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CHEMICAL BIOLOGY PROGRAM

The Yueming Li Lab



Yueming Li, PhD

Research Interests

Basic & Translational research in Cancer and Alzheimer's disease:
From disease mechanism to therapeutic development.

Research Areas

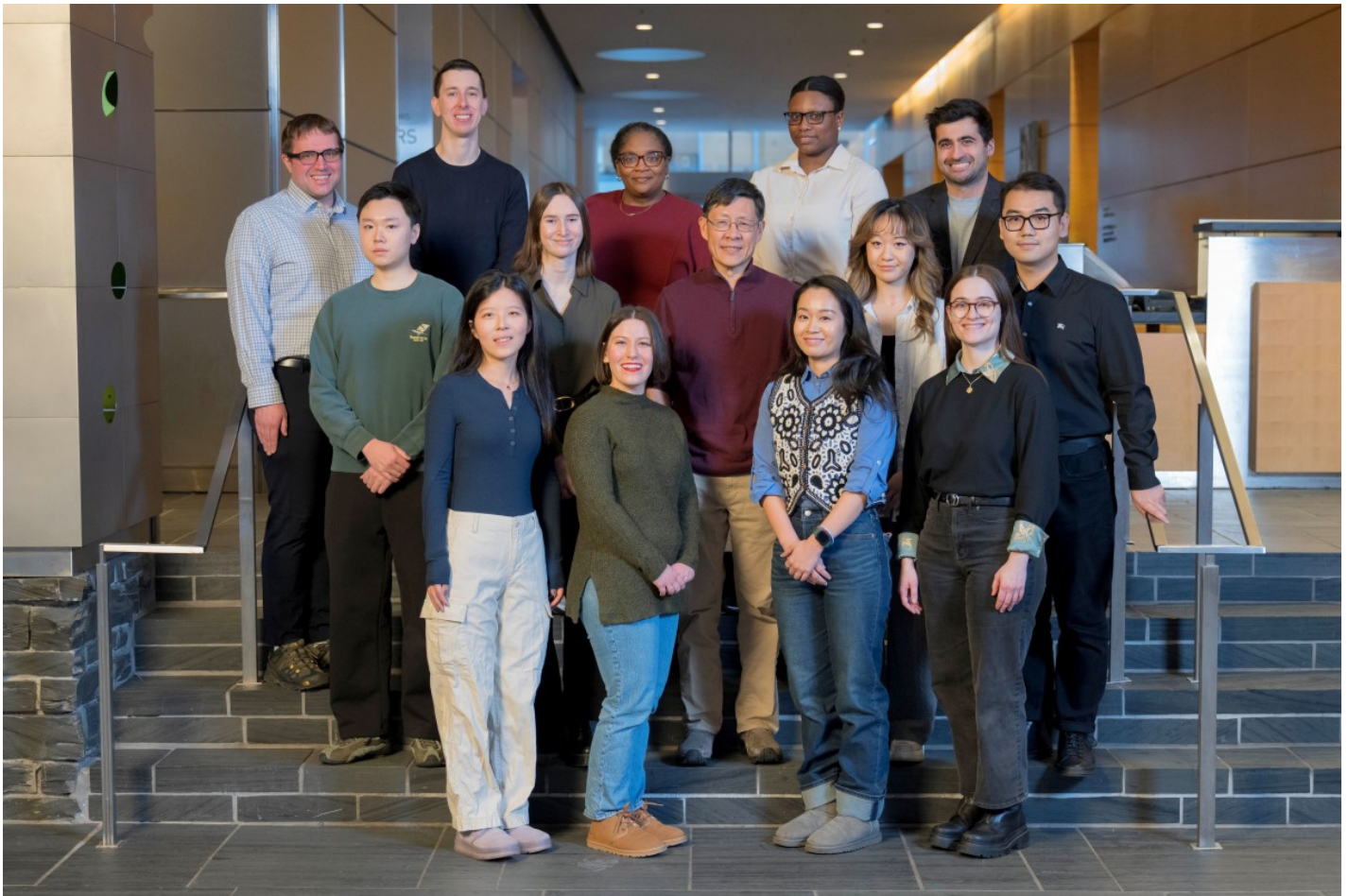
- Target Identification & Drug Discovery
- Chemical Biology & Medicinal Chemistry

- Biochemistry & Enzymology
- Biophysics & Structural Biology
- Animal models & Behavior
- Neurobiology & Neuroinflammation
- Autophagy, Protein Aggregation & Clearance

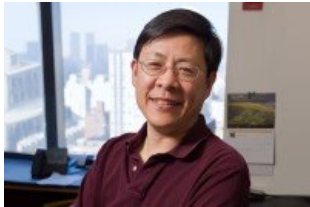
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Research Projects

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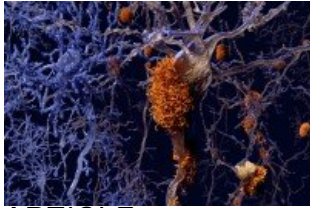


Featured News



[At Work: Biochemist Yueming Li](#)

Yueming Li aims to develop new agents that inhibit particular intramembrane proteases associated with cancer.



ARTICLE

[MSK Study Links Inflammation to Alzheimer's Disease Development](#)

An enzyme that contributes to plaque formation in the brain also serves as a first line of defense against bacteria and viruses, suggesting a link between the two.

[Nanotechnology May Aid Diagnosis](#)

Biochemist Yueming Li commented on new technology that is three million times more sensitive at detecting Alzheimer's disease and certain cancers....

Publications Highlights

Nie P, Wu Y, Robinson J, Mekala S, Lee VMY, Li YM. *In Situ* Labeling of Pathogenic Tau Using Photo-Affinity Chemical Probes. *ACS Chem Biol*. 2025 Mar 21;20(3):581-591. doi: 10.1021/acscchembio.5c00073. Epub 2025 Mar 13. PMID: 40079621.

Wong E, Malviya M, Jain T, Liao GP, Kehs Z, Chang JC, Studer L, Scheinberg DA, Li YM. HuM195 and its single-chain variable fragment increase A β phagocytosis in microglia via elimination of CD33 inhibitory signaling. *Mol Psychiatry*. 2024 Jul;29(7):2084-2094. doi: 10.1038/s41380-024-02474-z. Epub 2024 Feb 21. PMID: 38383769; PMCID: PMC11336028.

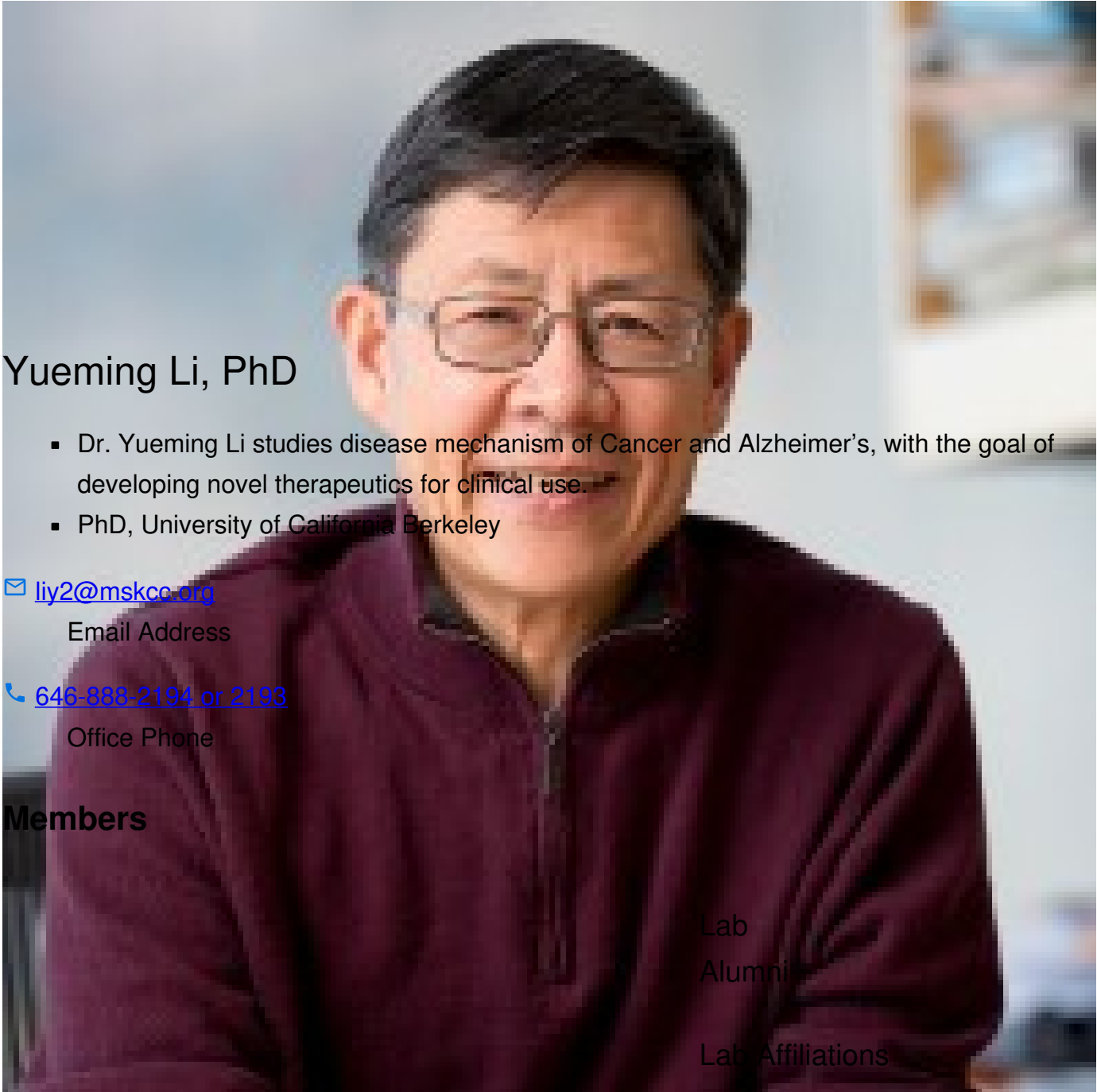
Alexander C, Li T, Hattori Y, Chiu D, Frost GR, Jonas L, Liu C, Anderson CJ, Wong E, Park L, Iadecola C, Li YM. Hypoxia Inducible Factor-1 α binds and activates γ -secretase for A β production under hypoxia and cerebral hypoperfusion. *Mol Psychiatry*. 2022 Oct;27(10):4264-4273. doi: 10.1038/s41380-022-01676-7. Epub 2022 Jun 28. PMID: 35764706; PMCID: PMC9722522.

Nie P, Kalidindi T, Nagle VL, et al. Imaging of Cancer γ -Secretase Activity Using an Inhibitor-Based PET Probe. *Clin Cancer Res*. 2021;27(22):6145-6155. doi:10.1158/1078-0432.CCR-21-0940

Hur, J.-Y., Frost, G. R., Wu, X., Crump, C., Pan, S. J., Wong, E., ... Li, Y.-M. (2020). The innate immunity protein IFITM3 modulates γ -secretase in Alzheimer's disease. *Nature*. doi:10.1038/s41586-020-2681-2

[View All Publications](#)

People



Yueming Li, PhD

- Dr. Yueming Li studies disease mechanism of Cancer and Alzheimer's, with the goal of developing novel therapeutics for clinical use.
- PhD, University of California Berkeley

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Lab Affiliations



Yueming Li

Lab Head



Pascale M. Presendor

Administrative Assistant

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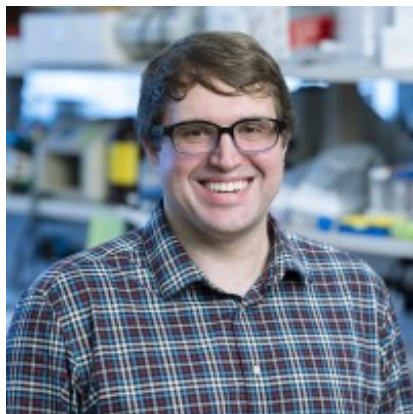
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To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit [Resources for Postdocs](#)

Career Opportunities

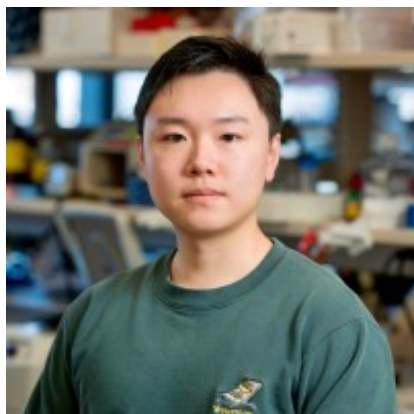


Shekar Mekala
Senior Research Scientist

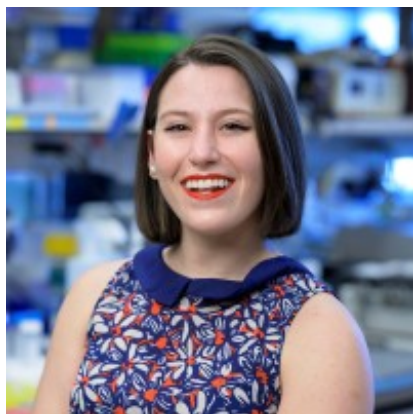


Grady Nelson
Postdoctoral Fellow

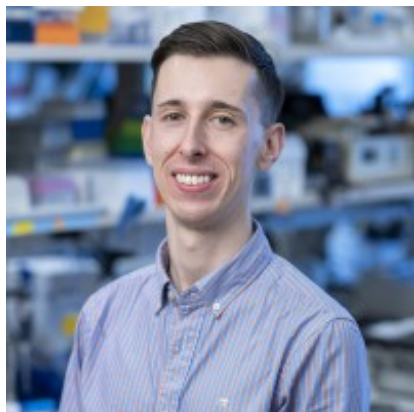
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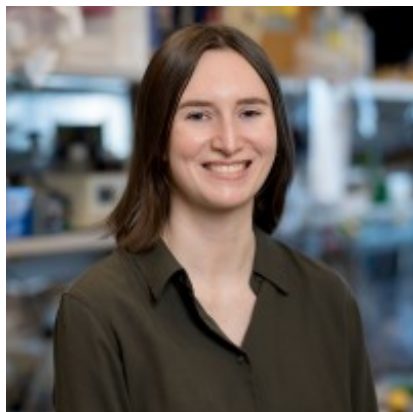
Jingze Wu
Postdoctoral Fellow



Jessica Falci
Postdoctoral Fellow



Daniel W. Worroll III
Postdoctoral Fellow



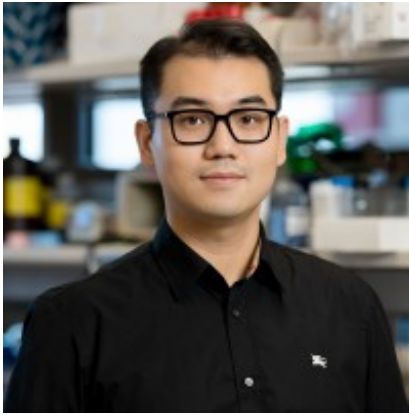
Zoe Kehs
Graduate Student

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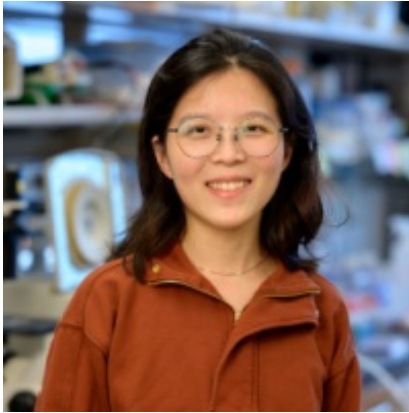
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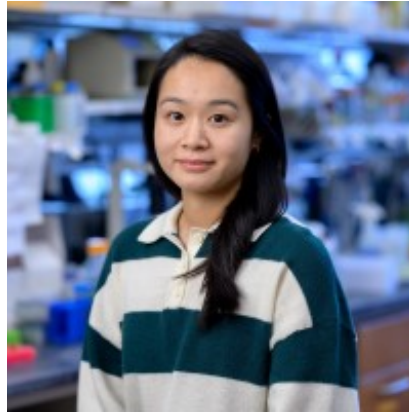
Chenge Liu
Graduate Student



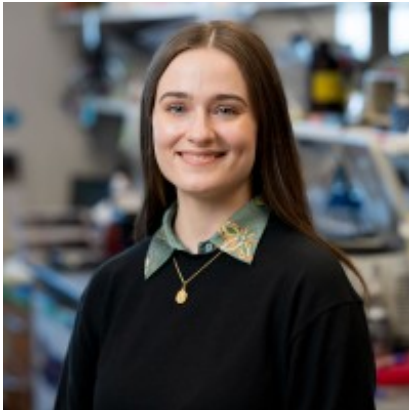
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MSK requires doctors, faculty members, and leaders to report (“disclose”) the relationships and financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the

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.

Yueming Li discloses the following relationships and financial interests:

- Biogen MA Inc.
Professional Services and Activities



Huizhong (Deney) Li
Graduate Student

Professional Services and Activities

- Cure Alzheimer's Fund

Professional Services and Activities

- Jiangsu Continental Medical Development Co

Intellectual Property Rights

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