

PERSONAL INFORMATION

Eleonora Capezzali

PROFESSIONAL
EXPERIENCE

-
- November 2022 – October 2025** **PhD Student in Biomedical Sciences and Biotechnology**
- Immunology Lab in the Department of Medicine (DMED) at University of Udine
Udine – Italy
- PhD Thesis Title: "Investigating B cells and mast cells in the immune landscape of high-grade serous ovarian cancer"*
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- April 2022 – September 2022** **Scientific Collaborator**
- Molecular Medicine at International Centre for Genetic Engineering and Biotechnology (ICGEB)
Trieste – Italy
- Project title: "Identification of non-coding RNA role in cardiac regeneration"*
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- April 2021 – March 2022** **Graduate Intern**
- Molecular Medicine at International Centre for Genetic Engineering and Biotechnology (ICGEB)
Trieste – Italy
- Project title: "Recombinant adenoassociated viruses (rAAVs) engineering for identification of molecular pathway activation and crosstalk in cardiomyocyte proliferation".*
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- Ottobre 2018 – Aprile 2019** **Undergraduate Intern**
- Department of Biology, Biotechnology and Chemistry at University of Perugia
Perugia - Italy
- Project title: "Role of probiotics in *Candida albicans* phenotypic switch inhibition".*

EDUCATION AND FORMATION

- November 2022 – October 2025** PhD, XXXVIII cycle
Biomedical Sciences and Biotechnology
University of Udine
Thesis title: "Investigating B cells and mast cells in the immune landscape of high-grade serous ovarian cancer"
- October 2019 – March 2022** Master Degree (MSc)
Functional Genomics, LM-6
University of Trieste
Thesis title: "Firefly Luciferase as a tool to detect the activation of YAP signalling in cardiomyocytes both *in vitro* and *in vivo*"
 Final evaluation: 110/110 cum laude
- October 2016 – July 2019** Bachelor Degree (BSc)
Biological Sciences, L-13
University of Perugia
Thesis title: "Long non-coding RNAs in B-cell development and malignancies"
 Final evaluation: 110/110 cum laude

PERSONAL SKILLS

Mother tongue	Italian				
Other languages	COMPREHENSION		SPEAKING		WRITING
	Listening	Reading	Interaction	Oral production	
English	B2	C1	C1	C1	B2
French	B1	B1	B1	B1	B1

Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato
[Quadro Comune Europeo di Riferimento delle Lingue](#)

TECHNICAL SKILLS

Cell isolation and profiling: purification of serum, manipulation, processing and storing of peripheral blood and tumor samples to isolate B lymphocytes and mast cells.

Cellular and immunological techniques: flow cytometry (panel design, surface and intracellular staining), immunofluorescence, cell culture, generation of patient-derived organoids, cell transfection/infection and pharmacological treatments.

Molecular biology techniques: RNA/DNA extraction and purification, retro transcription, amplification and analysis, cloning, gel electrophoresis (PCR, qPCR, qRT-PCR).

Biochemical techniques: protein analysis (western blot, ELISA).

SCIENTIFIC PRODUCTION

Publications.

De Carli, M., Capezzali, E., Tonon, S., & Frossi, B. (2023). Mechanism and clinical evidence of immunotherapy in allergic rhinitis. *Frontiers in allergy*, 4, 1217388.
<https://doi.org/10.3389/falgy.2023.1217388>

Arcieri, M., Capezzali, E., Restaino, S., Pregnolato, S., Mariuzzi, L., Mangogna, A., Orsaria, M., Tullisso, A., Tonon, S., De Martino, M., Isola, M., Driul, L., Pucillo, C., Scambia, G., Frossi, B., & Vizzielli, G. (2025). Study of the Role of the Tumor Microenvironment in Ovarian Cancer (MICO): A Prospective Monocentric Trial. *Cancer reports (Hoboken, N.J.)*, 8(6), e70242.
<https://doi.org/10.1002/cnr2.70242>

Capezzali, E., Arcieri, A., Tonon, S., Ricci, C., Valeri, V., Restaino, S., Driul, L., Gomba, B., Pregnolato, S., Mangogna, A., Mariuzzi, L., Tullisso, A., Orsaria, M., Andreatta, C., Pucillo, C., Vizzielli, G., Frossi, B. (2025). Characterization of B cell activation and spatial distribution in the tumor microenvironment of high-grade serous ovarian cancer. *Translational Oncology*. *Manuscript under revision*.

Valeri V., Mion F, Tonon S, Martinis E, Jachetti E, Sulsenti R, Capezzali E, Battista S, Mangogna A, Mariuzzi L, Fontanot M, Belmonte B, Cancila V, Tripodo C, Mozzon M, Uzzau A, Frossi B and Pucillo C (2025). Mast cell release of TNF- α indirectly contributes to recalling B cells in the colorectal cancer milieu through the CCL20/CCR6 axis. *Frontiers in Immunology*. *Manuscript under revision*.

Martinis E, Tonon S, Valeri V, Colamatteo A, Ricci C, Trevisan C, Capezzali E, Pivetta M, Battista S, Mozzon M, Uzzau A, Matarese G, Frossi B and Pucillo C (2025). Immunophenotypic skewing of B cells toward IgD⁻CD27⁻IgG⁺ subtype and metabolic attenuation in colorectal cancer. *JCI Insight*. *Manuscript under revision*.

Participation to National and International Congresses.

2023 – XIV congresso SIICA, Verona

2023 – I SIICA-SYIS Joint Symposium (Multi-omics approaches in immunological research), Roma

2024 – VII congresso europeo di immunologia (ECI – European Congress in Immunology) (awarded del Grant for International Congresses in memoria del Prof. Quadrifoglio), Dublino

2024 – XIII Trieste Next - Festival of Scientific Research (awarded della International Academy fellowship), Trieste

2025 - I Marcus Maurer Mast Cell Training School, 15-17 May 2025; Berlin, Germany.

2025 – XV congress SIICA, Perugia

Artioli R, D'Ambrosio L, Capezzali E, Cannilla R, Zentilin L, Giacca M, Collesi C; *Molecular tools to detect the activation of key signaling pathways driving cardiomyocyte proliferation*. Poster presented at ISHR World Congress; 2022 June 12-15; Berlin, Germany

Arcieri M, Capezzali E, Restaino S, Mariuzzi L, Orsaria M, Tullisso A, Trozzi R, Nero C, Driul L, Scambia G, Ercoli A, Tonon S, Pucillo C, Frossi B, Vizzielli G; *Tumor Immune Microenvironment and High Grade Serous Ovarian Carcinoma: immunophenotyping of tumor-infiltrating B cells*. Poster presented at ESGO European Congress 2024, 7-10 March 2024; Barcellona, Spain.

Troilo A, Lin J, Albanesi R, Viganò R, Capezzali E, Valeri V, Brambilla F, Mauri P, Di Silvestre D, Mollica L, Savino B, Pucillo C, Locati M, Borroni E M; *Dissecting structure and function of the macrophage testraspan MS4A4A*. Poster presented at ECI 2024, 1-4 September 2024; Dublin, Ireland.

Capezzali E, Arcieri M, Ricci C, Restaino S, Tonon S, Mariuzzi L, Orsaria M, Pucillo C, Vizzielli G, Frossi B; *Tumor immune microenvironment in ovarian cancer: advanced flow cytometry reveals B-cells variability and therapeutic potential*. Poster presented at ECI 2024, 1-4 September 2024; Dublin,

Ireland.

Martina Arcieri¹, Eleonora Capezzali², Stefano Restaino¹, Sara Pregnolato³, Benedetta Gomba³, Filippo Bordin³, Laura Mariuzzi⁴, Angelica Tullisso⁵, Maria Orsaria⁵, Carlo Pucillo², Lorenza Driul¹, Barbara Frossi², Giuseppe Vizzielli¹; *Characterization Of B Cells In Ovarian Cancer*. Poster presented at ESGO European Congress 2025, 20-23 February 2025; Rome, Italy.

Capezzali E.¹, Arcieri M.², Restaino S.², Mangogna A.¹, Tonon S.¹, Mariuzzi L.¹, Vizzielli G.^{1,2}, Pucillo C.¹, Frossi B.¹. *Investigating mast cells in High-Grade Serous Ovarian Cancer from tissue organization to functional behavior*. Poster presented at Marcus Maurer Mast Cell Training School, 15-17 May 2025; Berlin, Germany.

Capezzali E.¹, Arcieri M.², Restaino S.², Ricci C.¹, Tonon S.¹, Mangogna A.¹, Pregnolato S.², Orsaria M.², Mariuzzi L.¹, Pucillo C.¹, Vizzielli G.^{1,2}, Frossi B. *Tumor immune microenvironment in ovarian cancer: advanced flow cytometry reveals B cells variability*. Poster presented at XV National congress of SIICA, 17-20 June 2025; Perugia, Italy.

Capezzali E.¹, Arcieri M.², Restaino S.², Mangogna A.¹, Tonon S.¹, Mariuzzi L.¹, Vizzielli G.^{1,2}, Pucillo C.¹, Frossi B.¹. *Investigating mast cells in High-Grade Serous Ovarian Cancer from tissue organization to functional behavior: preliminary data*. Poster presented at XV National congress of SIICA, 17-20 June 2025; Perugia, Italy.

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Udine, 10/11/2025