



Gerstner Sloan Kettering
Graduate School of Biomedical Sciences

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The Michel Sadelain Lab

[Cancer Biology](#)

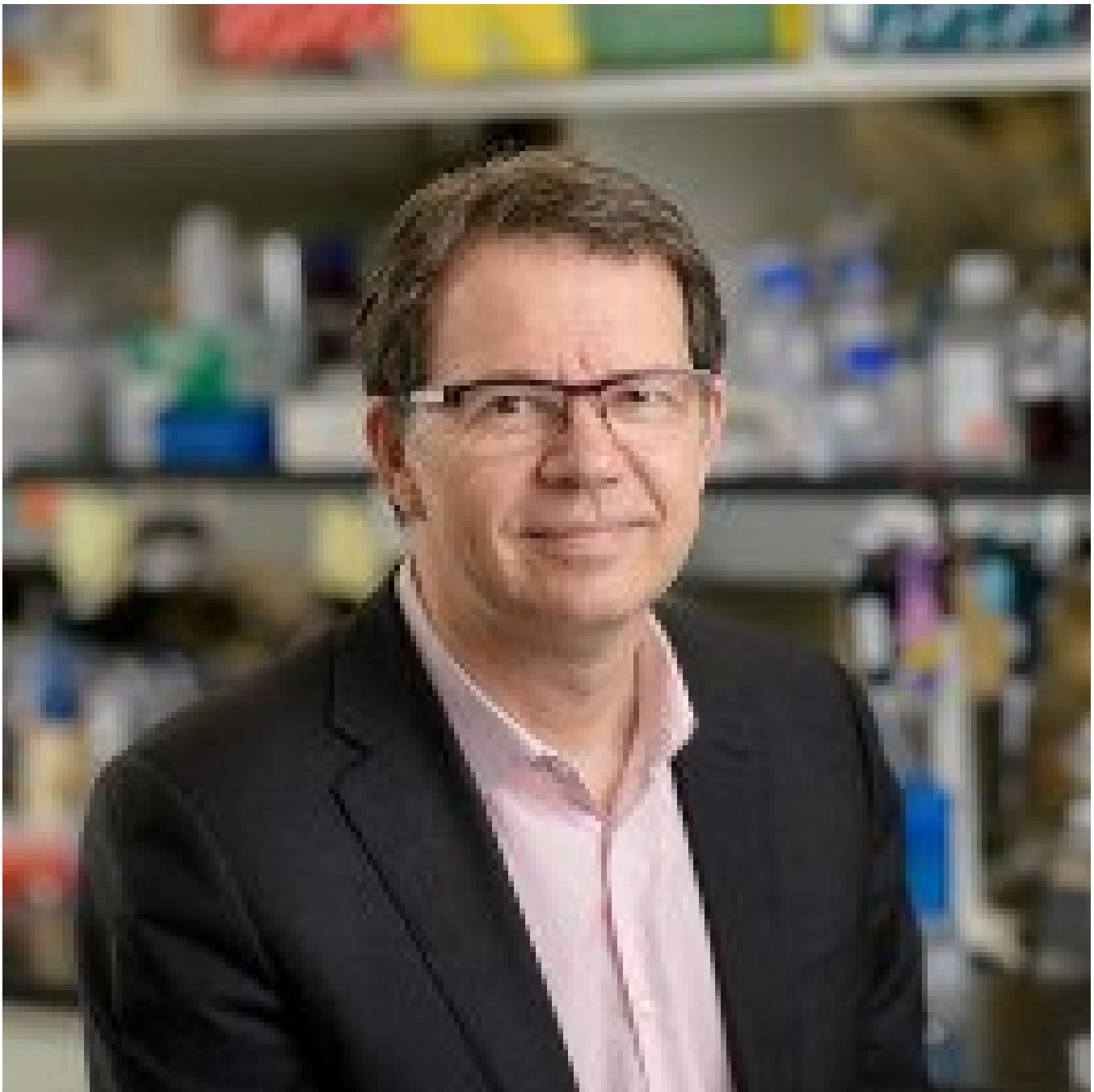
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Michel Sadelain, MD, PhD

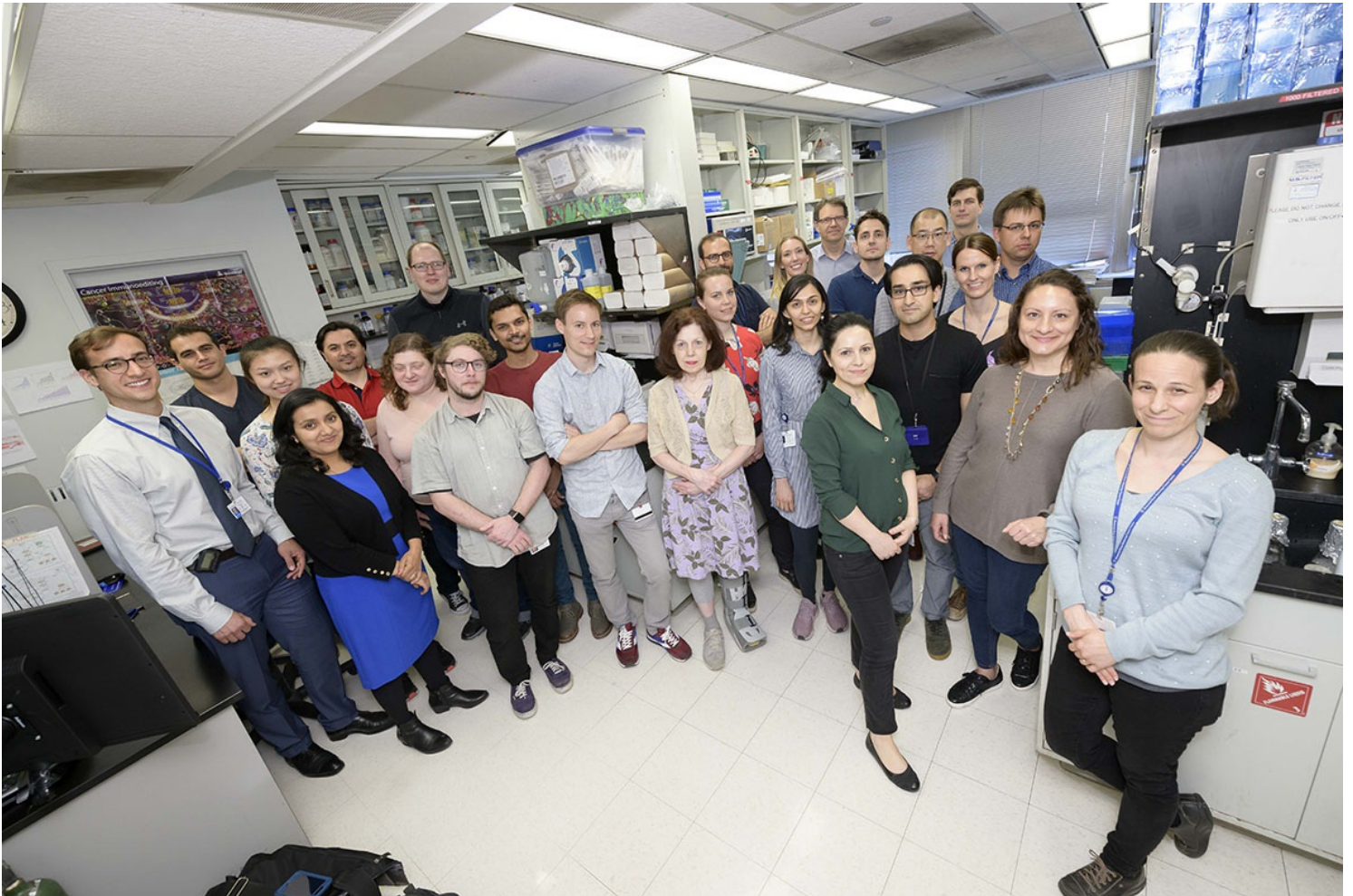
Stephen and Barbara Friedman Chair; Director, Center for Cell Engineering

Professor

My lab studies the mechanisms governing transgene expression, stem cell engineering, and genetic strategies to enhance immunity against cancer.

Dr Michel Sadelain [has been awarded the 2024 Breakthrough Prize in Life Sciences](#). The prestigious prize recognizes Dr. Sadelain for the development of chimeric antigen receptor T cell immunotherapy whereby the patient's T cells are modified to target and kill cancer cells.

[View Lab Overview](#) →

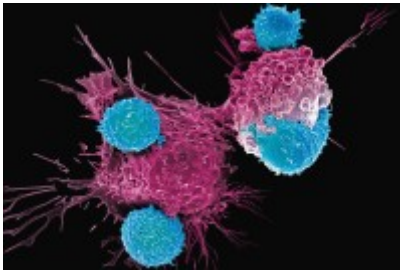


Featured News



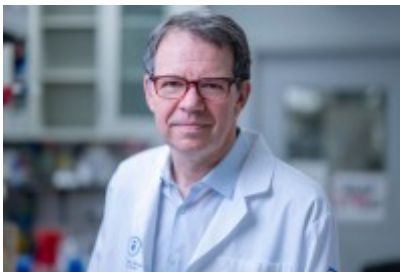
[Could CAR T-Cell Therapy Be a Cure for Some Cancers?](#)

Discover the revolutionary potential of CAR T-cell therapy, the intricate process of modifying a patient's own immune cells to target and eliminate cancer cells.



[How MSK Is Improving CAR T Cell Therapy for Cancer Treatment](#)

Learn how experts at MSK who helped develop CAR T cell therapy to fight cancer are making the treatment stronger, safer, more durable and accessible to more people.



[Disrupting a Single Gene Could Improve CAR T Cell Immunotherapy, New Study Shows](#)

Learn how disrupting a gene called SUV39H1 could make CAR T cells more powerful.

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Publications Highlights

[Jain N, Zhao Z, Koche RP, Antelope C, Gozlan Y, Montalbano A, Brocks D, Lopez M, Dobrin A, Shi Y, Gunset G, Giavridis T, Sadelain M. Disruption of SUV39H1-mediated H3K9 methylation sustains CAR T cell function. *Cancer Discovery*. 2023](#)

[Haubner S, Mansilla-Soto J, Nataraj S, Kogel F, Chang Q, de Stanchina E, Lopez M, Ng MR, Fraser K, Subklewe M, Park JH, Wang X, Rivière I, Sadelain M. Cooperative CAR targeting to selectively eliminate AML and minimize escape. *Cancer Cell*. 2023 Oct 4:S1535-6108\(23\)00326-4.](#)

[Zhao Z, Sadelain M. CAR T cell design: approaching the elusive AND-gate. *Cell Res*. 2023 Oct;33\(10\):739-740.](#)

[Hamieh M, Mansilla-Soto J, Rivière I, Sadelain M. Programming CAR T Cell Tumor Recognition: Tuned Antigen Sensing and Logic Gating. *Cancer Discov*. 2023 Apr 3;13\(4\):829-843.](#)

[Jain N, Zhao Z, Feucht J, Koche R, Iyer A, Dobrin A, Mansilla-Soto J, Yang J, Zhan Y, Lopez M, Gunset G, Sadelain M. TET2 guards against unchecked BATF3-induced CAR T cell expansion. *Nature*. 2023 Mar;615\(7951\):315-322.](#)

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People



Michel Sadelain, MD, PhD

Stephen and Barbara Friedman Chair; Director, Center for Cell Engineering

Professor

Immunologist Michel Sadelain studies the mechanisms governing transgene expression, stem cell engineering, and genetic strategies to enhance immunity against cancer.

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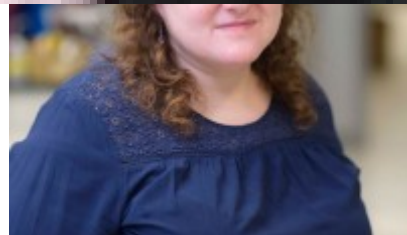
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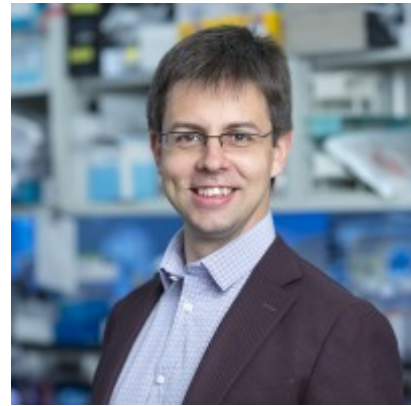
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Assistant



Annalisa Cabriolu
Senior Research Scientist



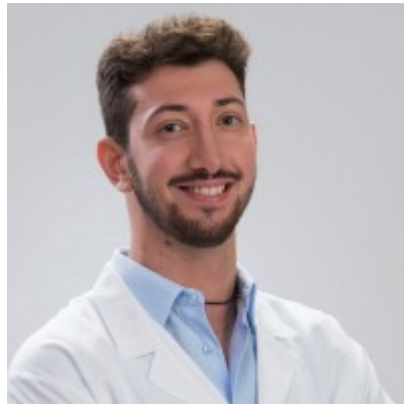
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Research Assistant



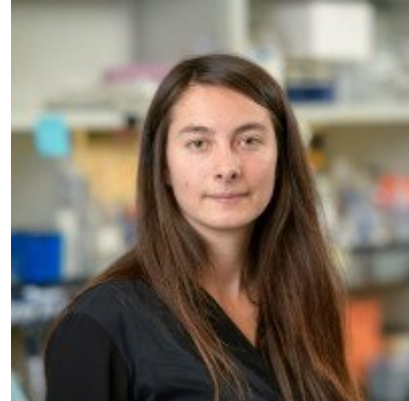
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Physician



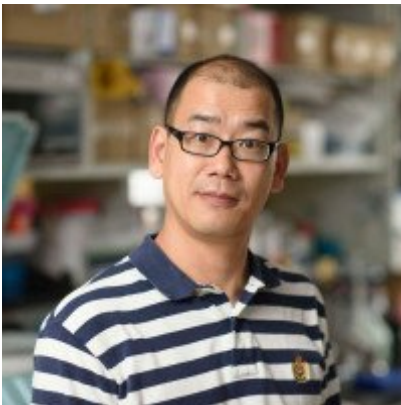
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Sjoukje van der
Stegen
Senior Research Scientist



Ophelie L.
Vivier
Graduate research
Assistant



Zeguo
Zhao
Senior Research Scientist

Lab Alumni
+

Lab Affiliations
+

Achievements

Awarded Breakthrough Prize in Life Sciences (2024)

Citation Laureate 2023

Recipient of the American Society of Gene & Cell Therapy Outstanding Achievement Award (2021)

Laureate of the 48th Foundation ARC Léopold Griffuel award for translational and clinical research, Paris, France (2020)

[Inserm International Prize, Paris, France \(2019\)](#)

Read more

+

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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.

Michel Sadelain discloses the following relationships and financial interests:

Abintus Bio

Intellectual Property Rights

Atara Biotherapeutics

Intellectual Property Rights

Berkeley Lights, Inc.

Equity

Ceramedix

Intellectual Property Rights

Fate Therapeutics

Intellectual Property Rights

Juno Therapeutics

Intellectual Property Rights

Minerva Biotechnologies

Intellectual Property Rights

Mnemo Therapeutics

Equity; Intellectual Property Rights

NHLBI Gene Therapy Resource Program

Professional Services and Activities (Uncompensated)

Senescea Therapeutics

Equity; Intellectual Property Rights; Professional Services and Activities (Uncompensated)

Takeda Pharmaceuticals

Intellectual Property Rights

Y-mAbs Therapeutics, Inc.

Intellectual Property Rights

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