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FOR THE MEDIA



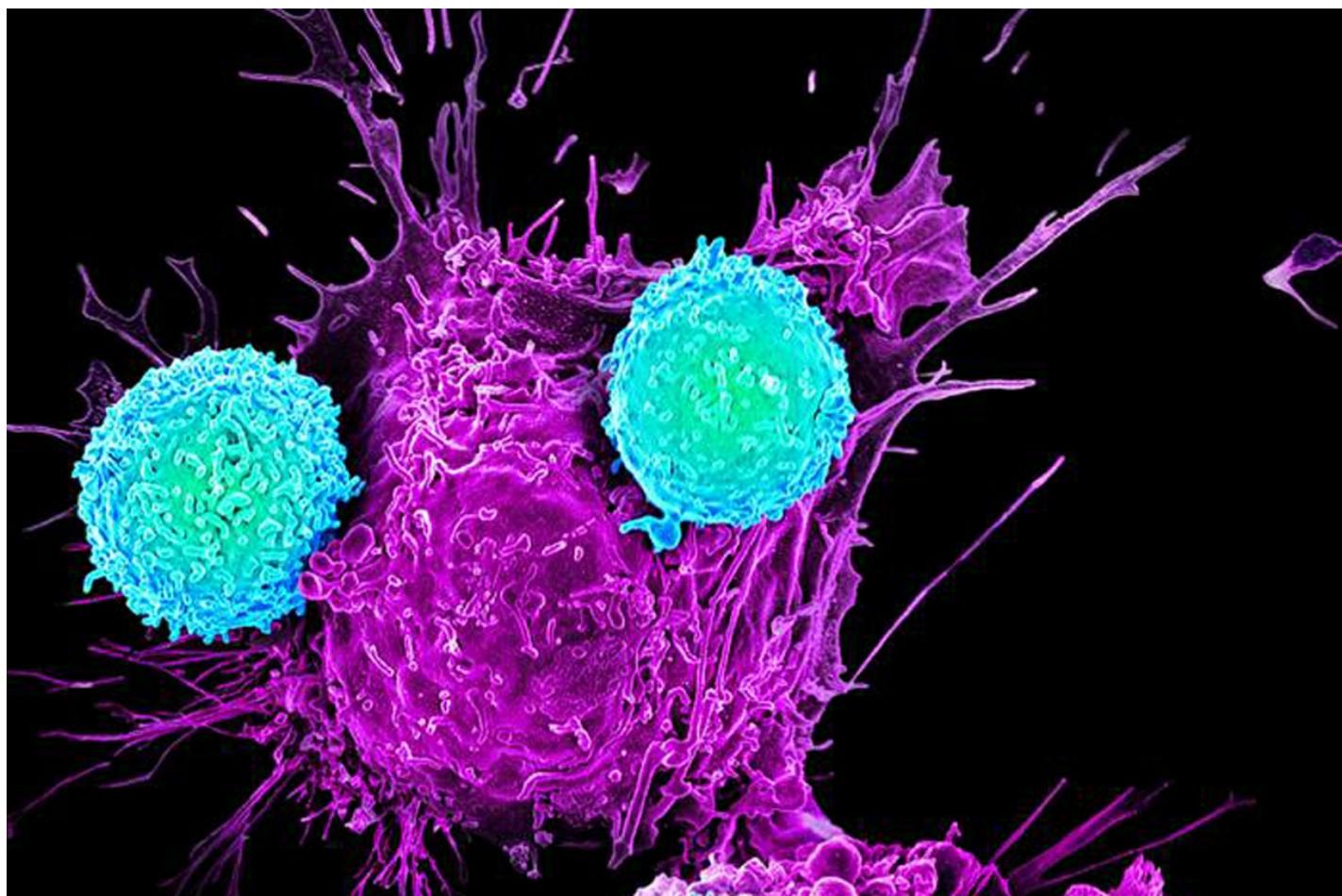
Prasad S. Adusumilli, MD

Professor and Deputy Chief, Thoracic Service; Vice Chair for Translational Research, Dept. of Surgery;
Co-Director, MSK Mesothelioma Program; Min H. and Yu-Fan C. Kao Chair in Thoracic Cancers

Research led by Prasad S. Adusumilli focuses on investigation of the tumor immune microenvironment and the development of T-cell–mediated immunotherapy for thoracic malignancies and pleural-based diseases. His team has championed regional immunotherapy delivery strategies, resulting in translation of mesothelin-targeted CAR T-cell immunotherapy for malignant pleural mesothelioma, lung, and breast cancers.



[View Lab Overview \(<https://www.mskcc.org/research-areas/labs/prasad-adusumilli/overview>\)](https://www.mskcc.org/research-areas/labs/prasad-adusumilli/overview)



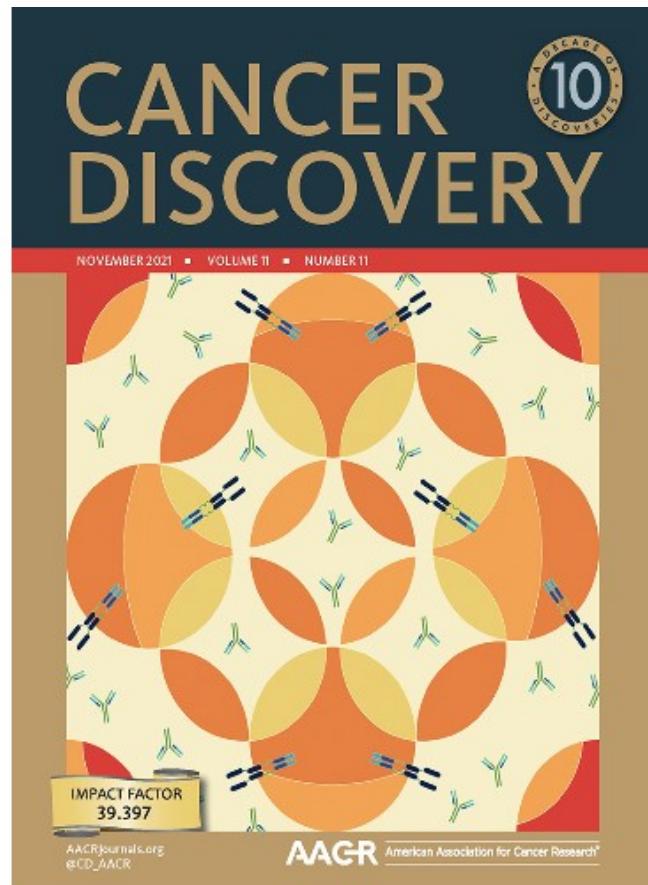
Cover Image from J Clin Invest Aug 1 2016. Cherkassky L, Morello A, Villena-Vargas J, Feng Y, Dimitrov DS, Jones DR, Sadelain M, Adusumilli PS. Human CAR T cells with cell-intrinsic PD-1 checkpoint blockade resist tumor-mediated inhibition. J Clin Invest. 2016;126(8):3130-44



Cover Image from J Clin Invest Aug 1 2016. Cherkassky L, Morello A, Villena-Vargas J, Feng Y, Dimitrov DS, Jones DR, Sadelain M, Adusumilli PS. Human CAR T cells with cell-intrinsic PD-1 checkpoint blockade resist tumor-mediated inhibition. *J Clin Invest.* 2016;126(8):3130-44.



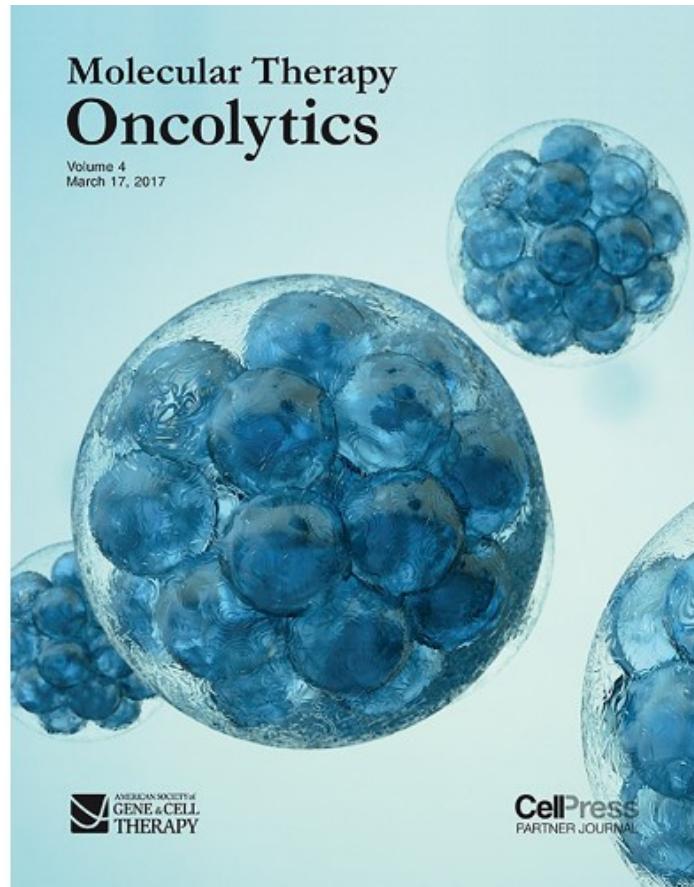
Cover Image from J Thoracic Oncology Jan 2022. Gross DJ, Chintala NK, Vaghjiani RG, Grosser R, Tan KS, Li X, Choe J, Li Y, Aly RG, Emoto K, Hua Z, Dux J, Cheema W, Bott MJ, Travis WD, Isbell JM, Li BT, Jones DR, Adusumilli PS. Tumor and Tumor-Associated Macrophage PD-L1 Expression is Associated with Adjuvant Chemotherapy Benefit in Lung Adenocarcinoma. *J Thorac Oncol*. 2022;17(1):89-102.



Cover Image from Cancer Discovery Nov 2021. Adusumilli PS, Zauderer MG, Rivière I, Solomon SB, Rusch VW, O'Cearbhaill RE, Zhu A, Cheema W, Chintala NK, Halton H, Pineda J, Perez-Johnston R, Tan KS, Daly B, Araujo Filho JA, Ngai D, McGee E, Vincent A, Diamonte C, Sauter JL, Modi S, Sikder D, Senechal B, Wang X, Travis WD, Gönen M, Rudin CM, Brentjens RJ, Jones RJ, Sadelain M. A phase I trial of regional mesothelin-targeted CAR T-cell therapy in patients with malignant pleural disease, in combination with the anti-PD-1 agent pembrolizumab. *Cancer Discov.* 2021;11(11):2748-2763.



Cover Image from J Thoracic Oncology Jan 2018. Kiesgen S, Chicaybam L, Chintala NK, Adusumilli PS*. Chimeric antigen receptor (CAR) T-cell therapy for thoracic malignancies. J Thorac Oncol. 2018;13(1):16-26.



Cover Image from Mol Ther Oncolytics – Vol 4, Mar 17, 2017.

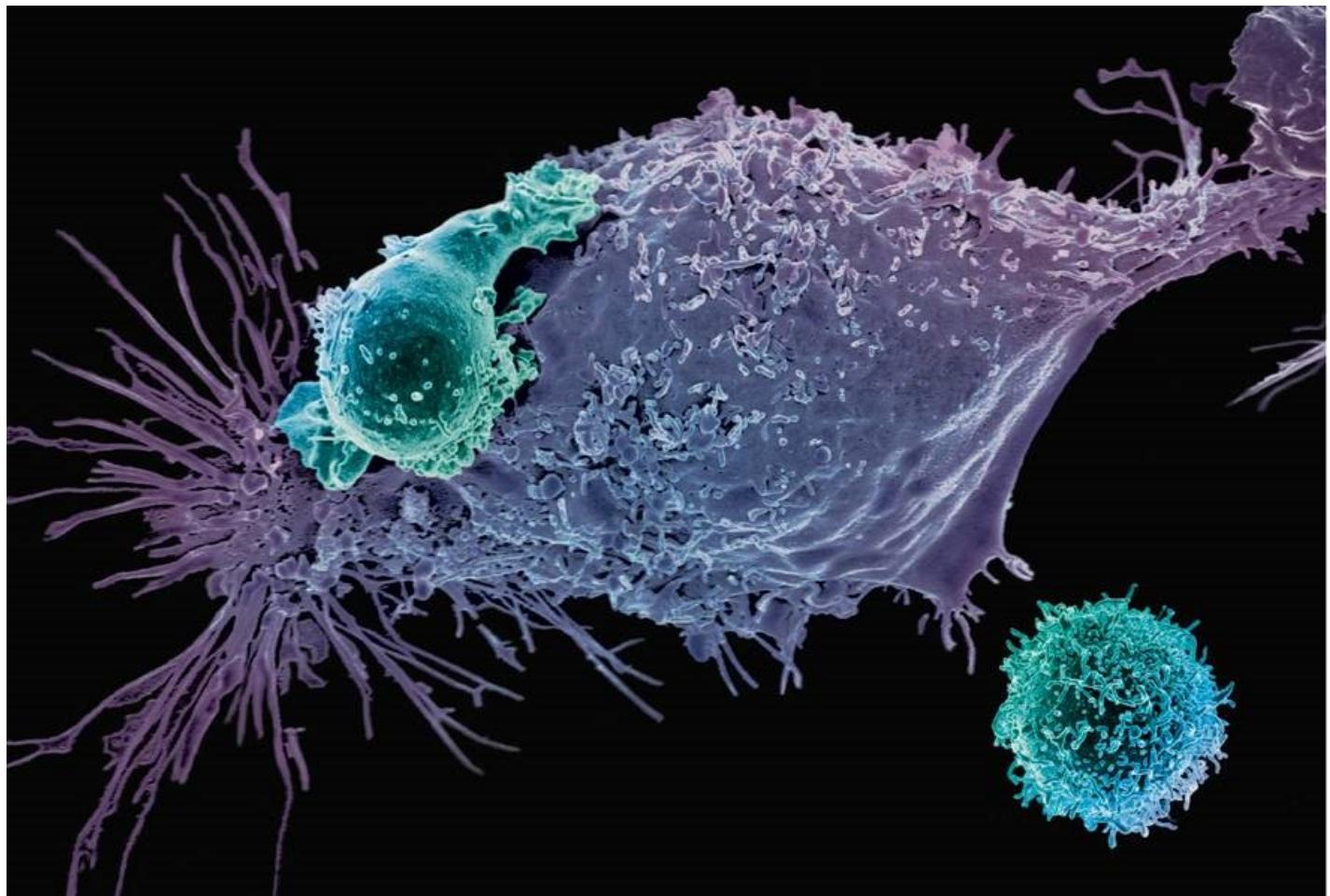
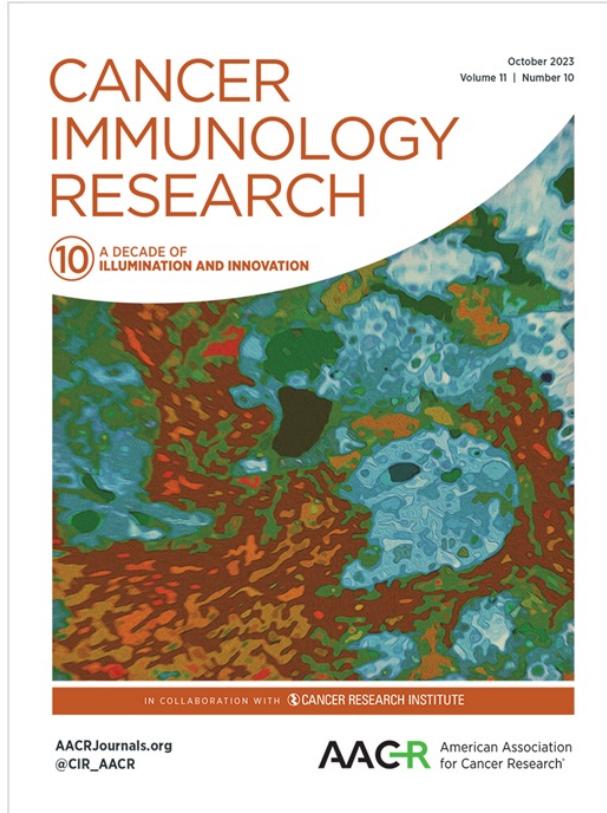
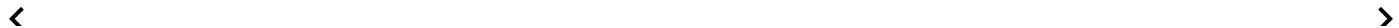


Image from Science Sept 2016. Couzin-Frankel J. (2016, September 2). Second chapter. Science. 353(6303):983-5.5.



Cover Image from Cancer Immunology Research Oct 2023. Quach HT, Skovgard MS, Villena-Vargas J, Bellis RY, Chintala NK, Amador-Molina A, Bai Y, Banerjee S, Saini J, Xiong Y, Vista WR, Byun AJ, De Biasi A, Zeltsman M, Mayor M, Morello A, Mittal V, Gomez DR, Rimner A, Jones DR, Adusumilli PS. Tumor-Targeted Nonablative Radiation Promotes Solid Tumor CAR T-cell Therapy Efficacy. *Cancer Immunol Res.* 2023 Oct 4;11(10):1314-1331. doi: 10.1158/2326-6066.CIR-22-0840. PMID: 37540803; PMCID: PMC10592183.



Featured News



[How MSK Is Teaching CAR T Cells to Attack Solid Tumors](#)

Read about the latest MSK research to make CAR T therapy effective against solid tumors.



MSK Awards and Appointments December 2024

Memorial Sloan Kettering Cancer Center (MSK) today announced the following awards and appointments.



New Design Could Make CAR T Cells a More Effective Immunotherapy for Solid Tumors

Learn how researchers engineered CAR T cells to work better by using a mutation in a gene called c-KIT that drives cancer cell growth.

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Publications Highlights

[Xiong Y, Taleb M, Misawa K, Hou Z, Banerjee S, Amador-Molina A, Jones DR, Chintala NK, Adusumilli PS. c-Kit signaling potentiates CAR T-cell efficacy in solid tumors by CD28- and IL-2-independent costimulation. *Nat Cancer*. 2023;4\(7\):1001-1015. \[PMID: 37336986\]](#)

[Quach HT, Skovgard MS, Villena-Vargas J, Bellis RY, Chintala NK, Amador-Molina A, Bai Y, Banerjee S, Saini J, Xiong Y, Vista WR, Byun AJ, De Biasi A, Zeltsman M, Mayor M, Morello A, Mittal V, Gomez DR, Rimner A, Jones DR, Adusumilli PS. Tumor-targeted non-ablative radiation promotes solid tumor CAR T-cell therapy efficacy. *Cancer Immunol Res*. 2023;11\(10\):1314-1331. \[PMID: 37540803\]](#)

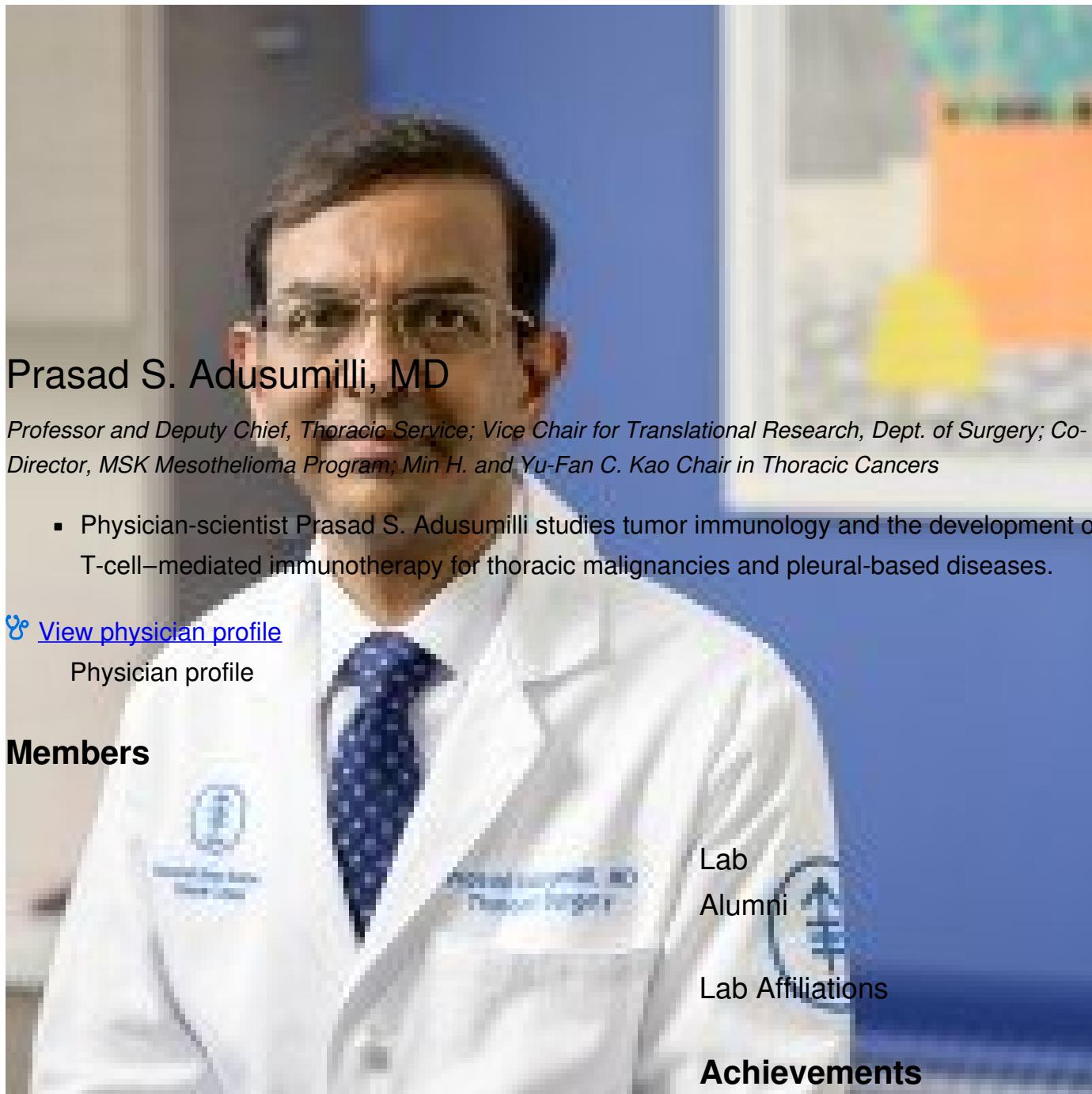
[Adusumilli PS, Zauderer M, Riviere I, ...Jones DR, Sadelain M. A phase I trial of regional mesothelin-targeted CAR T-cell therapy in patients with malignant pleural disease, in combination with the anti-PD1 agent pembrolizumab. *Cancer Discov.* 2021 Nov;11\(11\):2748-2763. \[PMID: 34266984\]](#)

[Cherkassky L, Morello A, Villena-Vargas J, Feng Y, Dimitrov DS, Jones DR, Sadelain M, Adusumilli PS. Human CAR T cells with cell-intrinsic PD-1 checkpoint blockade resist tumor-mediated inhibition. *J Clin Invest.* 2016;126\(8\):3130-3144. \[PMID: 27454297\]](#)

[Adusumilli PS, Cherkassky L, Villena-Vargas J, Colovos C, Servais E, Plotkin J, Jones DR, Sadelain M. Regional delivery of mesothelin-targeted CAR T cell therapy generates potent and long-lasting CD4-dependent tumor immunity. *Sci Transl Med.* 2014;6\(261\):261ra151. \[PMID: 25378643\]](#)

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People



Prasad S. Adusumilli, MD

Professor and Deputy Chief, Thoracic Service; Vice Chair for Translational Research, Dept. of Surgery; Co-Director, MSK Mesothelioma Program; Min H. and Yu-Fan C. Kao Chair in Thoracic Cancers

- Physician-scientist Prasad S. Adusumilli studies tumor immunology and the development of T-cell-mediated immunotherapy for thoracic malignancies and pleural-based diseases.

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Physician profile

Members

Alfredo Amador Molina
Research Associate

Pratiti Ankola
Bioinformatics Technician

Lab
Alumni
Lab Affiliations

Achievements

- [The Rodman E. Sheed and Thomas G. Sheed Awarded to Dr. Adusumilli](#)
[Current NCI Awards Received: R01 CA235667; R01 CA236615; R01](#)

[CA292664; UG3/UH3 CA29024](#)

- CA200437
- [Published in the Journal Cover Pages listed below: J Clin Invest Aug 2016; Science Sept 2016; J Thorac Oncol Jan 2018; Cancer Discov Nov 2021; J Thorac Oncol Jan 2022; Cancer](#)

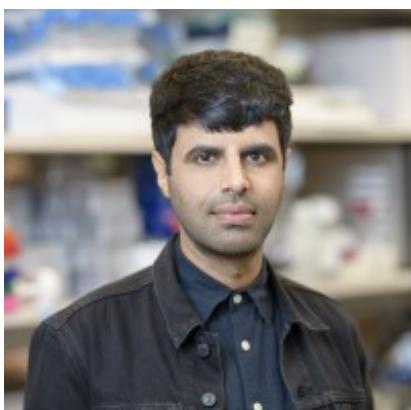
Current DoD Award Received:



Srijita Banerjee
Research Assistant



Lara Cani
Clinical Research Coordinator



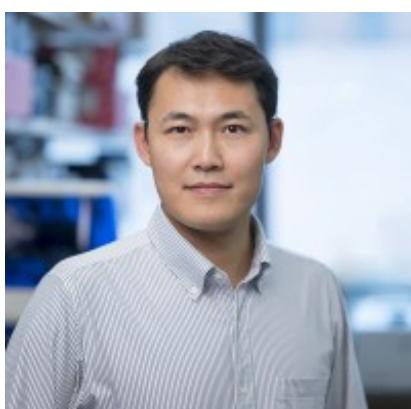
Waseem Cheema
Research Project Manager



Navin K Chintala
Senior Research Assistant



Victoria Cranwell
Research Fellow



Bilguun Erkhem-Ochir
Research Associate

[now \(<https://www.mskcc.org/research-areas/labs/prasad-adusumilli/postdoctoral-fellow>\)](https://www.mskcc.org/research-areas/labs/prasad-adusumilli/postdoctoral-fellow)

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

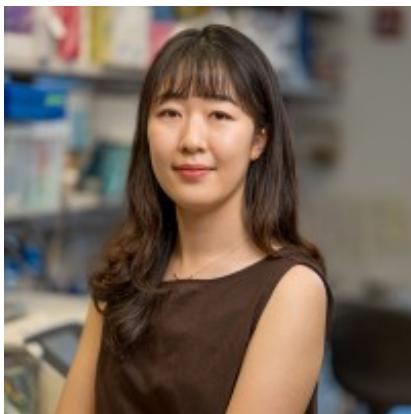
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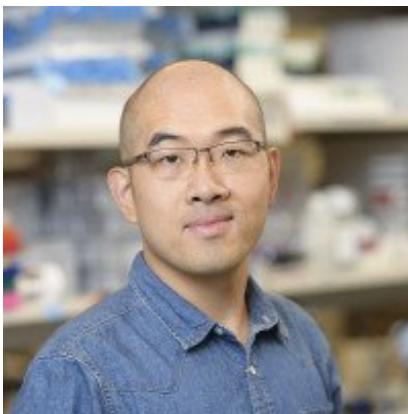
Vincent Galea
Research Fellow

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



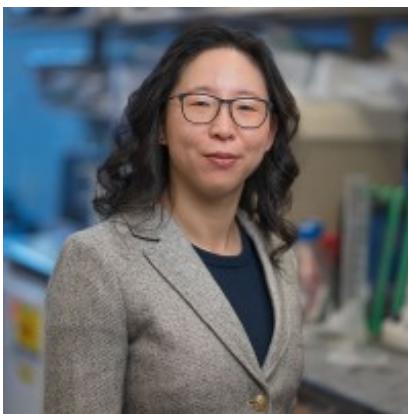
Nayoung Hong
Research Scholar



Zhaohua Hou
Senior Research Scientist



Prachi Jalan
Research Technician



Caroline Kim-Kiselak
Research Fellow



Prateek Kulkarni
Research Fellow



Valeriya Kuznetsova
Research Fellow

application of scientific discoveries.

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Prasad S. Adusumilli discloses the following relationships and financial interests:

- **Affyimmune Therapeutics, Inc.**
Professional Services and Activities
- **BioArdis LLC**
Professional Services and Activities
- **Century Therapeutics**
Professional Services and Activities
- **Crescendo Biologics Limited**
Professional Services and Activities
- **Novocure**
Professional Services and Activities

- **Orion Corporation**
Professional Services and Activities
- **Outpace Bio, Inc.**
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- **Pluri Biotech Ltd.**
Professional Services and Activities

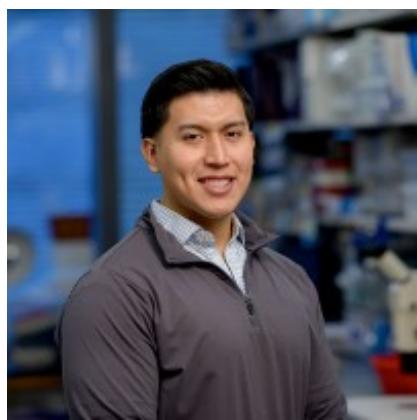


Tentarix Biotherapeutics, Inc.

Mehek Ningoo
Research Scholar



Lawrence Ofriel
Research Technician



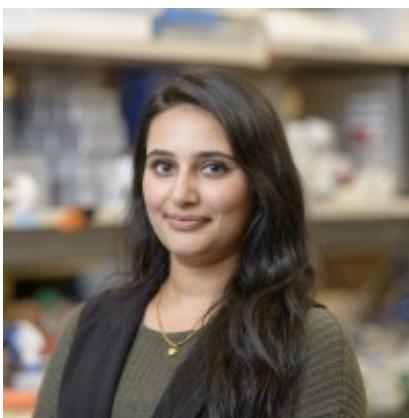
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Project Manager



Skarlet Rubi
Research Technician



Viviana Rubino
Research Fellow



Jasmeen Saini
Clinical Research Associate

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Verismo Therapeutics, Inc.

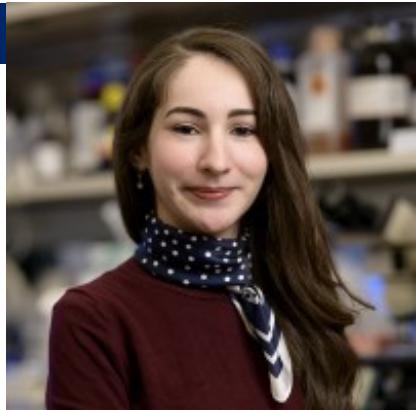
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Learn more about MSK's COI policies [here](#). For questions regarding MSK's COI-related policies and procedures, email MSK's Compliance Office at ecoi@mskcc.org.

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Carlos Thomas
Senior Research Assistant



Amina Tidjani
Research Fellow