Jeannie T Lee

List of Publications by Year in Descending Order

101 papers	13,679 citations	47 h-index	111 g-index
111 ext. papers	15,809 ext. citations	19.6 avg, IF	7.1 L-index

#	Paper	IF	Citations
101	Unveiling RCOR1 as a rheostat at transcriptionally permissive chromatin.. *Nature Communications*, **2022**, 13, 1550	17.4	0
100	Revealing RCOR2 as a regulatory component of nuclear speckles. *Epigenetics and Chromatin*, **2021**, 14, 51	5.8	0
99	Jpx RNA regulates CTCF anchor site selection and formation of chromosome loops. *Cell*, **2021**, 184, 6157-6173.e24	56.2	5
98	Four-dimensional chromosome reconstruction elucidates the spatiotemporal reorganization of the mammalian X chromosome. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
97	Xist Repeat A contributes to early recruitment of Polycomb complexes during X-chromosome inactivation. *Developmental Cell*, **2021**, 56, 1236-1237	10.2	1
96	Balancing cohesin eviction and retention prevents aberrant chromosomal interactions, Polycomb-mediated repression, and X-inactivation. *Molecular Cell*, **2021**, 81, 1970-1987.e9	17.6	7
95	iDRiP for the systematic discovery of proteins bound directly to noncoding RNA. *Nature Protocols*, **2021**, 16, 3672-3694	18.8	4
94	The combined action of CTCF and its testis-specific paralog BORIS is essential for spermatogenesis. *Nature Communications*, **2021**, 12, 3846	17.4	4
93	A disproportionate impact of G9a methyltransferase deficiency on the X chromosome. *Genes and Development*, **2021**, 35, 1035-1054	12.6	1
92	Revisiting the consequences of deleting the X inactivation center. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
91	Denaturing cross-linking immunoprecipitation to identify footprints for RNA-binding proteins. *STAR Protocols*, **2021**, 2, 100819	1.4	0
90	Motif-driven interactions between RNA and PRC2 are rheostats that regulate transcription elongation. *Nature Structural and Molecular Biology*, **2021**, 28, 103-117	17.6	6
89	Nucleoporin 153 links nuclear pore complex to chromatin architecture by mediating CTCF and cohesin binding. *Nature Communications*, **2020**, 11, 2606	17.4	12
88	Xist Repeats A and B Account for Two Distinct Phases of X Inactivation Establishment. *Developmental Cell*, **2020**, 54, 21-32.e5	10.2	16
87	Two- and three-color STORM analysis reveals higher-order assembly of leukotriene synthetic complexes on the nuclear envelope of murine neutrophils. *Journal of Biological Chemistry*, **2020**, 295, 5761-5770	5.4	2
86	Widespread organ tolerance to Xist loss and X reactivation except under chronic stress in the gut. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 4262-4272	11.5	12
85	Targeting RNA with Small Molecules: Identification of Selective, RNA-Binding Small Molecules Occupying Drug-Like Chemical Space. *SLAS Discovery*, **2020**, 25, 384-396	3.4	26

84	Long Noncoding RNA Functionality Beyond Sequence: The Jpx Model: Commentary on "Functional Conservation of lncRNA JPX Despite Sequence and Structural Divergence" by Karner et al. (2019). *Journal of Molecular Biology*, **2020**, 432, 301-304	6.5	2
83	B2 and ALU retrotransposons are self-cleaving ribozymes whose activity is enhanced by EZH2. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 415-425	11.5	17
82	Decapping enzyme 1A breaks X-chromosome symmetry by controlling Tsix elongation and RNA turnover. *Nature Cell Biology*, **2020**, 22, 1116-1129	23.4	12
81	Role of the Chromosome Architectural Factor SMCHD1 in X-Chromosome Inactivation, Gene Regulation, and Disease in Humans. *Genetics*, **2019**, 213, 685-703	4	2
80	Aberrant mitochondrial function in patient-derived neural cells from CDKL5 deficiency disorder and Rett syndrome. *Human Molecular Genetics*, **2019**, 28, 3625-3636	5.6	11
79	Xist RNA antagonizes the SWI/SNF chromatin remodeler BRG1 on the inactive X chromosome. *Nature Structural and Molecular Biology*, **2019**, 26, 96-109	17.6	33
78	PRC1 collaborates with SMCHD1 to fold the X-chromosome and spread Xist RNA between chromosome compartments. *Nature Communications*, **2019**, 10, 2950	17.4	26
77	The Firre locus produces a trans-acting RNA molecule that functions in hematopoiesis. *Nature Communications*, **2019**, 10, 5137	17.4	28
76	Xist Deletional Analysis Reveals an Interdependency between Xist RNA and Polycomb Complexes for Spreading along the Inactive X. *Molecular Cell*, **2019**, 74, 101-117.e10	17.6	82
75	En bloc and segmental deletions of human XIST reveal X chromosome inactivation-involving RNA elements. *Nucleic Acids Research*, **2019**, 47, 3875-3887	20.1	15
74	Exploration of CTCF post-translation modifications uncovers Serine-224 phosphorylation by PLK1 at pericentric regions during the G2/M transition. *ELife*, **2019**, 8,	8.9	10
73	A mixed modality approach towards Xi reactivation for Rett syndrome and other X-linked disorders. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E668-E675	11.5	41
72	Tsix-Mecp2 female mouse model for Rett syndrome reveals that low-level MECP2 expression extends life and improves neuromotor function. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8185-8190	11.5	17
71	Loss of H3K27me3 Imprinting in Somatic Cell Nuclear Transfer Embryos Disrupts Post-Implantation Development. *Cell Stem Cell*, **2018**, 23, 343-354.e5	18	65
70	SMCHD1 Merges Chromosome Compartments and Assists Formation of Super-Structures on the Inactive X. *Cell*, **2018**, 174, 406-421.e25	56.2	80
69	Megadomains and superloops form dynamically but are dispensable for X-chromosome inactivation and gene escape. *Nature Communications*, **2018**, 9, 5004	17.4	32
68	Multiple Histone Methyl-Lysine Readers Ensure Robust Development and Germline Immortality in. *Genetics*, **2018**, 210, 907-923	4	7
67	Screen for reactivation of MeCP2 on the inactive X chromosome identifies the BMP/TGF- superfamily as a regulator of XIST expression. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1619-1624	11.5	38

66	Polycomb Repressive Complex 1 Generates Discrete Compacted Domains that Change during Differentiation. *Molecular Cell*, **2017**, 65, 432-446.e5	17.6	180
65	The X chromosome in space. *Nature Reviews Genetics*, **2017**, 18, 377-389	30.1	81
64	Comment on "Xist recruits the X chromosome to the nuclear lamina to enable chromosome-wide silencing". *Science*, **2017**, 356,	33.3	5
63	Denaturing CLIP, dCLIP, Pipeline Identifies Discrete RNA Footprints on Chromatin-Associated Proteins and Reveals that CBX7 Targets 3RUTRs to Regulate mRNA Expression. *Cell Systems*, **2017**, 5, 368-385.e15	10.6	18
62	Genetic Intersection of Tsix and Hedgehog Signaling during the Initiation of X-Chromosome Inactivation. *Developmental Cell*, **2017**, 43, 359-371.e6	10.2	9
61	Repeat E anchors Xist RNA to the inactive X chromosomal compartment through CDKN1A-interacting protein (CIZ1). *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10654-10659	11.5	63
60	PAR-TERRA directs homologous sex chromosome pairing. *Nature Structural and Molecular Biology*, **2017**, 24, 620-631	17.6	30
59	TERRA RNA Antagonizes ATRX and Protects Telomeres. *Cell*, **2017**, 170, 86-101.e16	56.2	131
58	Genome-wide identification of autosomal genes with allelic imbalance of chromatin state. *PLoS ONE*, **2017**, 12, e0182568	3.7	4
57	Female mice lacking Xist RNA show partial dosage compensation and survive to term. *Genes and Development*, **2016**, 30, 1747-60	12.6	42
56	A high-throughput small molecule screen identifies synergism between DNA methylation and Aurora kinase pathways for X reactivation. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14366-14371	11.5	17
55	Destabilization of B2 RNA by EZH2 Activates the Stress Response. *Cell*, **2016**, 167, 1788-1802.e13	56.2	46
54	Chromosomes. A comprehensive Xist interactome reveals cohesin repulsion and an RNA-directed chromosome conformation. *Science*, **2015**, 349,	33.3	316
53	Allelic Imbalance Is a Prevalent and Tissue-Specific Feature of the Mouse Transcriptome. *Genetics*, **2015**, 200, 537-49	4	27
52	The Xist RNA-PRC2 complex at 20-nm resolution reveals a low Xist stoichiometry and suggests a hit-and-run mechanism in mouse cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4216-25	11.5	68
51	Single-molecule super-resolution imaging of chromosomes and in situ haplotype visualization using Oligopaint FISH probes. *Nature Communications*, **2015**, 6, 7147	17.4	230
50	Xist imprinting is promoted by the hemizygous (unpaired) state in the male germ line. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 14415-22	11.5	18
49	Building the Connectivity Map of epigenetics: chromatin profiling by quantitative targeted mass spectrometry. *Methods*, **2015**, 72, 57-64	4.6	40

48	Functional Proteomic Analysis of Repressive Histone Methyltransferase Complexes Reveals ZNF518B as a G9A Regulator. *Molecular and Cellular Proteomics*, **2015**, 14, 1435-46	7.6	27
47	Toward a consensus on the binding specificity and promiscuity of PRC2 for RNA. *Molecular Cell*, **2015**, 57, 552-8	17.6	156
46	Locus-specific targeting to the X chromosome revealed by the RNA interactome of CTCF. *Molecular Cell*, **2015**, 57, 361-75	17.6	116
45	Practical murine hematopathology: a comparative review and implications for research. *Comparative Medicine*, **2015**, 65, 96-113	1.6	90
44	ATRX Promotes Binding of PRC2 to Xist RNA and Polycomb Targets. *FASEB Journal*, **2015**, 29, 361.3	0.9	
43	Long noncoding RNAs: fresh perspectives into the RNA world. *Trends in Biochemical Sciences*, **2014**, 39, 35-43	10.3	271
42	BRCA1 establishes DNA damage signaling and pericentric heterochromatin of the X chromosome in male meiosis. *Journal of Cell Biology*, **2014**, 205, 663-75	7.3	44
41	ATRX directs binding of PRC2 to Xist RNA and Polycomb targets. *Cell*, **2014**, 159, 869-83	56.2	152
40	LincRNA-p21 activates p21 in cis to promote Polycomb target gene expression and to enforce the G1/S checkpoint. *Molecular Cell*, **2014**, 54, 777-90	17.6	319
39	Regulatory interactions between RNA and polycomb repressive complex 2. *Molecular Cell*, **2014**, 55, 171-85	17.6	201
38	Coupling of X-chromosome reactivation with the pluripotent stem cell state. *RNA Biology*, **2014**, 11, 798-807	4.7	21
37	High-resolution Xist binding maps reveal two-step spreading during X-chromosome inactivation. *Nature*, **2013**, 504, 465-469	50.4	289
36	Tsix RNA and the germline factor, PRDM14, link X reactivation and stem cell reprogramming. *Molecular Cell*, **2013**, 52, 805-18	17.6	79
35	X-inactivation, imprinting, and long noncoding RNAs in health and disease. *Cell*, **2013**, 152, 1308-23	56.2	524
34	Long noncoding RNAs: past, present, and future. *Genetics*, **2013**, 193, 651-69	4	1251
33	Jpx RNA activates Xist by evicting CTCF. *Cell*, **2013**, 153, 1537-51	56.2	226
32	Epigenetic regulation by long noncoding RNAs. *Science*, **2012**, 338, 1435-9	33.3	965
31	Spreading of X chromosome inactivation via a hierarchy of defined Polycomb stations. *Genome Research*, **2012**, 22, 1864-76	9.7	127

30	YY1 tethers Xist RNA to the inactive X nucleation center. *Cell*, **2011**, 146, 119-33	56.2	385
29	Gracefully ageing at 50, X-chromosome inactivation becomes a paradigm for RNA and chromatin control. *Nature Reviews Molecular Cell Biology*, **2011**, 12, 815-26	48.7	158
28	A boundary element between Tsix and Xist binds the chromatin insulator Ctcf and contributes to initiation of X-chromosome inactivation. *Genetics*, **2011**, 189, 441-54	4	38
27	X-chromosome hyperactivation in mammals via nonlinear relationships between chromatin states and transcription. *Nature Structural and Molecular Biology*, **2011**, 19, 56-61	17.6	67
26	The X as model for RNA's niche in epigenomic regulation. *Cold Spring Harbor Perspectives in Biology*, **2010**, 2, a003749	10.2	68
25	Genome-wide identification of polycomb-associated RNAs by RIP-seq. *Molecular Cell*, **2010**, 40, 939-53	17.6	798
24	The long noncoding RNA, Jpx, is a molecular switch for X chromosome inactivation. *Cell*, **2010**, 143, 390-403	36.2	387
23	Telomeric RNAs mark sex chromosomes in stem cells. *Genetics*, **2009**, 182, 685-98	4	38
22	The pluripotency factor Oct4 interacts with Ctcf and also controls X-chromosome pairing and counting. *Nature*, **2009**, 460, 128-32	50.4	230
21	Lessons from X-chromosome inactivation: long ncRNA as guides and tethers to the epigenome. *Genes and Development*, **2009**, 23, 1831-42	12.6	279
20	Intersection of the RNA interference and X-inactivation pathways. *Science*, **2008**, 320, 1336-41	33.3	239
19	Polycomb proteins targeted by a short repeat RNA to the mouse X chromosome. *Science*, **2008**, 322, 750-6	33.3	1288
18	X-chromosome inactivation: Sex, heterochromatin, pairing, and noncoding RNA. *FASEB Journal*, **2008**, 22, 396.2	0.9	
17	Evidence that homologous X-chromosome pairing requires transcription and Ctcf protein. *Nature Genetics*, **2007**, 39, 1390-6	36.3	169
16	Perinucleolar targeting of the inactive X during S phase: evidence for a role in the maintenance of silencing. *Cell*, **2007**, 129, 693-706	56.2	264
15	The DXPas34 repeat regulates random and imprinted X inactivation. *Developmental Cell*, **2007**, 12, 57-71	10.2	75
14	Transient homologous chromosome pairing marks the onset of X inactivation. *Science*, **2006**, 311, 1149-52	33.3	333
13	A transient heterochromatic state in Xist preempts X inactivation choice without RNA stabilization. *Molecular Cell*, **2006**, 21, 617-28	17.6	265

12	Sex chromosome inactivation: the importance of pairing. *Current Biology*, **2005**, 15, R249-52	6.3	19
11	Regulation of X-chromosome counting by Tsix and Xite sequences. *Science*, **2005**, 309, 768-71	33.3	124
10	Tsix transcription- versus RNA-based mechanisms in Xist repression and epigenetic choice. *Current Biology*, **2004**, 14, 1747-54	6.3	73
9	Characterization and quantitation of differential Tsix transcripts: implications for Tsix function. *Human Molecular Genetics*, **2003**, 12, 125-36	5.6	59
8	Molecular links between X-inactivation and autosomal imprinting: X-inactivation as a driving force for the evolution of imprinting?. *Current Biology*, **2003**, 13, R242-54	6.3	91
7	Reply to "Is Tsix repression of Xist specific to mouse?". *Nature Genetics*, **2003**, 33, 337-338	36.3	11
6	Functional intergenic transcription: a case study of the X-inactivation centre. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2003**, 358, 1417-23; discussion 1423	5.8	6
5	Homozygous Tsix mutant mice reveal a sex-ratio distortion and revert to random X-inactivation. *Nature Genetics*, **2002**, 32, 195-200	36.3	72
4	Is X-chromosome inactivation a homology effect?. *Advances in Genetics*, **2002**, 46, 25-48	3.3	5
3	CTCF, a candidate trans-acting factor for X-inactivation choice. *Science*, **2002**, 295, 345-7	33.3	236
2	Tsix, a gene antisense to Xist at the X-inactivation centre. *Nature Genetics*, **1999**, 21, 400-4	36.3	665
1	Targeted mutagenesis of Tsix leads to nonrandom X inactivation. *Cell*, **1999**, 99, 47-57	56.2	422