Robin Campbell Allshire

List of Publications by Year
in descending order

127 papers	17,529 citations	16451 64 h-index	15266 126 g-index
160 all docs	160 docs citations	160 times ranked	12833 citing authors

#	Article	IF	Citations
1	Selective recognition of methylated lysine 9 on histone H3 by the HP1 chromo domain. Nature, 2001, 410, 120-124.	27.8	2,535
2	Telomere reduction in human colorectal carcinoma and with ageing. Nature, 1990, 346, 866-868.	27.8	1,612
3	Requirement of Heterochromatin for Cohesion at Centromeres. Science, 2001, 294, 2539-2542.	12.6	583
4	Ten principles of heterochromatin formation and function. Nature Reviews Molecular Cell Biology, 2018, 19, 229-244.	37.0	523
5	Epigenetic regulation of centromeric chromatin: old dogs, new tricks?. Nature Reviews Genetics, 2008, 9, 923-937.	16.3	521
6	Methylation of Histone H4 Lysine 20 Controls Recruitment of Crb2 to Sites of DNA Damage. Cell, 2004, 119, 603-614.	28.9	512
7	Regulation of telomere length and function by a Myb-domain protein in fission yeast. Nature, 1997, 385, 744-747.	27.8	484
8	Comparative Functional Genomics of the Fission Yeasts. Science, 2011, 332, 930-936.	12.6	458
9	The case for epigenetic effects on centromere identity and function. Trends in Genetics, 1997, 13, 489-496.	6.7	454
10	Transient Inhibition of Histone Deacetylation Alters the Structural and Functional Imprint at Fission Yeast Centromeres. Cell, 1997, 91, 1021-1032.	28.9	368
11	Human telomeres contain at least three types of Gâ€“rich repeat distributed non-randomly. Nucleic Acids Research, 1989, 17, 4611-4627.	14.5	366
12	Position effect variegation at fission yeast centromeres. Cell, 1994, 76, 157-169.	28.9	330
13	Hairpin RNAs and Retrotransposon LTRs Effect RNAi and Chromatin-Based Gene Silencing. Science, 2003, 301, 1069-1074.	12.6	299
14	RNA interference is required for normal centromere function in fission yeast. Chromosome Research, 2003, 11, 137-146.	2.2	284
15	Heterochromatin and RNAi Are Required to Establish CENP-A Chromatin at Centromeres. Science, 2008, 319, 94-97.	12.6	259
16	Human telomeres: fusion and interstitial sites. Trends in Genetics, 1989, 5, 326-331.	6.7	250
17	Defective meiosis in telomere-silencing mutants of Schizosaccharomyces pombe. Nature, 1998, 392, 825-828.	27.8	240
18	RNA silencing and genome regulation. Trends in Cell Biology, 2005, 15, 251-258.	7.9	229

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19	Dimerisation of a chromo shadow domain and distinctions from the chromodomain as revealed by structural analysis. Current Biology, 2000, 10, 517-525.	3.9	228
20	Restricted epigenetic inheritance of H3K9 methylation. Science, 2015, 348, 132-135.	12.6	223
21	Telomeric repeat from T. thermophila cross hybridizes with human telomeres. Nature, 1988, 332, 656-659.	27.8	200
22	RNA Pol II subunit Rpb7 promotes centromeric transcription and RNAi-directed chromatin silencing. Genes and Development, 2005, 19, 2301-2306.	5.9	199
23	Stc1: A Critical Link between RNAi and Chromatin Modification Required for Heterochromatin Integrity. Cell, 2010, 140, 666-677.	28.9	195
24	Fission Yeast Scm3: A CENP-A Receptor Required for Integrity of Subkinetochore Chromatin. Molecular Cell, 2009, 33, 299-311.	9.7	187
25	Methylation: lost in hydroxylation?. EMBO Reports, 2005, 6, 315-320.	4.5	186
26	Cloning of human telomeres by complementation in yeast. Nature, 1989, 338, 771-774.	27.8	170
27	cis-Acting DNA from Fission Yeast Centromeres Mediates Histone H3 Methylation and Recruitment of Silencing Factors and Cohesin to an Ectopic Site. Current Biology, 2002, 12, 1652-1660.	3.9	165
28	Epigenetic Regulation of Chromatin States in<i>Schizosaccharomyces pombe</i>. Cold Spring Harbor Perspectives in Biology, 2015, 7, a018770.	5.5	161
29	Synthetic Heterochromatin Bypasses RNAi and Centromeric Repeats to Establish Functional Centromeres. Science, 2009, 324, 1716-1719.	12.6	147
30	Quantitative single-molecule microscopy reveals that CENP-A ^{Cnp1} deposition occurs during G2 in fission yeast. Open Biology, 2012, 2, 120078.	3.6	145
31	Common Ancestry of the CENP-A Chaperones Scm3 and HJURP. Cell, 2009, 137, 1173-1174.	28.9	136
32	The role of heterochromatin in centromere function. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 569-579.	4.0	134
33	A histone H3K36 chromatin switch coordinates DNA double-strand break repair pathway choice. Nature Communications, 2014, 5, 4091.	12.8	134
34	RNAi-Mediated Chromatin Silencing in Fission Yeast. Current Topics in Microbiology and Immunology, 2008, 320, 157-183.	1.1	129
35	Centromere Silencing and Function in Fission Yeast Is Governed by the Amino Terminus of Histone H3. Current Biology, 2003, 13, 1748-1757.	3.9	123
36	Kinetochore and heterochromatin domains of the fission yeast centromere. Chromosome Research, 2004, 12, 521-534.	2.2	122

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37	Identification of Noncoding Transcripts from within CENP-A Chromatin at Fission Yeast Centromeres. Journal of Biological Chemistry, 2011, 286, 23600-23607.	3.4	116
38	Splicing Factors Facilitate RNAi-Directed Silencing in Fission Yeast. Science, 2008, 322, 602-606.	12.6	113
39	Gain-of-function DNMT3A mutations cause microcephalic dwarfism and hypermethylation of Polycomb-regulated regions. Nature Genetics, 2019, 51, 96-105.	21.4	110
40	Sim4. Journal of Cell Biology, 2003, 161, 295-307.	5.2	107
41	Centromeres: getting a grip of chromosomes. Current Opinion in Cell Biology, 2000, 12, 308-319.	5.4	106
42	Hsk1â€"Dfp1 is required for heterochromatin-mediated cohesion at centromeres. Nature Cell Biology, 2003, 5, 1111-1116.	10.3	106
43	Factors That Promote H3 Chromatin Integrity during Transcription Prevent Promiscuous Deposition of CENP-ACnp1 in Fission Yeast. PLoS Genetics, 2012, 8, e1002985.	3.5	101
44	The JmjC domain protein Epe1 prevents unregulated assembly and disassembly of heterochromatin. EMBO Journal, 2007, 26, 4670-4682.	7.8	98
45	The Kinetochore Proteins Pcs1 and Mde4 and Heterochromatin Are Required to Prevent Merotelic Orientation. Current Biology, 2007, 17, 1190-1200.	3.9	98
46	Fission yeast CENP-B homologs nucleate centromeric heterochromatin by promoting heterochromatin-specific histone tail modifications. Genes and Development, 2002, 16, 1766-1778.	5.9	97
47	SPOCD1 is an essential executor of piRNA-directed de novo DNA methylation. Nature, 2020, 584, 635-639.	27.8	96
48	A NASP (N1/N2)-Related Protein, Sim3, Binds CENP-A and Is Required for Its Deposition at Fission Yeast Centromeres. Molecular Cell, 2007, 28, 1029-1044.	9.7	95
49	Sequence Features and Transcriptional Stalling within Centromere DNA Promote Establishment of CENP-A Chromatin. PLoS Genetics, 2015, 11, e1004986.	3.5	92
50	Fission Yeast Mutants That Alleviate Transcriptional Silencing in Centromeric Flanking Repeats and Disrupt Chromosome Segregation. Genetics, 1999, 153, 1153-1169.	2.9	92
51	RNA-directed transcriptional gene silencing in mammals. Trends in Genetics, 2005, 21, 370-373.	6.7	91
52	Stretching it: putting the CEN(P-A) in centromere. Current Opinion in Genetics and Development, 2003, 13, 191-198.	3.3	90
53	The Domain Structure of Centromeres Is Conserved from Fission Yeast to Humans. Molecular Biology of the Cell, 2001, 12, 2767-2775.	2.1	83
54	Long non-coding RNA-mediated transcriptional interference of a permease gene confers drug tolerance in fission yeast. Nature Communications, 2014, 5, 5576.	12.8	83

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55	The Chromatin-Remodeling Factor FACT Contributes to Centromeric Heterochromatin Independently of RNAi. Current Biology, 2007, 17, 1219-1224.	3.9	79
56	Plasticity of Fission Yeast CENP-A Chromatin Driven by Relative Levels of Histone H3 and H4. PLoS Genetics, 2007, 3, e121.	3.5	78
57	Analysis of small RNA in fission yeast; centromeric siRNAs are potentially generated through a structured RNA. EMBO Journal, 2009, 28, 3832-3844.	7.8	73
58	Centromeres, checkpoints and chromatid cohesion. Current Opinion in Genetics and Development, 1997, 7, 264-273.	3.3	72
59	The Schizosaccharomyces pombe HIRA-Like Protein Hip1 Is Required for the Periodic Expression of Histone Genes and Contributes to the Function of Complex Centromeres. Molecular and Cellular Biology, 2004, 24, 4309-4320.	2.3	71
60	Common ground: small RNA programming and chromatin modifications. Current Opinion in Cell Biology, 2011, 23, 258-265.	5.4	70
61	Those interfering little RNAs! Silencing and eliminating chromatin. Current Opinion in Genetics and Development, 2004, 14, 174-180.	3.3	69
62	RNA-interference-directed chromatin modification coupled to RNA polymerase II transcription. Nature, 2005, 435, 1275-1279.	27.8	69
63	The<i>Schizosaccharomyces pombe hst4</i>⁺Gene Is a<i>SIR2</i>Homologue with Silencing and Centromeric Functions. Molecular Biology of the Cell, 1999, 10, 3171-3186.	2.1	68
64	Epigenetic gene silencing by heterochromatin primes fungal resistance. Nature, 2020, 585, 453-458.	27.8	68
65	A fission yeast chromosome can replicate autonomously in mouse cells. Cell, 1987, 50, 391-403.	28.9	67
66	MOLECULAR BIOLOGY: RNAi and Heterochromatin--a Hushed-Up Affair. Science, 2002, 297, 1818-1819.	12.6	67
67	Centromeres become unstuck without heterochromatin. Trends in Cell Biology, 2002, 12, 419-424.	7.9	67
68	A New Role for the Transcriptional Corepressor SIN3; Regulation of Centromeres. Current Biology, 2003, 13, 68-72.	3.9	65
69	Hairpin RNA induces secondary small interfering RNA synthesis and silencing in <i>trans</i> in fission yeast. EMBO Reports, 2010, 11, 112-118.	4.5	64
70	Building centromeres: home sweet home or a nomadic existence?. Current Opinion in Genetics and Development, 2010, 20, 118-126.	3.3	60
71	Distinct roles for Sir2 and RNAi in centromeric heterochromatin nucleation, spreading and maintenance. EMBO Journal, 2013, 32, 1250-1264.	7.8	59
72	Analysis of chromatin in fission yeast. Methods, 2004, 33, 252-259.	3.8	53

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73	A nucleosome turnover map reveals that the stability of histone H4 Lys20 methylation depends on histone recycling in transcribed chromatin. Genome Research, 2015, 25, 872-883.	5.5	51
74	A programmed wave of uridylation-primed mRNA degradation is essential for meiotic progression and mammalian spermatogenesis. Cell Research, 2019, 29, 221-232.	12.0	48
75	Centromere DNA Destabilizes H3 Nucleosomes to Promote CENP-A Deposition during the Cell Cycle. Current Biology, 2018, 28, 3924-3936.e4.	3.9	45
76	The pad1 + Gene Encodes a Subunit of the 26 S Proteasome in Fission Yeast. Journal of Biological Chemistry, 1998, 273, 23938-23945.	3.4	44
77	TEX15 is an essential executor of MIWI2-directed transposon DNA methylation and silencing. Nature Communications, 2020, 11, 3739.	12.8	44
78	Genome-Wide Studies of Histone Demethylation Catalysed by the Fission Yeast Homologues of Mammalian LSD1. PLoS ONE, 2007, 2, e386.	2.5	44
79	CENP-A confers a reduction in height on octameric nucleosomes. Nature Structural and Molecular Biology, 2013, 20, 763-765.	8.2	43
80	Emerging Properties and Functional Consequences of Noncoding Transcription. Genetics, 2017, 207, 357-367.	2.9	42
81	Eic1 links Mis18 with the CCAN/Mis6/Ctf19 complex to promote CENP-A assembly. Open Biology, 2014, 4, 140043.	3.6	41
82	Centromere localization and function of Mis18 requires Yippeeâ€like domainâ€mediated oligomerization. EMBO Reports, 2016, 17, 496-507.	4.5	38
83	Interspecies conservation of organisation and function between nonhomologous regional centromeres. Nature Communications, 2019, 10, 2343.	12.8	36
84	Histone H3G34R mutation causes replication stress, homologous recombination defects and genomic instability in S. pombe. ELife, 2017, 6, .	6.0	36
85	Schizosaccharomyces pombe Git7p, a Member of the Saccharomyces cerevisiae Sgt1p Family, Is Required for Glucose and Cyclic AMP Signaling, Cell Wall Integrity, and Septation. Eukaryotic Cell, 2002, 1, 558-567.	3.4	35
86	The Mal2p Protein Is an Essential Component of the Fission Yeast Centromere. Molecular and Cellular Biology, 2002, 22, 7168-7183.	2.3	34
87	Transposonâ€driven transcription is a conserved feature of vertebrate spermatogenesis and transcript evolution. EMBO Reports, 2017, 18, 1231-1247.	4.5	34
88	A systematic analysis of <i>Trypanosoma brucei</i> chromatin factors identifies novel protein interaction networks associated with sites of transcription initiation and termination. Genome Research, 2021, 31, 2138-2154.	5.5	33
89	A New Member of the Sin3 Family of Corepressors Is Essential for Cell Viability and Required for Retroelement Propagation in Fission Yeast. Molecular and Cellular Biology, 1999, 19, 2351-2365.	2.3	31
90	Structure of bovine papillomavirus type 1 DNA in a transformed mouse cell line. Journal of Molecular Biology, 1986, 188, 1-13.	4.2	29

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91	Transcription-coupled changes to chromatin underpin gene silencing by transcriptional interference. Nucleic Acids Research, 2016, 44, 10619-10630.	14.5	29
92	Elements of chromosome structure and function in fission yeast. Seminars in Cell Biology, 1995, 6, 55-64.	3.4	27
93	Silencing Mediated by the Schizosaccharomyces pombe HIRA Complex Is Dependent upon the Hpc2-Like Protein, Hip4. PLoS ONE, 2010, 5, e13488.	2.5	27
94	Telomeric Repeats Facilitate CENP-ACnp1 Incorporation via Telomere Binding Proteins. PLoS ONE, 2013, 8, e69673.	2.5	27
95	Endogenous Mouse Dicer Is an Exclusively Cytoplasmic Protein. PLoS Genetics, 2016, 12, e1006095.	3.5	27
96	Raf1 Is a DCAF for the Rik1 DDB1-Like Protein and Has Separable Roles in siRNA Generation and Chromatin Modification. PLoS Genetics, 2012, 8, e1002499.	3.5	26
97	Defects in Components of the Proteasome Enhance Transcriptional Silencing at Fission Yeast Centromeres and Impair Chromosome Segregation. Molecular and Cellular Biology, 1999, 19, 5155-5165.	2.3	25
98	Pausing for Thought on the Boundaries of Imprinting. Cell, 2000, 102, 705-708.	28.9	25
99	SpEDIT: A fast and efficient CRISPR/Cas9 method for fission yeast. Wellcome Open Research, 2020, 5, 274.	1.8	24
100	Anarchic centromeres: deciphering order from apparent chaos. Current Opinion in Cell Biology, 2014, 26, 41-50.	5.4	23
101	Abo1, a conserved bromodomain <scp>AAA</scp> â€•<scp>ATP</scp> ase, maintains global nucleosome occupancy and organisation. EMBO Reports, 2016, 17, 79-93.	4.5	22
102	A systematic genetic screen identifies new factors influencing centromeric heterochromatin integrity in fission yeast. Genome Biology, 2014, 15, 481.	8.8	21
103	Centromeric chromatin makes its mark. Trends in Biochemical Sciences, 2005, 30, 172-175.	7.5	20
104	A DNA Polymerase Î± Accessory Protein, Mcl1, Is Required for Propagation of Centromere Structures in Fission Yeast. PLoS ONE, 2008, 3, e2221.	2.5	20
105	Hap2â€“Ino80-facilitated transcription promotes de novo establishment of CENP-A chromatin. Genes and Development, 2020, 34, 226-238.	5.9	18
106	Fta2, an Essential Fission Yeast Kinetochore Component, Interacts Closely with the Conserved Mal2 Protein. Molecular Biology of the Cell, 2006, 17, 4167-4178.	2.1	17
107	RNA polymerase II stalling at pre-mRNA splice sites is enforced by ubiquitination of the catalytic subunit. ELife, 2017, 6, .	6.0	16
108	Loss of Dicer fowls up centromeres. Nature Cell Biology, 2004, 6, 696-697.	10.3	13

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109	Comparison of methods for introducing vectors based on bovine papillomavirus-1 DNA into mammalian cells. Somatic Cell and Molecular Genetics, 1986, 12, 357-366.	0.7	12
110	Fitness Landscape of the Fission Yeast Genome. Molecular Biology and Evolution, 2019, 36, 1612-1623.	8.9	12
111	NANOS2 is a sequence-specific mRNA-binding protein that promotes transcript degradation in spermatogonial stem cells. IScience, 2021, 24, 102762.	4.1	11
112	Large domains of heterochromatin direct the formation of short mitotic chromosome loops. ELife, 2020, 9, .	6.0	11
113	Centromeres. Current Biology, 2001, 11, R454.	3.9	9
114	Chromosome Segregation: Clamping down on Deviant Orientations. Current Biology, 2003, 13, R385-R387.	3.9	9
115	DegrAAAded into Silence. Cell, 2007, 129, 651-653.	28.9	8
116	Establishment of centromere identity is dependent on nuclear spatial organization. Current Biology, 2022, 32, 3121-3136.e6.	3.9	8
117	Reply to â€œCENP-A octamers do not confer a reduction in nucleosome height by AFMâ€• Nature Structural and Molecular Biology, 2014, 21, 5-8.	8.2	7
118	[51] Manipulation of large minichromosomes in Schizosaccharomyces pombe with liposome-enhanced transformation. Methods in Enzymology, 1992, 216, 614-631.	1.0	5
119	The RFTS Domain of Raf2 Is Required for Cul4 Interaction and Heterochromatin Integrity in Fission Yeast. PLoS ONE, 2014, 9, e104161.	2.5	5
120	Molecular Biology: Silencing Unlimited. Current Biology, 2006, 16, R635-R638.	3.9	4
121	Centromere and Kinetochore Structure and Function. , 2004, , 149-169.		4
122	Duplication of a viral enhancer sequence improves the stability of a vector based on BPV-1 DNA. Virus Research, 1986, 6, 141-154.	2.2	3
123	Panspecies Small-Molecule Disruptors of Heterochromatin-Mediated Transcriptional Gene Silencing. Molecular and Cellular Biology, 2015, 35, 662-674.	2.3	3
124	iNucs: inter-nucleosome interactions. Bioinformatics, 2021, 37, 4562-4563.	4.1	2
125	Great chieftain oâ€™ the fungal-race!. Trends in Genetics, 2000, 16, 113-114.	6.7	1
126	Guardian spirit blesses meiosis. Nature, 2004, 427, 495-497.	27.8	1

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127	Six degrees of separation. Nature, 2011, 477, 283-284.	27.8	0