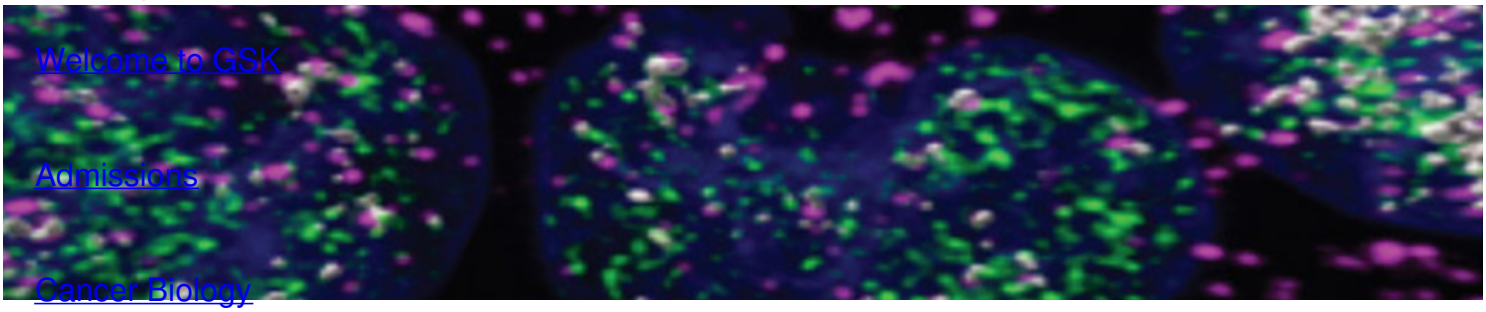
Gerstner Sloan Kettering
Graduate School of Biomedical Sciences



Welcome to GSK

Admissions

Cancer Biology

MOLECULAR PHARMACOLOGY PROGRAM

Cancer Engineering

The Michael Kharas Lab

Research

Research

Alumni

Michael G. Kharas, PhD

Professor

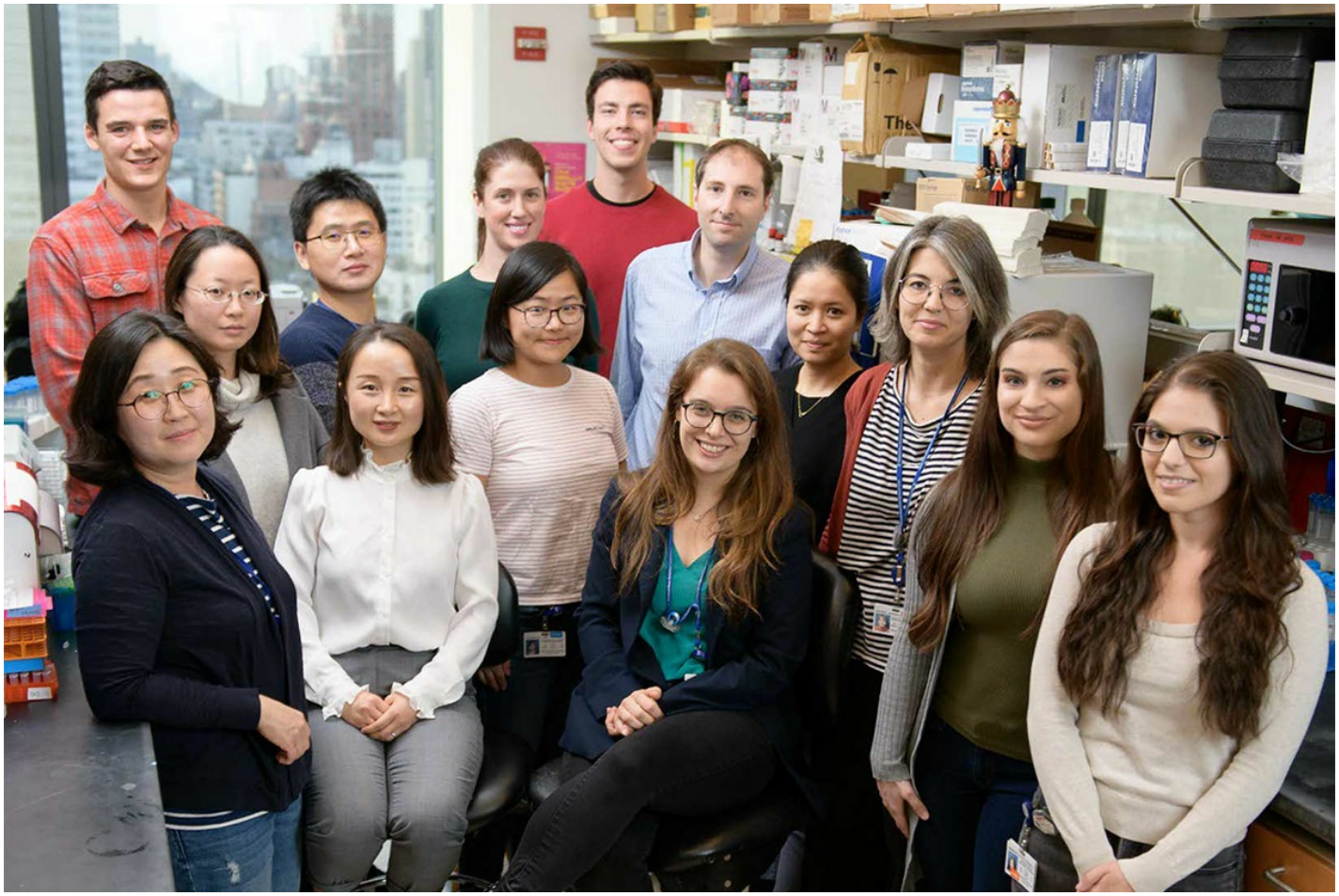
The Kharas lab is working to identify critical pathways in both normal and leukemic hematopoietic cells.

View Lab Overview (https://www.sloankettering.edu/research-areas/labs/michael-kharas/overview)

VIDEO | 02:13

Go inside the lab of Michael Kharas from SKI's Molecular Pharmacology Program.

Video Details (https://www.sloankettering.edu/videos/inside-my-lab-michael-kharas)



Featured News

IN THE LAB

[Researchers Discover New Cancer Cell Vulnerability: Droplets in the Nucleus]

SKI researchers have learned how tiny droplets prevent a cancer-causing type of messenger RNA from being degraded in leukemia cells.

IN THE LAB

Fructose Could Play a Role in Targeting Leukemia

Leukemia cells metabolize fructose in a way that could make them easier to target with drugs.

IN THE LAB

Novel Tool Enables Study of Rare Acute Myeloid Leukemia Stem Cells

MSK investigators have used a lab tool originally developed to study fly nerve cells to uncover new findings about acute myeloid leukemia.

View All Featured News

Publications Highlights

Dual IKZF2 and CK1α degrader targets acute myeloid leukemia cells . Park SM, Miyamoto DK, Han GYQ, Chan M, Curnutt NM, Tran NL, Velleca A, Kim JH, Schurer A, Chang K, Xu W, Kharas MG, Woo CM. Cancer Cell. 2023 Apr 10;41(4):726-739.e11. doi: 10.1016/j.ccell.2023.02.010. Epub 2023 Mar 9. PMID: 36898380.

Serine synthesis pathway flux is essential for acute myeloid leukemia cells to proliferate in fructose-rich conditions. Jeong S, Savino AM, Chirayil R, Cheng Y, Barin E, Park SM, Schurer A, Mullarky E, Cantley LC, Kharas MG*, Keshari KR*. Cell Metab. 5 January 2021, Pages 145-159.

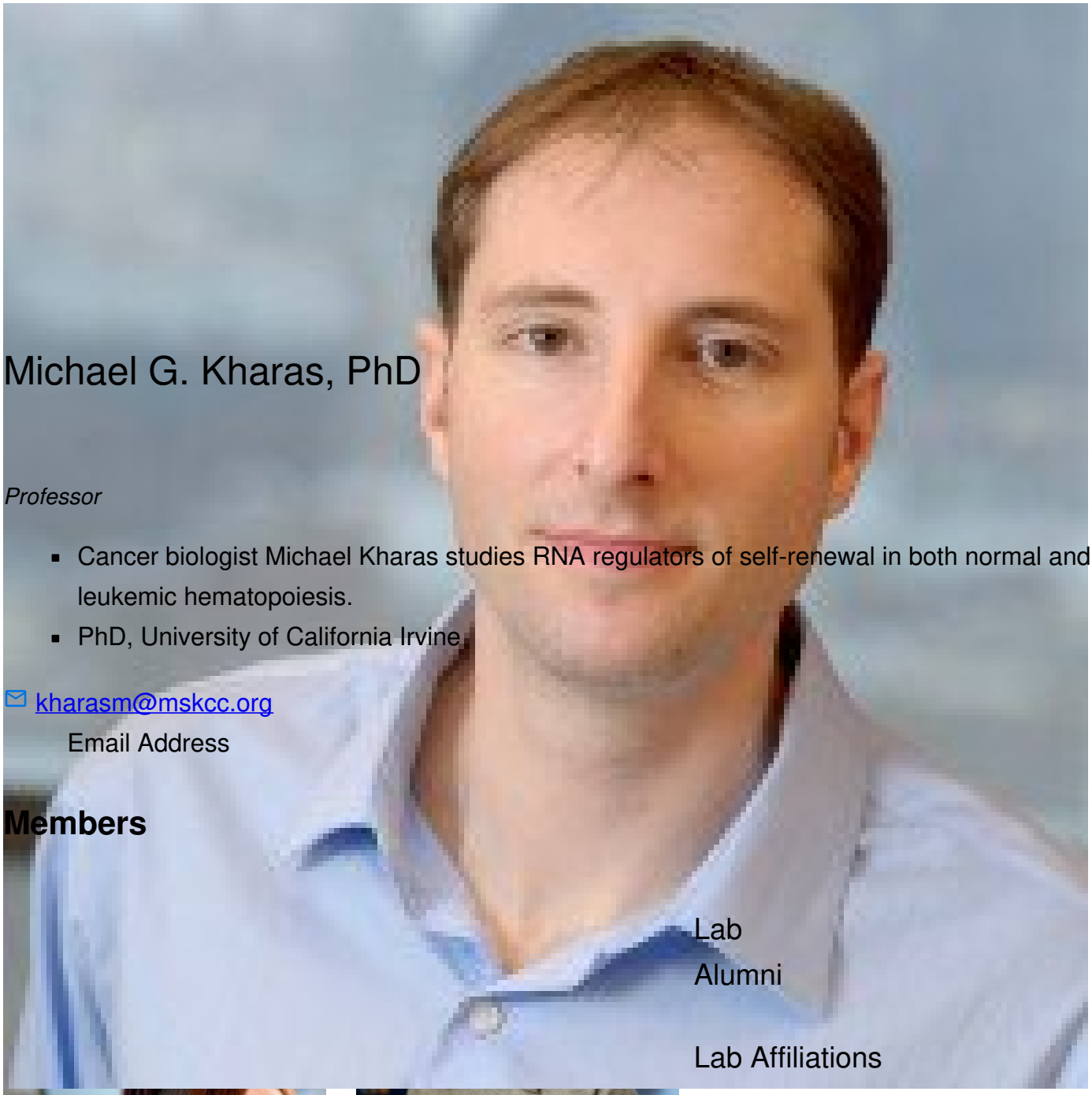
TP53 mutations and RNA binding protein MUSASHI2 drive resistance to PRMT5-targeted therapy in B-cell lymphoma. Erazo T, Evans CM, Zakheim D, Chu KL, Refermat AY, Asgari Z, Yang Z, Ferreira MD, Mehta S, Russo MV, Knezevic A, Zhang XP, Chen Z, Fennell M, Garippa R, Seshan V, de Stanchina E, Barbash O, Batlevi CL, Melnick AM, Younes A*, Kharas MG*. Nat Comm 2022 September 27. 13(5626).

N6-methyladenosine on mRNA facilitates a phase-separated nuclear body that suppresses myeloid leukemic differentiation . Cheng Y*, Xie W*, Pickering BF, Chu KL, Savino AM, Yang X, Luo H, Nguyen DTT, Mo S, Barin E, Velleca A, Rohwetter T, Patel DJ, Jaffrey SR, Kharas MG*. Cancer Cell. July 2021.

Transcriptional control of CBX5 by the RNA binding proteins RBMX/L1 maintain chromatin state in myeloid leukemia. Prieto C, Nguyen DTT, Liu Z,Wheat J, Perez A, Gourkanti S, Chou T, Barin E, Velleca A, Rohwetter T, Barin E, Chow A, Taggart J, Hoskova K, Dhodapkar M, Schurer A, Barlowe TS, Vu LP, Leslie C, Steidl U, Rabadan R, Kharas MG*. Nat Cancer. July 2021. 5: 741-757.

View All Publications

People



Michael G. Kharas, PhD

Professor

- Cancer biologist Michael Kharas studies RNA regulators of self-renewal in both normal and leukemic hematopoiesis.
- PhD, University of California Irvine

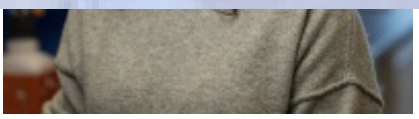
kharasm@mskcc.org
Email Address

Members

Lab
Alumni

Lab Affiliations

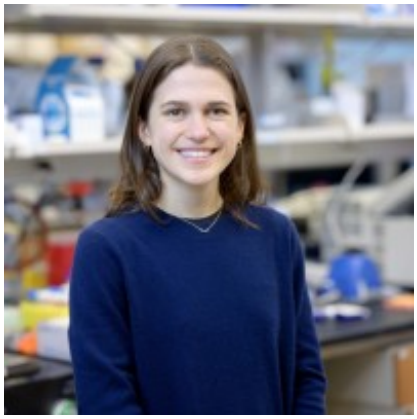
Laura Wilson
Project Coordinator



Angelika Aleman
Postdoctoral Fellow

Achievements

- Leukemia and Lymphoma Society Career Development Award (2017)
- Alex Lemonade Stand Foundation ‘A’ Award (2016)
- American Society of Hematology Junior Faculty Scholar Award (2011)
- Kimmel Scholar Award (2013)
- V-Scholar Award (2013)

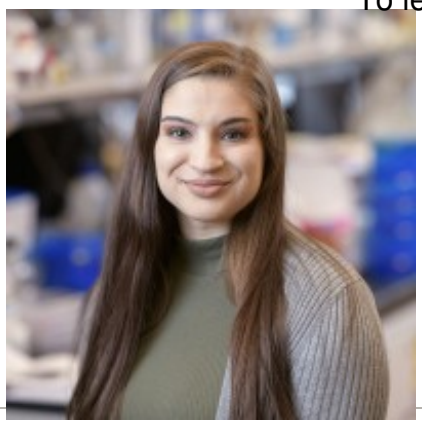


Emily Batchelor

Research Technician

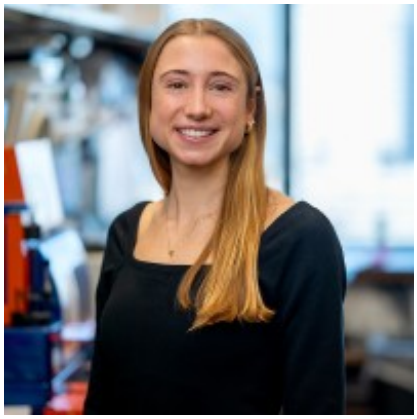
Harold Elias

Senior Research Scientist



Chiara Evans

Postdoctoral Fellow

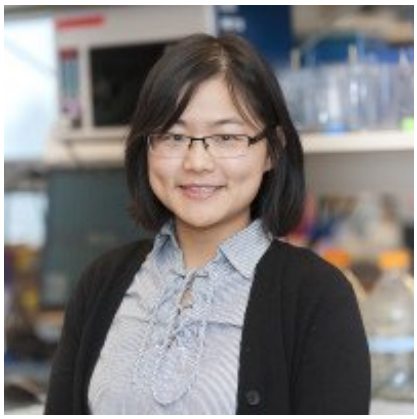


Genevieve Girard

Research Technician

Michael Kharas

Member



Hanzhi Luo

Research Fellow

Sibasish Mohanty

Research Scholar

Open Positions

To learn more about available postdoctoral opportunities, please visit our Career Center

To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit Resources for Postdocs

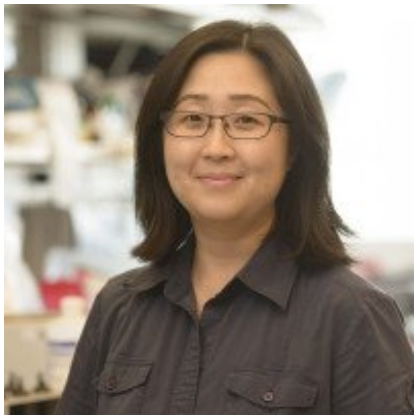
Career Opportunities

Apply

now (https://www.sloankettering.edu/research-areas/labs/michael-kharas/career-opportunities)

Research Technician

As a Research Technician you will perform research activities in collaboration with internal/external personnel to complete science-based projects. You will normally receive detailed instructions while



Sun Mi Park

Research Associate

Rhoshini Raghuraman

Research Technician

making observations, analyzing data and interpreting results according to laboratory procedures. The Research Technician will provide support to all technical/research staff and postdocs.

Apply

Briana Turner

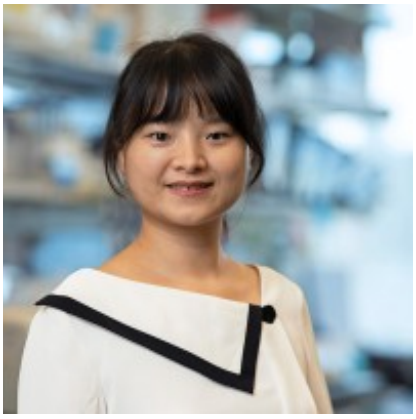
WCMC Graduate Student

Isaac Wakiro

GSK Student

Wei Wei

Fellow, Graduate Medical Education



Xueqin Xie

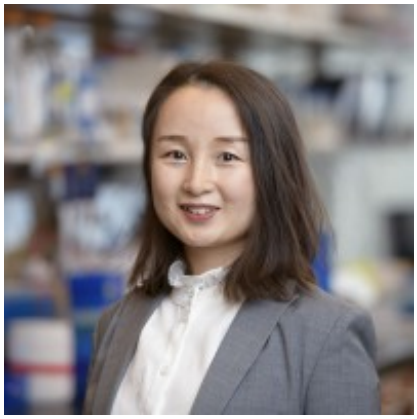
Research Scholar - NYSTEM Training Award at the CSCB

now (https://www.sloankettering.edu/research-areas/labs/michael-kharas/research-technician)

Get in Touch

kharasm@mskcc.org

Lab Head Email



Xuejing Yang
Postdoctoral Fellow

[Follow the Kharas Lab on X]

Disclosures

Members of the MSK Community often work with pharmaceutical, device, biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community. These activities outside of MSK further our mission, provide productive collaborations, and promote the practical application of scientific discoveries.

MSK requires doctors, faculty members, and leaders to report ("disclose") the relationships and financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the public. Not all disclosed interests and relationships present conflicts of interest. MSK reviews all disclosed interests and relationships to assess whether a conflict of interest exists and whether formal COI management is needed.

Michael G. Kharas discloses the following relationships and financial interests:

- 858 Therapeutics, Inc.
  Equity; Professional Services and Activities
- AstraZeneca
  Professional Services and Activities
- Kumquat Biosciences
  Professional Services and Activities
- Transition Bio, Inc.
  Professional Services and Activities

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This page and data include information for a specific MSK annual disclosure period (January 1, 2024 through disclosure submission in spring 2025). This data reflects interests that may or may not still exist. This data is updated annually.

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View all disclosures (https://www.sloankettering.edu/disclosures)