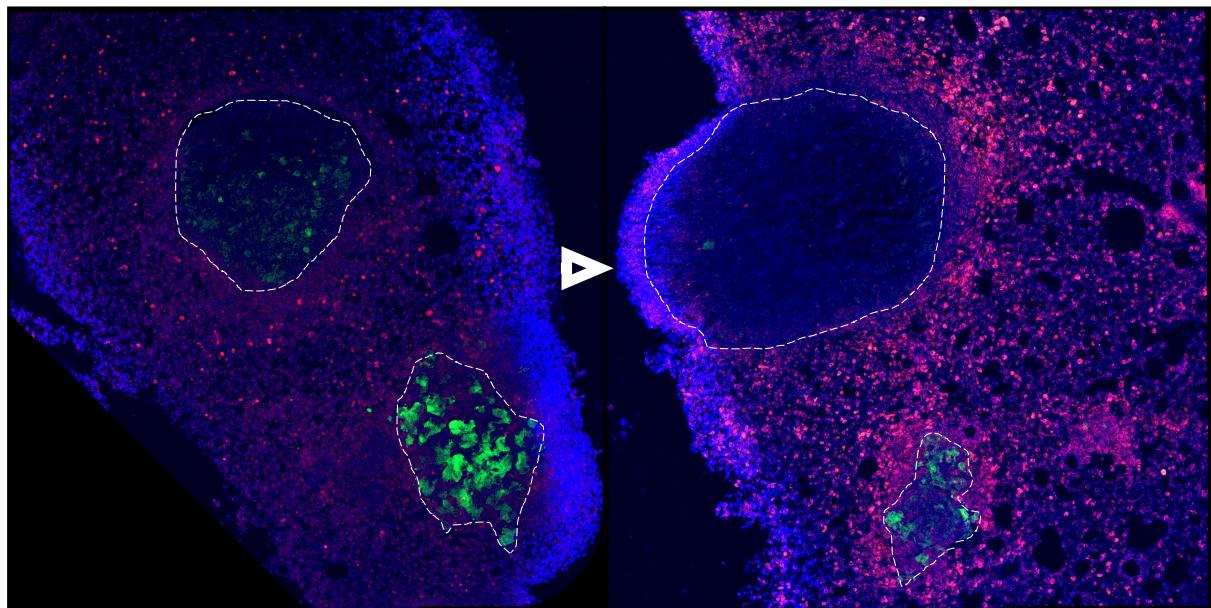


JAK Lab

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Home Solid cancers evolve amongst resident and infiltrating immune cells that will comprise the tumor microenvironment (TME) and suppress the adaptive immune response. When hundreds of millions to billions of tumor-targeted T cells are infused into a patient, some traffic to the tumor site where they interact with target as well as non-target cells in the TME. Our goal is to understand the parameters driving the activity and fate of infused T cell products within the TME, and design novel T cell therapies that capitalize on the immunobiology of solid tumors to achieve durable anti-tumor responses.

Research Recombination of T cell signaling motifs with target-binding domains form chimeric antigen receptors ("CAR") that can direct the specificity of T cells¹. We take advantage of state-of-the-art techniques in applied immunology and cellular engineering, CRISPR/Cas9 gene-editing, and immunocompetent mouse models, to advance CAR T cell therapies for solid tumors.

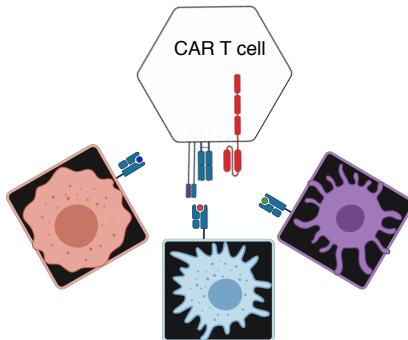
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About

We seek to:

1. Identify how the expression of chimeric antigen receptors alters the immunobiology of T cells within the immune tumor microenvironment
2. Understand how radiotherapy can be applied to alter the tumor immune landscape and improve immunotherapy
3. Develop novel cell therapies that capitalize on immunologic phenomena unique to CAR T cells

The Ahmed Khan lab is part of the highly collaborative and interdisciplinary Precision Immunology Institute and the Tisch Cancer Institute at the Icahn School of Medicine at Mount Sinai in Manhattan. We are recruiting energetic and motivated researchers at all levels to join our team. Interested applicants should send a CV and references to: jalal.ahmed@mountsinai.org



Mount Sinai is an Equal Opportunity Employer committed to diversity and inclusion in all aspects of recruiting and employment. All qualified individuals are encouraged to apply and will receive consideration without regard to race, color, gender identity or expression, sexual orientation, national origin, age, religion, creed, disability, veteran status or any other factor which cannot lawfully be used as a basis for an employment decision.

Funding Sources

Our work would not be possible without the support of our sponsors:



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Research and Support Staff

Morgan Pierce – Administrative assistant



Jalal Ahmed Khan M.D./Ph.D.

Awards:

NIH Director's Early Independence Award (2021)
American Society of Clinical Oncology Young Investigator Award (2019)
Lung Cancer Research Foundation Scientific Award (2018)
Student Speaker Award, 213th Meeting of the Interurban Clinical Club (2016)
Ruth L. Kirschstein NRSA Individual Predoctoral M.D./Ph.D. F30, National Heart, Lung and Blood Institute.(2014)
New Investigator Student Award, 43rd Meeting of the ISEH (2014)

Significant Publications:

Jalal A. Khan, Robert G. Maki, Vinod Ravi. Pathologic Angiogenesis of Malignant Vascular Sarcomas: Implications for Treatment. *Journal of Clinical Oncology*. 2017.

Jalal A. Khan, Avital Mendelson, Yuya Kunisaki, Yan Kou, Anna Arnal-Estabé, Sandra Pinho, Paul Ciero, Fumio Nakahara, Avi Ma'ayan, Aviv Bergman, Miriam Merad, Paul S. Frenette. Fetal liver hematopoietic stem cell niches associate with portal vessels. *Science*. 2016. Featured on Cover

Toshihide Mizoguchi, Sandra Pinho, **Jalal Ahmed**, Yuya Kunisaki, Maher Hanoun, Avital Mendelson, Noriaki Ono, Henry M. Kronenberg, Paul S. Frenette. Osterix marks distinct waves of primitive and definitive stromal progenitors during bone marrow development. *Developmental Cell*. 2014

Ingmar Bruns*, Daniel Lucas*, Sandra Pinho*, **Jalal Ahmed**, Michele P. Lambert, Yuya Kunisaki, Christoph Scheiermann, Jasimuddin Ahamed, Mortimer Poncz, Aviv Bergman, and Paul S. Frenette. Megakaryocytes regulate hematopoietic stem cell quiescence via CXCL4 secretion. *Nature Medicine*. 2014

Yuya Kunisaki, Ingmar Bruns*, Christoph Scheiermann*, **Jalal Ahmed**, Sandra Pinho, Dachuan Zhang, Toshi Mizoguchi, Quaizo Wei, Daniel Lucas, Keisuke Ito, Mar JC, Aviv Bergman, Paul Frenette. Arteriolar niches maintain hematopoietic stem cell quiescence. *Nature*. 2013

Andrew Chow, Mathew Huggins, **Jalal Ahmed**, Daigo Hashimoto, Daniel Lucas, Yuya Kunisaki, Sandra Pinho, Marylene Leboeuf, Clara Noizat, Nico van Rooijen, Tanaka M, Zhao ZJ, Aviv Bergman, Miriam Merad, Paul Frenette. CD169⁺ macrophages provide a niche promoting erythropoiesis under homeostasis and stress. *Nature Medicine*, 2013

Postdoctoral Scholars

Sheema Almozyan Ph.D.

Awards

Significant Publications

Oscar Padilla M.D.
Awards

Significant Publications

Lab Alumni:
2019-2020 Merouane Ounadjela B.S. – research technician
2020-2022 Achith Nair B.S. – research technician, now PhD Candidate at Gerstner Sloan Kettering Graduate School of Biomedical Sciences at MSKCC

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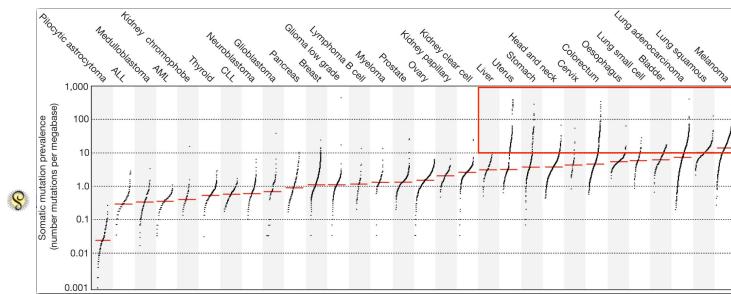


We are located in The Leon and Norma Hess Center for Science and Medicine on the Upper East Side of Manhattan



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LB Alexandrov et al. *Nature* 000, 1-7 (2013) doi:10.1038/nature12477

