



Gerstner Sloan Kettering
Graduate School of Biomedical Sciences

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IMMUNOLOGY PROGRAM

[Admissions](#)

The Alexander Rudensky Lab

[Cancer Biology](#)

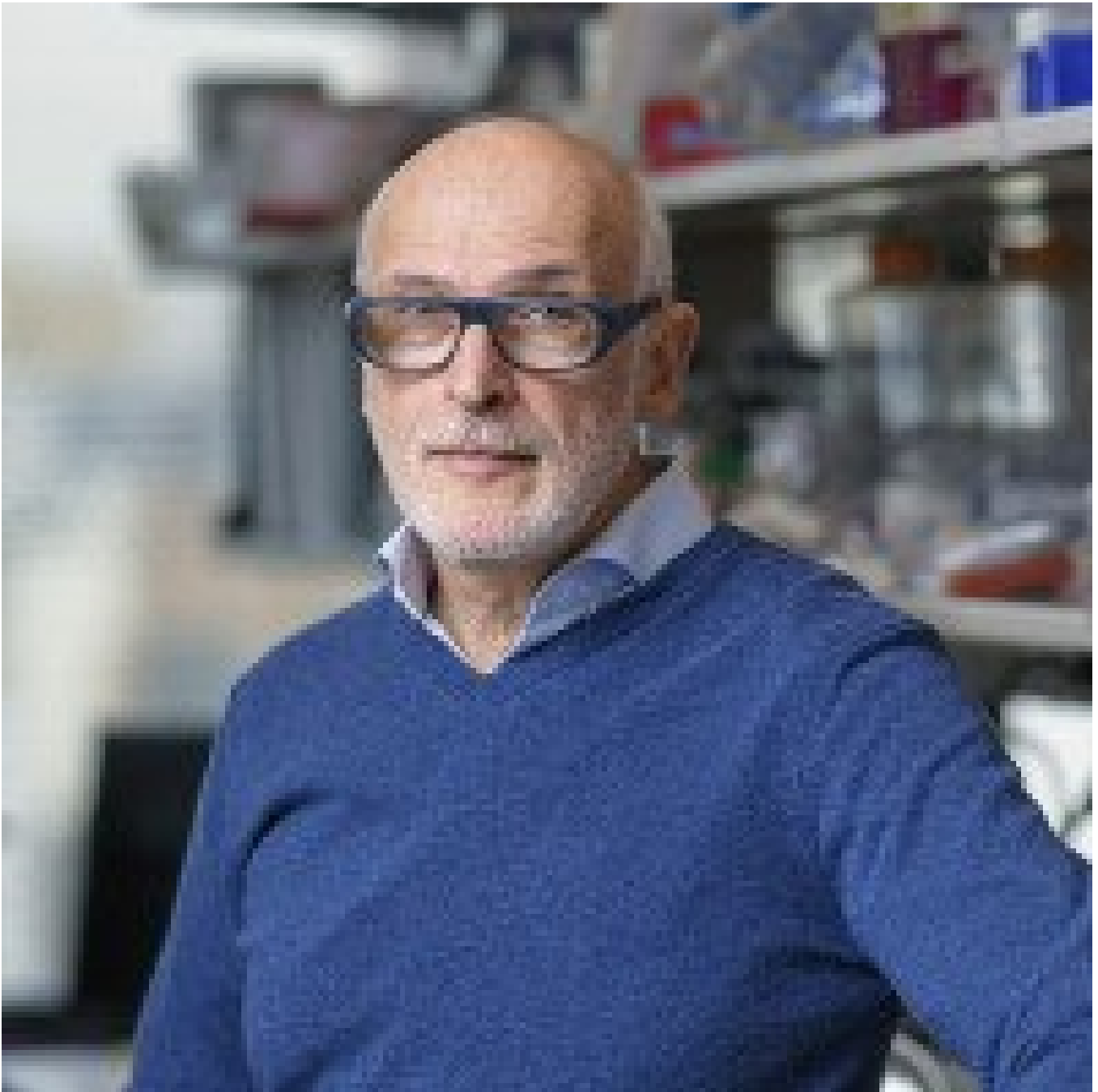
Faculty

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Research

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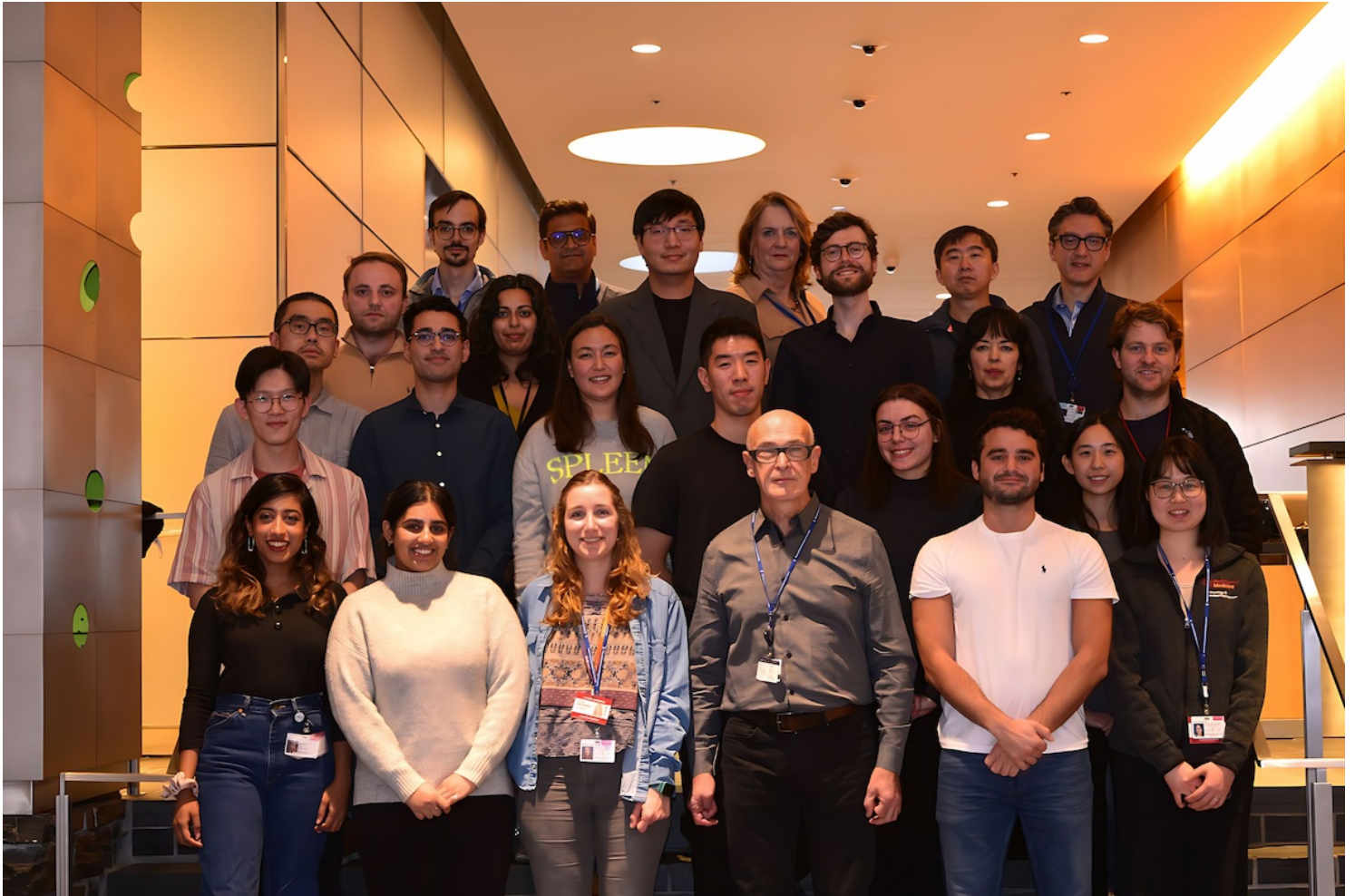
Alexander Rudensky, PhD
Chair, Immunology Program, SKI; Director, Ludwig Center at MSK

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](#) →



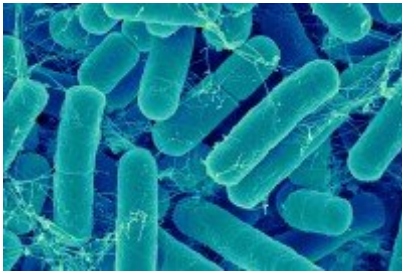
Featured News



[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

[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.](#)

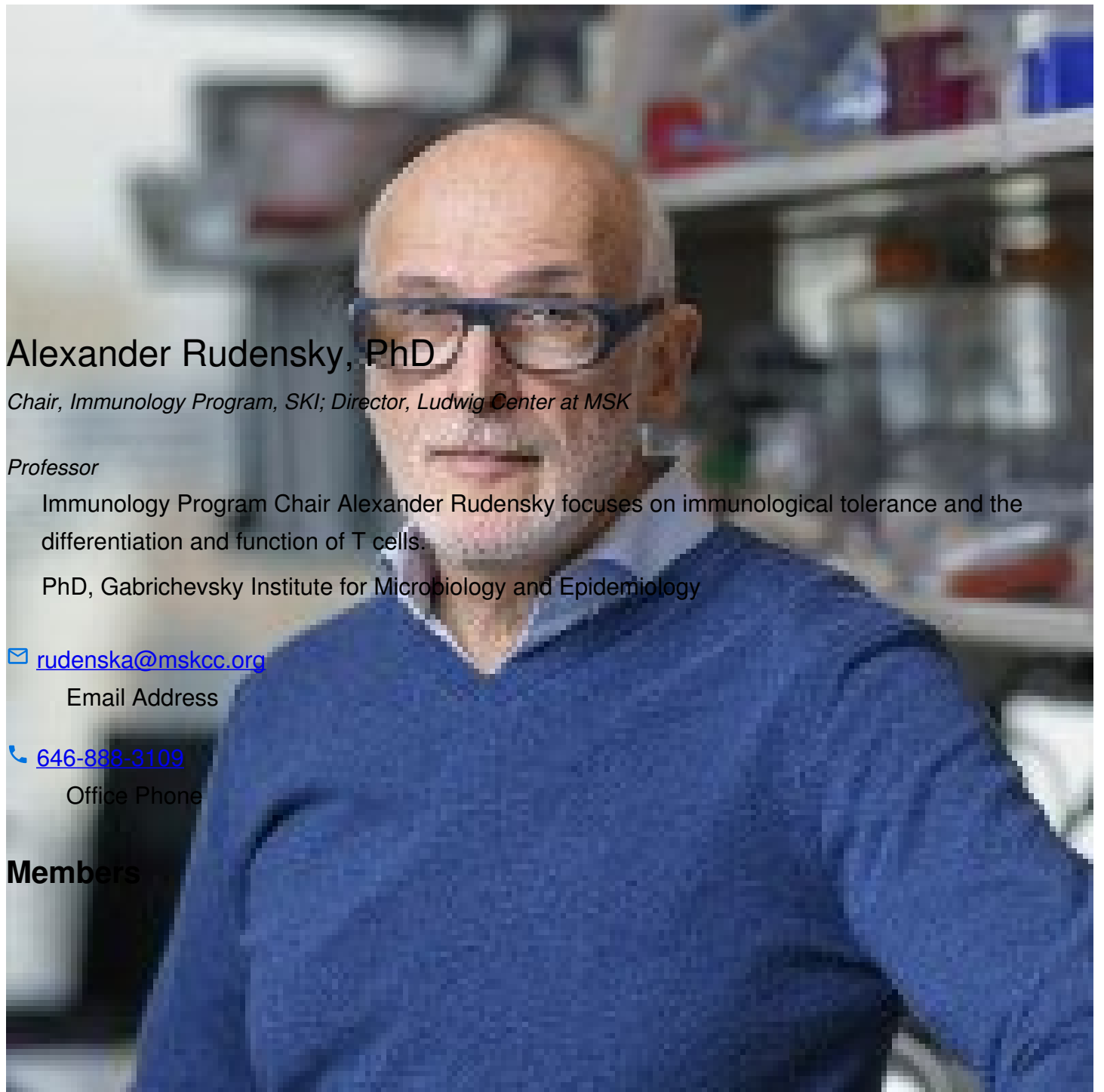
[Brown CC, Gudjonson H, Pritykin Y, Deep D, Lavallée VP, Mendoza A, Fromme R, Mazutis L, Ariyan C, Leslie C, Pe'er D, Rudensky AY. \(2019\) Transcriptional Basis of Mouse and Human Dendritic Cell Heterogeneity. Cell. 179\(4\):846-863.](#)

[Levine AG, Mendoza A, Hemmers S, Molledo 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 Veen 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

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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Office Phone

Members



George
Plitas

Assistant Attending, Breast
Service

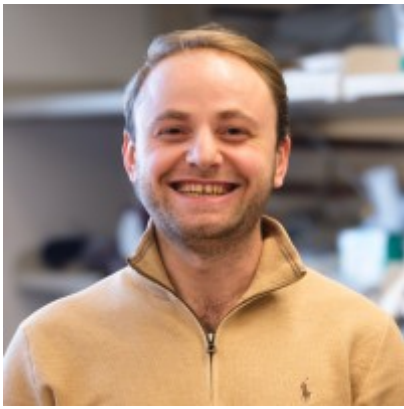


Emma Andretta
Technician



Charlotte
Ariyan

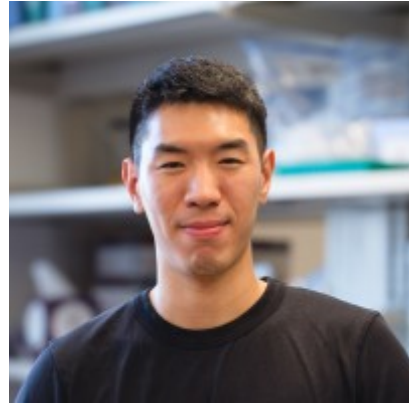
Associate Attending,
Gastric & Mixed Tumor
Service



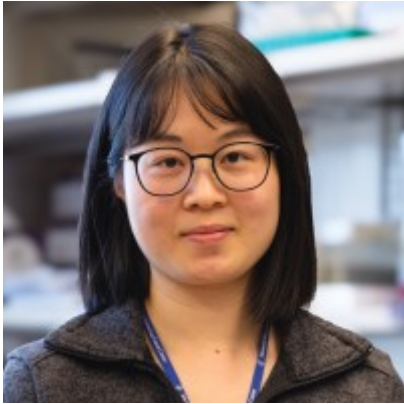
Giorgi Beroshvili
Graduate Student



Regina Bou Puerto
Graduate Student



Allen Y. Chen
Research Fellow



Beibei (Bella)
Fang
Graduate Student



Joe N.
Frost
Research Fellow

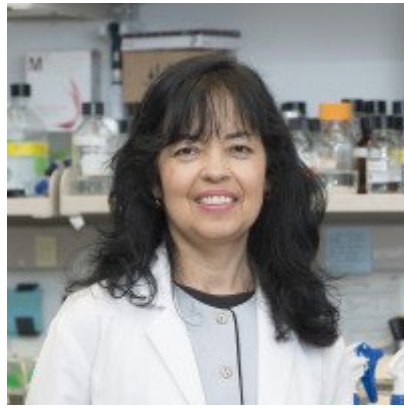


Aazam
Ghelani
Graduate Student

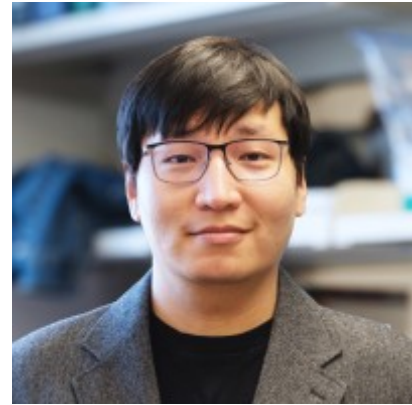
Paolo Giovanelli
Graduate Student



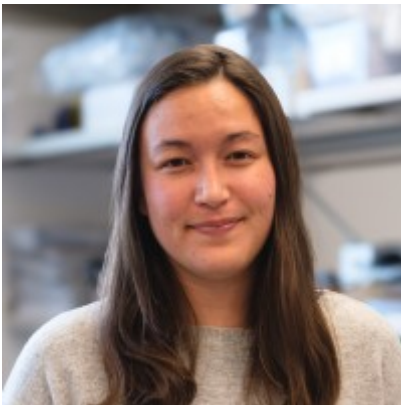
Nima
Hooshdaran
Graduate Student



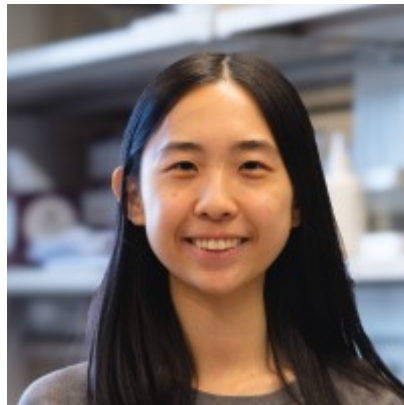
Beatrice
Hoyos
Visiting Investigator



Jian
Hu
Senior Research Scientist



Ainsley
Lockhart
Research Fellow



Cheryl Mai
MD-PhD Student

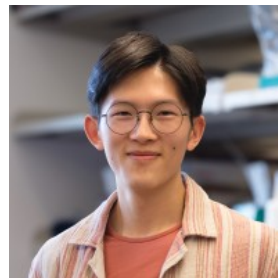


Anthony Michaels
Graduate Student



Lion
Uhl
Research Fellow

Aparna
Vancheswaran
Research Fellow



Eric Y. Wang
MD-PhD Student

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)

Read more

+

Lab News & Events

UPCOMING EVENT

[Tumor Reactive Antibodies in Ovarian Cancer Patients](#)

Monday, March 11, 2024 - 1:30 PM to 2:30 PM

Memorial Sloan Kettering Cancer Center

1275 York Avenue

Room M-107

New York, NY 10065


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Disclosures

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.

MSK requires doctors and faculty members 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.

Alexander Rudensky discloses the following relationships and financial interests:

BioInvent International AB

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

Surface Oncology

Equity; Professional Services and Activities

Takeda Pharmaceuticals

Intellectual Property Rights

Vedanta

Equity; Professional Services and Activities

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This page and data include information for a specific MSK annual disclosure period (January 1, 2022 through disclosure submission in spring 2023). This data reflects interests that may or may not still exist. This data is updated annually.

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