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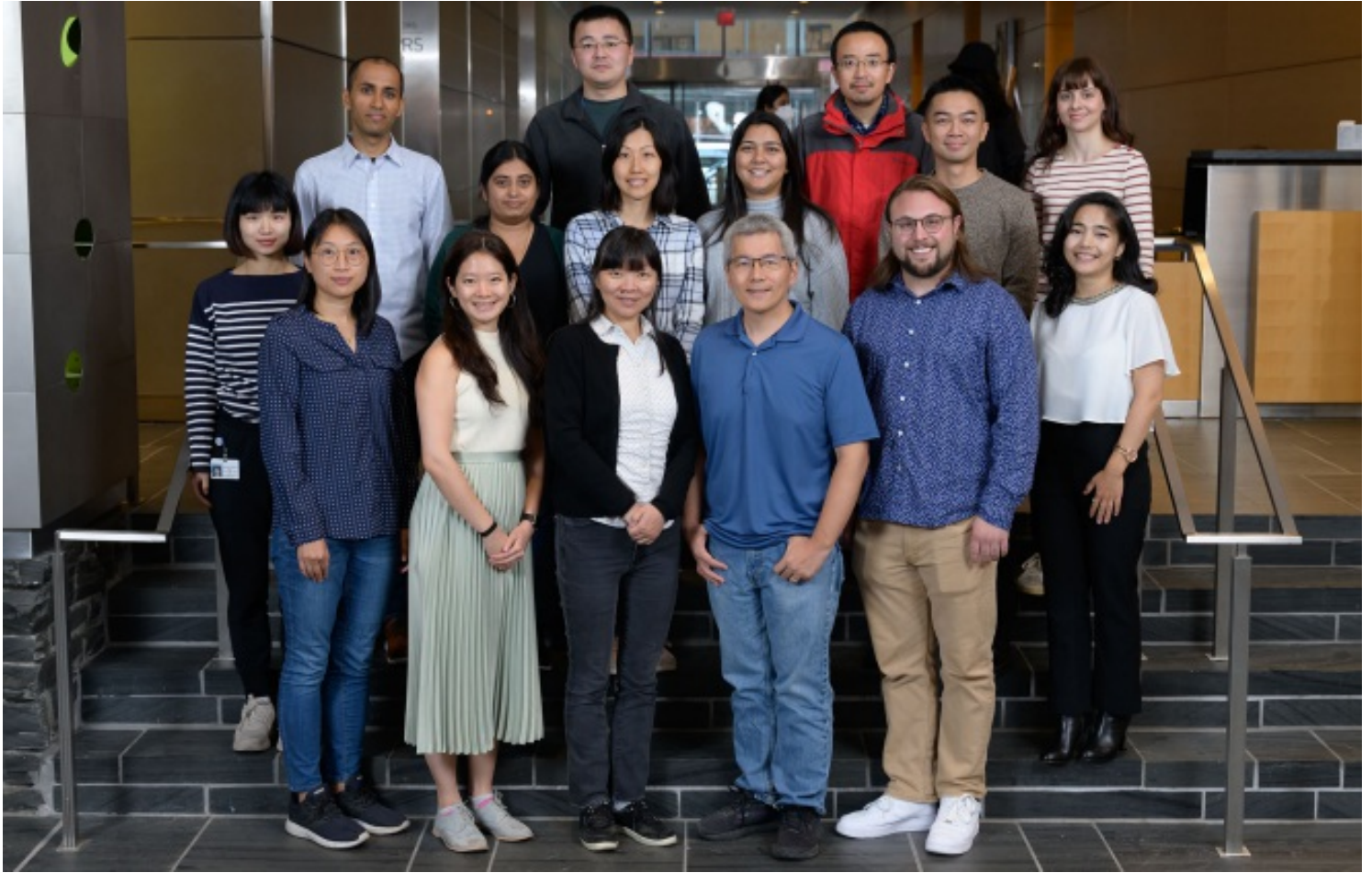
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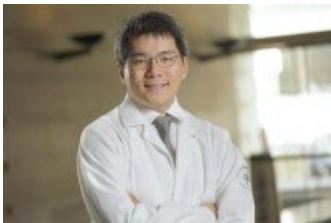


Yu Chen, MD, PhD

The major goal of my laboratory is to understand how critical transcription factors mediate prostate cancer oncogenesis. Prostate cancers uniquely harbor very few mutations in well-known driver oncogenes (e.g., RAS, BRAF, etc.). Instead, they are characterized by aberrations in transcription factors, including the androgen receptor (AR) and ETS family transcription factors. These oncogenic transcription factors regulate a transcriptional program that determines cellular lineage, specifies the responses to external stimuli, and contributes to the oncogenic cellular context in prostate cancer. Our long-term goal is to generate an integrative understanding of how transcription factors normally guide the prostate lineage determination and how their deregulation leads to cancer. In addition, using biochemistry and genetic screens, we are pursuing ways to target the activity of these transcription factors that can lead to drug discovery.



Featured News



[MSK Scientists Identify New — and Very Common — Subtype of Prostate Cancer](#)

The findings could pave the way toward more targeted treatments for the disease.

Publications Highlights

Tang F, Xu D, Wang S, Wong CK, Martinez-Fundichely A, Lee CJ, Cohen S, Park J, Hill CE, Eng K, Bareja R, Han T, Liu EM, Palladino A, Di W, Gao D, Abida W, Beg S, Puca L, Meneses M, de Stanchina E, Berger MF, Gopalan A, Dow LE,

Mosquera JM, Beltran H, Sternberg CN, Chi P, Scher HI, Sboner A, Chen Y, Khurana E. [Chromatin profiles classify castration-resistant prostate cancers suggesting therapeutic targets.](#) Science. 2022 May 27;376(6596):eabe1505. doi: 10.1126/science.abe1505. Epub 2022 May 27. PubMed PMID: 35617398; PubMed Central PMCID: PMC9299269.

Han H, Wang Y, Curto J, Gurrapu S, Laudato S, Rumandla A, Chakraborty G, Wang X, Chen H, Jiang Y, Kumar D, Caggiano EG, Capogiri M, Zhang B, Ji Y, Maity SN, Hu M, Bai S, Aparicio AM, Efstathiou E, Logothetis CJ, Navin N, Navone NM, Chen Y, Giancotti FG. [Mesenchymal and stem-like prostate cancer linked to therapy-induced lineage plasticity and metastasis.](#) Cell Rep. 2022 Apr 5;39(1):110595. doi: 10.1016/j.celrep.2022.110595. PubMed PMID: 35385726.

Mazzu YZ, Liao YR, Nandakumar S, Jehane LE, Koche RP, Rajanala SH, Li R, Zhao H, Gerke TA, Chakraborty G, Lee GM, Nanjangud GJ, Gopalan A, Chen Y, Kantoff PW. [Prognostic and therapeutic significance of COP9 signalosome subunit CSN5 in prostate cancer.](#) Oncogene. 2022 Jan;41(5):671-682. doi: 10.1038/s41388-021-02118-4. Epub 2021 Nov 20. PubMed PMID: 34802033.

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People



Yu Chen, MD, PhD

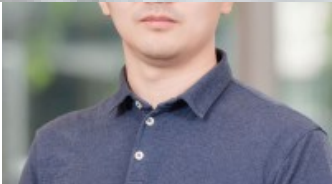
Physician-scientist Yu Chen studies the role of transcription factors that are critical for prostate cancer development.
MD, Weill Cornell Medical College
PhD, The Rockefeller University

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Members



Nicholas Teri
Research Technician



Naitao Wang
Senior Research Scientist



Chen Khuan
Wong
Research Fellow

Lab Alumni

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Achievements

Louis V. Gerstner Young Investigator Award, Memorial Sloan Kettering Cancer Center (2011)

Young Investigator Award, Prostate Cancer Foundation (2011)

Physician Research Training Award, Department of Defense Prostate Cancer Research Program (2010)

Advanced Fellowship Award, Charles H. Revson Foundation (2009)

K08 Clinical Scientist Development Award, National Institutes of Health (2009)

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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.

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Yu Chen discloses the following relationships and financial interests:

Merck & Co Inc.

Professional Services and Activities

Myovant Sciences

Equity

Oric Pharmaceuticals

Equity; Intellectual Property Rights

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