

MOLECULAR PHARMACOLOGY PROGRAM

Search

Cancer Engineering

The David Scheinberg Lab

Research

Alumni



David A. Scheinberg, MD, PhD  
Chair, Center for Experimental Therapeutics, MSK; Deputy Director, Sloan Kettering Institute, for  
Therapeutic Discovery

Professor

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The overall goals of this laboratory are to develop novel targeted immunotherapies based on effectors of the immune system and to understand their mechanisms of action as well as the mechanisms of resistance to them. This includes antibodies, targeted nano-devices, engineered cells, and active specific agents such vaccines. An important goal is to take these new therapies

into human clinical trials for testing. Examples include a molecular nanogenerator that releases alpha particles inside cancer cells, now being tested in Phase II human trials (*Blood*, 2010), and a vaccine to WT1 in Phase III trials. Read full article in [Science](#) .

We have developed targeted alpha particle therapies, targeted beta emitters, oncogenic protein peptide vaccines, humanized antibodies, each of which reached human clinical trials; More recently we have discovered TCR mimic antibodies to intracellular proteins (*Science Trans. Med.*, 2013), (*Nature Biotech.*, 2015), as well as prototype targeted nano-machines (*Nature Nano*, 2013), and cellular micropharmacies (*Nature Chem.Biol.*, 2021).

## Research Projects

- [Projects](#)



## Featured News



## [At Work: Center for Experimental Therapeutics Chair David Scheinberg](#)

A second-generation physician-scientist, David Scheinberg specializes in caring for patients with leukemia — and developing new ways to treat it.



ANNOUNCEMENT

## [Innovative Partnership Will Speed Drug Discovery and Development](#)

Memorial Sloan Kettering is joining with two other academic institutions in a pioneering collaboration to speed early-stage drug discoveries into therapies for patients.

## [Scientists ID Antibody That Might Boost Cancer Therapy](#)

Physician-scientist David Scheinberg discussed his discovery of a unique monoclonal antibody, a molecule that can be engineered to target specific prot...

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## Publications Highlights

[Dao T, Yan S, Veomett N, Pankov D, Zhou L, Korontsvit T, Scott A, Whitten J, Maslak P, Casey E, Tan T, Liu H, Zakhaleva V, Curcio M, Doubrovina E, O'Reilly RJ, Liu C, Scheinberg DA. Targeting the intracellular WT1 oncogene product with a therapeutic human antibody. Science translational medicine. 2013;5\(176\):176ra33. Doi: 10.1126/scitranslmed.3005661. PubMed. PMID: PMC3963696.](#)

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Dao T, Pankov D, Scott A, Korontsvit T, Zakhaleva V, Xu Y, Xiang J, Yan S, de Morais Guerreiro MD, Veomett N, Dubrovsky L, Curcio M, Doubrovina E, Ponomarev V, Liu C,

O'Reilly RJ, Scheinberg DA. Therapeutic bispecific T-cell engager antibody targeting the intracellular oncoprotein WT1. *Nature biotechnology*. 2015;33(10):1079-86. Doi: 10.1038/nbt.3349. PubMed PMID: 26389576; PMCID: PMC4600043.

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## People



**David A. Scheinberg, MD, PhD**  
*Chair, Center for Experimental Therapeutics, MSK; Deputy Director, Sloan Kettering Institute, for Therapeutic Discovery*  
*Professor*

- Molecular Pharmacology Program Member David Scheinberg focuses on the discovery and development of novel, specific immunotherapeutic agents and targeted nanodevices for cancer therapy.
- MD, PhD, Johns Hopkins University School of Medicine

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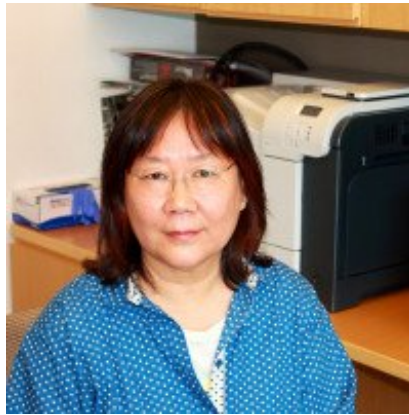
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## Members



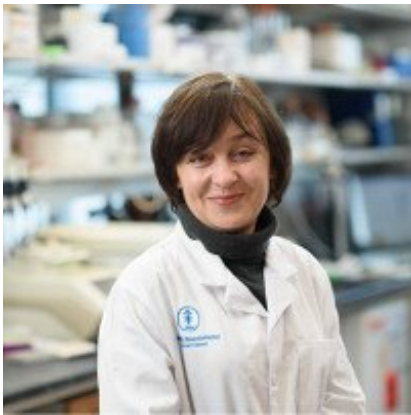
Michael Curcio  
Research Assistant



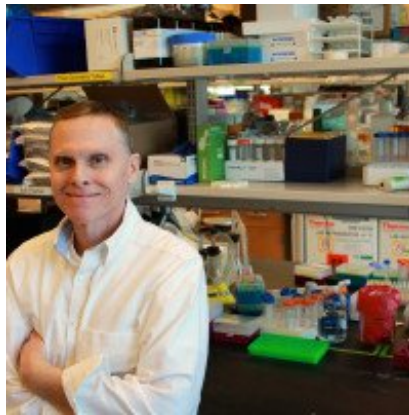
Tao Dao  
Senior Research Scientist

Lab  
Alumni  
Lab Affiliations

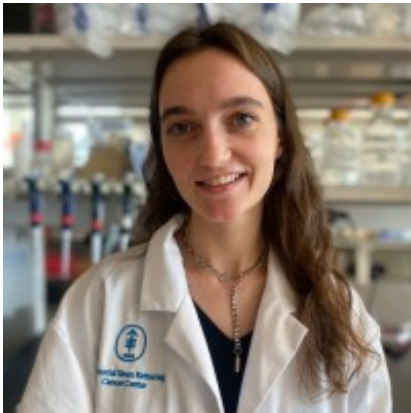
## Lab News & Events



Tatyana Korontsvit  
Research Assistant



Michael R. McDevitt  
Laboratory Member



Zita Aretz  
Graduate Student



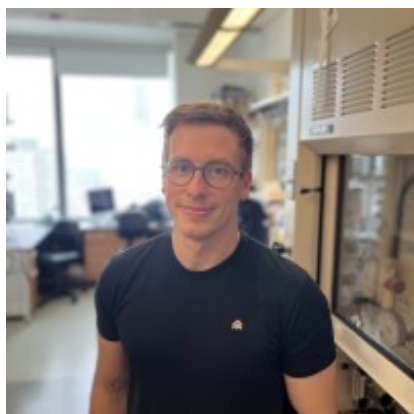
Subha Baniya  
Graduate Student

[Journal Club & Photo Album](#)

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To learn more about available postdoctoral opportunities, please visit our [Career Center](#)

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



Raphael Geißen  
Research Fellow



Jaeyop Lee  
Instructor

## Get in Touch

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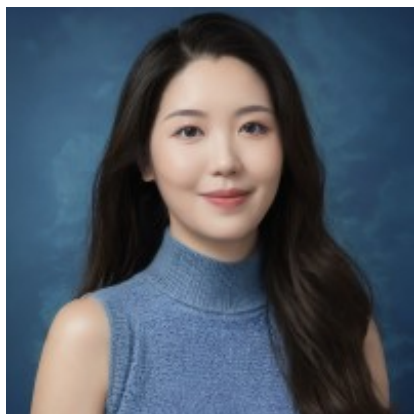
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Qianqian (Skylar) Lin  
Graduate Student



Jeremy P. Meyerberg  
Research Assistant

Lab Resources

## 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 application of scientific discoveries.



Kaitlyn Pierpont  
Graduate Student



Stephanie Pierre  
Graduate Student

MSK requires doctors, faculty members, and leaders to report

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David A. Scheinberg discloses the following relationships and financial interests:

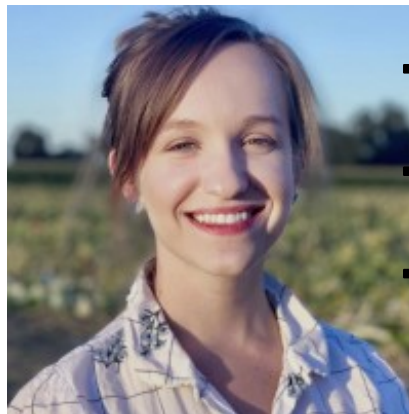
Activision



**Sarah Qureshy**  
 Medical Student Research  
 Fellow Education



**Ekaterina Revskaya**  
 Senior Research Scientist



**Sarah Sheridan**  
 Graduate Student



**Akihiko Shiiya**  
 Research Scholar



**Patrick Wallisch**  
 Graduate Student

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