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The Alexander Rudensky Lab

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Alexander Rudensky, PhD

Chair, Immunology Program, SKI; Director, Ludwig Center at MSK; Lloyd J. Old Chair for Clinical Investigation

Professor

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)

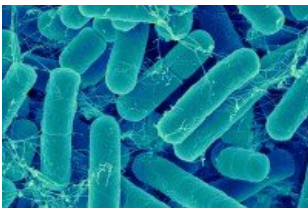


Featured News



[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.](#)

[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.](#)

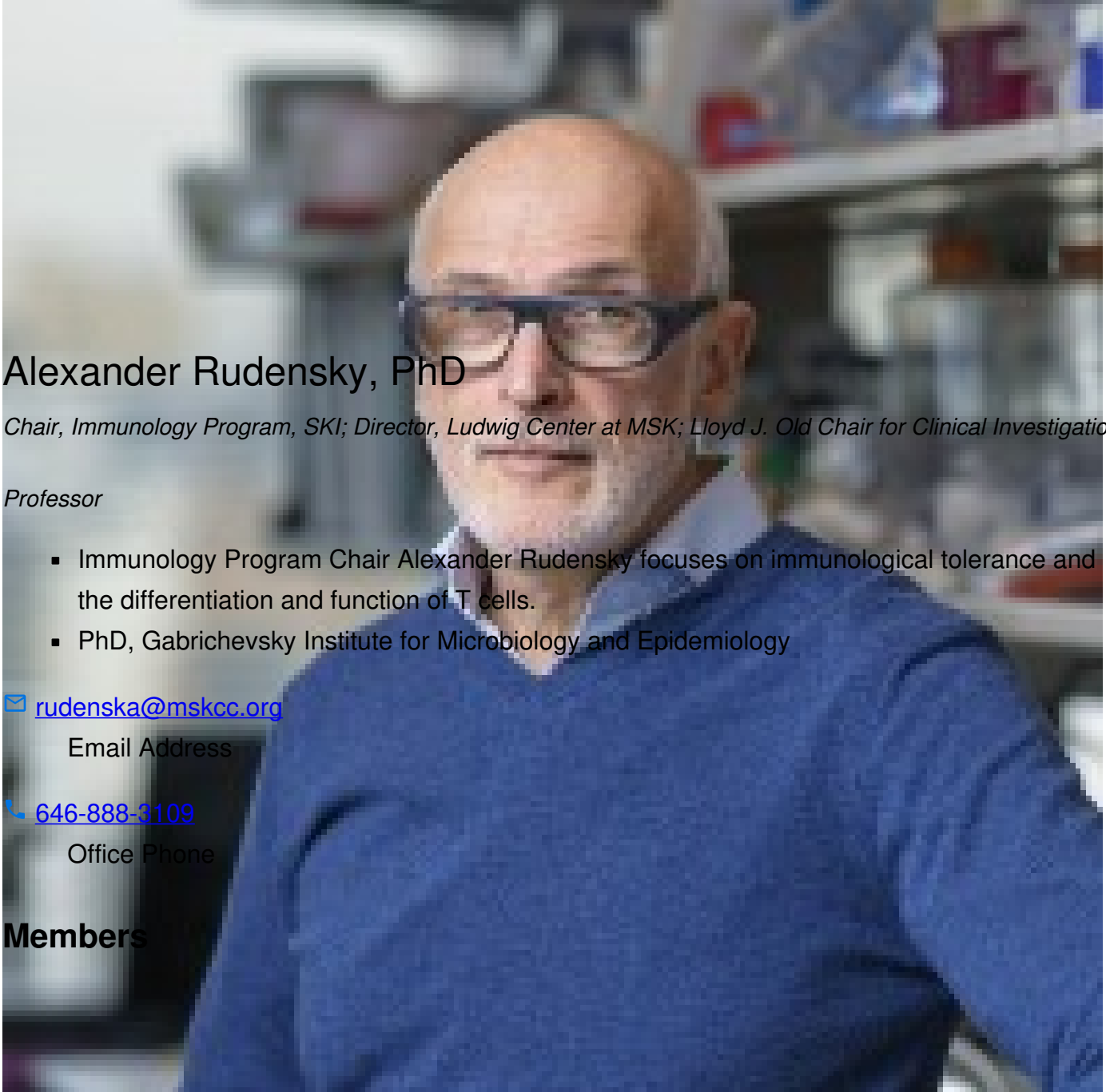
[Brown CC, Gudjonson H, Pritykin Y, Deep D, Lavallée VP, Mendoza A, Fromme R, Mazutis L, Ariyan C, Leslie C, Pe'er D, Rudensky AY. \(2019\) Transcriptional Basis of Mouse and Human Dendritic Cell Heterogeneity. Cell. 179\(4\):846-863.](#)

[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.](#)

[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.](#)

[View All Publications](#)

People



Alexander Rudensky, PhD
Chair, Immunology Program, SKI; Director, Ludwig Center at MSK; Lloyd J. Old Chair for Clinical Investigation

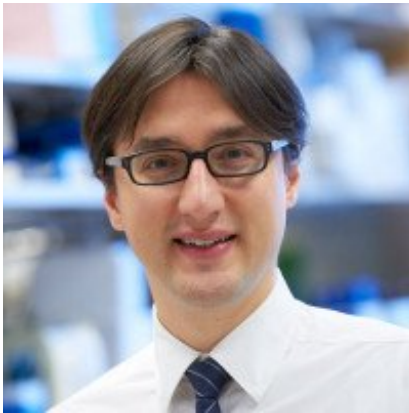
Professor

- 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



George Plitas
Assistant Attending, Breast Service



Emma Andretta
Technician

Lab
Alumni

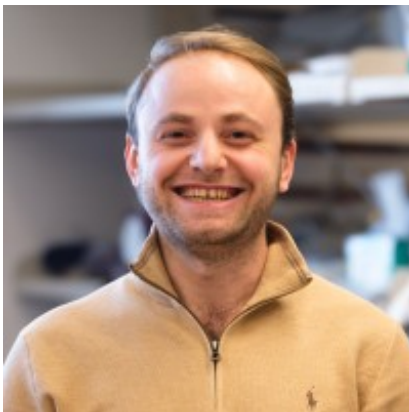
Lab Affiliations

Achievements

- Investigator, Howard Hughes Medical Institute
- Vilcek Prize in Biomedical Science, New York, NY (2018)
- 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)



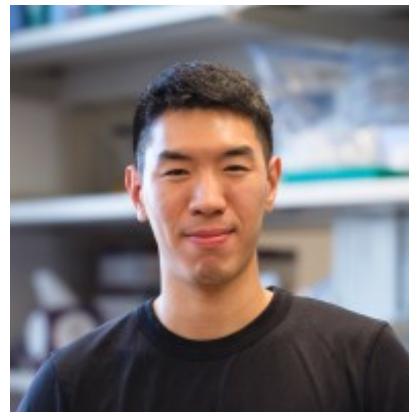
Charlotte Ariyan
Associate Attending, Gastric & Mixed Tumor Service



Giorgi Beroshvili
Graduate Student



Regina Bou Puerto
Graduate Student



Spencer Chen
Research Fellow

Open Positions

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



Joe N. Frost
Research Fellow

Aazam Ghelani
Graduate Student

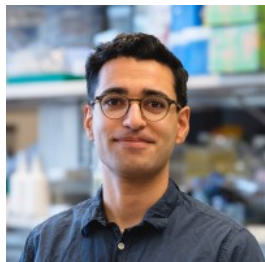
[Postdocs](#)

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

Get in Touch



Paolo Giovanelli
Graduate Student



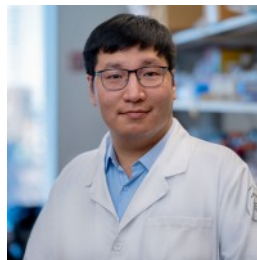
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Senior Research Scientist


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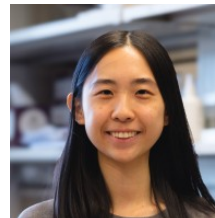
Xiao Huang
Research Associate



Ainsley Lockhart
Research Fellow

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Cheryl Mai
MD-PhD Student

Disclosures

Members of the MSK Community often work with pharmaceutical, device,

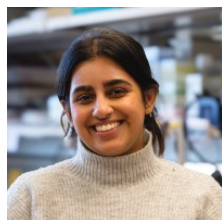
biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve

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.

Anthony Michaels
Graduate Student



Fatima Salman
Technician

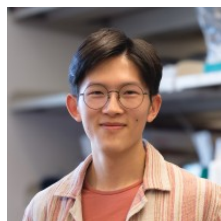


Ariën Schiepers
Research Fellow



Lion Uhl
Research Fellow

Aparna Vancheswaran
Research Fellow



Eric Y. Wang
MD-PhD Student

Ian Zumpano
Technician

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 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.

Alexander Rudensky discloses the following relationships and financial interests:

- Amgen
Professional Services and Activities
- 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.
Equity; Professional Services and Activities
- 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.

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

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Cancer Center