



Michela Capurro

Date of birth: 07/06/1995 | **Nationality:** Italian | **Gender:** Female | **Address:** Italy (Home)

ABOUT ME

I majored in Medical Biotechnologies at University of Perugia, Italy. I successfully completed my internship at Centro di Ricerca Emato-Oncologica (CREO) Department of Medicine University of Perugia, under the supervision of Dott. Lorenzo Brunetti and Prof. Brunangelo Falini. Specifically, I worked on the characterization of NPM1c-dependent mechanisms that promote leukemogenesis in Acute Myeloid Leukemia. Since 2022 I am enrolled in a PhD program in Molecular and Clinical Medicine at CREO.

WORK EXPERIENCE

PHD STUDENT - UNIVERSITY OF PERUGIA - 01/11/2022 - 30/10/2025 - PERUGIA (PG), ITALY

Engineerization and validation of a new dual CAR-T cell model for Acute Myeloid Leukemia NPM1-mutated both *in vitro* and *in vivo*.

WINNER OF A RESEARCH SCHOLARSHIP ENTITLED "CAR-CIK IN HL" - CALL FOR YOUNG RESEARCHERS FIL 2021; DR. VINCENZO MARIA PERRIELLO - 01/07/2022 - 01/10/2022 - PERUGIA, ITALY

RESEARCHER (2 OCCASIONAL EMPLOYMENT CONTRACTS; 02/11/21-30/11/21; 19/05/22-18/06/22) - A.U.L.L. ASSOCIAZIONE UMBRA LEUCEMIE E LINFOMI; PROF. BRUNANGELO FALINI - PERUGIA, ITALY

Construction and validation of CAR-T cells against CD30, PDL1 and CD79b antigens through assays (cytotoxicity, cytokines and proliferation).

EDUCATION AND TRAINING

20/09/2020 - 16/07/2021 Perugia, Italy

INTERNSHIP AND THESIS Centro di Ricerca Emato-Oncologica (CREO), Department of Medicine and Surgery

Supervisor: Dr Lorenzo Brunetti, M.D., Ph.D.

Characterization of NPM1c-dependent mechanisms that promote leukemogenesis during Acute Myeloid Leukemia.

Address Piazzale G. Menghini, 8/9, 06129, Perugia, Italy

03/2019 - 07/2021

M.SC. IN MEDICAL, VETERINARY AND FORENSIC BIOTECHNOLOGY, (MEDICAL CURRICULUM), 107/110

University of Perugia, Department of Medicine and Surgery

Thesis "Understanding the mechanisms regulating NPM1 protein levels"

01/09/2019 - 30/09/2019 Stoke-on-Trent, United Kingdom

VISITING STUDENT Guy Hilton Research Centre, Keele University

Supervisor: Dr Gianpiero Di Leva, Ph.D.

Evaluation of novel pharmaceutical formulations able to treat breast cancer.

Address Thornburrow Dr, Hartshill, ST4 7QB, Stoke-on-Trent, United Kingdom

Supervisor: Dr Danilo Zampini, Ph.D., Department of Veterinary, University of Perugia.

Thesis "Serum microRNAs as markers of early pregnancy and fetal wellbeing in Mediterranean Buffalo"

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C1
SPANISH	C1	C1	B1	B1	B1
FRENCH	C1	C1	B1	B1	B1

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

● **SKILLS**

Good command of Microsoft Office | Social Media | Google Drive | Zoom | Skype | Knowledge of operative systems Windows, iOS, Android

● **PUBLICATIONS**

2022

APPENDIX-PUBBLICATIONS

Giulia Pianigiani, Francesca Rocchio, Sara Peruzzi, Vibeke Andresen, Barbara Bigerna, Daniele Sorcini, Michela Capurro, Bjørn Tore Gjertsen, Paolo Sportoletti, Mauro Di Ianni, Maria Paola Martelli, Lorenzo Brunetti and Brunangelo Falini. "The absent/low expression of CD34 in NPM1-mutated AML is not related to cytoplasmic dislocation of NPM1 mutant protein". Leukemia 2022, Letter

2024

Artificial Intelligence-Powered Molecular Docking and Steered Molecular Dynamics for Accurate scFv Selection of Anti-CD30 Chimeric Antigen Receptors

Int J Mol Sci . 2024 Jun 30;25(13):7231

Authors: Martarelli N., Capurro M., Mansour G., Vossoughi R., Stella A., Rossi R., Longetti E., Bigerna B., Gentili M., Cencini C., Emiliani C., Martino S., Beeg M., Gobbi M., Tiacci E., Falini B., Morena F., Perriello V.M.

● **DRIVING LICENCE**

Driving Licence: B

● **CONFERENCES AND SEMINARS**

31/03/2022 – 02/04/2022 Rome, Italy

Congress Partecipation

Auditor

XVII National Congress SIES

07/03/2024 – 09/03/2024 Florence (Italy)

XVIII National congress SIES

Oral Presentation. Title: TARGETING NPM1-MUTATED ACUTE MYELOID LEUKEMIA BY A DUAL TARGETING STRATEGY OF CHIMERIC ANTIGEN RECEPTOR (CAR) ENGINEERED CELLS

Poster Presentation. Title: "OPTIMIZING ANTI-NPM1/HLA-A2 CAR-T CELL AVIDITY TO BOOST AML SPECIFIC TARGETING TOWARDS LOW NPM1 MUT NEOANTIGEN DENSITY"

● **RECOMMENDATIONS**

Lorenzo Brunetti M.D., Ph.D.

Centro di Ricerche Emato-Oncologiche (CREO)
Ospedale Santa Maria della Misericordia
Department of Medicine and Surgery University of Perugia
Piazzale Menghini 8/9 06129
Perugia, Italy

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Gianpiero di Leva Ph.D.

Guy Hilton Research Centre
School of Pharmacy and Bioengineering Keele University
Thornburrow Dr, Hartshill ST4
7QB Stoke on Trent, United Kingdom

Email g.dileva@keele.ac.uk | Phone (+44) 01782671651

Vincenzo Maria Perriello M.D., P.I.

Centro di Ricerche Emato-Oncologiche (CREO)
Ospedale Santa Maria della Misericordia
Department of Medicine and Surgery University of Perugia
Piazzale Menghini 8/9 06129
Perugia, Italy

Email vincenzomaria.perriello@unipg.it

● **PERSONAL SKILLS**

Research Techniques

BIOCHEMISTRY: immunopurification and co-immunopurification, SDS page, Western Blotting;
MOLECULAR BIOLOGY: DNA and RNA extraction and purification, PCR, RT-PCR, in vitro transcription, CUT&RUN, library preparation for NGS;
CELL BIOLOGY: cultivation and manipulation of cancer cell lines, CRISPR/Cas9, cellular electroporation, flowcytometry, cellular sorting, cytotoxicity bioluminescence and proliferation assays, lentivirus production, cell separation using MACS MicroBeads; PBMCs isolation from whole blood; hybridomas for mAbs production;
IMMUNOFLUORESCENCE: cell preparation, fixation and staining;
MICROSCOPY: light and fluorescence microscopy, Confocal Laser Scanning Microscopy, EpifluorescenceMicroscopy
Solution preparation, inventory
In vivo manipulation.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Communication and interpersonal skills

I gained excellent communicational and relational skills thanks to a short period abroad at Guy Hilton Centre at United Kingdom in which I faced intercultural excellences and new environments. Moreover, I improved those skills during my internship period at CREO, in which I learned also the ability of problem-solving.
I am a strongly motivated person, who is able to work independently and as a team.

● **ORGANISATIONAL SKILLS**

Organisational skills

I am a pro-positive person who is optimally able to organize the task to be carried out. Thanks to this attitude, I was accepted for my Master's Degree internship at CREO.

During this period I acquired excellent organizational skills, since I was responsible for my own experiments and in charge of preparing laboratory supplies.


● **PROFESSIONAL TRAINING**

2024 – 29/04/2025

Training course on the protection of animals used for scientific purposes

"In compliance with the Italian Legislative Decree 196/03 and General Data Protection EU Regulation (2016/679), I hereby authorized you to use and process my personal details contained in this document."

Perugia , 27/12/2025



Michela Capurro