

# Susan M Gasser

## List of Publications by Year in descending order

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253  
papers

26,149  
citations

4658

85  
h-index

7745

150  
g-index

267  
all docs

267  
docs citations

267  
times ranked

15159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Histone H3 and H4 N-termini interact with SIR3 and SIR4 proteins: A molecular model for the formation of heterochromatin in yeast. <i>Cell</i> , 1995, 80, 583-592.	28.9	799
2	Cohabitation of scaffold binding regions with upstream/enhancer elements of three developmentally regulated genes of <i>D. melanogaster</i> . <i>Cell</i> , 1986, 46, 521-530.	28.9	621
3	Metaphase chromosome structure. <i>Journal of Molecular Biology</i> , 1986, 188, 613-629.	4.2	543
4	Recruitment of the INO80 Complex by H2A Phosphorylation Links ATP-Dependent Chromatin Remodeling with DNA Double-Strand Break Repair. <i>Cell</i> , 2004, 119, 777-788.	28.9	538
5	Step-Wise Methylation of Histone H3K9 Positions Heterochromatin at the Nuclear Periphery. <i>Cell</i> , 2012, 150, 934-947.	28.9	524
6	Crosstalk between histone modifications during the DNA damage response. <i>Trends in Cell Biology</i> , 2009, 19, 207-217.	7.9	457
7	The clustering of telomeres and colocalization with Rap1, Sir3, and Sir4 proteins in wild-type <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 1996, 134, 1349-1363.	5.2	440
8	Relocalization of Telomeric Ku and SIR Proteins in Response to DNA Strand Breaks in Yeast. <i>Cell</i> , 1999, 97, 621-633.	28.9	438
9	Chromosome Dynamics in the Yeast Interphase Nucleus. <i>Science</i> , 2001, 294, 2181-2186.	12.6	431
10	How mitochondria import proteins. <i>BBA - Biomembranes</i> , 1984, 779, 65-87.	8.0	415
11	Functional Targeting of DNA Damage to a Nuclear Pore-Associated SUMO-Dependent Ubiquitin Ligase. <i>Science</i> , 2008, 322, 597-602.	12.6	401
12	SIR3 and SIR4 proteins are required for the positioning and integrity of yeast telomeres. <i>Cell</i> , 1993, 75, 543-555.	28.9	397
13	The nuclear envelope and transcriptional control. <i>Nature Reviews Genetics</i> , 2007, 8, 507-517.	16.3	396
14	Automatic tracking of individual fluorescence particles: application to the study of chromosome dynamics. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1372-1383.	9.8	391
15	Redistribution of Silencing Proteins from Telomeres to the Nucleolus Is Associated with Extension of Life Span in <i>S. cerevisiae</i> . <i>Cell</i> , 1997, 89, 381-391.	28.9	368
16	Nuclear pore association confers optimal expression levels for an inducible yeast gene. <i>Nature</i> , 2006, 441, 774-778.	27.8	357
17	Mutation of yeast Ku genes disrupts the subnuclear organization of telomeres. <i>Current Biology</i> , 1998, 8, 653-657.	3.9	330
18	Localization of RAP1 and topoisomerase II in nuclei and meiotic chromosomes of yeast. <i>Journal of Cell Biology</i> , 1992, 117, 935-948.	5.2	301

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19	DNA polymerase stabilization at stalled replication forks requires Mec1 and the RecQ helicase Sgs1. EMBO Journal, 2003, 22, 4325-4336.	7.8	301
20	Visualizing Chromatin Dynamics in Interphase Nuclei. Science, 2002, 296, 1412-1416.	12.6	300
21	Distinct roles for SWR1 and INO80 chromatin remodeling complexes at chromosomal double-strand breaks. EMBO Journal, 2007, 26, 4113-4125.	7.8	292
22	Increased mobility of double-strand breaks requires Mec1, Rad9 and the homologous recombination machinery. Nature Cell Biology, 2012, 14, 502-509.	10.3	286
23	Chromosomal ARS and CEN elements bind specifically to the yeast nuclear scaffold. Cell, 1988, 54, 967-978.	28.9	282
24	Live Imaging of Telomeres. Current Biology, 2002, 12, 2076-2089.	3.9	276
25	Long-range compaction and flexibility of interphase chromatin in budding yeast analyzed by high-resolution imaging techniques. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16495-16500.	7.1	274
26	The histone code at DNA breaks: a guide to repair?. Nature Reviews Molecular Cell Biology, 2005, 6, 757-765.	37.0	270
27	The molecular biology of the SIR proteins. Gene, 2001, 279, 1-16.	2.2	257
28	Evidence for silencing compartments within the yeast nucleus: a role for telomere proximity and Sir protein concentration in silencer-mediated repression.. Genes and Development, 1996, 10, 1796-1811.	5.9	256
29	Chromatin and nucleosome dynamics in DNA damage and repair. Genes and Development, 2017, 31, 2204-2221.	5.9	254
30	Nuclear compartments and gene regulation. Current Opinion in Genetics and Development, 1999, 9, 199-205.	3.3	238
31	Separation of silencing from perinuclear anchoring functions in yeast Ku80, Sir4 and Esc1 proteins. EMBO Journal, 2004, 23, 1301-1312.	7.8	237
32	Localization of Sir2p: the nucleolus as a compartment for silent information regulators. EMBO Journal, 1997, 16, 3243-3255.	7.8	229
33	The yeast Sgs1p helicase acts upstream of Rad53p in the DNA replication checkpoint and colocalizes with Rad53p in S-phase-specific foci. Genes and Development, 2000, 14, 81-96.	5.9	229
34	Histone degradation in response to DNA damage enhances chromatin dynamics and recombination rates. Nature Structural and Molecular Biology, 2017, 24, 99-107.	8.2	220
35	The Telobox, a Myb-Related Telomeric DNA Binding Motif Found in Proteins from Yeast, Plants and Human. Nucleic Acids Research, 1996, 24, 1294-1303.	14.5	218
36	Gene regulation through nuclear organization. Nature Structural and Molecular Biology, 2007, 14, 1049-1055.	8.2	215

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37	RAP-1 factor is necessary for DNA loop formation in vitro at the silent mating type locus HML. <i>Cell</i> , 1989, 57, 725-737.	28.9	208
38	Chromatin Movement in the Maintenance of Genome Stability. <i>Cell</i> , 2013, 152, 1355-1364.	28.9	202
39	Distortion of the DNA Double Helix by RAP1 at Silencers and Multiple Telomeric Binding Sites. <i>Journal of Molecular Biology</i> , 1993, 231, 293-310.	4.2	201
40	Imported mitochondrial proteins cytochrome b2 and cytochrome c1 are processed in two steps.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982, 79, 267-271.	7.1	200
41	The Function of Nuclear Architecture: A Genetic Approach. <i>Annual Review of Genetics</i> , 2004, 38, 305-345.	7.6	200
42	ORC and the intra-S-phase checkpoint: a threshold regulates Rad53p activation in S phase. <i>Genes and Development</i> , 2002, 16, 3236-3252.	5.9	188
43	Chromosome looping in yeast. <i>Journal of Cell Biology</i> , 2005, 168, 375-387.	5.2	186
44	Structure and Function in the Budding Yeast Nucleus. <i>Genetics</i> , 2012, 192, 107-129.	2.9	183
45	The carboxy termini of Sir4 and Rap1 affect Sir3 localization: evidence for a multicomponent complex required for yeast telomeric silencing.. <i>Journal of Cell Biology</i> , 1995, 129, 909-924.	5.2	181
46	The spatial dynamics of tissue-specific promoters during <i>C. elegans</i> development. <i>Genes and Development</i> , 2010, 24, 766-782.	5.9	180
47	The Positioning and Dynamics of Origins of Replication in the Budding Yeast Nucleus. <i>Journal of Cell Biology</i> , 2001, 152, 385-400.	5.2	178
48	Histone H3K9 methylation is dispensable for <i>Caenorhabditis elegans</i> development but suppresses RNA:DNA hybrid-associated repeat instability. <i>Nature Genetics</i> , 2016, 48, 1385-1395.	21.4	173
49	Replisome instability, fork collapse, and gross chromosomal rearrangements arise synergistically from Mec1 kinase and RecQ helicase mutations. <i>Genes and Development</i> , 2005, 19, 3055-3069.	5.9	171
50	Perinuclear Anchoring of H3K9-Methylated Chromatin Stabilizes Induced Cell Fate in <i>C.Âlegans</i> Embryos. <i>Cell</i> , 2015, 163, 1333-1347.	28.9	169
51	Sir-Mediated Repression Can Occur Independently of Chromosomal and Subnuclear Contexts. <i>Cell</i> , 2004, 119, 955-967.	28.9	168
52	Yeast telomerase and the SUN domain protein Mps3 anchor telomeres and repress subtelomeric recombination. <i>Genes and Development</i> , 2009, 23, 928-938.	5.9	164
53	SWR1 and INO80 Chromatin Remodelers Contribute to DNA Double-Strand Break Perinuclear Anchorage Site Choice. <i>Molecular Cell</i> , 2014, 55, 626-639.	9.7	164
54	Ino80 Chromatin Remodeling Complex Promotes Recovery of Stalled Replication Forks. <i>Current Biology</i> , 2008, 18, 566-575.	3.9	162

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55	Targeted INO80 enhances subnuclear chromatin movement and ectopic homologous recombination. <i>Genes and Development</i> , 2012, 26, 369-383.	5.9	156
56	On TADs and LADs: Spatial Control Over Gene Expression. <i>Trends in Genetics</i> , 2016, 32, 485-495.	6.7	151
57	A cytosolic NAD-dependent deacetylase, Hst2p, can modulate nucleolar and telomeric silencing in yeast. <i>EMBO Journal</i> , 2001, 20, 197-209.	7.8	147
58	Establishment of H3K9-methylated heterochromatin and its functions in tissue differentiation and maintenance. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 623-640.	37.0	145
59	Scaffold attachment of DNA loops in metaphase chromosomes. <i>Journal of Molecular Biology</i> , 1988, 200, 101-109.	4.2	142
60	Telomeres and the functional architecture of the nucleus. <i>Trends in Cell Biology</i> , 1993, 3, 128-134.	7.9	140
61	ATR/Mec1: coordinating fork stability and repair. <i>Current Opinion in Cell Biology</i> , 2009, 21, 237-244.	5.4	136
62	Heterochromatin protein 1: don't judge the book by its cover!. <i>Current Opinion in Genetics and Development</i> , 2006, 16, 143-150.	3.3	134
63	Mechanistically distinct roles for Sgs1p in checkpoint activation and replication fork maintenance. <i>EMBO Journal</i> , 2005, 24, 405-417.	7.8	132
64	Positions of Potential: Nuclear Organization and Gene Expression. <i>Cell</i> , 2001, 104, 639-642.	28.9	130
65	The nuclear envelope—a scaffold for silencing?. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 180-186.	3.3	130
66	Histones and histone modifications in perinuclear chromatin anchoring: from yeast to man. <i>EMBO Reports</i> , 2016, 17, 139-155.	4.5	128
67	An EDMD Mutation in <i>C. elegans</i> Lamin Blocks Muscle-Specific Gene Relocation and Compromises Muscle Integrity. <i>Current Biology</i> , 2011, 21, 1603-1614.	3.9	125
68	Checkpoint kinases and the INO80 nucleosome remodeling complex enhance global chromatin mobility in response to DNA damage. <i>Genes and Development</i> , 2013, 27, 1999-2008.	5.9	114
69	A role for the Cdc7 kinase regulatory subunit Dbf4p in the formation of initiation-competent origins of replication. <i>Genes and Development</i> , 1999, 13, 2159-2176.	5.9	114
70	The functional importance of telomere clustering: Global changes in gene expression result from SIR factor dispersion. <i>Genome Research</i> , 2009, 19, 611-625.	5.5	110
71	SIR Proteins and the Assembly of Silent Chromatin in Budding Yeast. <i>Annual Review of Genetics</i> , 2013, 47, 275-306.	7.6	109
72	Regulation of recombination at yeast nuclear pores controls repair and triplet repeat stability. <i>Genes and Development</i> , 2015, 29, 1006-1017.	5.9	109

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73	RecQ helicases: multiple roles in genome maintenance. <i>Trends in Cell Biology</i> , 2003, 13, 493-501.	7.9	108
74	LifeTime and improving European healthcare through cell-based interceptive medicine. <i>Nature</i> , 2020, 587, 377-386.	27.8	108
75	PolySUMOylation by Siz2 and Mms21 triggers relocation of DNA breaks to nuclear pores through the Slx5/Slx8 STUbL. <i>Genes and Development</i> , 2016, 30, 931-945.	5.9	107
76	Repeat DNA in genome organization and stability. <i>Current Opinion in Genetics and Development</i> , 2015, 31, 12-19.	3.3	106
77	The Budding Yeast Nucleus. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a000612-a000612.	5.5	105
78	INO80 and SWR complexes: relating structure to function in chromatin remodeling. <i>Trends in Cell Biology</i> , 2014, 24, 619-631.	7.9	105
79	The Origin Recognition Complex Functions in Sister-Chromatid Cohesion in <i>Saccharomyces cerevisiae</i> . <i>Cell</i> , 2007, 128, 85-99.	28.9	104
80	Reconstitution of Yeast Silent Chromatin: Multiple Contact Sites and O-AADPR Binding Load SIR Complexes onto Nucleosomes In Vitro. <i>Molecular Cell</i> , 2009, 33, 323-334.	9.7	103
81	Mec1, INO80, and the PAF1 complex cooperate to limit transcription replication conflicts through RNAPII removal during replication stress. <i>Genes and Development</i> , 2016, 30, 337-354.	5.9	103
82	Nuclear Actin and Actin-Binding Proteins in DNA Repair. <i>Trends in Cell Biology</i> , 2019, 29, 462-476.	7.9	101
83	ATP-Dependent Chromatin Remodeling and DNA Double-Strand Break Repair. <i>Cell Cycle</i> , 2005, 4, 1011-1014.	2.6	99
84	Active chromatin marks drive spatial sequestration of heterochromatin in <i>C. elegans</i> nuclei. <i>Nature</i> , 2019, 569, 734-739.	27.8	97
85	Visualization of Chromatin Decompaction and Break Site Extrusion as Predicted by Statistical Polymer Modeling of Single-Locus Trajectories. <i>Cell Reports</i> , 2017, 18, 1200-1214.	6.4	96
86	Identification and purification of a protein that binds the yeast ARS consensus sequence. <i>Cell</i> , 1991, 64, 951-960.	28.9	94
87	Structural Maintenance of Chromosomes Protein C-terminal Domains Bind Preferentially to DNA with Secondary Structure. <i>Journal of Biological Chemistry</i> , 1998, 273, 24088-24094.	3.4	93
88	The Dynamics of Yeast Telomeres and Silencing Proteins through the Cell Cycle. <i>Journal of Structural Biology</i> , 2000, 129, 159-174.	2.8	91
89	The INO80 remodeller in transcription, replication and repair. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160290.	4.0	91
90	An N-terminal domain of Dbf4p mediates interaction with both origin recognition complex (ORC) and Rad53p and can deregulate late origin firing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16087-16092.	7.1	88

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91	The PIAS homologue Siz2 regulates perinuclear telomere position and telomerase activity in budding yeast. <i>Nature Cell Biology</i> , 2011, 13, 867-874.	10.3	88
92	Cohesin and the nucleolus constrain the mobility of spontaneous repair foci. <i>EMBO Reports</i> , 2013, 14, 984-991.	4.5	87
93	Nuclear organization in genome stability: SUMO connections. <i>Cell Research</i> , 2011, 21, 474-485.	12.0	86
94	Nucleosome remodelers in double-strand break repair. <i>Current Opinion in Genetics and Development</i> , 2013, 23, 174-184.	3.3	85
95	A dual role of H4K16 acetylation in the establishment of yeast silent chromatin. <i>EMBO Journal</i> , 2011, 30, 2610-2621.	7.8	84
96	Epigenetics in <i>Saccharomyces cerevisiae</i> . <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a017491-a017491.	5.5	84
97	Repressive Chromatin in <i>Caenorhabditis elegans</i> : Establishment, Composition, and Function. <i>Genetics</i> , 2018, 208, 491-511.	2.9	82
98	Chromosome dynamics: the SMC protein family. <i>Current Opinion in Genetics and Development</i> , 1998, 8, 254-259.	3.3	80
99	Mechanisms of heterochromatin subnuclear localization. <i>Trends in Biochemical Sciences</i> , 2013, 38, 356-363.	7.5	80
100	Visualizing Yeast Chromosomes and Nuclear Architecture. <i>Methods in Enzymology</i> , 2010, 470, 535-567.	1.0	78
101	Nuclear Geometry and Rapid Mitosis Ensure Asymmetric Episome Segregation in Yeast. <i>Current Biology</i> , 2011, 21, 25-33.	3.9	78
102	Myosin-like proteins 1 and 2 are not required for silencing or telomere anchoring, but act in the Tel1 pathway of telomere length control. <i>Journal of Structural Biology</i> , 2002, 140, 79-91.	2.8	76
103	Controlled exchange of chromosomal arms reveals principles driving telomere interactions in yeast. <i>Genome Research</i> , 2008, 18, 261-271.	5.5	76
104	Improved methods for the isolation of individual and clustered mitotic chromosomes. <i>Experimental Cell Research</i> , 1987, 173, 85-98.	2.6	74
105	An N-terminal acidic region of Sgs1 interacts with Rpa70 and recruits Rad53 kinase to stalled forks. <i>EMBO Journal</i> , 2012, 31, 3768-3783.	7.8	74
106	Replication foci dynamics: replication patterns are modulated by S-phase checkpoint kinases in fission yeast. <i>EMBO Journal</i> , 2007, 26, 1315-1326.	7.8	73
107	DNA loops: structural and functional properties of scaffold-attached regions. <i>Molecular Microbiology</i> , 1992, 6, 419-423.	2.5	72
108	Temporal separation of replication and recombination requires the intra-S checkpoint. <i>Journal of Cell Biology</i> , 2005, 168, 537-544.	5.2	72

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109	Meiotic behaviours of chromosomes and microtubules in budding yeast: relocalization of centromeres and telomeres during meiotic prophase. <i>Genes To Cells</i> , 1998, 3, 587-601.	1.2	71
110	Regulation of Nuclear Positioning and Dynamics of the Silent Mating Type Loci by the Yeast Ku70/Ku80 Complex. <i>Molecular and Cellular Biology</i> , 2009, 29, 835-848.	2.3	71
111	TORC2 Signaling Pathway Guarantees Genome Stability in the Face of DNA Strand Breaks. <i>Molecular Cell</i> , 2013, 51, 829-839.	9.7	71
112	DNA topoisomerase II mutations and resistance to anti-tumor drugs. <i>BioEssays</i> , 1995, 17, 767-774.	2.5	70
113	Regulation of topoisomerase II by phosphorylation: a role for casein kinase II. <i>Journal of Cell Science</i> , 1993, 104, 219-225.	2.0	70
114	A Sense of the End. <i>Science</i> , 2000, 288, 1377-1379.	12.6	68
115	Locking the genome: nuclear organization and cell fate. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 167-174.	3.3	68
116	Chromatin states and nuclear organization in development – a view from the nuclear lamina. <i>Genome Biology</i> , 2015, 16, 174.	8.8	67
117	Intracellular trafficking of yeast telomerase components. <i>EMBO Reports</i> , 2002, 3, 652-659.	4.5	66
118	Silent chromatin at the middle and ends: lessons from yeasts. <i>EMBO Journal</i> , 2009, 28, 2149-2161.	7.8	64
119	Multiple pathways for telomere tethering: functional implications of subnuclear position for heterochromatin formation. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2004, 1677, 120-128.	2.4	63
120	Modules for cloning – free chromatin tagging in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2008, 25, 235-239.	1.7	63
121	Yeast PP4 Interacts with ATR Homolog Ddc2-Mec1 and Regulates Checkpoint Signaling. <i>Molecular Cell</i> , 2015, 57, 273-289.	9.7	63
122	Turning telomeres off and on. <i>Current Opinion in Cell Biology</i> , 2001, 13, 281-289.	5.4	61
123	Actin-related proteins in the nucleus: life beyond chromatin remodelers. <i>Current Opinion in Cell Biology</i> , 2010, 22, 383-391.	5.4	61
124	Chromosome Dynamics in Response to DNA Damage. <i>Annual Review of Genetics</i> , 2018, 52, 295-319.	7.6	61
125	Promoter- and RNA polymerase II – dependent <i>hsp-16</i> gene association with nuclear pores in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2013, 200, 589-604.	5.2	60
126	Chromatin organization and dynamics in double-strand break repair. <i>Current Opinion in Genetics and Development</i> , 2017, 43, 9-16.	3.3	59



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127	Nuclear organization and transcriptional silencing in yeast. <i>Experientia</i> , 1996, 52, 1136-1147.	1.2	58
128	RPA Mediates Recruitment of MRX to Forks and Double-Strand Breaks to Hold Sister Chromatids Together. <i>Molecular Cell</i> , 2016, 64, 951-966.	9.7	57
129	ORC-dependent and origin-specific initiation of DNA replication at defined foci in isolated yeast nuclei. <i>Genes and Development</i> , 1997, 11, 1504-1518.	5.9	56
130	Heterochromatin Protein 1 <sup>h</sup> (HP1 <sup>h</sup> ) has distinct functions and distinct nuclear distribution in pluripotent versus differentiated cells. <i>Genome Biology</i> , 2015, 16, 213.	8.8	55
131	Structural Basis of Mec1-Ddc2-RPA Assembly and Activation on Single-Stranded DNA at Sites of Damage. <i>Molecular Cell</i> , 2017, 68, 431-445.e5.	9.7	55
132	Nuclear organization and silencing: putting things in their place. <i>Nature Cell Biology</i> , 2002, 4, E53-E55.	10.3	54
133	Ku <sup>Δ</sup> deficient yeast strains exhibit alternative states of silencing competence. <i>EMBO Reports</i> , 2001, 2, 203-210.	4.5	53
134	The processing of double-strand breaks and binding of single-strand-binding proteins RPA and Rad51 modulate the formation of ATR-kinase foci in yeast. <i>Journal of Cell Science</i> , 2007, 120, 4209-4220.	2.0	53
135	Analysis of Sir2p Domains Required for rDNA and Telomeric Silencing in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2000, 154, 1069-1083.	2.9	53
136	Analysis of Etoposide Binding to Subdomains of Human DNA Topoisomerase II $\alpha$ in the Absence of DNA. <i>Biochemistry</i> , 2001, 40, 1624-1634.	2.5	52
137	Actin-Related Protein Arp6 Influences H2A.Z-Dependent and -Independent Gene Expression and Links Ribosomal Protein Genes to Nuclear Pores. <i>PLoS Genetics</i> , 2010, 6, e1000910.	3.5	52
138	<i>Caenorhabditis elegans</i> Heterochromatin protein 1 (HPL-2) links developmental plasticity, longevity and lipid metabolism. <i>Genome Biology</i> , 2011, 12, R123.	9.6	52
139	Replication Checkpoint: Tuning and Coordination of Replication Forks in S Phase. <i>Genes</i> , 2013, 4, 388-434.	2.4	52
140	INO80-C and SWR-C: Guardians of the Genome. <i>Journal of Molecular Biology</i> , 2015, 427, 637-651.	4.2	52
141	RecQ helicases: at the heart of genetic stability. <i>FEBS Letters</i> , 2002, 529, 43-48.	2.8	49
142	Imaging the Asymmetrical DNA Bend Induced by Repressor Activator Protein 1 with Scanning Tunneling Microscopy. <i>Journal of Structural Biology</i> , 1994, 113, 1-12.	2.8	48
143	Synergistic lethality between BRCA1 and H3K9me2 loss reflects satellite derepression. <i>Genes and Development</i> , 2019, 33, 436-451.	5.9	48
144	Methods for Visualizing Chromatin Dynamics in Living Yeast. <i>Methods in Enzymology</i> , 2003, 375, 345-365.	1.0	47

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145	Challenges and guidelines toward 4D nucleome data and model standards. <i>Nature Genetics</i> , 2018, 50, 1352-1358.	21.4	47
146	Guidelines for DNA recombination and repair studies: Cellular assays of DNA repair pathways. <i>Microbial Cell</i> , 2019, 6, 1-64.	3.2	47
147	The composition and morphology of yeast nuclear scaffolds. <i>Journal of Cell Science</i> , 1990, 96, 439-450.	2.0	46
148	Telomere maintenance and gene repression: a common end?. <i>Current Opinion in Cell Biology</i> , 1994, 6, 373-379.	5.4	45
149	The nucleolus: Nucleolar space for RENT. <i>Current Biology</i> , 1999, 9, R575-R576.	3.9	45
150	The shelterin protein POT-1 anchors <i>Caenorhabditis elegans</i> telomeres through SUN-1 at the nuclear periphery. <i>Journal of Cell Biology</i> , 2013, 203, 727-735.	5.2	44
151	Ribosome biogenesis factors bind a nuclear envelope SUN domain protein to cluster yeast telomeres. <i>EMBO Journal</i> , 2011, 30, 3799-3811.	7.8	43
152	MAP kinase signaling induces nuclear reorganization in budding yeast. <i>Current Biology</i> , 2000, 10, 373-382.	3.9	42
153	A Homotrimer-Heterotrimer Switch in Sir2 Structure Differentiates rDNA and Telomeric Silencing. <i>Molecular Cell</i> , 2006, 21, 825-836.	9.7	42
154	Functional Characterization of the N Terminus of Sir3p. <i>Molecular and Cellular Biology</i> , 1998, 18, 6110-6120.	2.3	41
155	Subtelomeric factors antagonize telomere anchoring and Tel1-independent telomere length regulation. <i>EMBO Journal</i> , 2006, 25, 857-867.	7.8	41
156	DNA Damage-Induced Nucleosome Depletion Enhances Homology Search Independently of Local Break Movement. <i>Molecular Cell</i> , 2020, 80, 311-326.e4.	9.7	41
157	Loss of an H3K9me anchor rescues laminopathy-linked changes in nuclear organization and muscle function in an Emery-Dreifuss muscular dystrophy model. <i>Genes and Development</i> , 2020, 34, 560-579.	5.9	41
158	The Function of Telomere Clustering in Yeast: The Circe Effect. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2004, 69, 327-338.	1.1	40
159	Structural basis for the role of the Sir3 AAA domain in silencing: interaction with Sir4 and unmethylated histone H3K79. <i>Genes and Development</i> , 2011, 25, 1835-1846.	5.9	40
160	RAP1 stimulates single- to double-strand association of yeast telomeric DNA: implications for telomere - telomere interactions. <i>Nucleic Acids Research</i> , 1994, 22, 5310-5320.	14.5	39
161	Chromosome Structure: Coiling up chromosomes. <i>Current Biology</i> , 1995, 5, 357-360.	3.9	39
162	Heterochromatin: a meiotic matchmaker?. <i>Trends in Cell Biology</i> , 1997, 7, 201-205.	7.9	39

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163	Sif2p interacts with the Sir4p amino-terminal domain and antagonizes telomeric silencing in yeast. <i>Current Biology</i> , 1998, 8, 787-S2.	3.9	38
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