Shiv I Grewal

List of Publications by Year
in descending order

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80 papers	18,508 citations	30551 56 h-index	71088 80 g-index
80 all docs	80 docs citations	80 times ranked	12785 citing authors

#	Article	IF	Citations
1	TOR targets an RNA processing network to regulate facultative heterochromatin, developmental gene expression and cell proliferation. Nature Cell Biology, 2021, 23, 243-256.	4.6	20
2	Spreading and epigenetic inheritance of heterochromatin require a critical density of histone H3 lysine 9 tri-methylation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	42
3	Positioning Heterochromatin at the Nuclear Periphery Suppresses Histone Turnover to Promote Epigenetic Inheritance. Cell, 2020, 180, 150-164.e15.	13.5	78
4	Conserved protein Pir2ARS2 mediates gene repression through cryptic introns in lncRNAs. Nature Communications, 2020, 11, 2412.	5.8	15
5	Cohesin Impedes Heterochromatin Assembly in Fission Yeast Cells Lacking Pds5. Genetics, 2019, 213, 127-141.	1.2	13
6	CPF Recruitment to Non-canonical Transcription Termination Sites Triggers Heterochromatin Assembly and Gene Silencing. Cell Reports, 2019, 28, 267-281.e5.	2.9	33
7	A conserved dimer interface connects ERH and YTH family proteins to promote gene silencing. Nature Communications, 2019, 10, 251.	5.8	36
8	Iron homeostasis regulates facultative heterochromatin assembly in adaptive genome control. Nature Structural and Molecular Biology, 2018, 25, 372-383.	3.6	28
9	Untimely expression of gametogenic genes in vegetative cells causes uniparental disomy. Nature, 2017, 543, 126-130.	13.7	32
10	Shelterin components mediate genome reorganization in response to replication stress. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5479-5484.	3.3	15
11	SNF2 Family Protein Fft3 Suppresses Nucleosome Turnover to Promote Epigenetic Inheritance and Proper Replication. Molecular Cell, 2017, 66, 50-62.e6.	4.5	76
12	Shushing histone turnover: It's FUN protecting epigenome-genome. Cell Cycle, 2017, 16, 1731-1732.	1.3	5
13	Taz1-Shelterin Promotes Facultative Heterochromatin Assembly at Chromosome-Internal Sites Containing Late Replication Origins. Molecular Cell, 2016, 62, 862-874.	4.5	61
14	Enhancer of Rudimentary Cooperates with Conserved RNA-Processing Factors to Promote Meiotic mRNA Decay and Facultative Heterochromatin Assembly. Molecular Cell, 2016, 61, 747-759.	4.5	79
15	Single-Nucleotide-Specific Targeting of the Tf1 Retrotransposon Promoted by the DNA-Binding Protein Sap1 of Schizosaccharomyces pombe. Genetics, 2015, 201, 905-924.	1.2	22
16	Conserved factor Dhp1/Rat1/Xrn2 triggers premature transcription termination and nucleates heterochromatin to promote gene silencing. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15548-15555.	3.3	63
17	The CENP-A N-Tail Confers Epigenetic Stability to Centromeres via the CENP-T Branch of the CCAN in Fission Yeast. Current Biology, 2015, 25, 348-356.	1.8	45
18	Chromosome domain architecture and dynamic organization of the fission yeast genome. FEBS Letters, 2015, 589, 2975-2986.	1.3	44

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19	Cohesin-dependent globules and heterochromatin shape 3D genome architecture in S. pombe. Nature, 2014, 516, 432-435.	13.7	253
20	Yeast Xâ€chromosomeâ€associated protein 5 (Xap5) functions with H2A.Z to suppress aberrant transcripts. EMBO Reports, 2014, 15, 894-902.	2.0	13
21	Epigenetic genome control by heterochromatin and RNAi machinery. Epigenetics and Chromatin, 2013, 6, .	1.8	1
22	Mtr4-like Protein Coordinates Nuclear RNA Processing for Heterochromatin Assembly and for Telomere Maintenance. Cell, 2013, 155, 1061-1074.	13.5	160
23	RNAi triggered by specialized machinery silences developmental genes and retrotransposons. Nature, 2013, 493, 557-560.	13.7	137
24	HDAC-mediated suppression of histone turnover promotes epigenetic stability of heterochromatin. Nature Structural and Molecular Biology, 2013, 20, 547-554.	3.6	112
25	Integration Profiling of Gene Function With Dense Maps of Transposon Integration. Genetics, 2013, 195, 599-609.	1.2	63
26	Hrp3 controls nucleosome positioning to suppress non-coding transcription in eu- and heterochromatin. EMBO Journal, 2012, 31, 4375-4387.	3.5	55
27	CENP-B Cooperates with Set1 in Bidirectional Transcriptional Silencing and Genome Organization of Retrotransposons. Molecular and Cellular Biology, 2012, 32, 4215-4225.	1.1	45
28	RNA Elimination Machinery Targeting Meiotic mRNAs Promotes Facultative Heterochromatin Formation. Science, 2012, 335, 96-100.	6.0	195
29	Defects in RNA quality control factors reveal RNAi-independent nucleation of heterochromatin. Nature Structural and Molecular Biology, 2011, 18, 1132-1138.	3.6	113
30	Asf1/HIRA Facilitate Global Histone Deacetylation and Associate with HP1 to Promote Nucleosome Occupancy at Heterochromatic Loci. Molecular Cell, 2011, 41, 56-66.	4.5	77
31	A homolog of male sex-determining factor SRY cooperates with a transposon-derived CENP-B protein to control sex-specific directed recombination. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18754-18759.	3.3	17
32	Clr4/Suv39 and RNA Quality Control Factors Cooperate to Trigger RNAi and Suppress Antisense RNA. Science, 2011, 331, 1624-1627.	6.0	76
33	The Prevalence and Regulation of Antisense Transcripts in Schizosaccharomyces pombe. PLoS ONE, 2010, 5, e15271.	1.1	50
34	Centromeric Localization of Dispersed Pol III Genes in Fission Yeast. Molecular Biology of the Cell, 2010, 21, 254-265.	0.9	121
35	Histone H2A.Z cooperates with RNAi and heterochromatin factors to suppress antisense RNAs. Nature, 2009, 461, 419-422.	13.7	131
36	Transcriptional Scaffolds for Heterochromatin Assembly. Cell, 2009, 136, 610-614.	13.5	64

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37	Diverse roles of HP1 proteins in heterochromatin assembly and functions in fission yeast. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8998-9003.	3.3	136
38	Host genome surveillance for retrotransposons by transposon-derived proteins. Nature, 2008, 451, 431-436.	13.7	161
39	Cell cycle control of centromeric repeat transcription and heterochromatin assembly. Nature, 2008, 451, 734-737.	13.7	333
40	Roles of the Clr4 methyltransferase complex in nucleation, spreading and maintenance of heterochromatin. Nature Structural and Molecular Biology, 2008, 15, 381-388.	3.6	336
41	Fission yeast chromatin assembly factor 1 assists in the replicationâ€coupled maintenance of heterochromatin. Genes To Cells, 2008, 13, 1027-1043.	0.5	41
42	Conservation and Rewiring of Functional Modules Revealed by an Epistasis Map in Fission Yeast. Science, 2008, 322, 405-410.	6.0	328
43	HULC, a Histone H2B Ubiquitinating Complex, Modulates Heterochromatin Independent of Histone Methylation in Fission Yeast*. Journal of Biological Chemistry, 2007, 282, 14065-14072.	1.6	56
44	A Discrete Class of Intergenic DNA Dictates Meiotic DNA Break Hotspots in Fission Yeast. PLoS Genetics, 2007, 3, e141.	1.5	82
45	SHREC, an Effector Complex for Heterochromatic Transcriptional Silencing. Cell, 2007, 128, 491-504.	13.5	297
46	Heterochromatin revisited. Nature Reviews Genetics, 2007, 8, 35-46.	7.7	1,164
47	Distinct roles of HDAC complexes in promoter silencing, antisense suppression and DNA damage protection. Nature Structural and Molecular Biology, 2007, 14, 372-380.	3.6	176
48	Transcription and RNA interference in the formation of heterochromatin. Nature, 2007, 447, 399-406.	13.7	384
49	Ribonuclease Activity of Dis3 Is Required for Mitotic Progression and Provides a Possible Link between Heterochromatin and Kinetochore Function. PLoS ONE, 2007, 2, e317.	1.1	75
50	A Role for TFIIIC Transcription Factor Complex in Genome Organization. Cell, 2006, 125, 859-872.	13.5	275
51	Swi6/HP1 Recruits a JmjC Domain Protein to Facilitate Transcription of Heterochromatic Repeats. Molecular Cell, 2006, 22, 681-692.	4.5	171
52	Ubiquitin ligase component Cul4 associates with Clr4 histone methyltransferase to assemble heterochromatin. Nature Cell Biology, 2005, 7, 1007-1013.	4.6	199
53	Comprehensive analysis of heterochromatin- and RNAi-mediated epigenetic control of the fission yeast genome. Nature Genetics, 2005, 37, 809-819.	9.4	444
54	Histone H3 K36 Methylation Is Associated with Transcription Elongation in Schizosaccharomyces pombe. Eukaryotic Cell, 2005, 4, 1446-1454.	3.4	106

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55	From The Cover: RNA-dependent RNA polymerase is an essential component of a self-enforcing loop coupling heterochromatin assembly to siRNA production. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 152-157.	3.3	263
56	The Nucleation and Maintenance of Heterochromatin by a Histone Deacetylase in Fission Yeast. Molecular Cell, 2005, 20, 173-185.	4.5	288
57	RITS acts in cis to promote RNA interferenceâ€“mediated transcriptional and post-transcriptional silencing. Nature Genetics, 2004, 36, 1174-1180.	9.4	375
58	Regulation of heterochromatin by histone methylation and small RNAs. Current Opinion in Cell Biology, 2004, 16, 230-238.	2.6	184
59	RNAi-Independent Heterochromatin Nucleation by the Stress-Activated ATF/CREB Family Proteins. Science, 2004, 304, 1971-1976.	6.0	287
60	RNAi-Mediated Targeting of Heterochromatin by the RITS Complex. Science, 2004, 303, 672-676.	6.0	1,110
61	Heterochromatin Regulates Cell Type-Specific Long-Range Chromatin Interactions Essential for Directed Recombination. Cell, 2004, 119, 469-480.	13.5	100
62	Alp13, an MRG family protein, is a component of fission yeast Clr6 histone deacetylase required for genomic integrity. EMBO Journal, 2003, 22, 2776-2787.	3.5	68
63	Heterochromatin and Epigenetic Control of Gene Expression. Science, 2003, 301, 798-802.	6.0	926
64	Sir2 Regulates Histone H3 Lysine 9 Methylation and Heterochromatin Assembly in Fission Yeast. Current Biology, 2003, 13, 1240-1246.	1.8	185
65	Heterochromatin: silence is golden. Current Biology, 2003, 13, R895-R898.	1.8	168
66	Trimethylated lysine 9 of histone H3 is a mark for DNA methylation in Neurospora crassa. Nature Genetics, 2003, 34, 75-79.	9.4	351
67	A Novel jmjC Domain Protein Modulates Heterochromatization in Fission Yeast. Molecular and Cellular Biology, 2003, 23, 4356-4370.	1.1	139
68	RNA interference machinery regulates chromosome dynamics during mitosis and meiosis in fission yeast. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 193-198.	3.3	306
69	Fission yeast CENP-B homologs nucleate centromeric heterochromatin by promoting heterochromatin-specific histone tail modifications. Genes and Development, 2002, 16, 1766-1778.	2.7	97
70	Histone H3 lysine 4 methylation is mediated by Set1 and promotes maintenance of active chromatin states in fission yeast. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16438-16445.	3.3	114
71	Functional Divergence between Histone Deacetylases in Fission Yeast by Distinct Cellular Localization and In Vivo Specificity. Molecular and Cellular Biology, 2002, 22, 2170-2181.	1.1	174
72	Regulation of Heterochromatic Silencing and Histone H3 Lysine-9 Methylation by RNAi. Science, 2002, 297, 1833-1837.	6.0	1,889

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73	Establishment and Maintenance of a Heterochromatin Domain. Science, 2002, 297, 2232-2237.	6.0	833
74	Heterochromatin: new possibilities for the inheritance of structure. Current Opinion in Genetics and Development, 2002, 12, 178-187.	1.5	365
75	Recruitment of cohesin to heterochromatic regions by Swi6/HP1 in fission yeast. Nature Cell Biology, 2002, 4, 89-93.	4.6	428
76	Structure of the SET domain histone lysine methyltransferase Clr4. Nature Structural Biology, 2002, 9, 828-32.	9.7	81
77	Role of Histone H3 Lysine 9 Methylation in Epigenetic Control of Heterochromatin Assembly. Science, 2001, 292, 110-113.	6.0	1,575
78	Transitions in Distinct Histone H3 Methylation Patterns at the Heterochromatin Domain Boundaries. Science, 2001, 293, 1150-1155.	6.0	692
79	Histone Deacetylase Homologs Regulate Epigenetic Inheritance of Transcriptional Silencing and Chromosome Segregation in Fission Yeast. Genetics, 1998, 150, 563-576.	1.2	183
80	A Recombinationally Repressed Region Between mat2 and mat3 Loci Shares Homology to Centromeric Repeats and Regulates Directionality of Mating-Type Switching in Fission Yeast. Genetics, 1997, 146, 1221-1238.	1.2	173