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Memorial Sloan Kettering
Cancer Center

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The Simon Powell Lab

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FOR THE MEDIA

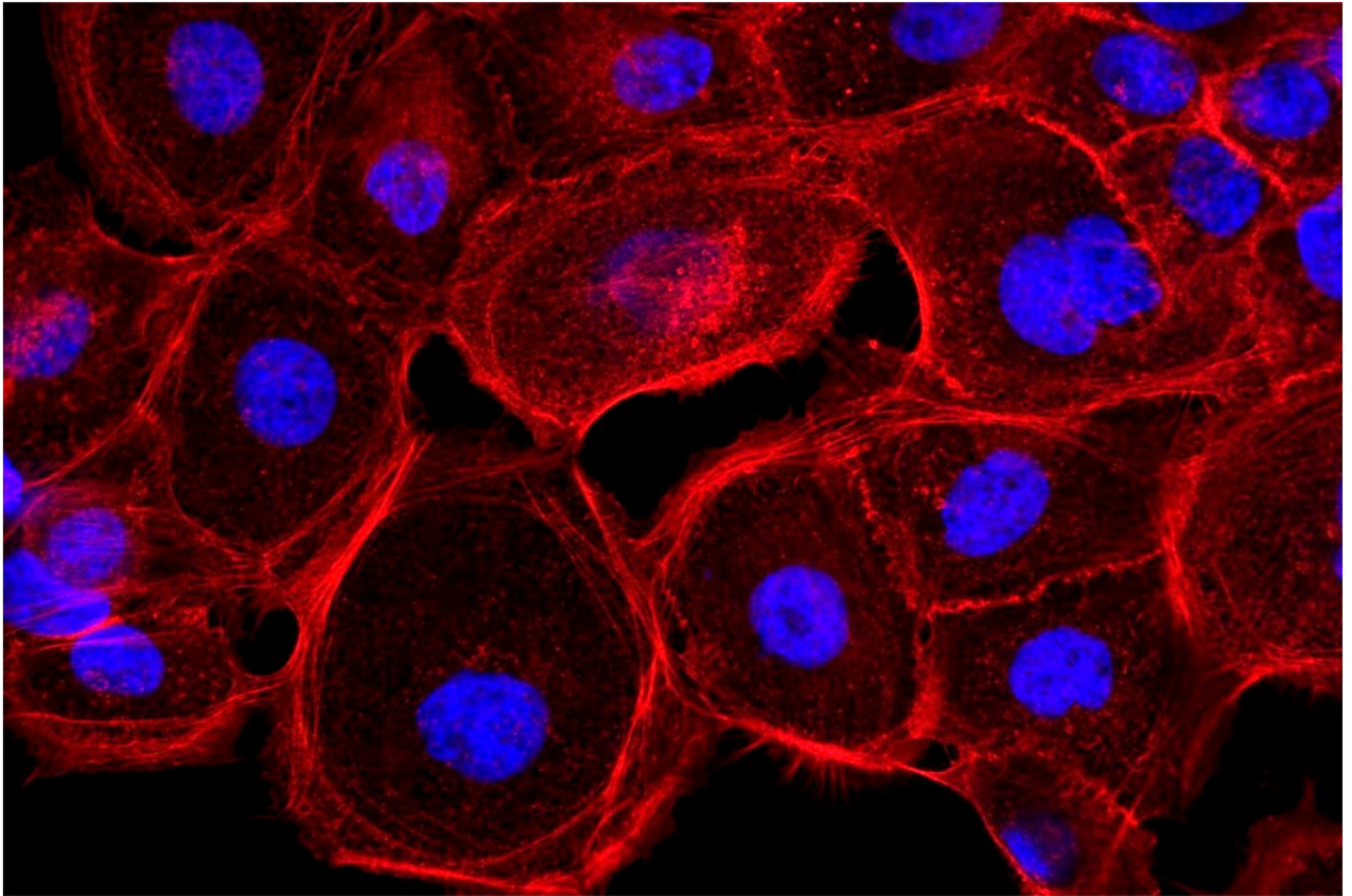


Simon N. Powell, MD, PhD
Enid A. Haupt Chair in Radiation Oncology

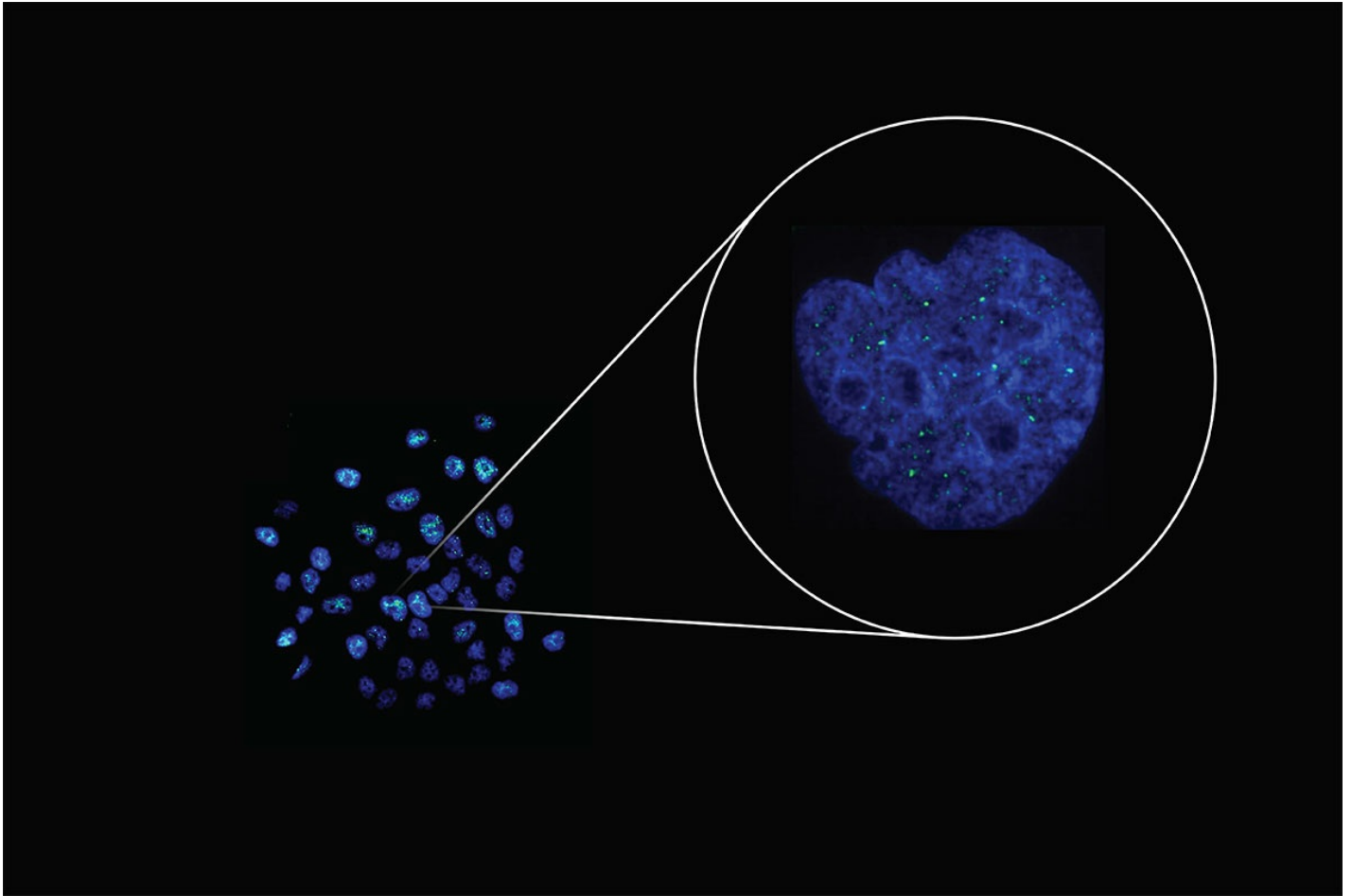
The major theme of our work is how DNA repair processes are disrupted in human cancers and how this can be exploited therapeutically.

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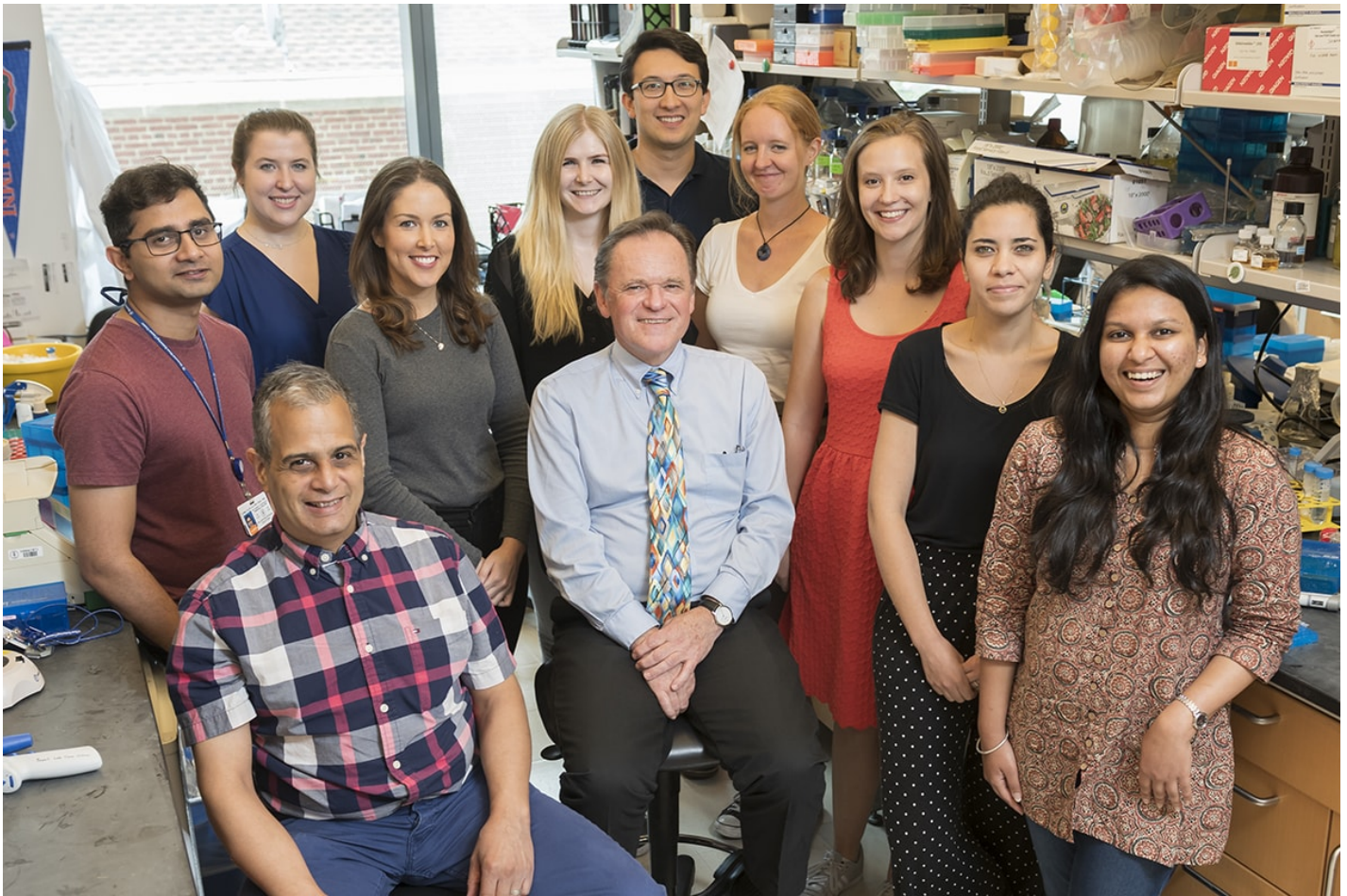
[View Lab Overview \(https://www.mskcc.org/research-areas/labs/simon-powell/overview\)](https://www.mskcc.org/research-areas/labs/simon-powell/overview)



The Powell lab researches how normal cells become cancerous by studying how genome integrity is maintained.



Super-resolution microscopy of DNA end-resection at radiation-induced double-strand breaks.



Members of the Simon Powell Lab



Featured News



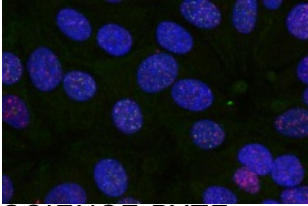
[MSK Research Highlights, August 24, 2023](#)

New MSK research suggests a method for revealing DNA repair “scars” could help make treatment decisions in BRCA1- and BRCA2-deficient cancers; modified a bacteria-made compound to target mutant KRAS-driven cancers; and shed new light on brain metastasis in non-small cell lung cancer.



[At Work: Radiation Oncology Department Chair Simon Powell](#)

Radiation oncologist Simon Powell eagerly tackles the challenge of translating discoveries from the laboratory to the clinic as effectively as possible.



SCIENCE BYTE

[Lifeguard on Duty: Looking at DNA Repair under a Microscope](#)

Learn about what DNA repair looks like under a microscope.

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Publications Highlights

Ahmed-Seghir, S. *et al.* A local ATR-dependent checkpoint pathway is activated by a site-specific replication fork block in human cells. *Elife* 12, (2023)

Setton, J. *et al.* Long-molecule scars of backup DNA repair in BRCA1- and BRCA2-deficient cancers. *Nature* 621, 129–137 (2023)

Anand, R. *et al.* HELQ is a dual-function DSB repair enzyme modulated by RPA and RAD51. *Nature* 601, 268–273 (2022)

Moore, G. *et al.* Templated Insertions Are Associated Specifically with BRCA2 Deficiency and Overall Survival in Advanced Ovarian Cancer. *Mol. Cancer Res.* 20, 1061–1070 (2022)

Anand, R. *et al.* HELQ is a dual-function DSB repair enzyme modulated by RPA and

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People

Simon N. Powell, MD, PhD

Enid A. Haupt Chair in Radiation Oncology

- Molecular biologist Simon Powell investigates DNA replication and recombination, chromosome dynamics, and human genetics.
- PhD, MD, University of London

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Physician profile

Members

Lab

Alumni

Lab Affiliations



Erika Buechelmaier
Weill-Cornell Graduate Student



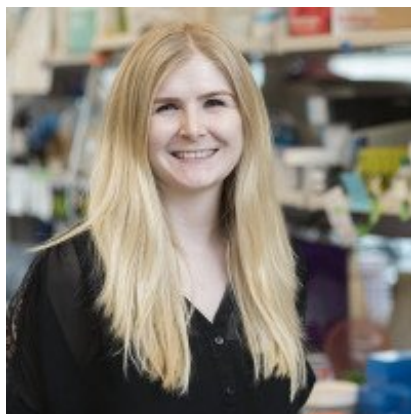
Manisha Jalan
Research Scholar

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](#)

Atif Khan
Member

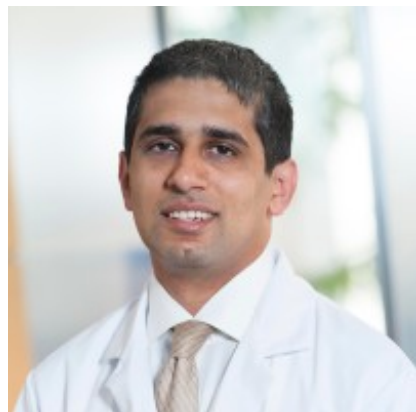


Niamh McDermott
Research Fellow

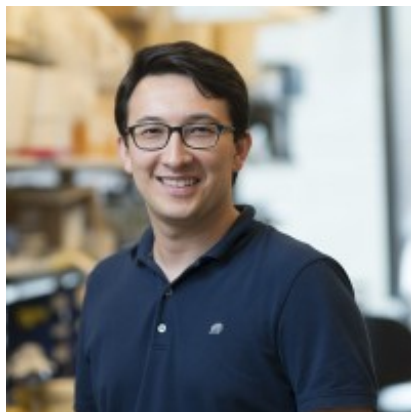
Join the Powell Lab: Postdoctoral Opportunities in Cancer Biology at Memorial Sloan Kettering Cancer Center, NYC

The Powell Lab at Memorial Sloan Kettering Cancer Center is seeking enthusiastic postdoctoral scientists to lead multidisciplinary projects at the interface of DNA repair and translational cancer research.

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Nadeem Riaz
Associate Member



Jeremy Setton
Assistant Member L1

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Get in Touch

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Robert Delsite
Senior Research Scientist



Simon Powell
Chairman Attending

Lab Phone

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 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.

Simon N. Powell discloses the following relationships and financial interests:

- AstraZeneca
Professional Services and Activities
- Cancer Research UK
Professional Services and Activities
- PharmaPier US LLC
Professional Services and Activities (Uncompensated)
- Shandong Cancer Hospital
Professional Services and Activities (Uncompensated)
- Varian Medical Systems
Professional Services and Activities

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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 .

[View all disclosures \(https://www.mskcc.org/disclosures\)](https://www.mskcc.org/disclosures)

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