

# Neil Brockdorff

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9497581/neil-brockdorff-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120  
papers

15,403  
citations

59  
h-index

124  
g-index

154  
ext. papers

17,313  
ext. citations

13.6  
avg, IF

6.41  
L-index

#	Paper	IF	Citations
120	Requirement for Xist in X chromosome inactivation. <i>Nature</i> , <b>1996</b> , 379, 131-7	50.4	1029
119	The product of the mouse Xist gene is a 15 kb inactive X-specific transcript containing no conserved ORF and located in the nucleus. <i>Cell</i> , <b>1992</b> , 71, 515-26	56.2	848
118	Polycomb group proteins Ring1A/B link ubiquitylation of histone H2A to heritable gene silencing and X inactivation. <i>Developmental Cell</i> , <b>2004</b> , 7, 663-76	10.2	711
117	Establishment of histone h3 methylation on the inactive X chromosome requires transient recruitment of Eed-Enx1 polycomb group complexes. <i>Developmental Cell</i> , <b>2003</b> , 4, 481-95	10.2	552
116	Ring1-mediated ubiquitination of H2A restrains poised RNA polymerase II at bivalent genes in mouse ES cells. <i>Nature Cell Biology</i> , <b>2007</b> , 9, 1428-35	23.4	534
115	Conservation of position and exclusive expression of mouse Xist from the inactive X chromosome. <i>Nature</i> , <b>1991</b> , 351, 329-31	50.4	524
114	Variant PRC1 complex-dependent H2A ubiquitylation drives PRC2 recruitment and polycomb domain formation. <i>Cell</i> , <b>2014</b> , 157, 1445-1459	56.2	477
113	T cell lineage choice and differentiation in the absence of the RNase III enzyme Dicer. <i>Journal of Experimental Medicine</i> , <b>2005</b> , 201, 1367-73	16.6	441
112	RYBP-PRC1 complexes mediate H2A ubiquitylation at polycomb target sites independently of PRC2 and H3K27me3. <i>Cell</i> , <b>2012</b> , 148, 664-78	56.2	434
111	Reactivation of the paternal X chromosome in early mouse embryos. <i>Science</i> , <b>2004</b> , 303, 666-9	33.3	417
110	The interplay of histone modifications - writers that read. <i>EMBO Reports</i> , <b>2015</b> , 16, 1467-81	6.5	411
109	Histone H3 lysine 9 methylation is an epigenetic imprint of facultative heterochromatin. <i>Nature Genetics</i> , <b>2002</b> , 30, 77-80	36.3	409
108	Composition and histone substrates of polycomb repressive group complexes change during cellular differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 1859-64	11.5	344
107	Expression of Xist during mouse development suggests a role in the initiation of X chromosome inactivation. <i>Cell</i> , <b>1993</b> , 72, 171-82	56.2	325
106	KDM2B links the Polycomb Repressive Complex 1 (PRC1) to recognition of CpG islands. <i>ELife</i> , <b>2012</b> , 1, e00205	8.9	318
105	The matrix protein hnRNP U is required for chromosomal localization of Xist RNA. <i>Developmental Cell</i> , <b>2010</b> , 19, 469-76	10.2	282
104	SmcHD1, containing a structural-maintenance-of-chromosomes hinge domain, has a critical role in X inactivation. <i>Nature Genetics</i> , <b>2008</b> , 40, 663-9	36.3	258

103	Considerations when investigating lncRNA function in vivo. <i>ELife</i> , <b>2014</b> , 3, e03058	8.9	252
102	Jarid2 is a PRC2 component in embryonic stem cells required for multi-lineage differentiation and recruitment of PRC1 and RNA Polymerase II to developmental regulators. <i>Nature Cell Biology</i> , <b>2010</b> , 12, 618-24	23.4	240
101	Noncoding RNA and Polycomb recruitment. <i>Rna</i> , <b>2013</b> , 19, 429-42	5.8	237
100	Targeting polycomb to pericentric heterochromatin in embryonic stem cells reveals a role for H2AK119u1 in PRC2 recruitment. <i>Cell Reports</i> , <b>2014</b> , 7, 1456-1470	10.6	233
99	Polycomb group proteins Ring1A/B are functionally linked to the core transcriptional regulatory circuitry to maintain ES cell identity. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 1513-24	6.6	227
98	Stabilization of Xist RNA mediates initiation of X chromosome inactivation. <i>Cell</i> , <b>1997</b> , 91, 99-107	56.2	226
97	Evidence that random and imprinted Xist expression is controlled by preemptive methylation. <i>Cell</i> , <b>1994</b> , 77, 41-51	56.2	221
96	Global hypomethylation of the genome in XX embryonic stem cells. <i>Nature Genetics</i> , <b>2005</b> , 37, 1274-9	36.3	201
95	Mitotically stable association of polycomb group proteins eed and enx1 with the inactive x chromosome in trophoblast stem cells. <i>Current Biology</i> , <b>2002</b> , 12, 1016-20	6.3	198
94	Transcription initiation activity sets replication origin efficiency in mammalian cells. <i>PLoS Genetics</i> , <b>2009</b> , 5, e1000446	6	179
93	A Pooled shRNA Screen Identifies Rbm15, Spen, and Wtap as Factors Required for Xist RNA-Mediated Silencing. <i>Cell Reports</i> , <b>2015</b> , 12, 562-72	10.6	175
92	Histone H3 lysine 9 methylation occurs rapidly at the onset of random X chromosome inactivation. <i>Current Biology</i> , <b>2002</b> , 12, 247-51	6.3	160
91	PCGF3/5-PRC1 initiates Polycomb recruitment in X chromosome inactivation. <i>Science</i> , <b>2017</b> , 356, 1081-1084	9.9	155
90	hnRNPK Recruits PCGF3/5-PRC1 to the Xist RNA B-Repeat to Establish Polycomb-Mediated Chromosomal Silencing. <i>Molecular Cell</i> , <b>2017</b> , 68, 955-969.e10	17.6	152
89	Characterization of the genomic Xist locus in rodents reveals conservation of overall gene structure and tandem repeats but rapid evolution of unique sequence. <i>Genome Research</i> , <b>2001</b> , 11, 833-49	9.7	149
88	Jarid2 binds mono-ubiquitylated H2A lysine 119 to mediate crosstalk between Polycomb complexes PRC1 and PRC2. <i>Nature Communications</i> , <b>2016</b> , 7, 13661	17.4	146
87	Histone macroH2A1.2 relocates to the inactive X chromosome after initiation and propagation of X-inactivation. <i>Journal of Cell Biology</i> , <b>1999</b> , 147, 1399-408	7.3	142
86	Three-dimensional super-resolution microscopy of the inactive X chromosome territory reveals a collapse of its active nuclear compartment harboring distinct Xist RNA foci. <i>Epigenetics and Chromatin</i> , <b>2014</b> , 7, 8	5.8	129

85	A dual origin of the Xist gene from a protein-coding gene and a set of transposable elements. <i>PLoS ONE</i> , <b>2008</b> , 3, e2521	3.7	129
84	Smchd1-dependent and -independent pathways determine developmental dynamics of CpG island methylation on the inactive X chromosome. <i>Developmental Cell</i> , <b>2012</b> , 23, 265-79	10.2	128
83	Cloning of Tabby, the murine homolog of the human EDA gene: evidence for a membrane-associated protein with a short collagenous domain. <i>Human Molecular Genetics</i> , <b>1997</b> , 6, 1589-94	5.6	127
82	A candidate spermatogenesis gene on the mouse Y chromosome is homologous to ubiquitin-activating enzyme E1. <i>Nature</i> , <b>1991</b> , 354, 486-9	50.4	122
81	Xist RNA exhibits a banded localization on the inactive X chromosome and is excluded from autosomal material in cis. <i>Human Molecular Genetics</i> , <b>1999</b> , 8, 195-204	5.6	121
80	X-chromosome inactivation: closing in on proteins that bind Xist RNA. <i>Trends in Genetics</i> , <b>2002</b> , 18, 352-88.5	8.5	117
79	High-resolution analysis of epigenetic changes associated with X inactivation. <i>Genome Research</i> , <b>2009</b> , 19, 1361-73	9.7	112
78	A phosphorylated form of Mel-18 targets the Ring1B histone H2A ubiquitin ligase to chromatin. <i>Molecular Cell</i> , <b>2007</b> , 28, 107-20	17.6	110
77	Methylation status of CpG-rich islands on active and inactive mouse X chromosomes. <i>Mammalian Genome</i> , <b>1991</b> , 1, 78-83	3.2	96
76	Chromatin sampling--an emerging perspective on targeting polycomb repressor proteins. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003717	6	92
75	Spatial separation of Xist RNA and polycomb proteins revealed by superresolution microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 2235-40	11.5	81
74	Epigenetic functions of smchd1 repress gene clusters on the inactive X chromosome and on autosomes. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 3150-65	4.8	81
73	Dosage compensation in mammals. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2015</b> , 7, a019406	10.2	75
72	Developmentally regulated Xist promoter switch mediates initiation of X inactivation. <i>Cell</i> , <b>1998</b> , 94, 809-17	56.2	73
71	Polycomblike 2 facilitates the recruitment of PRC2 Polycomb group complexes to the inactive X chromosome and to target loci in embryonic stem cells. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 1471-82	6.6	71
70	Attenuated spread of X-inactivation in an X;autosome translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 7706-11	11.5	71
69	m6A modification of non-coding RNA and the control of mammalian gene expression. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2019</b> , 1862, 310-318	6	68
68	Dicer regulates Xist promoter methylation in ES cells indirectly through transcriptional control of Dnmt3a. <i>Epigenetics and Chromatin</i> , <b>2008</b> , 1, 2	5.8	66

67	Early loss of Xist RNA expression and inactive X chromosome associated chromatin modification in developing primordial germ cells. <i>PLoS ONE</i> , <b>2007</b> , 2, e860	3.7	66
66	Loss of Xist imprinting in diploid parthenogenetic preimplantation embryos. <i>Developmental Biology</i> , <b>2001</b> , 235, 343-50	3.1	65
65	The nuclear matrix protein CIZ1 facilitates localization of Xist RNA to the inactive X-chromosome territory. <i>Genes and Development</i> , <b>2017</b> , 31, 876-888	12.6	64
64	Cross-talking noncoding RNAs contribute to cell-specific neurodegeneration in SCA7. <i>Nature Structural and Molecular Biology</i> , <b>2014</b> , 21, 955-961	17.6	64
63	Heterochromatin on the inactive X chromosome delays replication timing without affecting origin usage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 6923-8 <sup>11.5</sup>	11.5	61
62	A developmental switch in H4 acetylation upstream of Xist plays a role in X chromosome inactivation. <i>EMBO Journal</i> , <b>1999</b> , 18, 2897-907	13	60
61	Functional analysis of AEBP2, a PRC2 Polycomb protein, reveals a Trithorax phenotype in embryonic development and in ESCs. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 2716-23	6.6	58
60	Enox, a novel gene that maps 10 kb upstream of Xist and partially escapes X inactivation. <i>Genomics</i> , <b>2002</b> , 80, 236-44	4.3	57
59	Chromosome silencing mechanisms in X-chromosome inactivation: unknown unknowns. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 5057-65	6.6	56
58	Xist gene regulation at the onset of X inactivation. <i>Current Opinion in Genetics and Development</i> , <b>2009</b> , 19, 122-6	4.9	56
57	Mammalian polycomb-like Pcl2/Mtf2 is a novel regulatory component of PRC2 that can differentially modulate polycomb activity both at the Hox gene cluster and at Cdkn2a genes. <i>Molecular and Cellular Biology</i> , <b>2011</b> , 31, 351-64	4.8	56
56	The non-canonical SMC protein SmcHD1 antagonises TAD formation and compartmentalisation on the inactive X chromosome. <i>Nature Communications</i> , <b>2019</b> , 10, 30	17.4	56
55	Systematic allelic analysis defines the interplay of key pathways in X chromosome inactivation. <i>Nature Communications</i> , <b>2019</b> , 10, 3129	17.4	55
54	Stem cells primed for action: polycomb repressive complexes restrain the expression of lineage-specific regulators in embryonic stem cells. <i>Cell Cycle</i> , <b>2006</b> , 5, 1411-4	4.7	55
53	Skewing X chromosome choice by modulating sense transcription across the Xist locus. <i>Genes and Development</i> , <b>2003</b> , 17, 2177-90	12.6	53
52	Selective Roles of Vertebrate PCF11 in Premature and Full-Length Transcript Termination. <i>Molecular Cell</i> , <b>2019</b> , 74, 158-172.e9	17.6	51
51	Efficiency of Xist-mediated silencing on autosomes is linked to chromosomal domain organisation. <i>Epigenetics and Chromatin</i> , <b>2010</b> , 3, 10	5.8	50
50	The role of Xist in X-inactivation. <i>Current Opinion in Genetics and Development</i> , <b>1998</b> , 8, 328-33	4.9	50

49	Independent Mechanisms Target SMCHD1 to Trimethylated Histone H3 Lysine 9-Modified Chromatin and the Inactive X Chromosome. <i>Molecular and Cellular Biology</i> , <b>2015</b> , 35, 4053-68	4.8	47
48	Advances in understanding chromosome silencing by the long non-coding RNA Xist. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20110325	5.8	47
47	The mouse Smcx gene exhibits developmental and tissue specific variation in degree of escape from X inactivation. <i>Human Molecular Genetics</i> , <b>1996</b> , 5, 1355-60	5.6	44
46	Genes flanking Xist in mouse and human are separated on the X chromosome in American marsupials. <i>Chromosome Research</i> , <b>2007</b> , 15, 127-36	4.4	43
45	Polycomb complexes in X chromosome inactivation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 372,	5.8	41
44	Progress toward understanding chromosome silencing by Xist RNA. <i>Genes and Development</i> , <b>2020</b> , 34, 733-744	12.6	41
43	Disruption of a conserved region of Xist exon 1 impairs Xist RNA localisation and X-linked gene silencing during random and imprinted X chromosome inactivation. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 1541-50	6.6	39
42	Pluripotency factor binding and Tsix expression act synergistically to repress Xist in undifferentiated embryonic stem cells. <i>Epigenetics and Chromatin</i> , <b>2011</b> , 4, 17	5.8	35
41	Control of Chromosomal Localization of Xist by hnRNP U Family Molecules. <i>Developmental Cell</i> , <b>2016</b> , 39, 11-12	10.2	34
40	Xist expression and macroH2A1.2 localisation in mouse primordial and pluripotent embryonic germ cells. <i>Differentiation</i> , <b>2002</b> , 69, 216-25	3.5	33
39	Jarid2 Coordinates Nanog Expression and PCP/Wnt Signaling Required for Efficient ESC Differentiation and Early Embryo Development. <i>Cell Reports</i> , <b>2015</b> , 12, 573-86	10.6	32
38	A scaffold for X chromosome inactivation. <i>Human Genetics</i> , <b>2011</b> , 130, 247-53	6.3	32
37	Smchd1 Targeting to the Inactive X Is Dependent on the Xist-HnrnpK-PRC1 Pathway. <i>Cell Reports</i> , <b>2018</b> , 25, 1912-1923.e9	10.6	29
36	RNA binding proteins implicated in Xist-mediated chromosome silencing. <i>Seminars in Cell and Developmental Biology</i> , <b>2016</b> , 56, 58-70	7.5	27
35	Comparative mapping of X chromosomes in vole species of the genus <i>Microtus</i> . <i>Chromosome Research</i> , <b>1998</b> , 6, 41-8	4.4	24
34	The many faces of Polycomb regulation by RNA. <i>Current Opinion in Genetics and Development</i> , <b>2020</b> , 61, 53-61	4.9	22
33	A variant NuRD complex containing PWWP2A/B excludes MBD2/3 to regulate transcription at active genes. <i>Nature Communications</i> , <b>2018</b> , 9, 3798	17.4	22
32	In vivo ultraviolet and dimethyl sulfate footprinting of the 5Tregion of the expressed and silent Xist alleles. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 10975-80	5.4	21

31	Repetitive DNA sequences in the common vole: cloning, characterization and chromosome localization of two novel complex repeats MS3 and MS4 from the genome of the East European vole <i>Microtus rossiaemeridionalis</i> . <i>Chromosome Research</i> , <b>1998</b> , 6, 351-60	4.4	21
30	FGF4 independent derivation of trophoblast stem cells from the common vole. <i>PLoS ONE</i> , <b>2009</b> , 4, e71613,7	3.7	20
29	The role of the Xist 5Tm6A region and RBM15 in X chromosome inactivation. <i>Wellcome Open Research</i> , <b>2020</b> , 5, 31	4.8	18
28	Local Tandem Repeat Expansion in RNA as a Model for the Functionalisation of ncRNA. <i>Non-coding RNA</i> , <b>2018</b> , 4,	7.1	18
27	SMCHD1 accumulates at DNA damage sites and facilitates the repair of DNA double-strand breaks. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 1869-74	5.3	16
26	MicroRNAs of the miR-290-295 Family Maintain Bivalency in Mouse Embryonic Stem Cells. <i>Stem Cell Reports</i> , <b>2016</b> , 6, 635-642	8	16
25	Physical mapping of 2000 kb of the mouse X chromosome in the vicinity of the Xist locus. <i>Genomics</i> , <b>1993</b> , 15, 570-5	4.3	15
24	Structure and expression pattern of Oct4 gene are conserved in vole <i>Microtus rossiaemeridionalis</i> . <i>BMC Genomics</i> , <b>2008</b> , 9, 162	4.5	14
23	Centrosomal association of histone macroH2A1.2 in embryonic stem cells and somatic cells. <i>Experimental Cell Research</i> , <b>2001</b> , 268, 245-51	4.2	14
22	Time-resolved structured illumination microscopy reveals key principles of Xist RNA spreading. <i>Science</i> , <b>2021</b> , 372,	33.3	14
21	Ordered chromatin changes and human X chromosome reactivation by cell fusion-mediated pluripotent reprogramming. <i>Nature Communications</i> , <b>2016</b> , 7, 12354	17.4	13
20	Molecular genetic analysis of the Ta25H deletion: evidence for additional deleted loci. <i>Mammalian Genome</i> , <b>1991</b> , 1, 152-7	3.2	13
19	Variability of sequence surrounding the Xist gene in rodents suggests taxon-specific regulation of X chromosome inactivation. <i>PLoS ONE</i> , <b>2011</b> , 6, e22771	3.7	11
18	SAT in silence. <i>Developmental Cell</i> , <b>2009</b> , 16, 483-4	10.2	11
17	Localized accumulation of Xist RNA in X chromosome inactivation. <i>Open Biology</i> , <b>2019</b> , 9, 190213	7	10
16	Genome-wide shRNA screening to identify factors mediating Gata6 repression in mouse embryonic stem cells. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 4110-5	6.6	9
15	Difference between random and imprinted X inactivation in common voles. <i>Chromosoma</i> , <b>2010</b> , 119, 541-52	2.8	9
14	YAC clone contigs surrounding the Zfx and Pola loci on the mouse X chromosome. <i>Genomics</i> , <b>1993</b> , 17, 52-8	4.3	9

13	Epigenetic memory and parliamentary privilege combine to evoke discussions on inheritance. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 3891-6	6.6	8
12	Genome Environment Browser (GEB): a dynamic browser for visualising high-throughput experimental data in the context of genome features. <i>BMC Bioinformatics</i> , <b>2008</b> , 9, 501	3.6	7
11	Locus-specific expression of transposable elements in single cells with CELLO-seq. <i>Nature Biotechnology</i> , <b>2021</b> ,	44.5	4
10	The non-canonical SMC protein SmcHD1 antagonises TAD formation on the inactive X chromosome		2
9	Xist Repeats B and C, but not Repeat A, mediate de novo recruitment of the Polycomb system in X chromosome inactivation. <i>Developmental Cell</i> , <b>2021</b> , 56, 1234-1235	10.2	2
8	The PWWP2A Histone Deacetylase Complex Represses Intragenic Spurious Transcription Initiation in mESCs. <i>iScience</i> , <b>2020</b> , 23, 101741	6.1	1
7	Time-resolved structured illumination microscopy reveals key principles of Xist RNA spreading		1
6	Acute depletion of METTL3 implicates -methyladenosine in alternative intron/exon inclusion in the nascent transcriptome. <i>Genome Research</i> , <b>2021</b> , 31, 1395-1408	9.7	1
5	Xist-mediated silencing requires additive functions of SPEN and Polycomb together with differentiation-dependent recruitment of SmcHD1.. <i>Cell Reports</i> , <b>2022</b> , 39, 110830	10.6	0
4	Determination of the active chromatin domain of the expressed Xist allele in mouse. <i>Genetical Research</i> , <b>1997</b> , 70, 79-89	1.1	
3	Regulation of X-chromosome inactivation in relation to lineage allocation in early mouse embryogenesis		46-64
2	The role of Xist in the regulation of X chromosome inactivation. <i>Genetical Research</i> , <b>1998</b> , 72, 59-72	1.1	
1	Unbiased Genetic Screen to Identify Factors Involved in X-Chromosome Inactivation Using a Pooled Bar-Coded shRNA Library. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1861, 19-36	1.4	