

CURRICULUM VITAE: Steven Henikoff

Position: Investigator, Howard Hughes Medical Institute
Professor, Basic Sciences Division

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Lab: <https://research.fredhutch.org/henikoff/en.html>

Education

1964-68 University of Chicago, Chicago, Illinois. BS in Chemistry. Research on optical properties of biopolymers, Dr. G. Holzwarth, advisor.

1971-77 Harvard University, Cambridge, Massachusetts. PhD in Biochemistry and Molecular Biology. Dr. M. Meselson, advisor. Thesis: RNA from heat induced puff sites in *Drosophila*.

1977-80 University of Washington, Seattle, Washington. Postdoctoral fellow in Zoology. Research on position-effect variegation in *Drosophila*, Charles Laird, advisor and genetic engineering in yeast, Benjamin Hall, advisor.

Professional Experience

1981-85 Fred Hutchinson Cancer Research Center, Seattle, Washington. Assistant Member in Basic Sciences.

1981- University of Washington, Seattle. Affiliate faculty in Genetics/Genome Sciences.

1985-88 Fred Hutchinson Cancer Research Center, Seattle, Washington. Associate Member in Basic Sciences.

1988- Fred Hutchinson Cancer Research Center, Seattle, Washington. Member and Professor in Basic Sciences.

1990- Investigator, Howard Hughes Medical Institute.

Current Research

Nucleosome dynamics and evolution
Transcriptional regulation
Centromere evolution
Epigenomic technologies
Histone overexpression in cancer

Ongoing Funding

Howard Hughes Medical Institute	Investigator	04/1/1990 – 1/31/2027
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Honors

1968 National Science Foundation Graduate Student Fellowship

1969-1971 National Defense Service Medal, US Army

1978-1981 Leukemia Society of America Postdoctoral Fellowship

2005- Member, US National Academy of Sciences

2012- Fellow, American Association for the Advancement of Science

2015 Genetics Society of America Medal

2015- Washington State Academy of Sciences

2022- Member, American Academy of Arts and Sciences

Activities

2025 NIH NCI Grant Review Panel

2024 Course Instructor, FHCC/UW MCB517
 2024 NIH Fellowship Grant Review Panel
 2023- Field Chief Editor, *Frontiers in Epigenetics and Epigenomics*
 2022 NIH Fellowship Grant Review Panel
 2021-2023 Scientific Advisory Board, Center for Protein Research, Copenhagen University, Denmark
 2021 NIH Blueprint for Neuroscience Research Grant Review Panel
 2021 NIH Special Emphasis Grant Review Panel
 2020 Science Advisory Board, Center for Protein Research, University of Copenhagen
 2020 Panel Member Functional Genomics Workshop, NASEM Board on Life Sciences, WA DC
 2020-2025 NIH 4D Nucleome External Program Consultant
 2020 NIH GCAT Grant Review Panel
 2018 NIH SBIR Review Panel
 2017-2018 NIH GCAT Review Panels (3)
 2017- Advisor/Visiting Professor in National Institute of Genetics, Mishima, Japan
 2016 NIH Interdisciplinary Molecular Sciences and Training Review Panel
 2016- External Scientific Advisory Board, Northwestern Physical Sciences Oncology Center
 2015-2016 NIH Transformative R01 Review Panel
 2015-2020 Scientific Advisory Board, Gregor Mendel Institute, Vienna, Austria
 2015 NIH 4D Nucleosome Project Reviewer/Consultant
 2015 NCI Site visit team member
 2014- *Genome Research*, Editorial Advisory Board
 2013 Reviewer, HHMI Investigator finalist competition
 2013 Co-organizer, Epigenetics & Chromatin: Interactions and processes, Boston, MA
 2012 Co-organizer, CoB Workshop on Epigenetic Memory, Sussex, UK
 2012 Co-organizer, Keystone Symposium on Epigenomics, Keystone, CO
 2011- External Advisory Board, Chicago Biomedical Consortium
 2011 Co-organizer, Forbeck Forum on Cancer Epigenetics, Hilton Head, SC
 2011 Reviewer, HHMI-GBMF Investigator finalists competition
 2010- *Genome Biology*, Editorial Advisory Board
 2010 External Advisory Committee, Einstein Center for Epigenomics, Bronx, NY
 2009 Co-organizer, Keystone Symposium on Epigenetics, Development and Disease, Breckenridge, CO
 2008-2014 Epizyme, Inc. Scientific Advisory Board, Boston, MA
 2008-2022 Co-Editor-in-chief, *Epigenomics & Chromatin* (BMC Press)
 2006-2010 AACR Human Epigenome Task Force
 2005-2007 NSF Maize Chromatin Project Advisory Board, Tucson, AZ
 2005-2007 The Cancer Genome Atlas (NCI-NHGRI) External Steering Committee
 2005-2008 *PLoS Computational Biology* Editorial Board
 2005- *Current Opinion in Genetics and Development*, Editorial Board
 2005 Co-organizer, EMBO Conference on Nuclear Structure and Dynamics, Avignon, France
 2004-2010 Scientific Advisory Board, Keystone Symposia, Keystone, CO
 2004 Co-organizer, Nobel Symposium on Epigenetic Reprogramming, Stockholm, Sweden
 2002-2014 Course Instructor, FHCRC/UW MCB program Conjoint 533: The Dynamic Chromosome (also 2004, 2007, 2010, 2014)
 2002 Co-organizer, NAS Sackler Symposium on self-perpetuating structural states
 2001- Contributor, *Faculty of 1000*
 2001-2002 Nebraska EPSCoR Advisory Board, Lincoln, NE
 2001-2002 Institute of Systems Biology, Scientific Advisory Board, Seattle, WA
 2000-2006 *Comparative and Functional Genomics* Section Editor for Bioinformatics
 2000-2004 Tilligen, Inc., Co-founder and Scientific Advisory Board Member, Seattle, WA
 2000 Reviewer, HHMI Computational Biology Investigator finalists competition
 1999-2002 NSF Plant Chromatin Project Advisory Board
 1998- *Trends in Genetics* Editorial Board
 1997-2007 *Chromosoma* Editorial Board

1997 Co-organizer, Epigenetics Gordon Conference, Holderness, NH
 1996-2005 *CABIOS/Bioinformatics* Editorial Board
 1996-2000 FlyBase Advisory Board
 1996-2005 *Genetics* Editorial Board
 1994-2003 *Protein Science* Editorial Advisory Board
 1993-2015 NIH *ad hoc* Study Section Reviewer/Consultant (average ~1 panel/year)
 1990-1992 Member, NIH/NHGRI Genome Research Study Section
 1990-1992 Caltech NSF Molecular Biotechnology Center External Advisory Board
 1989-1991 *Molecular and Cellular Biology* Editorial Board

Trainees

Michael Keene, postdoctoral fellow 1983-1986.
 Daniel Johnson, postdoctoral fellow 1985-1988, Assistant Professor, University of Miami.
 Tom Dreeson, postdoctoral fellow 1986-1989, Lab Manager, Pennington Biomedical Research Center.
 Deborah Wines, postdoctoral fellow 1989-1994, Assistant Professor, Montana State University
 Kate Loughney, postdoctoral fellow 1989-1991, Medical Journalist.
 Paul B. Talbert, postdoctoral 1990-1993, Staff Scientist, FHCC.
 Denise Clark, postdoctoral fellow 1990-1994. Professor, University of New Brunswick, Canada
 Linda E. Martin-Morris, postdoctoral fellow 1992-1996, Laboratory Coordinator, Dept. Genome Sciences, University of Washington
 Douglas R. Dorer, postdoctoral fellow 1992-1997, Assistant Professor of Biology, Meharry Medical College.
 Joy F. Sabl, graduate student 1992-1996, Postdoctoral fellow, Lecturer, Carnegie-Mellon University.
 Amy K. Csink, postdoctoral fellow 1994-1998, Assistant Professor of Biology, Carnegie-Mellon University.
 Shmuel Pietrokowski, postdoctoral (LSRF fellowship) 1994-1998, Senior Researcher, Weizmann Institute, Israel.
 Georgette L. Sass, HHMI Associate 1994-1998, Professor, Grand Valley State University.
 J. Suso Platero, HHMI Associate 1995-1999, Senior Research Investigator, Bristol Myers Squibb.
 Bas van Steensel, postdoctoral fellow 1998-2000. Group Leader, NKI, Amsterdam, Netherlands.
 Claire M. McCallum, graduate student 1996-2002. Research Scientist, Arcadia Biosciences, Inc., Davis, CA.
 Kami Ahmad, ACS postdoctoral fellow 1996-2002. Principal Investigator, FHCC.
 James F. Smothers, NIH postdoctoral fellow 1998-2001. Research Scientist, Amgen Corporation, Cambridge, MA.
 Amy L. Holmes, postdoctoral fellow 1998-2000.
 Danielle Vermaak, Damon Runyon postdoctoral fellow 1999-2003. Science Teacher, Lincoln High School, Seattle, WA.
 Pauline Ng, NSF and DOE graduate student 1999-2002. Group Leader, Genome Institute of Singapore.
 Harmit S. Malik, Helen Hay Whitney postdoctoral fellow 1999-2003. Professor, FHCC, HHMI Investigator.
 Trenton Colbert, postdoctoral fellow 2000-2001. Research Scientist, Arcadia Biosciences, Inc. Davis CA.
 Bradley Till, postdoctoral fellow 2000-2002, Staff scientist 2002-2007. Bioinformatics Specialist, U. California, Davis.
 Jennifer Cooper, postdoctoral fellow 2001-2009. Assistant Professor, Kennesaw State University, Georgia.
 Erin McKittrick, HHMI graduate student 2002-2005. Author.
 Robert Tran, postdoctoral fellow 2002-2006. Senior Scientist, U. California, Davis.
 Siew-Loon Ooi, postdoctoral fellow 2003-2009.
 Yoshiko Mito, graduate student 2003-2007. Director, Cytogenetics and Genomics Laboratory, University of Washington.

Daniel Zilberman, Leukemia and Lymphoma Society postdoctoral fellow 2004-2007. Group Leader, Institute of Science and Technology, Austria.

Melissa Conerly, graduate student 2003-2010. Scientist, Paragon Therapeutics.

Yamini Dalal, postdoctoral fellow 2003-2008. Investigator and Group Leader, National Cancer Institute, National Institutes of Health, Bethesda, MD.

Cecilia de Bustos, Visiting graduate student (Basque Government internship) 2004-2005.

Kerry Bubb, post-doctoral fellow 2007-2008, Research Scientist, University of Washington.

Takehito Furuyama, NIH postdoctoral fellow 2003-2008. Author.

Siew-Loon Ooi, Damon Runyon postdoctoral fellow 2004-2009. Scientist, Department of Genetics, DSM, Delft, Netherlands.

Mary Gehring, Life Sciences Research Foundation postdoctoral fellow 2005-2010. Associate Professor, MIT, Member, Whitehead Institute and HHMI Investigator.

Martin Riedel, Visiting Graduate Student 2007-2008.

Roger Deal, NIH post-doctoral fellow 2007-2011. Associate Professor, Emory University.

Friedemann Loos, Fulbright Scholarship Student 2008-2009.

Florian Steiner, Swiss National Science Foundation postdoctoral fellow 2008-2014. Associate Professor, University of Geneva.

Sheila Teves, NSF graduate student, Weintraub Awardee 2009-2013. Assistant Professor, University of British Columbia.

Christopher Weber, NSF graduate student 2009-2014. Postdoctoral fellow, Stanford University

Erika Wolff, post-doctoral fellow 2009-2010. Research Scientist, University of Washington

Kristina Krassovsky, NSF graduate student 2009-2014. Postdoctoral fellow, UC Berkeley

John Latham, postdoctoral fellow 2011-2012. Senior Manager, Guardiant Health, Inc.

Fan Yang, postdoctoral fellow 2011-2014

Gabriel Zentner, postdoctoral fellow 2011-2015. Assistant Professor, Indiana University.

Peter Skene, Damon Runyon Foundation postdoctoral fellow 2011-2017. Director of Molecular Biology and Biochemistry, Allen Institute for Immunology.

Anna Drinnenberg, Jane Coffin Childs Foundation postdoctoral fellow 2012-2015. (co-mentored with Harmit Malik) Group Leader, Marie Curie Institute, Paris.

Srinivas Ramachandran, postdoctoral fellow 2012-2017. Assistant Professor, University of Colorado, Denver.

Siva Kasinathan, MSTP graduate student 2012-2017. Resident, Stanford University.

Jitendra Thakur, postdoctoral fellow 2013-2020. Assistant Professor, Emory University.

Vuong Tran, postdoctoral fellow 2015-2016. Senior Scientist, Parse Biosciences, Inc.

Hatice Seda Kaya-Okur, postdoctoral fellow 2016-2019. Scholar, Altius Institute

Jay Sarthy, Damon Runyon/Sohn Pediatric Cancer Research Fellow 2017-2022. Assistant Member, Seattle Children's Research Institute

Steven Wu, graduate student 2018-2022. Computational Biologist, Freenome, Inc.

Sandipan Brahma, NIH K99/R00 postdoctoral fellow 2017-2023. Assistant Professor, University of Nebraska Medical Center

Michael Meers, NIH F32, NIH K99/R00 postdoctoral fellow 2017-2022. Assistant Professor, Washington University in St. Louis Medical School

Derek Janssens, Hartwell Foundation and NIH K22 postdoctoral fellow 2017-2024 Assistant Professor, van Andel Institute.

Ye Zheng (co-mentored with Raphael Gottardo), NIH K99/R00 postdoctoral fellow 2019-2024. Assistant Professor, MD Anderson Cancer Center

James Anderson, graduate student 2019-2023. Scientist, Epiccypher, Inc.

Matthew Wooten, NIH K99/R00 postdoctoral fellow 2020-

Nadiya Khyzha, postdoctoral fellow 2020-

Cassidy Danyko, graduate student 2021-

Soyeon Showman, graduate student 2022-2024. Postdoc FHCC

Jacob Greene, graduate student 2022-

Sarah Leichter, NIH F32 postdoctoral fellow 2022-

Ronald Paranal, K12 postdoctoral fellow 2022-
Weifang Wu, postdoctoral fellow 2023-

Recent Invited Presentations (2020-)

5/22/25	Keynote, Pfizer Oncology Research Unit Annual Meeting	Bellevue, WA
4/5/25	GATC Symposium, Pune, India	Virtual
3/31/25	TICCSO-3 Single-Cell & Spatial Omics, Shanghai, China	Virtual
3/25/25	Brandeis University	Waltham, MA
3/24/25	University of Massachusetts Medical School	Worcester, MA
12/19/24	Boston Children's Hospital, Harvard Medical School	Boston, MA
10/18/24	National Institutes of Health Chromatin Symposium	Bethesda, MD
10/16/24	Johns Hopkins School of Medicine	Baltimore, MD
8/14/24	Chromatin Summer School, Helmholtz University, Munich	Virtual
5/21/24	Stormo Symposium, Washington University	St. Louis, MO
5/20/24	University of Missouri	Columbia, MO
5/17/24	University of Nebraska Health Sciences Center	Omaha, NB
5/12/24	Graduate Student Symposium, University of Colorado	Boulder, CO
3/31/24	TICCSO-2 Single-Cell and Spatial Omics (Shanghai)	Virtual
3/7/24	Keynote, Epigenetics Symposium Fox-Chase CC	Philadelphia, PA
2/23/24	BMBGSA Symposium, Oklahoma State U	Stillwater, OK
8/23/23	Potter Lecture, Cincinnati Children's Hospital	Cincinnati, OH
8/14/23	Chromatin Summer School, Helmholtz University, Munich	Virtual
8/6-9/23	Penn State Summer Symposium	University Park, PA
6/11-16/23	Gordon Research Conference on Chromatin	Ventura, CA
6/7/23	Stanford University	Stanford, CA
6/5/23	Seattle Children's Hospital	Seattle, WA
5/15-18/23	EMBL meeting Chromatin and Epigenetics	Heidelberg, Germany
4/19/23	University of Illinois Urbana-Champaign	Virtual
4/12/23	Duke University	Durham, NC
4/10/21	Columbia University	New York, NY
3/24/23	University of Michigan	Ann Arbor, MI
2/24/23	All-Ireland Chromatin Consortium	Virtual
1/24-25/23	ERATO International Chromatin Symposium	Virtual
12/1/22	Oklahoma Medical Research Foundation	Oklahoma City, OK
10/19/22	University of Virginia, Charlottesville	Virtual
10/1/22	ASBMB meeting: Epigenetics and genome integrity	Seattle, WA
9/8-9/22	NIH Workshop: Chromatin control of virus infection	Bethesda, MD
8/16/22	Chromatin Summer School, Helmholtz University, Munich	Virtual
2/24/22	Johns Hopkins University, Baltimore, MD	Virtual
2/9/22	University of Illinois, Chicago, IL	Virtual
1/27/22	University of Nebraska Medical Center	Virtual
11/16/21	University of Colorado, Boulder, CO	Virtual
11/7-12/21	Epicyphe2021	Clearwater, FL
10/22/21	NIEHS, Research Triangle, NC	Virtual
10/15-16/21	Peking University, Beijing	Virtual
10/12/21	Brigham & Women's Hospital, Boston, MA	Virtual
9/23/21	Cell Signaling Technology, Inc.	Virtual
9/20/21	Broad Institute, Cambridge, MA	Virtual
9/14/21	KAUST, Saudi Arabia	Virtual
9/9/21	Science in Asia, AAAS, Beijing	Virtual
7/14/21	Cambridge Epigenetics Club	Virtual
6/15/21	NIH/NIAMS Retreat	Virtual
5/11/21	Chromatin and Epigenetics biweekly series, China	Virtual
4/23/21	University of California, Riverside	Virtual

4/6/21	University of Chicago	Virtual
3/27/21	Istanbul University Winter School	Virtual
3/12/21	Harvard Medical School	Virtual
3/1/21	Lahore University	Virtual
2/16/21	Queen Mary University (London)	Virtual
12/7-11/20	IAS Focused Meeting (Hong Kong)	Virtual
11/18/20	Cornell-Weill Medical School	Virtual
10/8/20	EpiBio 2020 (Raleigh, NC)	Virtual
10/1/20	Yale University (New Haven, CT)	Virtual
9/30/20	Fox-Chase Cancer Center (Philadelphia, PA)	Virtual
9/14/20	Mayo Clinic (Rochester, MN)	Virtual
9/2/20	Max Planck Berlin	Virtual
8/24/20	University of Pittsburgh	Virtual
8/27-9/20	EMBL Transcription (Heidelberg, Germany)	Virtual
8/20/20	Social DNAing	Virtual
8/10/20	CCMB (Hyderabad, India)	Virtual
7/16/20	Meiosis in Quarantine	Virtual
6/12/20	San Diego Chromatin Club	Virtual
6/11/20	Max Planck Göttingen	Virtual
5/27/20	Stanford University	Virtual
5/14/20	Chan-Zuckerberg Seed Network	Virtual
5/20/20	University of California, Berkeley	Virtual
2/13/20	Benaroya Institute	Seattle, WA
2/10-12/20	NAS Functional Genomics Workshop	Washington, DC
1/28/20	Baylor College of Medicine	Houston, TX
1/21/20	California Institute of Technology	Pasadena, CA

Public Websites

- CUT&Tag <https://www.protocols.io/view/bench-top-cut-amp-tag-bcuhiwt6> Monitored by Steven Henikoff.
- CUT&RUN <https://www.protocols.io/view/cut-amp-run-targeted-in-situ-genome-wide-profiling-14egnr4ql5dy/v3> Monitored by Derek Janssens.
- CUT&Tag-direct <https://www.protocols.io/view/cut-amp-tag-direct-with-cutac-bmbfk2jn> Monitored by Steven Henikoff.
- pA-Tn5 Protein Purification and MEDS-loading <https://www.protocols.io/view/3xflag-patn5-proteinpurificationand-medsloading-8yrhvxv6> Monitored by Terri Bryson.
- CUT&Tag Data Processing and Analysis Tutorial <https://www.protocols.io/view/cut-amp-tag-data-processing-and-analysis-tutorial-bjk2kkyye> Monitored by Ye Zheng.
- RT&Tag (Reverse Transcribe & Tagment) <https://www.protocols.io/view/rt-amp-tag-reverse-transcribe-amp-tagment-x54v9jyjqg3e/v1> Monitored by Nadiya Khyzha
- CUTAC for FFPEs <https://www.protocols.io/view/cutac-for-ffpes-14eqn292zg5d/v3> Monitored by Steven Henikoff
- CUT&RUN with Drosophila tissues <https://www.protocols.io/view/cut-tag-with-drosophila-tissues-bnx5mfq6> Monitored by Kami Ahmad.
- CUT&Tag with Drosophila tissues <https://www.protocols.io/view/cut-tag-with-drosophila-tissues-3byl4kkprvo5/v1> Monitored by Kami Ahmad
- AutoCUT&RUN <https://www.protocols.io/view/autocut-run-genome-wide-profiling-of-chromatin-pro-ufetj/metrics> Monitored by Derek Janssens.
- AutoCUT&Tag <https://www.protocols.io/view/autocut-amp-tag-streamlined-genome-wide-profiling-bqztjx6n> Monitored by Derek Janssens.
- Peak calling by Sparse Enrichment Analysis for CUT&RUN (SEACR) <https://seacr.fredhutch.org/> Maintained by Daniel Tenenbaum.

Outreach Activities

For the past >30 years I have been committed to lowering the bar to entry for researchers around the world by being proactive in making our tools freely available and requiring little or no specialized expertise or equipment. Our Blocks Database e-mail server introduced in 1992 for detecting distant evolutionary relationships was among the first non-commercial copy-and-paste remote servers. In 1994, the BLAST server was introduced using our BLOSUM series of amino acid substitution matrices for protein alignments, and BLOSUM62 is still the default. Also in 1994 we established the Blocks Database server on the World-wide-web and later introduced other popular copy-and-paste web servers, including the SIFT server for detecting deleterious non-synonymous mutations, the CODEHOP server for designing consensus-degenerate oligonucleotide primers, and since 2019, the SEACR server for CUT&RUN and CUT&Tag peak-calling. Since 2018 my labmates and I have been a major presence on Protocols.io, with our public protocols sites accumulating >700,000 views and ~4500 questions and answers through 2024, while distributing reagents directly to ~600 laboratories prior to commercial availability, with ~1500 labs ordering plasmids at low cost from Addgene for making CUT&RUN and CUT&Tag fusion proteins. Within a month of the onset of the COVID-19 pandemic in early 2020, I posted "Profiling the epigenome at home" on *bioRxiv* <https://www.biorxiv.org/content/10.1101/2020.04.15.043083v1>, which was highlighted by *The Scientist* in a feature article and chosen as one of the top technical advances of 2020: <https://www.the-scientist.com/top-technical-advances-of-2020-68297>.

Publications

ScholarGPS (Lifetime, prior 5 y): <https://scholargps.com/scholars/27628988442011/steven-henikoff>

GoogleScholar: <https://scholar.google.com/citations?user=SMwhtM8AAAAJ&hl=en>

PubMed (420 total): <https://pubmed.ncbi.nlm.nih.gov/?term=henikoff+s+%5Bau%5D&sort=date>

Peer reviewed research articles

Wu W, Ahmad K, **Henikoff S.** (2025) **Chromatin-bound U2AF2 splicing factor ensures exon inclusion.** *Mol Cell.* Apr 28:S1097-2765(25)00316-8. doi:10.1016/j.molcel.2025.04.013.

Zheng Y, Ahmad K, **Henikoff S.** (2025) **Total whole-arm chromosome losses predict malignancy in human cancer.** *Proc Natl Acad Sci U S A.* May 6;122(18):e2505385122. doi: 10.1073/pnas.2505385122.

Khyzha N, Ahmad K, **Henikoff S.** (2025) **Profiling transcriptome composition and dynamics within nuclear compartments using SLAM-RT&Tag.** *Mol Cell.* Apr 3;85(7):1366-1380.e4. doi: 10.1016/j.molcel.2025.02.012.

Henikoff S, Zheng Y, Paranal RM, Xu Y, Greene JE, Henikoff JG, Russell ZR, Szulzewsky F, Thirimanne HN, Kugel S, Holland EC, Ahmad K. (2025) **RNA Polymerase II at histone genes predicts outcome in human cancer.** *Science.* Jan 2;387(6735):737-743. doi: 10.1126/science.ads2169.

Fang H, Tronco AR, Bonora G, Nguyen T, Thakur J, Berletch JB, Filippova GN, **Henikoff S,** Shendure J, Noble WS, Duan Z, Disteche CM, Deng X. (2025) **CTCF-mediated insulation and chromatin environment modulate Car5b escape from X inactivation.** *BMC Biol.* Mar 3;23(1):68. doi: 10.1186/s12915-025-02137-7.

Dekker J, Oksuz BA, Zhang Y, Wang Y, Minsk MK, Kuang S, Yang L, Gibcus JH, Krietenstein N, Rando OJ, Xu J, Janssens DH, **Henikoff S,** Kukalev A, Willemin A, Winick-Ng W, Kempfer R, Pombo A, Yu M, Kumar P, Zhang L, Belmont AS, Sasaki T, van Schaik T, Brueckner L, Peric-Hupkes D, van Steensel B, Wang P, Chai H, Kim M, Ruan Y, Zhang R, Quinodoz SA, Bhat P, Guttman M, Zhao W, Chien S, Liu Y, Venev SV, Plewczynski D, Azcarate II, Szabó D, Thieme CJ, Szczepińska T, Chyliński M, Sengupta K, Conte M, Esposito A, Abraham A, Zhang R, Wang Y, Wen X, Wu Q, Yang Y, Liu J, Boninsegna L, Yildirim A, Zhan Y, Chiariello AM, Bianco S, Lee L, Hu M, Li Y, Barnett RJ, Cook AL, Emerson DJ, Marchal C, Zhao P, Park P, Alver BH, Schroeder A, Navelkar R, Bakker C, Ronchetti W, Ehmsen S, Veit A, Gehlenborg N, Wang T, Li D, Wang X, Nicodemi M, Ren B, Zhong S, Phillips-Cremens JE, Gilbert DM, Pollard KS, Alber F, Ma J, Noble WS, Yue F. **An integrated view of the structure and function of the human 4D nucleome.** *bioRxiv* [Preprint]. 2024 Oct 27:2024.09.17.613111. doi:

10.1101/2024.09.17.613111.

- Janssens DH, Duran M, Otto DJ, Wu W, Xu Y, Kirkey D, Mullighan CG, Yi JS, Meshinchi S, Sarthy JF, Ahmad K, Henikoff S. (2024) **MLL oncoprotein levels influence leukemia lineage identities**. *Nat Commun*. Oct 29;15(1):9341. doi: 10.1038/s41467-024-53399-8.
- Fiorenza S, Zheng Y, Purushe J, Bock TJ, Sarthy J, Janssens DH, Sheih AS, Kimble EL, Kirchmeier D, Phi TD, Gauthier J, Hirayama AV, Riddell SR, Wu Q, Gottardo R, Maloney DG, Yang JYH, Henikoff S, Turtle CJ. (2024) **Histone marks identify novel transcription factors that parse CAR-T subset-of-origin, clinical potential and expansion**. *Nat Commun*. Sep 27;15(1):8309. doi: 10.1038/s41467-024-52503-2.
- Showman S, Talbert PB, Xu Y, Henikoff S. (2024) **Protocol to measure centromeric array size changes using droplet digital PCR-based quantification of higher- order repeats**. *STAR Protoc*. Sep 20;5(3):103218.
- Showman S, Talbert PB, Xu Y, Adeyemi RO, Henikoff S. (2024) **Expansion of human centromeric arrays in cells undergoing break-induced replication**. *Cell Reports* Feb 29;43(3):113851.
- Brahma S, Henikoff S. (2023) **The BAF chromatin remodeler synergizes with RNA polymerase II and transcription factors to evict nucleosomes**. *Nat Genet*. 2024 Jan;56(1):100-111.
- Anderson J, Henikoff S, Ahmad K. (2023) **Chromosome-specific maturation of the epigenome in the Drosophila male germline**. *Elife*. Nov 30;12:RP89373.
- Janssens DH, Greene JE, Wu SJ, Codomo CA, Minot SS, Furlan SN, Ahmad K, Henikoff S. (2023) **Scalable single-cell profiling of chromatin modifications with sciCUT&Tag**. *Nat Protoc*. Henikoff S, Henikoff JG, Ahmad K, Paranal RM, Janssens DH, Russell ZR, Szulzewsky F, Kugel S, Holland EC. (2023) **Epigenomic analysis of formalin-fixed paraffin-embedded samples by CUT&Tag**. *Nat Commun*. Sep 22;14(1):5930.
- Wooten M, Takushi B, Ahmad K, Henikoff S. (2023) **Aclarubicin stimulates RNA polymerase II elongation at closely spaced divergent promoters**. *Sci Adv*. Jun 16;9(24):eadg3257.
- Jana S, Brahma S, Arora S, Wladyka CL, Hoang P, Blinka S, Hough R, Horn JL, Liu Y, Wang LJ, Depeille P, Smith E, Montgomery RB, Lee JK, Haffner MC, Vakar-Lopez F, Grivas P, Wright JL, Lam HM, Black PC, Roose JP, Ryazanov AG, Subramaniam AR, Henikoff S, Hsieh AC. (2023) **Transcriptional-translational conflict is a barrier to cellular transformation and cancer progression**. *Cancer Cell*. Apr 13:S1535-6108(23)00094-6.
- Hsieh E, Janssens DH, Paddison PJ, Browne EP, Henikoff S, OhAinle M, Emerman M. (2023) **A modular CRISPR screen identifies individual and combination pathways contributing to HIV-1 latency**. *PLoS Pathog*. Jan 27;19(1):e1011101.
- Islam Z, Saravanan B, Walavalkar K, Farooq U, Singh AK, Sabarinathan R, Thakur J, Pandit A, Henikoff S, Notani D (2023) **Active enhancers strengthen insulation by RNA-mediated CTCF binding at chromatin domain boundaries**. *Genome Res*. doi: 10.1101/gr.276643.122.
- De Sarkar N, Patton RD, Doebley AL, Hanratty B, Adil M, Kreitzman AJ, Sarthy JF, Ko M, Brahma S, Meers MP, Janssens DH, Ang LS, Coleman IM, Bose A, Dumpit RF, Lucas JM, Nunez TA, Nguyen HM, McClure HM, Pritchard CC, Schweizer MT, Morrissey C, Choudhury AD, Baca SC, Berchuck JE, Freedman ML, Ahmad K, Haffner MC, Montgomery RB, Corey E, Henikoff S, Nelson PS, Ha G. (2022) **Nucleosome patterns in circulating tumor DNA reveal transcriptional regulation of advanced prostate cancer phenotypes**. *Cancer Discov*. CD-22-0692. doi: 10.1158/2159-8290.CD-22-0692.
- Meers MP, Llagas G, Janssens DH, Codomo CA and Henikoff S. **Multifactorial chromatin regulatory landscapes at single cell resolution**. *Nat Biotechnol*. 2023 May;41(5):708-716.
- Bryson TD, De Ioannes P, Valencia-Sanchez MI, Henikoff JG, Talbert PB, La Scola B, Armache K-J, Henikoff S. **A giant virus genome is densely packaged by stable nucleosomes**. *Molecular Cell*, 82(23):4458-4470.e5.
- Khyzha N, Henikoff S, Ahmad K (2022) **Profiling RNA at chromatin targets in situ by antibody-targeted tagmentation**. *Nature Methods* 19(11):1383-1392.
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