

Welcome to GSK

MOLECULAR BIOLOGY PROGRAM

Admissions

The Simon Powell Lab

Cancer Biology

Faculty
Cancer Engineering

Research Research

<u>Alumni</u>

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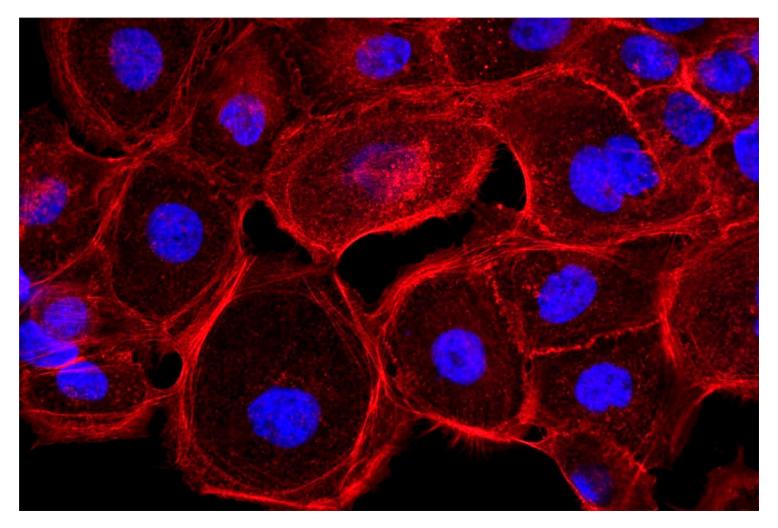
Simon N. Powell, MD, PhD

Professor

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

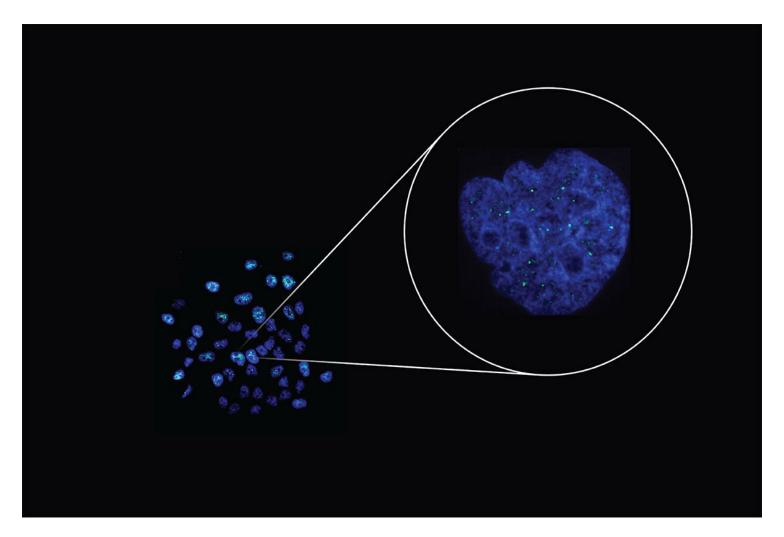
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The Powell lab researches how normal cells become cancerous by studying how genome integrity is maintained.

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

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Members of the Simon Powell Lab

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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

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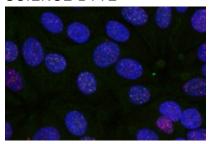
mutant KRAS-driven cancers; and shed new light on brain metastasis in non-small cell lung cancer.



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

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)

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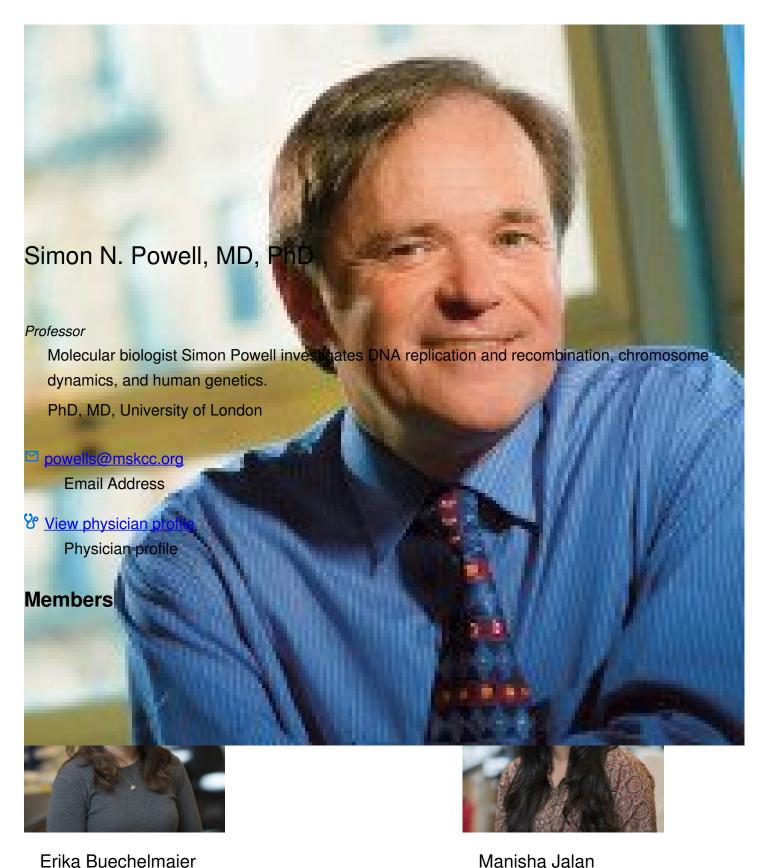
Moore, G. et al. Templated Insertions Are Associated Specifically with BRCA2 Deficiency and Overall Survival in Advanced Ovarian Cancer. Mol. Cancer Res. 20, 1061–1070 (2022)

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

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People

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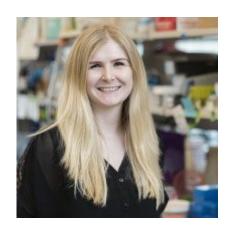
Erika Buechelmaier Weill-Cornell Graduate

Student

Research Scholar

Atif Khan

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Niamh McDermott Research Fellow



Jeremy
Setton
Assistant Member L1



Delsite
Senior Research Scientist

Robert



Simon Powell
Chairman Attending

Lab Alumni +

Lab Affiliations +

Open Positions

To learn more about available postdoctoral opportunities, please visit our Career Center

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To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit Resources for Postdocs

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.

Apply now -

Get in Touch

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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.

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

PharmaPier US LLC

Professional Services and Activities (Uncompensated)

Rain Therapeutics Inc.

Professional Services and Activities

Varian Medical Systems

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The information published here 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, 2022 through disclosure submission in spring 2023). This data reflects interests that may or may not still exist. This data is updated annually.

Learn more about MSK's COI policies <u>here</u>. For questions regarding MSK's COI-related policies and procedures, email MSK's Compliance Office at <u>ecoi@mskcc.org</u>.

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