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Iestyn Whitehouse, PhD
Director of the Center for Epigenetics Research (CER)

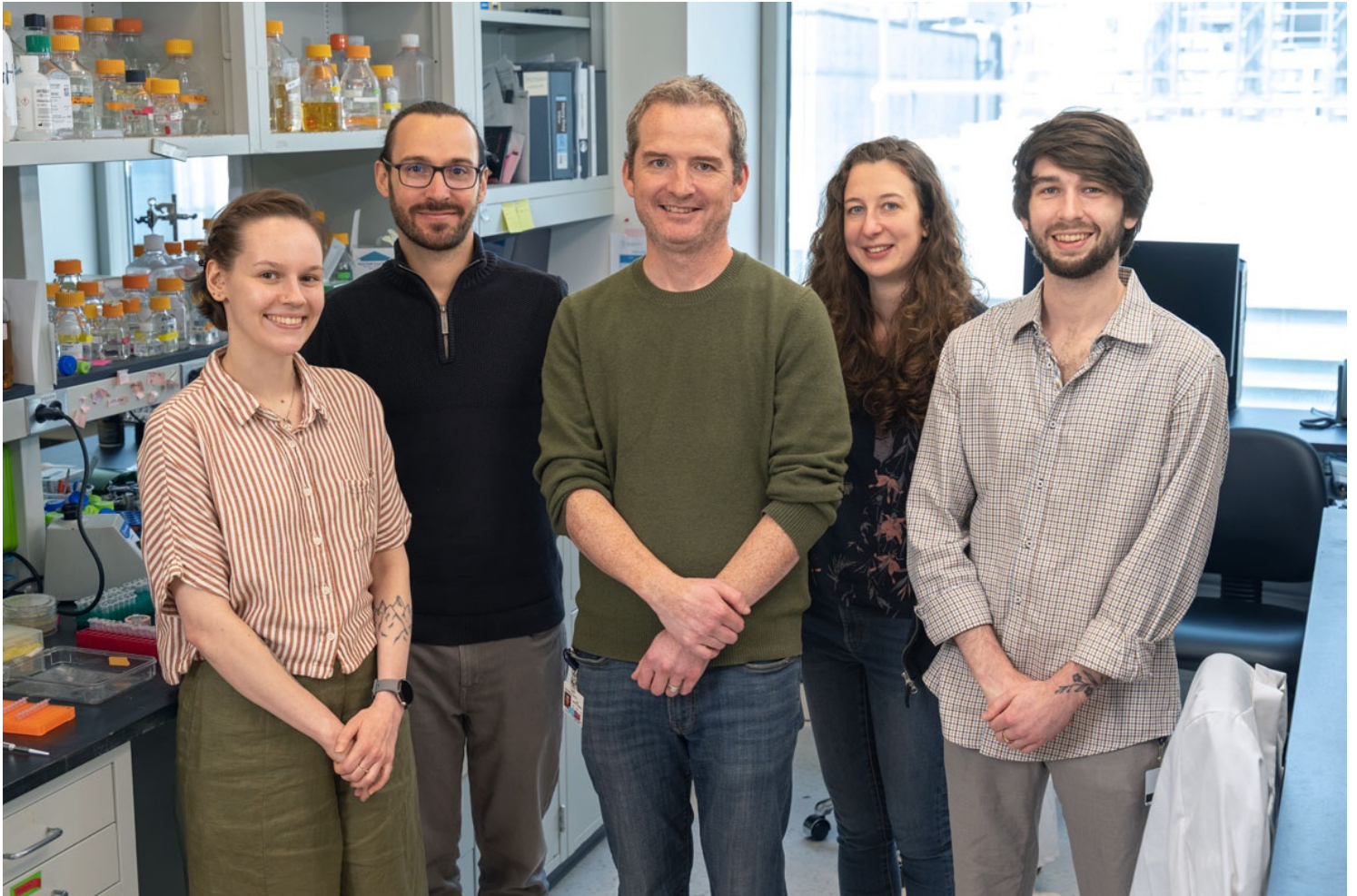
The Whitehouse lab is broadly interested in understanding how chromatin functions in the regulation of cellular processes such as DNA replication, gene transcription and epigenetics. We focus on understanding basic mechanisms and use a combination of biochemical, molecular biological and genomics approaches. We like to develop new technology and are particularly interested in the development and application of single molecule technologies such as Nanopore sequencing and single molecule indexing strategies.

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Research Projects

[Replicon-seq](#)

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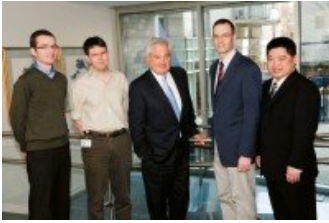


Featured News



[At Work: Molecular Biologist Iestyn Whitehouse](#)

Iestyn Whitehouse translated an early interest in woodworking into a career as a molecular biologist focused on the human genome's building blocks.



[Memorial Sloan Kettering Names First Gerstner Fund Recipients](#)

Memorial Sloan Kettering has announced the creation of the Louis V. Gerstner, Jr. Young Investigators Fund and has named the fund's first four recipients.

Publications Highlights

[Balancing act of a leading strand DNA polymerase-specific domain and its exonuclease domain promotes genome-wide sister replication fork symmetry.](#) Meng X, Claussin C, Regan-Mochrie G, Whitehouse I, Zhao X. *Genes Dev.* 2023 Jan 26. doi: 10.1101/gad.350054.122.PMID: 36702483

[Single-molecule mapping of replisome progression.](#) Claussin C, Vazquez J, Whitehouse I. *Mol Cell.* 2022 Apr 7;82(7):1372-1382.e4. doi: 10.1016/j.molcel.2022.02.010. Epub 2022 Mar 2.PMID: 35240057

[DNA replication through a chromatin environment.](#) Bellush JM, Whitehouse I. *Philos Trans R Soc Lond B Biol Sci.* 2017 Oct 5;372(1731):20160287. doi: 10.1098/rstb.2016.0287.PMID: 28847824

[DNA-mediated association of two histone-bound complexes of yeast Chromatin Assembly Factor-1 \(CAF-1\) drives tetrasome assembly in the wake of DNA replication.](#) Mattioli F, Gu Y, Yadav T, Balsbaugh JL, Harris MR, Findlay ES, Liu Y, Radebaugh CA, Stargell LA, Ahn NG, Whitehouse I, Luger K. *Elife.* 2017 Mar 18;6:e22799. doi: 10.7554/eLife.22799.PMID: 28315523

[Spatiotemporal coupling and decoupling of gene transcription with DNA replication origins during embryogenesis in *C. elegans*.](#) Pourkarimi E, Bellush JM, Whitehouse I. *Elife.* 2016 Dec 23;5:e21728. doi: 10.7554/eLife.21728.PMID: 28009254

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People



Iestyn Whitehouse, PhD

Director of the Center for Epigenetics Research (CER)

Molecular biologist Iestyn Whitehouse investigates chromatin structure and the function of ATP-dependent chromatin remodelling enzymes.

PhD, The University of Dundee

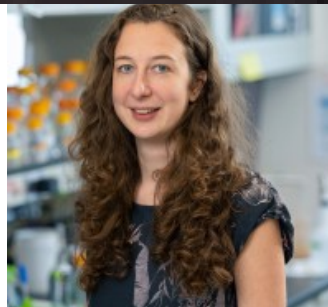
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Doctors and faculty members often work with pharmaceutical, device, biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community.

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Iestyn Whitehouse discloses the following relationships and financial interests:

No disclosures meeting criteria for time period

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