

<mark>ดือเœcธียลเคราะ</mark>เลิรที่ผล

The Michael Kharas Lab

Alumni Faculty

Research

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Michael G. Kharas, PhD

Professor

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

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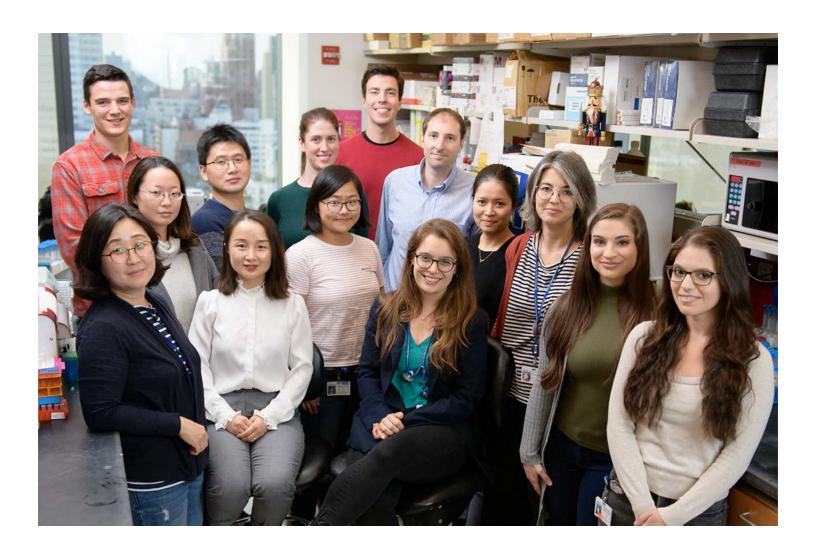
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Go inside the lab of Michael Kharas from SKI's Molecular Pharmacology Program.

Video Details



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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

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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.

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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

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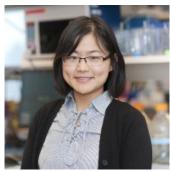
People



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Michael Kharas Member



Hanzhi Luo Research Fellow



Sibasish Mohanty Research Scholar

Fellow, Graduate Medical

Wei Wei

Education



Sun Mi Park Research Associate



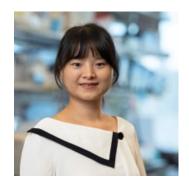
Aspen Pierson
Research Technician



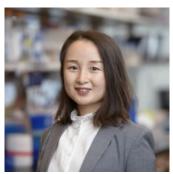
Isaac Wakiro GSK Student



Laura Wilson Senior SKI Administrative Assistant



Xueqin
Xie
Research Scholar NYSTEM Training Award
at the CSCB



Xuejing Yang
Postdoctoral Fellow

Lab Alumni

Lab Affiliations

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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)

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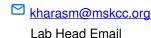
Research Technician

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

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Disclosures

Doctors and faculty members 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.

MSK requires doctors and faculty members 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.

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

The Michael Kharas Lab 8/10 858 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, 2022 through disclosure submission in spring 2023). This data reflects interests that may or may not still exist. This data is updated annually.

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