization in genome maintenance

● **JOB-RELATED SKILLS**

Technical experience

Made use of different techniques during my educational and working career: bacterial/eukaryotic cell culture, immunofluorescence, DNA-FISH, RNA-FISH, epifluorescent and confocal microscopy, live cell imaging, qRT-PCR, Western Blot, pulldown assays, RP-HPLC, mass spectrometry (LC-MS/MS).

Communication skills

I am highly proficient in English (certified C2 level). I am able to clearly communicate and express my ideas.

Digital skills

GraphPad Prism, ImageJ/Fiji, Adobe Photoshop, Adobe Illustrator, Benchling, Microsoft Office package (Excel, Powerpoint, Word).

● **ORGANISATIONAL SKILLS**

Scientific project management

I developed strong skills in planning a scientific project and in devising solutions to any obstacles encountered. I plan experiments taking into account their feasibility and the time required.

Tutoring

I have developed strong skills in training students and following their progression during their internships.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Interpersonal skills

I am used to working in a team, I get along well with colleagues and frequently exchange ideas.

Scientific talks and presentations

I am used to giving scientific presentations, in the form of scientific discussions, scientific reports and journal clubs. Gave poster presentations at multiple scientific conferences/workshops.