

Date of birth:

Place of Birth:

Work address: Department of Clinical and Experimental Biomedical Sciences "Mario Serio", University of Florence (UniFI); viale GB Morgagni 50, 50134, Florence, Italy.

Phone:

E-mail:

Education:

2023: Ph.D. in Genetics, Oncology and Clinical Medicine (UniSI); Thesis title: "Metabolic control of BCR/Abl oncoprotein expression and maintenance of stem cell potential in Chronic Myeloid Leukaemia cells"; *Excellent cum Laude*.

2019: Master's degree in Medical Biotechnologies (UniFI); *110/110 cum Laude*.

2017: Bachelor of Science in Biotechnologies (UniTS); *104/110*.

Research experience:

November 2023-now: Post-Doctoral fellowship; Department of Clinical and Experimental Biomedical Sciences (SBSC); supervisor: prof. Laura Papucci. "Metabolic characterization of Chronic Myeloid Leukaemia cells endowed with stem cell potential and resistant to therapy".

July 2022-February 2023: Visiting PhD student; Centre de Recherche en Cancerologie de Lyon; supervisor: Véronique Maguer-Satta. Study and handling of human bone marrow like 3D model.

November 2020-October 2023: Ph.D. programme in Experimental and Clinical Oncology (UniFI); supervisor: prof. Persio Dello Sbarba. "Metabolic modulation of stem cell potential maintenance in Chronic Myeloid Leukaemia cell cultures".

March-October 2020: Post-Lauream fellowship; Department of Clinical and Experimental Biomedical Sciences (SBSC); supervisor: prof. Persio Dello Sbarba.

March-November 2019: Research intern; Department of Clinical and Experimental Biomedical Sciences (SBSC); supervisor: professor Persio Dello Sbarba. "Chronic Myeloid Leukemia: behavioural study upon leukemic stem cells under hypoxic conditions and metabolic restrictions".

Technical skills and competences

Eukaryotic cell culture (cell lines and primary cells); protein and nucleic acid extraction, separation and analysis; gene cloning; immunofluorescence; apoptosis analysis; cytotoxicity assays; clonal assays; stem cell assays; 3D cell cultures; flow cytometry and cell sorting. Knowledge and experience of Windows, Excel, PowerPoint, Word, ImageJ, Prism, FlowJo.

Peer-reviewed articles:

- Arizkane et al. Jove (2023). "A human bone marrow 3D model to investigate the dynamics and interactions between resident cells in physiological or tumoral contexts."
- Silvano, Peppicelli Menegazzi et al. Oncology Research (2021). "Lactate is sufficient to maintain BCR/Abl expression and signaling in Chronic Myeloid Leukemia cells under nutrient restriction."
- Poteti et al. Cancers (2020) "Glutamine availability controls BCR/Abl protein expression and functional phenotype of Chronic Myeloid Leukaemia cells endowed with stem/progenitor cell potential."

Oral presentations:

- 29th CHO; Giens, France (2023); Title: "The niche microenvironment as a crucial feature in CML LSCs stem cell potential and quiescence maintenance."
- Aurastem Annual Meeting; Lyon, France (2022); Title: "Deciphering CML LSCs TKI-induced dormancy within a standardized 3D BM model."