×



Make an Appointment

HUMAN ONCOLOGY & PATHOGENESIS PROGRAM

Mediant & BaipipOtantoreen & Treatment Refer a Patient

''' 7

The Katharine Hsu Lab

ABOUT US

Our mission, vision & core values

Leadership

History

Equality, diversity & inclusion

Annual report

Give to MSK

_ - _ _.._

The Katharine Hsu Lab 1/8



Katharine C. Hsu, MD, PhD Professor of Medicine

My laboratory studies the natural killer (NK) cell and the molecules that control its ability to recognize and kill cancer and virally infected cells. Improved understanding of how NK cells behave is critical to advancing our ability to harness their innate capacity for tumor recognition and eradication. Therefore, an important component of my research focuses on the basic biology of the NK cell, identifying the molecules involved in controlling NK reactivity, and determining the laboratory and clinical conditions under which NK activity can be modified.

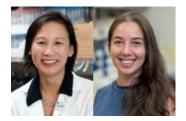
View Lab Overview



The Katharine Hsu Lab 2/8



Featured News



Unusual Immune Cell Type Could Be Good Target for Immunotherapy

Part natural killer, part T cell, this hybrid immune cell has a "double sword" for fighting cancer.



Dr. Katharine Hsu Named Director of Tri-Institutional M.D.-Ph.D. Program

In her new role, Dr. Hsu will work to diversify matriculating classes and train students to become skilled leaders as both clinicians and biomedical researchers.

The Katharine Hsu Lab 3/8

IN THE LAB



Study Suggests Refined Donor Selection Could Improve Outcomes of Bone Marrow Transplantation in Leukemia

In the future, more-advanced genetic testing might offer better ways to match up patients who need a bone marrow transplant with potential donors.

Publications Highlights

Hasan AN, Doubrovina E, Sottile R, Prockop S, Klatt MG, Heller G, Selvakumar A, Barnett L, Hsu KC, O'Reilly RJ. Dominant epitopes presented by prevalent HLA alleles permit wide use of banked CMVpp65 T-cells in adoptive therapy. Blood Adv. 2022 May 23:bloodadvances.2022007005. doi: 10.1182/bloodadvances.2022007005. Epub ahead of print.

Petersdorf EW, McKallor C, Malkki M, He M, Spellman S, Hsu KC, Strong R, Gooley TA, Stevenson PA. Role of NKG2D Ligands and Receptor in Haploidentical Related Donor Hematopoietic Cell Transplantation. Blood Adv. 2023 Feb 10:bloodadvances.2022008922. doi: 10.1182/bloodadvances.2022008922. Epub ahead of print.

van der Ploeg K, Sottile R, Kontopoulos T, Shaffer BC, Papanicolaou GA, Maloy MA, Cho C, Robinson KS, Perales MA, Le Luduec JB, Hsu KC. Emergence of human CMV-induced NKG2C+ NK cells is associated with CD8+ T-cell recovery after allogeneic HCT. Blood Adv. 2023 Oct 10;7(19):5784-5798. doi: 10.1182/bloodadvances.2022008952. PMCID: PMC10561005.

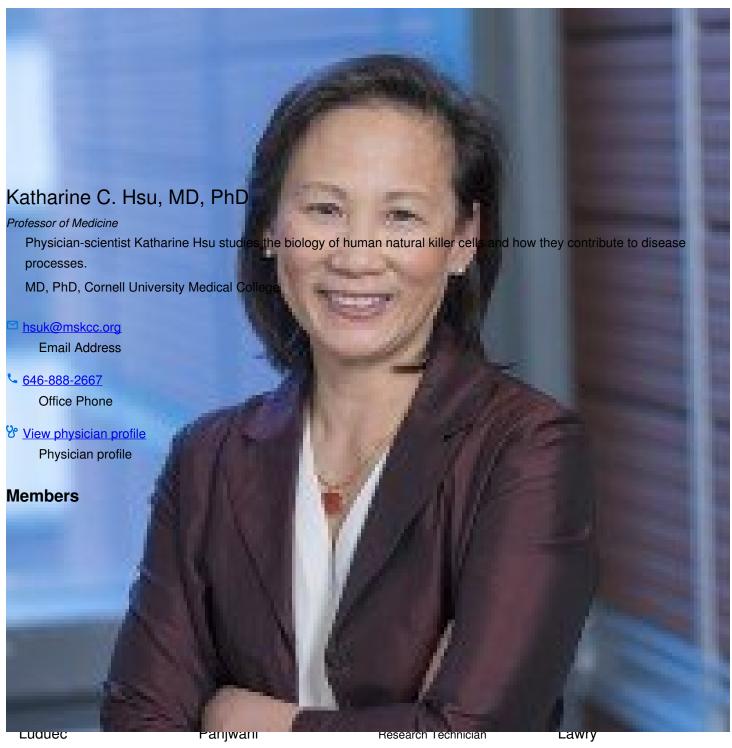
Shahid S, Ceglia N, Le Luduec JB, McPherson A, Spitzer B, Kontopoulos T, Bojilova V, Panjwani MK, Roshal M, Shah SP, Abdel-Wahab O, Greenbaum B, Hsu KC. Immune profiling after allogeneic hematopoietic cell transplantation in pediatric acute myeloid leukemia. Blood Adv. 2023 Sep 12;7(17):5069-5081. doi: 10.1182/bloodadvances.2022009468. PMCID: PMC10471937.

Santosa EK, Kim H, Rückert T, Le Luduec JB, Abbasi AJ, Wingert CK, Peters L, Frost JN, Hsu KC, Romagnani C, Sun JC. Control of nutrient uptake by IRF4 orchestrates innate immune memory. Nat Immunol. 2023 Oct;24(10):1685-1697. doi: 10.1038/s41590-023-01620-z. Epub 2023 Sep 11.

View All Publications

People

The Katharine Hsu Lab 4/8



Scientific Research Lead

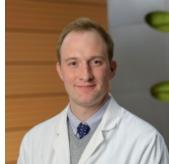
Research Fellow

Research Teach









The Katharine Hsu Lab 5/8

Hongtao Liu Research Tech Kyle Lupo

Research Fellow

Gianluca Scarno Research Scholar Brian Shaffer

Assistant Attending



Sanam Shahid Clinical Fellow



Katja Srpan

Research Scholar

Lab Alumni

+

Lab Affiliations

+

Get in Touch

646-888-2667
Office Phone

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.

Katharine C. Hsu discloses the following relationships and financial interests:

Wugen, Inc.

Professional Services and Activities (Uncompensated)

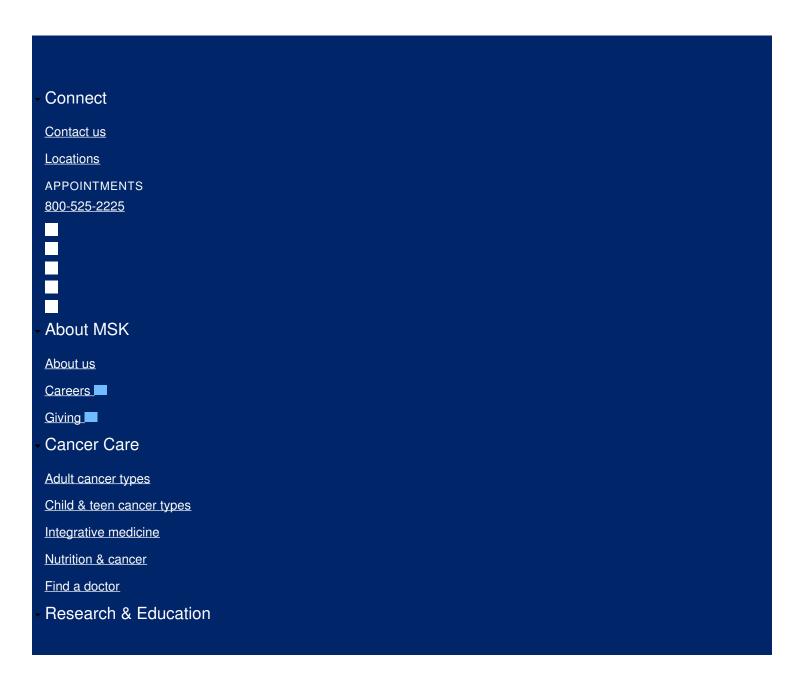
The Katharine Hsu Lab 6/8

The information published here is for a specific annual disclosure period. There may be differences between information on this and other public sites as a result of different reporting periods and/or the various ways relationships and financial interests are categorized by organizations that publish such data.

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.

Learn more about MSK's COI policies <u>here</u>. For questions regarding MSK's COI-related policies and procedures, email MSK's Compliance Office at <u>ecoi@mskcc.org</u>.

View all disclosures -



The Katharine Hsu Lab 7/8

Sloan Kettering Institute
Gerstner Sloan Kettering Graduate School ■
Graduate medical education
MSK Library
Communication preferences
Cookie preferences
Legal disclaimer
Accessibility statement
Privacy policy

Price transparency
Public notices

© 2024 Memorial Sloan Kettering Cancer Center

The Katharine Hsu Lab 8/8