ADITI SHASTRI, M.D.

Positions:

Associate Professor of Medicine
Associate Professor of Developmental & Molecular Biology
Division of Hematologic Malignancies & Bone Marrow Transplant
Montefiore Medical Center & Albert Einstein College of Medicine
Member, Ruth L. and David S. Gottesman Institute for Stem Cell and Regenerative Medicine
Research (Albert Einstein College of Medicine)

Research interests:

1.Understanding the role of the leukemic stem cells (LSC) in AML & MDS and therapeutic targeting of STAT3: Signal Transduction & Activator of Transcription 3 (STAT3), is a transcription factor that is over-expressed in hematologic malignancies and associated with decreased overall survival. We are targeting STAT3 with multiple therapeutic agents with novel mechanisms and have already generated promising preclinical data. We hope to be able to preclinically translate several promising therapies such as antisense inhibition of STAT3 & STAT3 degraders into early phase clinical trials in MDS & AML.

<u>with hematologic malignancies</u> We have previously used large genomic datasets of patients with myeloid malignancies to highlight health disparities. We are continuing to explore the relationship of health disparities and how it relates to adverse presentations of hematologic malignancies using large clinical datasets and translational murine models.

Current grant funding:

Leukemia Lymphoma Society 07/2019-06/2022

TRP Grant (Shastri, PI) Project: Antisense Inhibition of STAT3 As A

Therapeutic Strategy Against Leukemic Stem Cells

MDS Foundation (Shastri, PI) 9/2021-8/2023

Young Investigator Grant Project: STAT3 Degradation As A Therapeutic

Strategy Against Therapy Resistant MDS

Recent publications (selected):

Shastri A; Will B; Steidl U; Verma A. Stem Cell Alterations In Myelodysplastic Syndromes. *Blood*, 2017 Feb, PMID: 28159737

Darbinyan K*; **Shastri, A***; Budhathoki, A*; Helbig, D; Pradhan K et all. Hispanic Ethnicity is Associated with Younger Age at Presentation and Worse Survival in Acute Myeloid Leukemia. *Blood Advances*. * Equally Contributed 2017 Oct. PMID: 29296859

Shastri A et al. Antisense Inhibition of STAT3 As A Therapeutic Strategy Against MDS & AML Stem Cells. Journal of Clinical Investigation, 2018 Dec, PMID: 30252677

Adrianzen Herrera D, Pradhan K, Snyder R, Karanth S, Janakiram M, Mantzaris I, Braunschweig I, Budhathoki A, Shah UA, Verma AK, Murthy SB, **Shastri A.** Myelodysplastic syndromes and the risk of cardiovascular disease in older adults: A SEER Medicare analysis. *Leukemia*. 2019 Dec 16. PMID: 31844145