



Gerstner Sloan Kettering  
Graduate School of Biomedical Sciences

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IMMUNOLOGY PROGRAM

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# The Alexander Rudensky Lab

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**Research**

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Alexander Rudensky, PhD

Chair, Immunology Program, SKI; Director, Ludwig Center at MSK

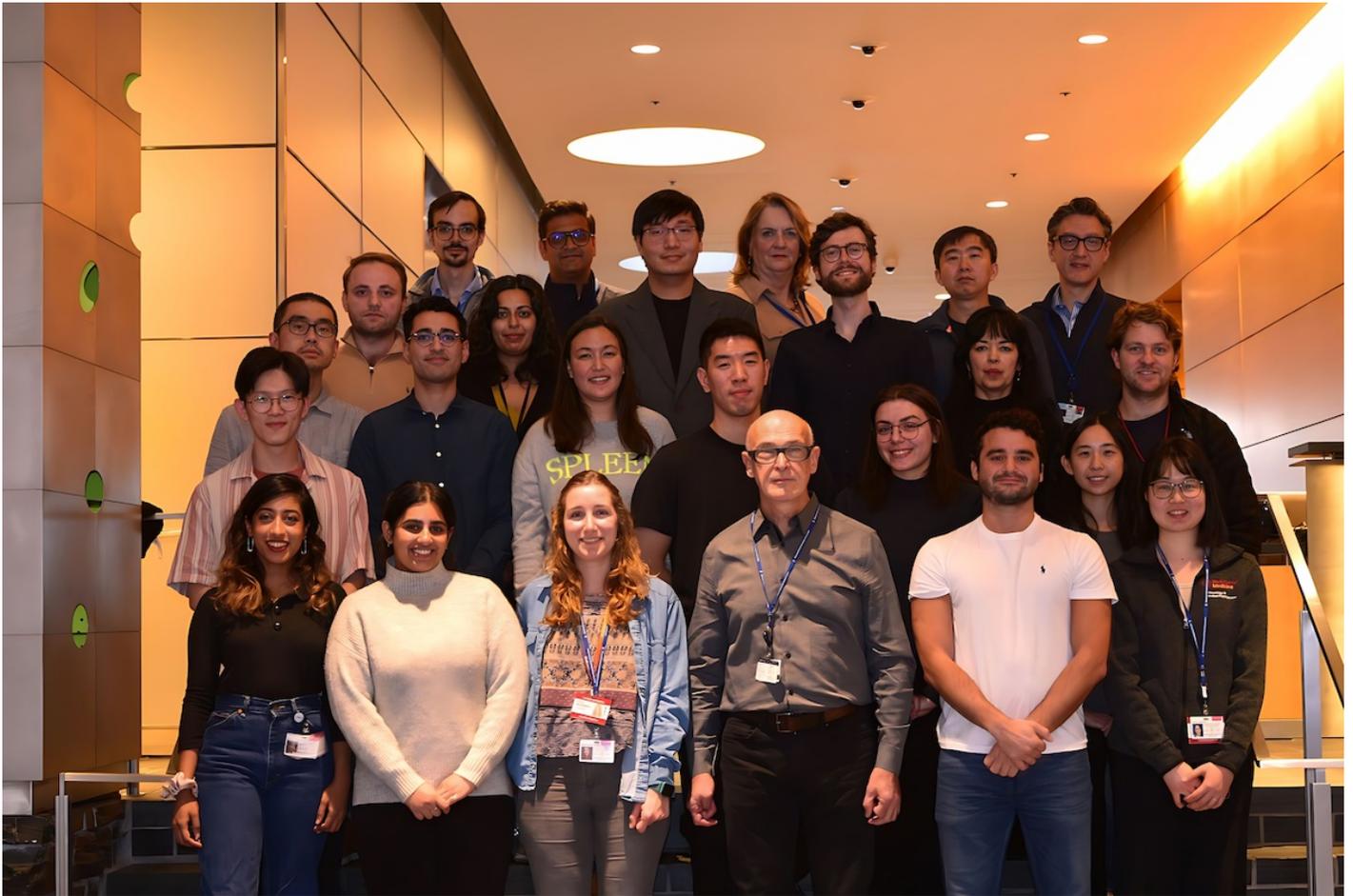
Professor

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Our research is focused on understanding the molecular mechanisms governing the differentiation and function of CD4 T lymphocytes and their role in immunity and tolerance.

Major areas of interest include: the molecular and cellular mechanisms governing the differentiation and function of regulatory T cells; the roles these cells play in control of autoimmunity, tumor immunity, and immunity to infections, and in the maintenance of immune homeostasis at environmental interfaces. We are particularly interested in understanding the role of the forkhead family transcription factor Foxp3 in establishing and maintaining immune homeostasis; and in the plasticity of regulatory T cell transcriptional and functional programs and the molecular mechanisms of regulatory T cell lineage stability.

[View Lab Overview \(https://www.sloankettering.edu/research-areas/labs/alexander-rudensky/overview\)](https://www.sloankettering.edu/research-areas/labs/alexander-rudensky/overview)



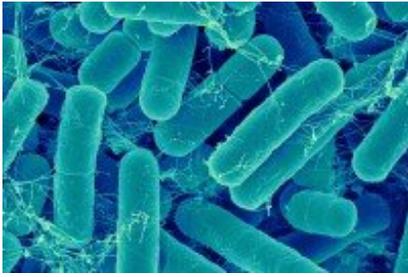
## Featured News



### [At Work: Immunology Program Chair Alexander Rudensky](#)

A Moscow native, immunologist Alexander Rudensky has had a lifelong interest in scientific discovery.

IN THE LAB



## [Research Uncovers Details about How Gut Microbes Influence the Immune System](#)

Investigators have shown how gut microbes promote the formation of a type of immune cell called regulatory T cells.

### FEATURE



## [The Convergence: Scientists Move toward a New Understanding of Metastatic Cancer](#)

Through converging lines of research in stem cell biology, tissue regeneration, and immunity, Sloan Kettering Institute scientists are learning what makes metastatic cancer cells tick.

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## Publications Highlights

[Jacobsen JT, Hu W, R Castro TB, Solem S, Galante A, Lin Z, Allon SJ, Mesin L, Bilate AM, Schiepers A, Shalek AK, Rudensky AY, Victora GD. \(2021\) Expression of Foxp3 by T follicular helper cells in end-stage germinal centers. Science. 373\(6552\):eabe5146.](#)

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[Campbell C, McKenney PT, Konstantinovskiy D, Isaeva OI, Schizas M, Verter J, Mai C, Jin WB, Guo CJ, Violante S, Ramos RJ, Cross JR, Kadaveru K, Hambor J, Rudensky AY. \(2020\) Bacterial metabolism of bile acids promotes generation of peripheral regulatory T cells. Nature. 581\(7809\):475-479.](#)

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[Brown CC, Gudjonson H, Pritykin Y, Deep D, Lavallée VP, Mendoza A, Fromme R, Mazutis L, Ariyan C, Leslie C, Pe'er D, Rudensky AY. \(2019\) Transcriptional Basis of Mouse and Human Dendritic Cell Heterogeneity. Cell. 179\(4\):846-863.](#)

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[Levine AG, Mendoza A, Hemmers S, Moltedo B, Niec RE, Schizas M, Hoyos BE, Putintseva EV, Chaudhry A, Dikiy S, Fujisawa S, Chudakov DM, Treuting PM, Rudensky AY. \(2017\) Stability and function of regulatory T cells expressing the transcription factor T-bet. Nature. 546:421-425.](#)

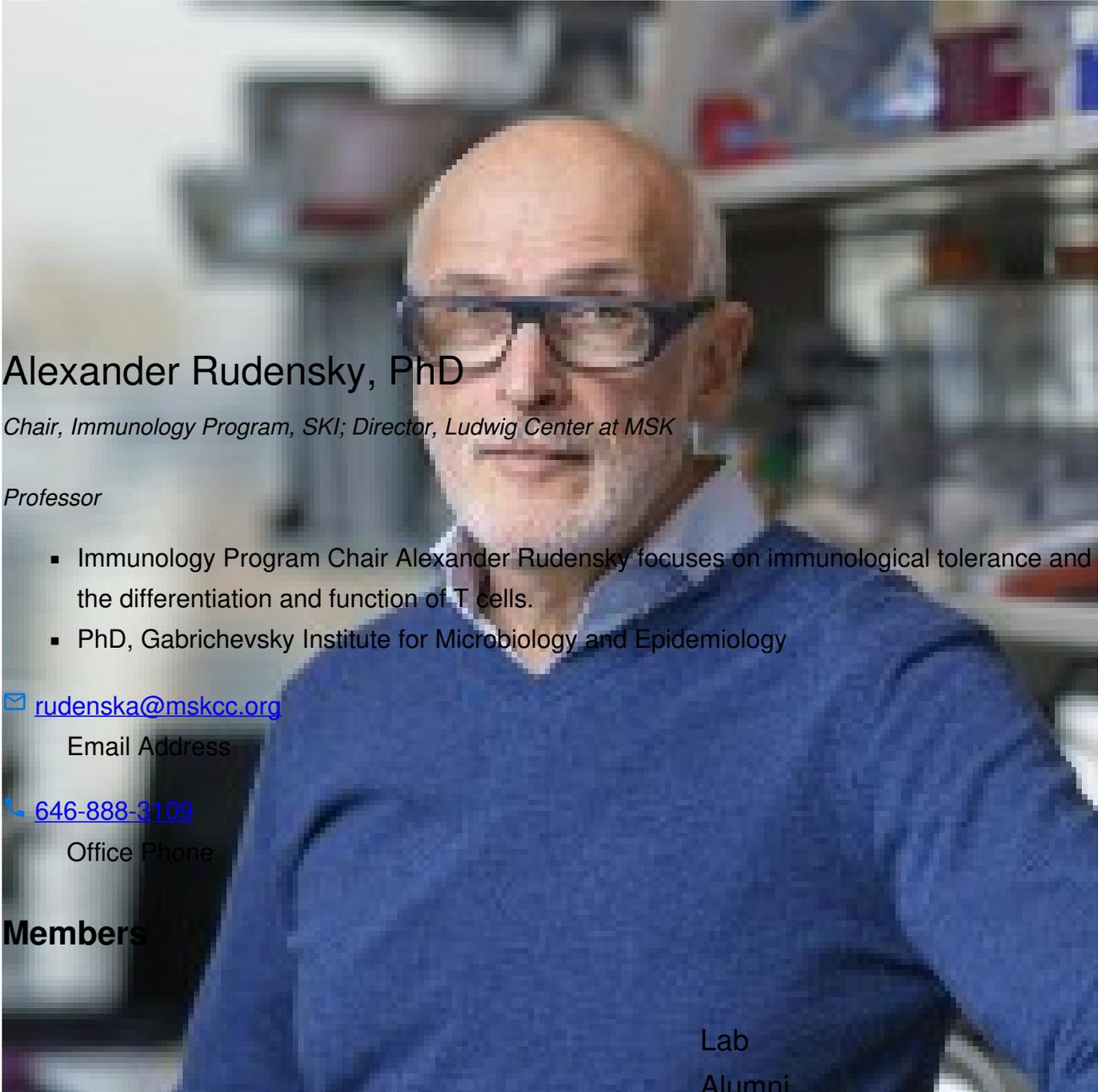
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[van der Veecken J, Gonzalez AJ, Cho H, Arvey A, Hemmers S, Leslie CS, Rudensky AY. \(2016\) Memory of Inflammation in Regulatory T Cells. Cell. 166:977-990.](#)

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[View All Publications](#)

## People



# Alexander Rudensky, PhD

*Chair, Immunology Program, SKI; Director, Ludwig Center at MSK*

*Professor*

- Immunology Program Chair Alexander Rudensky focuses on immunological tolerance and the differentiation and function of T cells.
- PhD, Gabrichevsky Institute for Microbiology and Epidemiology

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## Members

Lab

Alumni



George Plitas

Assistant Attending, Breast Service



Emma Andretta

Technician

Lab Affiliations

## Achievements

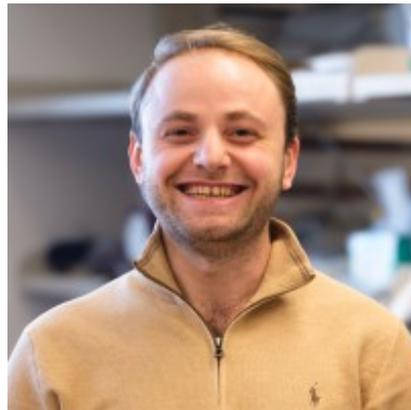
- Investigator, Howard Hughes Medical Institute
- Vilcek Prize in Biomedical Science,

▪ New York, NY (2018)



Charlotte Ariyan  
Associate Attending, Gastric & Mixed Tumor Service

- Crafoord Prize, the Royal Swedish Academy of Sciences, Stockholm Sweden (2017)
- Member, National Academy of Medicine (2015)
- Member, American Academy of Arts and Sciences (2015)



Giorgi Beroshvili  
Graduate Student

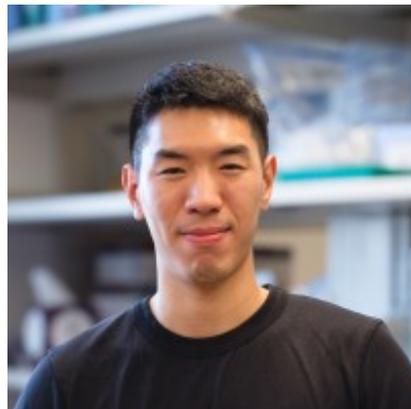


Regina Bou Puerto  
Graduate Student

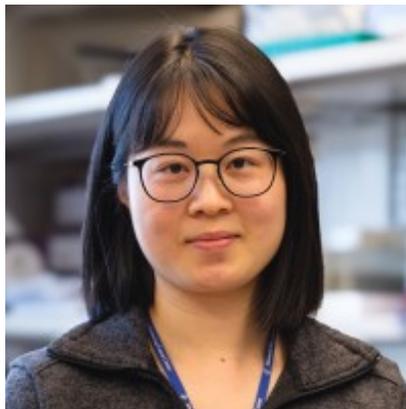
## Open Positions

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](#)



Spencer Chen  
Research Fellow



Beibei (Bella) Fang  
Graduate Student

## Get in Touch

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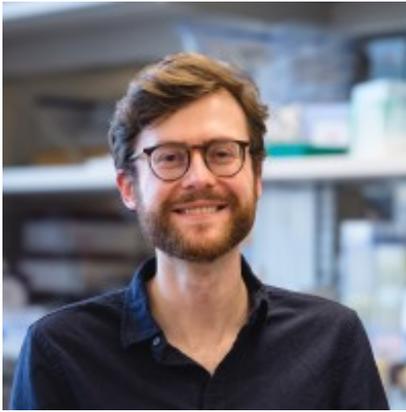
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## Disclosures

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.

MSK requires doctors, faculty members, and leaders to report (“disclose”) the relationships and



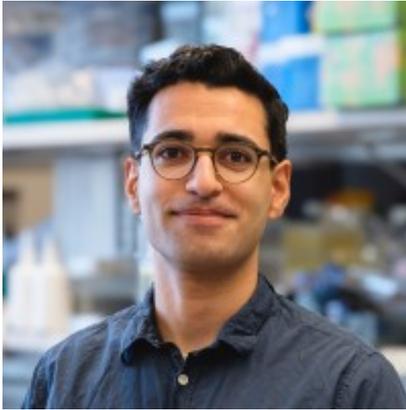
Joe N. Frost  
Research Fellow

Aazam Ghelani  
Graduate Student

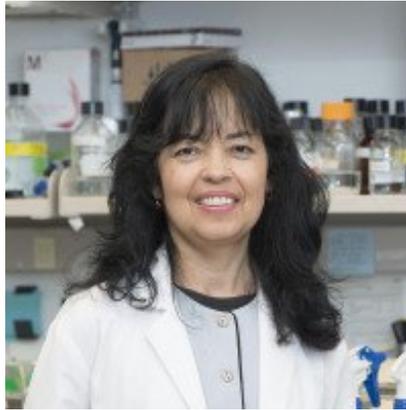


Paolo Giovanelli  
Graduate Student

financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the



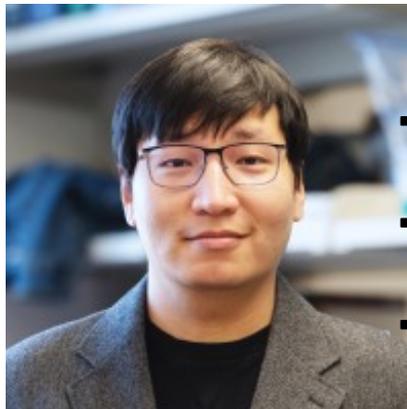
Nima Hooshdaran  
Graduate Student



Beatrice Hoyos  
Visiting Investigator

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.

Jian Hu  
Senior Research Scientist



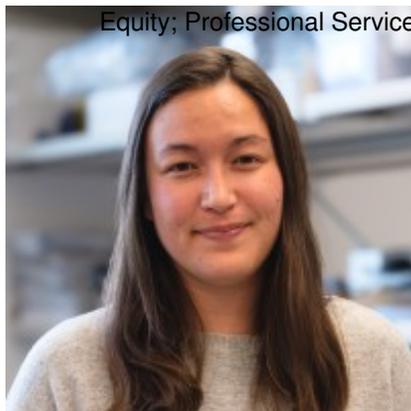
Xiao Huang  
Research Associate

Alexander Rudensky discloses the following relationships and financial interests:

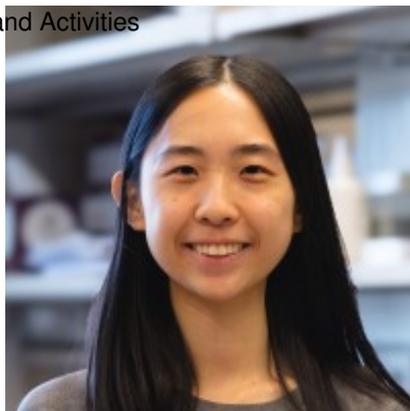
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- BioInvent International AB  
Professional Services and Activities
- Coherus BioSciences, Inc.  
Equity; Professional Services and Activities
- NILO Therapeutics, Inc.  
Equity; Professional Services and Activities
- Odyssey Therapeutics, Inc.

Equity; Professional Services and Activities

- RAPT Therapeutics  
Equity; Professional Services and Activities
- Santa Ana Bio, Inc.  
Equity; Professional Services and Activities
- Sonoma Biotherapeutics, Inc.



Ainsley Lockhart  
Research Fellow



Cheryl Mai  
MD-PhD Student

□ Anthony Michaels  
Graduate Student ■ Vedanta  
Equity; Professional  
Services and Activities

The information published here is a complement to other publicly reported data and 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.



Fatima Salman  
Technician



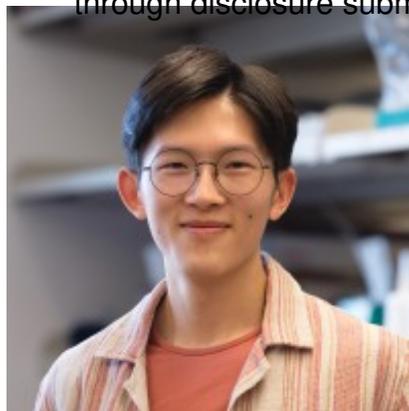
Ariën Schiepers  
Research Fellow  
Aparna Vancheswaran  
Research Fellow

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This page and data include information for a specific MSK annual disclosure period (January 1, 2024 through disclosure submission in



Lion Uhl  
Research Fellow  
Ian Zumpano  
Technician



Eric Y. Wang  
MD-PhD Student

spring 2025). This data reflects interests that may or may not still exist. This data is updated annually.

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](mailto:ecoi@mskcc.org) .

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