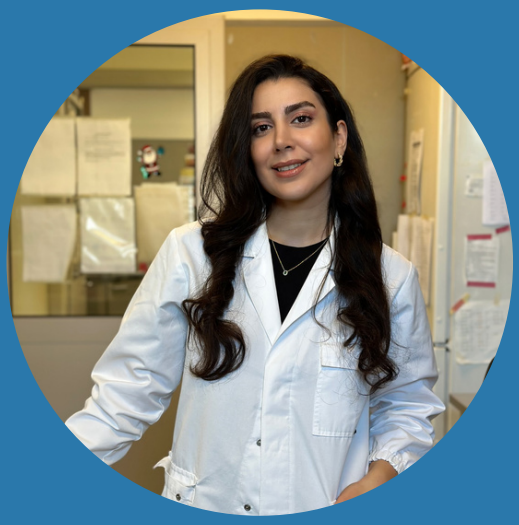

BEHNAZ ABDOLLAHZADEH

PHD STUDENT

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Behnaz.abdollahzadeh@uniroma1.it

Viale Regina Elena 291 - 00161 - Roma

LANGUAGES

- Persian - Mother Tongue
- English - Fluent
- Italian - Fluent

RESEARCH EXPERIENCE

Università la Sapienza, Roma, Italy | **ONGOING**
Doctoral student of Molecular Medicine holder of doctoral fellowship in pathology molecular laboratory, at the Department of Molecular Medicine
Role of the NOTCH receptor: 1) in the development of acute T-cell leukemia, 2)in the generation and function of myeloid-derived suppressor cells (MDSCs), and their crosstalk with NK cells, and possibly with other TME cell subgroups, such as Treg and follicular-helper-T-'like' cells 3) in modulating the expression of the PD1/PD-L1 axis, with a potential role of these molecules in T-ALL immunotherapy**.**

Weill Cornell Medicine Medical College, New York USA | **2023**
Fellowship as a mobility grant holder, in the prestigious Laboratory directed by Prof. Roberta Zappasodi, at the Division of Hematology and Medical Oncology
Investigation of the impact of tumor glycolysis and inhibition of immunosuppressive pathways, including those mediated by T-follicular-helper "like" cells and Myeloid-Derived Suppressor Cells (MDSCs) in the response to immunotherapy

Università la Sapienza, Roma, Italy | **2019 - 2020**
Assistant Researcher
At the DIP. Molecular Medicine in the group of Prof. Antonio Francesco Campese, PhD.

Università la Sapienza, Roma, Italy | **2018 - 2019**
Clinical Research Internship
at the Department of Translational and Precision Medicine in the group of Prof. Stefano Ginanni Corradini MD, PhD

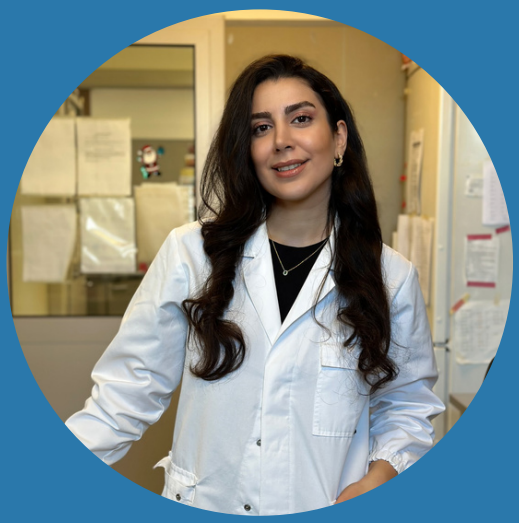
Salamat Aval Teheran Medical Center & Akhtar Hospital, Iran | **2015- 2016**
Clinical Assistant and clinical activity
at the Diagnostic Laboratory of Hematology and Biochemistry

EDUCATION HISTORY

Università la Sapienza, Roma, Italy | **2022**
Preclinical Experimentation and Animal Welfare.

Università la Sapienza, Roma, Italy | **2016 - 2019**
Master's Degree in Medical Biotechnology
Thesis title "Genetic Predisposition and Potential Involvement of Lysosomal Acid Lipase in Metabolic Dysregulation in Individuals with Liver Disease of Various Etiologies"

Azad University, North TehranBranch, Iran | **2011 - 2015**
Four-year Bachelor of Science in Cellular Molecular Biology in Microbiology



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SCHOLARSHIPS

Università la Sapienza, Roma, Italy | ***2021***
Participation in "THE INFLUENCE OF TUMOR MICROENVIRONMENT IN THE PROGRESSION OF NOTCH-DEPENDENT T-CELL ACUTE LYMPHOI LEUKEMIA: EXPLORING THE ROLE OF THE PD-1/PD-L1 AXIS"

Weill Cornell Medicine Medical College, New York, USA | ***2022 - 2023***
Winner of the research project "'Exploring the possible role of PD1 immune-checkpoint in the treatment of Notch-dependent 'T-cell acute lymphoblastic leukemia"

Università la Sapienza, Roma, Italy | ***2023***
Participation in "Inhibitors of anti-apoptotic Bcl-2 proteins in the treatment of Notch-dependent T-cell Acute Lymphoblastic Leukemia

SCIENTIFIC PUBLICATIONS

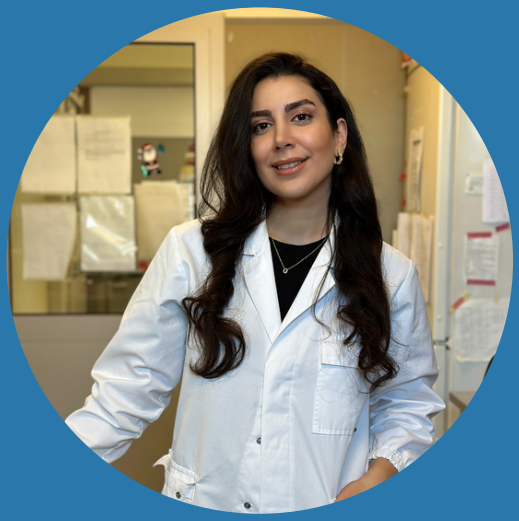
Grazioli P, Orlando A, Giordano N, Noce C, Peruzzi G, Abdollahzadeh B, Screpanti I, Campese AF.
Notch-Signaling Deregulation Induces Myeloid-Derived Suppressor Cells in T-Cell Acute Lymphoblastic Leukemia.
Front Immunol. 2022 Apr 4; 13:809261. doi: 10.3389/fimmu.2022.809261. PMID: 35444651; PMCID: PMC9013886.

CONFERENCES

"MDSC/NK CELLS CROSS-TALK IN NOTCH-DEPENDENT T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA: THE POSSIBLE ROLE OF THE PD-1/PD-L1 PATHWAY," *at the Gordon Research Conference on Notch Signaling in Development, Regeneration and Disease held 07/17/2022 - 07/22/2022 at Bates College in Lewiston, Maine, United States*

"EXPLORING THE ROLE OF NF-kB1/p50 IN NOTCH-DEPENDENT INDUCTION OF MDSCs IN T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA MICROENVIRONMENT" *at "62nd Annual Meeting of the Italian Cancer Society , Venice, 16-18 November 2022".*

"MYELOID-DERIVED SUPPRESSOR CELLS AS A POTENTIAL TARGET OF IMMUNOTHERAPY IN NOTCH-DEPENDENT T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA" *at "the Notch Meeting XII" which took place in Athens, Greece*



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LANGUAGES

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COMUNICATION SKILLS

- *Strong ability to integrate into multicultural environments with a pronounced team spirit*
- *Excellent communication and interpersonal skills*
- *Ability to search, interpret and communicate scientific data*
- *Determined and outcome-focused professional, driven by a proven history of achieving success*
- *Comprehensive familiarity and demonstrated proficiency in navigating immunotherapy microenvironments*
- *Strong knowledge and understanding in the oncology therapy area, particularly within solid tumors and hematological malignancies*
- *Ability to comprehensively learn about new subject areas and environments*
- *Good organizational and time management skills*
- *An ability to take initiative and work both independently and in a team environment*
- *Ability to actively listen and process information to identify opportunities*
- *Excellent written and spoken communication and presentation skills, with a demonstrated ability to develop and maintain strong collaborative relationships*
- *Team player; ability to share good practices and knowledges*
- *Dynamic person with strong value commitment*
- *Good computer skills: solid knowledge of Microsoft Office and the ability to learn appropriate software*

RELEVANT SKILLS

- Staining and analysis of cell samples by Flow-cytometry (BD Symphony) and FlowJo
- Cell sample treatments and analysis using the Celigo Image Cytometer.
- Experience in vitro and in vivo suppression assays
- Separation of cell populations from peripheral blood and murine organs, by both magnetic bead's protocols and FACS-assisted cell sorting experiments
- Isolation of blood cell populations from peripheral venous blood through differential centrifugation and density gradient centrifugation techniques
- Perform with tissues from genetically modified mouse models
- Pharmacological treatment
- Statistical skills working with SPSS, PRISM
- Knowledge and experience with RNA/DNA and protein extraction
- PCR,qPCR assays and analysis
- Expertise in cell culture and basic cellular and molecular biology techniques
- ELISA assays
- Demonstrated expertise in performing Chromatin Immunoprecipitation (ChIP) methodologies, proficiently investigating chromatin modifications and protein-DNA interactions
- Experience in functional genomics (siRNA)
- Cell Transfusion Technique (NEON SYSTEM TRANSFECTION)
- Western blot technique
- Experience in handling patient samples
- Acquisition of blood sampling from peripheral venous blood
- Bacteriology techniques (Culture of aerobic, microaerophilic, and anaerobic microorganisms)

10/01/2024

Behnaz Abdollahzadeh