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Cancer Center

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MOLECULAR BIOLOGY PROGRAM

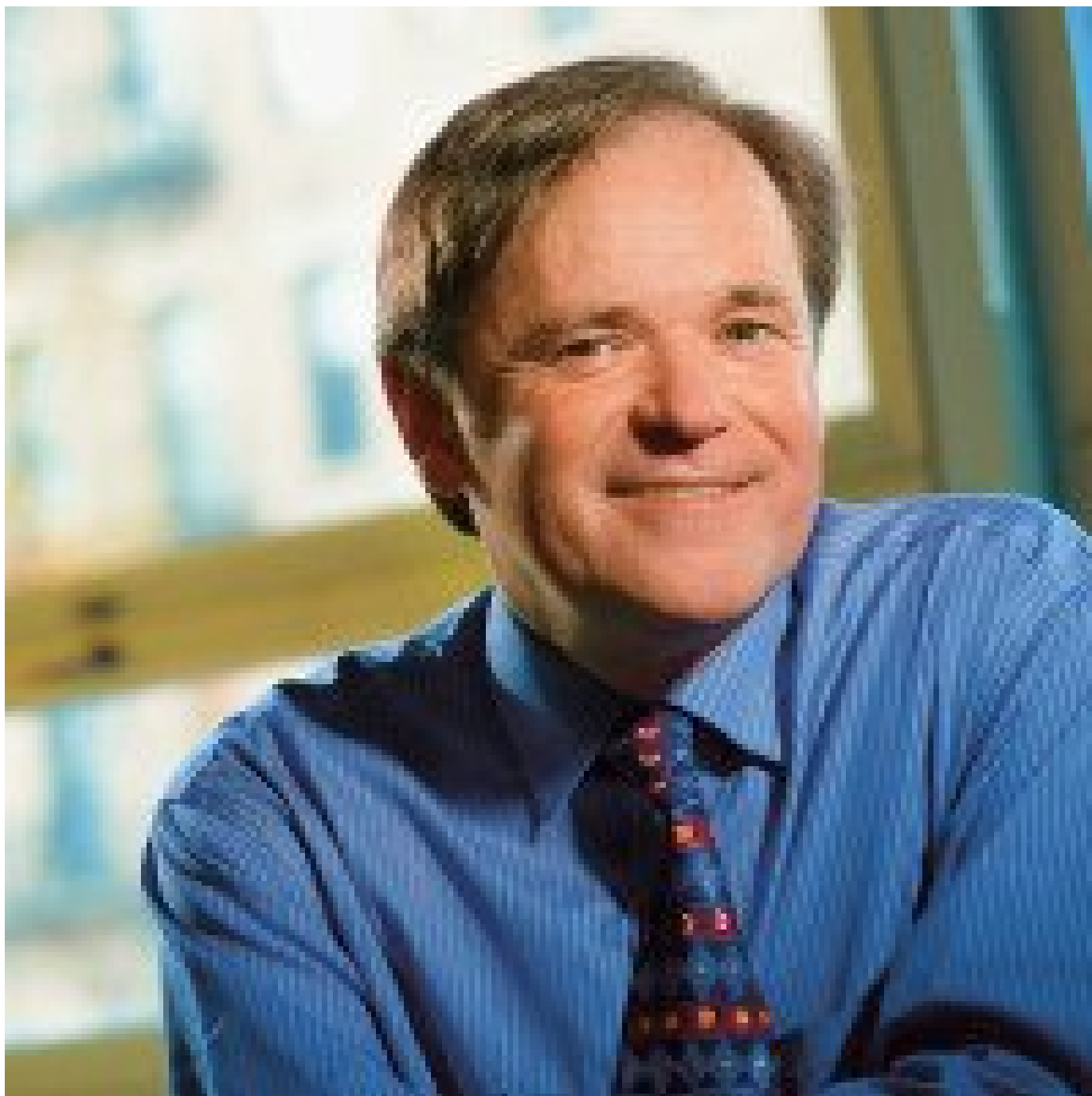
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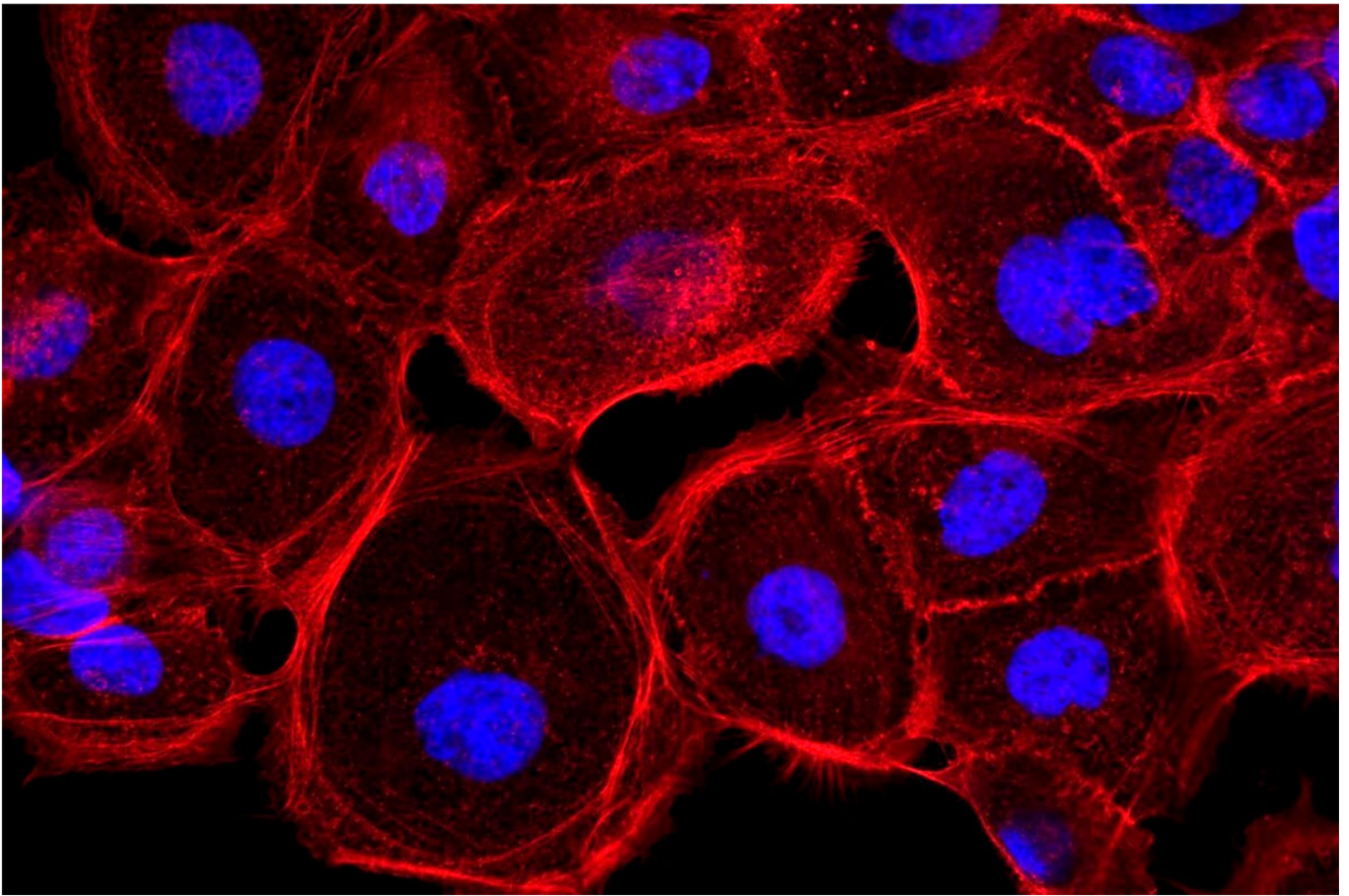


Simon N. Powell, MD, PhD

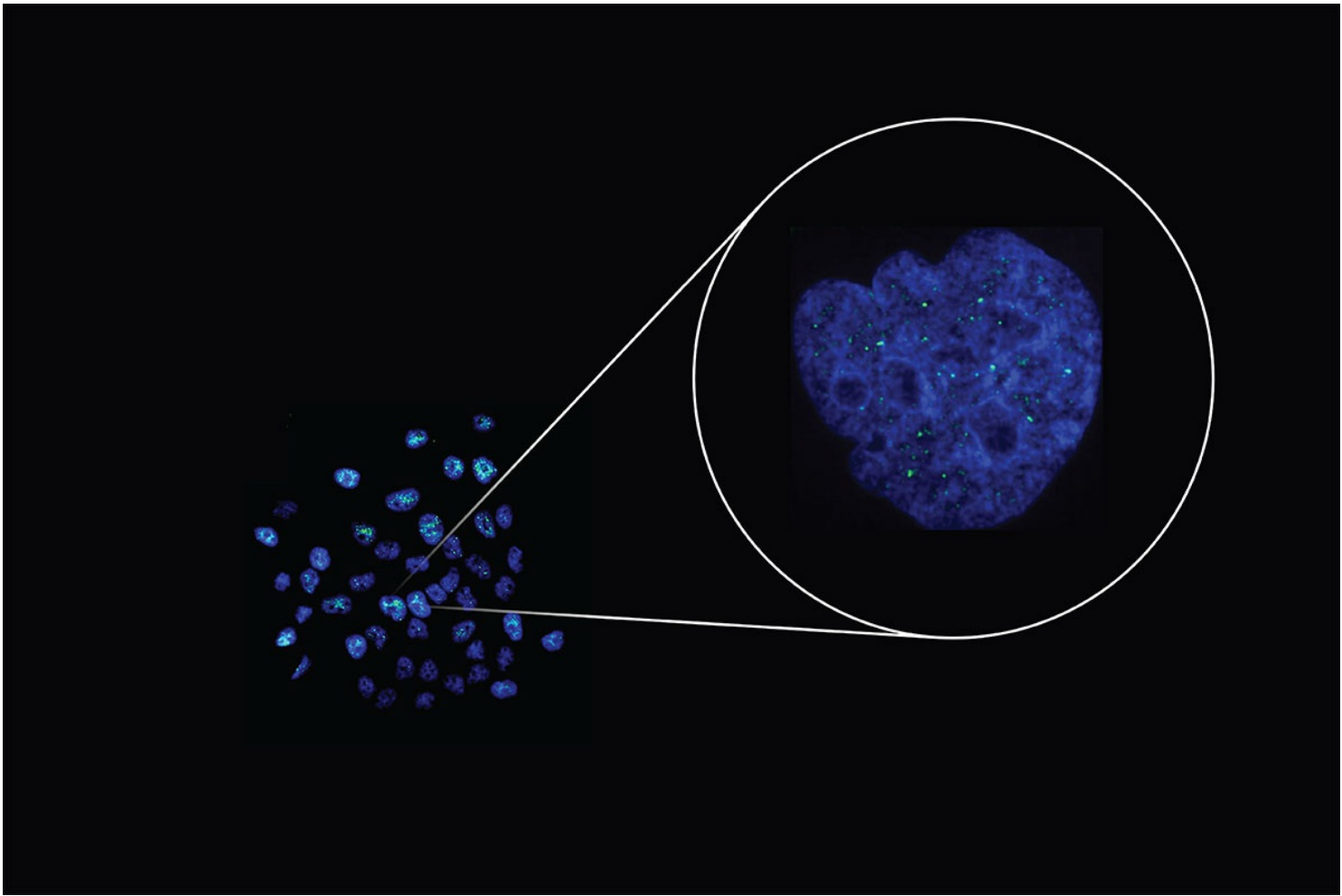
The major theme of our work is how DNA repair processes are disrupted in human cancers and how this can be exploited therapeutically.

[**Join the Powell Lab!**](#)

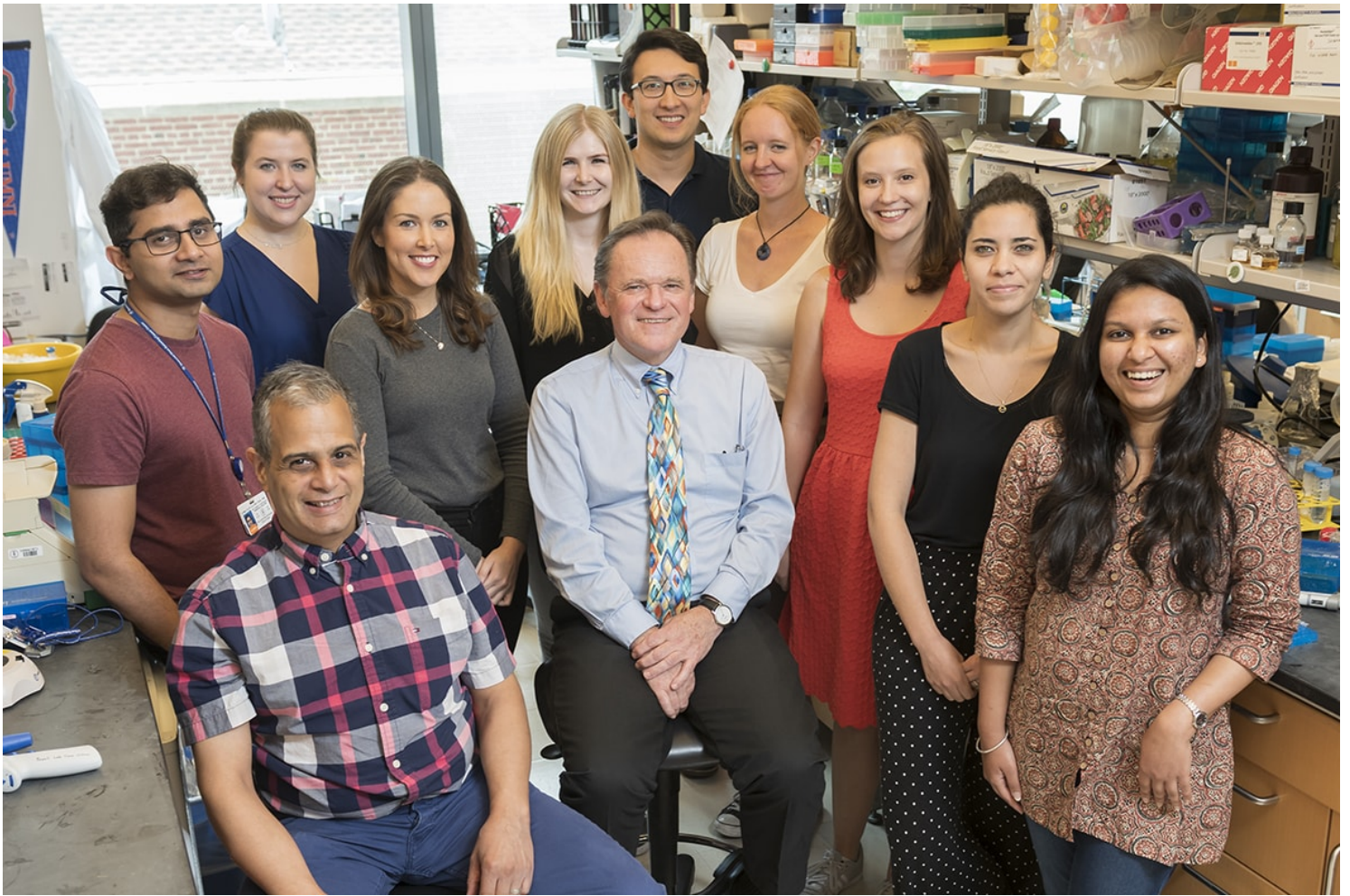
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The Powell lab researches how normal cells become cancerous by studying how genome integrity is maintained.



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



Members of the Simon Powell Lab

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Featured News



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

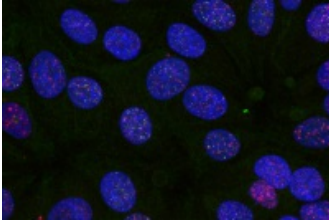
New MSK research suggests a method for revealing DNA repair “scars” could help make treatment decisions in BRCA1- and BRCA2-deficient cancers; modified a bacteria-made compound to target mutant KRAS-driven cancers; and shed new light on brain metastasis in non-small cell lung cancer.



[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 RAD51. *Nature* 601, 268–273 (2022)

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People

Simon N. Powell, MD, PhD

Molecular biologist Simon Powell investigates DNA replication and recombination, chromosome dynamics, and human genetics.

PhD, MD, University of London

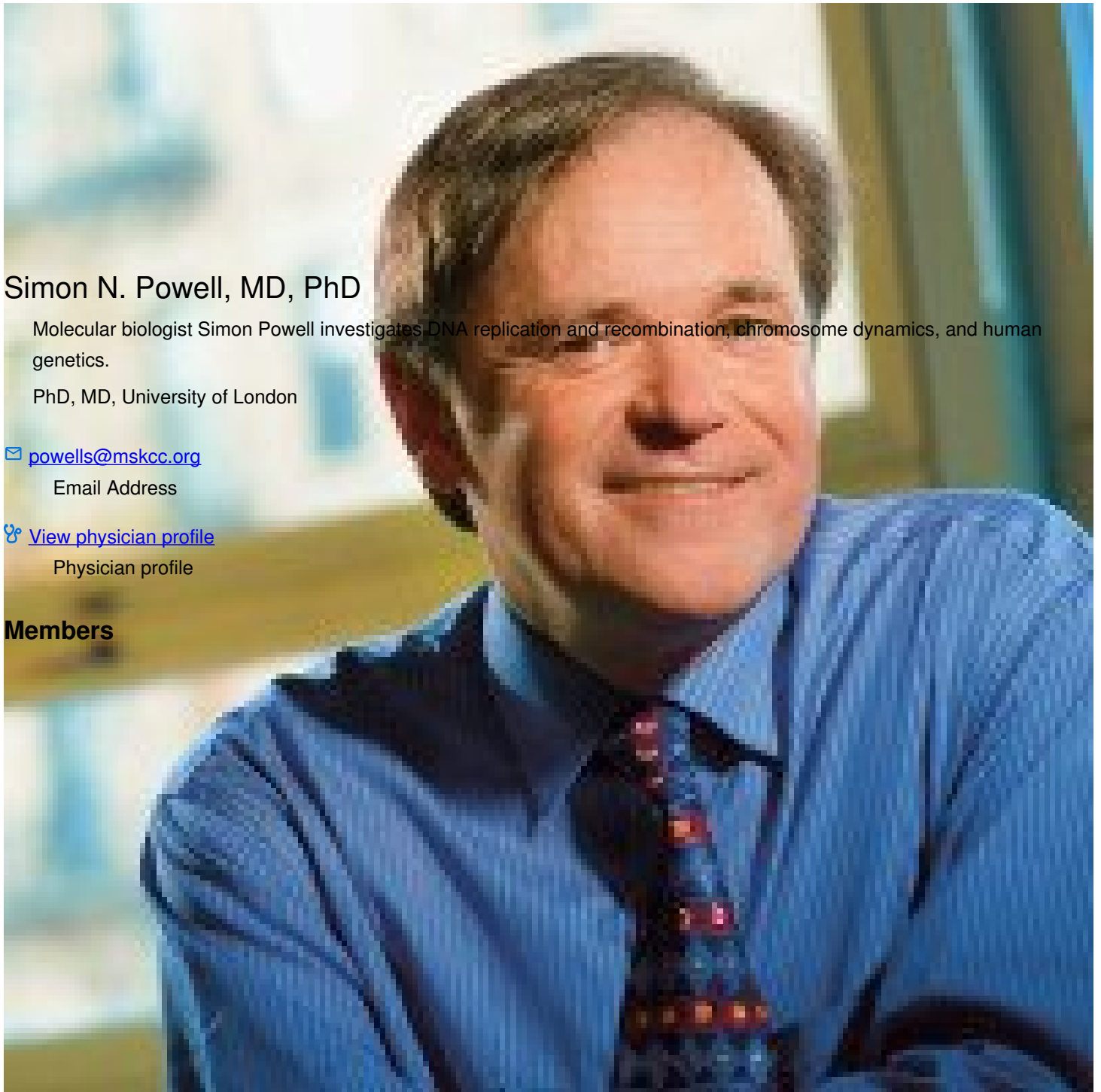
✉ powells@mskcc.org

Email Address

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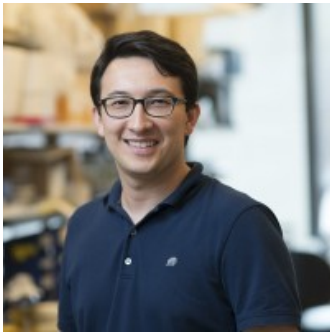
Physician profile

Members



McDermott

Research Fellow



Jeremy
Setton
Assistant Member L1



Robert
Delsite
Senior Research Scientist



Simon Powell
Chairman Attending

Lab Alumni
+

Lab Affiliations
+

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](#)

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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Get in Touch

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Lab Phone

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
Professional Services and Activities

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