Kerry S Bloom

List of Publications by Year in Descending Order

180 papers	9,711 citations	56 h-index	93 g-index
218 ext. papers	10,672 ext. citations	9.3 avg, IF	6.09 L-index

#	Paper	IF	Citations
180	Simulating Dynamic Chromosome Compaction: Methods for Bridging In Silico to In Vivo.. *Methods in Molecular Biology*, **2022**, 2415, 211-220	1.4	0
179	Behavior of dicentric chromosomes in budding yeast. *PLoS Genetics*, **2021**, 17, e1009442	6	1
178	Performance of deep learning restoration methods for the extraction of particle dynamics in noisy microscopy image sequences. *Molecular Biology of the Cell*, **2021**, 32, 903-914	3.5	2
177	The rDNA is biomolecular condensate formed by polymer-polymer phase separation and is sequestered in the nucleolus by transcription and R-loops. *Nucleic Acids Research*, **2021**, 49, 4586-4598	20.1	5
176	R-loops at centromeric chromatin contribute to defects in kinetochore integrity and chromosomal instability in budding yeast. *Molecular Biology of the Cell*, **2021**, 32, 74-89	3.5	5
175	Cdc7-mediated phosphorylation of Cse4 regulates high-fidelity chromosome segregation in budding yeast. *Molecular Biology of the Cell*, **2021**, 32, ar15	3.5	0
174	Polymer perspective of genome mobilization. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2020**, 821, 111706	3.3	1
173	Statistical mechanics of chromosomes: in vivo and in silico approaches reveal high-level organization and structure arise exclusively through mechanical feedback between loop extruders and chromatin substrate properties. *Nucleic Acids Research*, **2020**, 48, 11284-11303	20.1	6
172	Transient crosslinking kinetics optimize gene cluster interactions. *PLoS Computational Biology*, **2019**, 15, e1007124	5	3
171	The regulation of chromosome segregation via centromere loops. *Critical Reviews in Biochemistry and Molecular Biology*, **2019**, 54, 352-370	8.7	10
170	Three-Dimensional Thermodynamic Simulation of Condensin as a DNA-Based Translocase. *Methods in Molecular Biology*, **2019**, 2004, 291-318	1.4	1
169	tRNA Genes Affect Chromosome Structure and Function via Local Effects. *Molecular and Cellular Biology*, **2019**, 39,	4.8	11
168	Common Features of the Pericentromere and Nucleolus. *Genes*, **2019**, 10,	4.2	8
167	AI-Assisted Forward Modeling of Biological Structures. *Frontiers in Cell and Developmental Biology*, **2019**, 7, 279	5.7	4
166	Cell Division: Single-Cell Physiology Reveals Secrets of Chromosome Condensation. *Current Biology*, **2018**, 28, R117-R119	6.3	1
165	Stu2 uses a 15-nm parallel coiled coil for kinetochore localization and concomitant regulation of the mitotic spindle. *Molecular Biology of the Cell*, **2018**, 29, 285-294	3.5	4
164	Cdk1 phosphorylation of Esp1/Separase functions with PP2A and Slk19 to regulate pericentric Cohesin and anaphase onset. *PLoS Genetics*, **2018**, 14, e1007029	6	12

163	Fork pausing allows centromere DNA loop formation and kinetochore assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11784-11789	11.5	8
162	Geometric partitioning of cohesin and condensin is a consequence of chromatin loops. *Molecular Biology of the Cell*, **2018**, 29, 2737-2750	3.5	10
161	A Kinesin-5, Cin8, Recruits Protein Phosphatase 1 to Kinetochores and Regulates Chromosome Segregation. *Current Biology*, **2018**, 28, 2697-2704.e3	6.3	13
160	Microtubule dynamics drive enhanced chromatin motion and mobilize telomeres in response to DNA damage. *Molecular Biology of the Cell*, **2017**, 28, 1701-1711	3.5	44
159	Tension sensors reveal how the kinetochore shares its load. *BioEssays*, **2017**, 39, 1600216	4.1	16
158	Enrichment of dynamic chromosomal crosslinks drive phase separation of the nucleolus. *Nucleic Acids Research*, **2017**, 45, 11159-11173	20.1	39
157	Centromere Structure and Function. *Progress in Molecular and Subcellular Biology*, **2017**, 56, 515-539	3	17
156	FBW7 Loss Promotes Chromosomal Instability and Tumorigenesis via Cyclin E1/CDK2-Mediated Phosphorylation of CENP-A. *Cancer Research*, **2017**, 77, 4881-4893	10.1	47
155	Liberating cohesin from cohesion. *Genes and Development*, **2017**, 31, 2113-2114	12.6	3
154	RotoStep: A Chromosome Dynamics Simulator Reveals Mechanisms of Loop Extrusion. *Cold Spring Harbor Symposia on Quantitative Biology*, **2017**, 82, 101-109	3.9	15
153	SUMO-Targeted Ubiquitin Ligase (STUbL) Slx5 regulates proteolysis of centromeric histone H3 variant Cse4 and prevents its mislocalization to euchromatin. *Molecular Biology of the Cell*, **2016**,	3.5	48
152	How the kinetochore couples microtubule force and centromere stretch to move chromosomes. *Nature Cell Biology*, **2016**, 18, 382-92	23.4	49
151	ChromoShake: a chromosome dynamics simulator reveals that chromatin loops stiffen centromeric chromatin. *Molecular Biology of the Cell*, **2016**, 27, 153-66	3.5	29
150	A Cohesin-Based Partitioning Mechanism Revealed upon Transcriptional Inactivation of Centromere. *PLoS Genetics*, **2016**, 12, e1006021	6	6
149	Spatial signals link exit from mitosis to spindle position. *ELife*, **2016**, 5,	8.9	17
148	Polo kinase Cdc5 associates with centromeres to facilitate the removal of centromeric cohesin during mitosis. *Molecular Biology of the Cell*, **2016**, 27, 2286-300	3.5	15
147	Entropy gives rise to topologically associating domains. *Nucleic Acids Research*, **2016**, 44, 5540-9	20.1	23
146	Pat1 protects centromere-specific histone H3 variant Cse4 from Psh1-mediated ubiquitination. *Molecular Biology of the Cell*, **2015**, 26, 2067-79	3.5	15

145	The SUMO deconjugating peptidase Smt4 contributes to the mechanism required for transition from sister chromatid arm cohesion to sister chromatid pericentromere separation. *Cell Cycle*, **2015** , 14, 2206-18	4.7	5
144	DNA loops generate intracentromere tension in mitosis. *Journal of Cell Biology*, **2015**, 210, 553-64	7.3	36
143	Anniversary of the discovery/isolation of the yeast centromere by Clarke and Carbon. *Molecular Biology of the Cell*, **2015**, 26, 1575-7	3.5	1
142	Inferring Latent States and Refining Force Estimates via Hierarchical Dirichlet Process Modeling in Single Particle Tracking Experiments. *PLoS ONE*, **2015**, 10, e0137633	3.7	20
141	Polymer models of interphase chromosomes. *Nucleus*, **2014**, 5, 376-90	3.9	23
140	Dyskerin, tRNA genes, and condensin tether pericentric chromatin to the spindle axis in mitosis. *Journal of Cell Biology*, **2014**, 207, 189-99	7.3	26
139	Determining absolute protein numbers by quantitative fluorescence microscopy. *Methods in Cell Biology*, **2014**, 123, 347-65	1.8	35
138	Centromeric heterochromatin: the primordial segregation machine. *Annual Review of Genetics*, **2014**, 48, 457-84	14.5	48
137	Lessons learned from counting molecules: how to lure CENP-A into the kinetochore. *Open Biology*, **2014**, 4,	7	8
136	A phosphatidylinositol transfer protein integrates phosphoinositide signaling with lipid droplet metabolism to regulate a developmental program of nutrient stress-induced membrane biogenesis. *Molecular Biology of the Cell*, **2014**, 25, 712-27	3.5	56
135	Bending the rules: widefield microscopy and the Abbe limit of resolution. *Journal of Cellular Physiology*, **2014**, 229, 132-8	7	31
134	Systematic triple-mutant analysis uncovers functional connectivity between pathways involved in chromosome regulation. *Cell Reports*, **2013**, 3, 2168-78	10.6	32
133	A 3D map of the yeast kinetochore reveals the presence of core and accessory centromere-specific histone. *Current Biology*, **2013**, 23, 1939-44	6.3	48
132	A high-resolution multimode digital microscope system. *Methods in Cell Biology*, **2013**, 114, 179-210	1.8	5
131	Esperanto for histones: CENP-A, not CenH3, is the centromeric histone H3 variant. *Chromosome Research*, **2013**, 21, 101-6	4.4	33
130	Centromere tethering confines chromosome domains. *Molecular Cell*, **2013**, 52, 819-31	17.6	69
129	A close look at wiggly chromosomes. *Developmental Cell*, **2013**, 25, 330-2	10.2	
128	Intellectual immigration. *Current Biology*, **2013**, 23, R221-3	6.3	

127	Nonrandom distribution of interhomolog recombination events induced by breakage of a dicentric chromosome in Saccharomyces cerevisiae. *Genetics*, **2013**, 194, 69-80	4	11
126	The spatial segregation of pericentric cohesin and condensin in the mitotic spindle. *Molecular Biology of the Cell*, **2013**, 24, 3909-19	3.5	28
125	Pericentric chromatin loops function as a nonlinear spring in mitotic force balance. *Journal of Cell Biology*, **2013**, 200, 757-72	7.3	50
124	Individual pericentromeres display coordinated motion and stretching in the yeast spindle. *Journal of Cell Biology*, **2013**, 203, 407-16	7.3	26
123	Bub1 kinase and Sgo1 modulate pericentric chromatin in response to altered microtubule dynamics. *Current Biology*, **2012**, 22, 471-81	6.3	42
122	Mitotic spindle form and function. *Genetics*, **2012**, 190, 1197-224	4	93
121	Tension-dependent nucleosome remodeling at the pericentromere in yeast. *Molecular Biology of the Cell*, **2012**, 23, 2560-70	3.5	31
120	Centromeres: unique chromatin structures that drive chromosome segregation. *Nature Reviews Molecular Cell Biology*, **2011**, 12, 320-32	48.7	156
119	Systematic exploration of essential yeast gene function with temperature-sensitive mutants. *Nature Biotechnology*, **2011**, 29, 361-7	44.5	258
118	Chromosome integrity at a double-strand break requires exonuclease 1 and MRX. *DNA Repair*, **2011** , 10, 102-10	4.3	22
117	Point centromeres contain more than a single centromere-specific Cse4 (CENP-A) nucleosome. *Journal of Cell Biology*, **2011**, 195, 573-82	7.3	149
116	Guidelines for publishing papers containing theory and modeling. *Molecular Biology of the Cell*, **2011**, 22, 907-908	3.5	1
115	Cohesin, condensin, and the intramolecular centromere loop together generate the mitotic chromatin spring. *Journal of Cell Biology*, **2011**, 193, 1167-80	7.3	109
114	Towards building a chromosome segregation machine. *Nature*, **2010**, 463, 446-56	50.4	56
113	Integrating high-throughput genetic interaction mapping and high-content screening to explore yeast spindle morphogenesis. *Journal of Cell Biology*, **2010**, 188, 69-81	7.3	81
112	Uncovering chromatin's contribution to the mitotic spindle: Applications of computational and polymer models. *Biochimie*, **2010**, 92, 1741-8	4.6	3
111	Microtubule motors in eukaryotic spindle assembly and maintenance. *Seminars in Cell and Developmental Biology*, **2010**, 21, 248-54	7.5	41
110	Model Convolution: A Computational Approach to Digital Image Interpretation. *Cellular and Molecular Bioengineering*, **2010**, 3, 163-170	3.9	24

109	Tension management in the kinetochore. *Current Biology*, **2010**, 20, R1040-8	6.3	19
108	Mechanisms of force generation by end-on kinetochore-microtubule attachments. *Current Opinion in Cell Biology*, **2010**, 22, 57-67	9	89
107	DNA relaxation dynamics as a probe for the intracellular environment. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 9250-5	11.5	33
106	Function and assembly of DNA looping, clustering, and microtubule attachment complexes within a eukaryotic kinetochore. *Molecular Biology of the Cell*, **2009**, 20, 4131-9	3.5	53
105	In vivo protein architecture of the eukaryotic kinetochore with nanometer scale accuracy. *Current Biology*, **2009**, 19, 694-9	6.3	153
104	Persistent mechanical linkage between sister chromatids throughout anaphase. *Chromosoma*, **2009**, 118, 633-45	2.8	18
103	Centromeres and Kinetochores: An Historical Perspective **2009**, 1-20		
102	Pericentric chromatin is organized into an intramolecular loop in mitosis. *Current Biology*, **2008**, 18, 81-90	6.3	137
101	Kinesin-8 molecular motors: putting the brakes on chromosome oscillations. *Trends in Cell Biology*, **2008**, 18, 307-10	18.3	45
100	Design features of a mitotic spindle: balancing tension and compression at a single microtubule kinetochore interface in budding yeast. *Annual Review of Genetics*, **2008**, 42, 335-59	14.5	47
99	Chromosome congression by Kinesin-5 motor-mediated disassembly of longer kinetochore microtubules. *Cell*, **2008**, 135, 894-906	56.2	135
98	Kinetochores and microtubules wed without a ring. *Cell*, **2008**, 135, 211-3	56.2	
97	The microtubule-based motor Kar3 and plus end-binding protein Bim1 provide structural support for the anaphase spindle. *Journal of Cell Biology*, **2008**, 180, 91-100	7.3	58
96	Counting kinetochore protein numbers in budding yeast using genetically encoded fluorescent proteins. *Methods in Cell Biology*, **2008**, 85, 127-51	1.8	48
95	Molecular architecture of the kinetochore-microtubule attachment site is conserved between point and regional centromeres. *Journal of Cell Biology*, **2008**, 181, 587-94	7.3	131
94	Beyond the code: the mechanical properties of DNA as they relate to mitosis. *Chromosoma*, **2008**, 117, 103-10	2.8	47
93	FluoroSim: A Visual Problem-Solving Environment for Fluorescence Microscopy **2008**, 2008, 151-158		16
92	Cell structure and dynamics. *Current Opinion in Cell Biology*, **2007**, 19, 1-4	9	30

91	Pericentric chromatin is an elastic component of the mitotic spindle. *Current Biology*, **2007**, 17, 741-8	6.3	72
90	The yeast DNA damage checkpoint proteins control a cytoplasmic response to DNA damage. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11358-63	11.5	30
89	A high-resolution multimode digital microscope system. *Methods in Cell Biology*, **2007**, 81, 187-218	1.8	7
88	Hypothesis testing via integrated computer modeling and digital fluorescence microscopy. *Methods* , **2007**, 41, 232-7	4.6	19
87	Centromere dynamics. *Current Opinion in Genetics and Development*, **2007**, 17, 151-6	4.9	22
86	The path of DNA in the kinetochore. *Current Biology*, **2006**, 16, R276-8	6.3	33
85	Mps1 phosphorylation of Dam1 couples kinetochores to microtubule plus ends at metaphase. *Current Biology*, **2006**, 16, 1489-501	6.3	77
84	Measuring nanometer scale gradients in spindle microtubule dynamics using model convolution microscopy. *Molecular Biology of the Cell*, **2006**, 17, 4069-79	3.5	36
83	Nuclear congression is driven by cytoplasmic microtubule plus end interactions in S. cerevisiae. *Journal of Cell Biology*, **2006**, 172, 27-39	7.3	42
82	Microtubule dynamics in the budding yeast mating pathway. *Journal of Cell Science*, **2006**, 119, 3485-90	5.3	25
81	Thin-foil magnetic force system for high-numerical-aperture microscopy. *Review of Scientific Instruments*, **2006**, 77, nihms8302	1.7	76
80	NoCut: cytokinesis in check. *Cell*, **2006**, 125, 17-8	56.2	3
79	Molecular architecture of a kinetochore-microtubule attachment site. *Nature Cell Biology*, **2006**, 8, 581-5	23.4	227
78	Hitching a ride. *EMBO Reports*, **2006**, 7, 985-7	6.5	5
77	The role of centromere-binding factor 3 (CBF3) in spindle stability, cytokinesis, and kinetochore attachment. *Biochemistry and Cell Biology*, **2005**, 83, 696-702	3.6	14
76	Chemical genetics reveals a role for Mps1 kinase in kinetochore attachment during mitosis. *Current Biology*, **2005**, 15, 160-5	6.3	84
75	Chromosome segregation: seeing is believing. *Current Biology*, **2005**, 15, R500-3	6.3	5
74	Rho GTPase regulation of exocytosis in yeast is independent of GTP hydrolysis and polarization of the exocyst complex. *Journal of Cell Biology*, **2005**, 170, 583-94	7.3	79

73	Tension-dependent regulation of microtubule dynamics at kinetochores can explain metaphase congression in yeast. *Molecular Biology of the Cell*, **2005**, 16, 3764-75	3.5	112
72	The kinetochore protein Ndc10p is required for spindle stability and cytokinesis in yeast. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 5408-13	11.5	47
71	The differential roles of budding yeast Tem1p, Cdc15p, and Bub2p protein dynamics in mitotic exit. *Molecular Biology of the Cell*, **2004**, 15, 1519-32	3.5	76
70	Microtubule composition: cryptography of dynamic polymers. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 6839-40	11.5	11
69	Dynamic microtubules lead the way for spindle positioning. *Nature Reviews Molecular Cell Biology*, **2004**, 5, 481-92	48.7	120
68	Stable kinetochore-microtubule attachment constrains centromere positioning in metaphase. *Current Biology*, **2004**, 14, 1962-7	6.3	134
67	Chromosome fragmentation after induction of a double-strand break is an active process prevented by the RMX repair complex. *Current Biology*, **2004**, 14, 2107-12	6.3	124
66	Microtubule cytoskeleton: navigating the intracellular landscape. *Current Biology*, **2003**, 13, R430-2	6.3	2
65	The minus end-directed motor Kar3 is required for coupling dynamic microtubule plus ends to the cortical shmoo tip in budding yeast. *Current Biology*, **2003**, 13, 1423-8	6.3	65
64	A high-resolution multimode digital microscope system. *Methods in Cell Biology*, **2003**, 72, 185-216	1.8	3
63	Mechanisms of microtubule-based kinetochore positioning in the yeast metaphase spindle. *Biophysical Journal*, **2003**, 84, 3529-46	2.9	84
62	Nuclear oscillations and nuclear filament formation accompany single-strand annealing repair of a dicentric chromosome in Saccharomyces cerevisiae. *Journal of Cell Science*, **2003**, 116, 561-9	5.3	26
61	Differential kinetochore protein requirements for establishment versus propagation of centromere activity in Saccharomyces cerevisiae. *Journal of Cell Biology*, **2003**, 160, 833-43	7.3	54
60	The Saccharomyces cerevisiae spindle pole body is a dynamic structure. *Molecular Biology of the Cell*, **2003**, 14, 3494-505	3.5	37
59	Yeast kinetochores do not stabilize Stu2p-dependent spindle microtubule dynamics. *Molecular Biology of the Cell*, **2003**, 14, 4181-95	3.5	66
58	Yeast weighs in on the elusive spindle matrix: New filaments in the nucleus. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 4757-9	11.5	11
57	beta-Tubulin C354 mutations that severely decrease microtubule dynamics do not prevent nuclear migration in yeast. *Molecular Biology of the Cell*, **2002**, 13, 2919-32	3.5	55
56	Kar9p-independent microtubule capture at Bud6p cortical sites primes spindle polarity before bud emergence in Saccharomyces cerevisiae. *Molecular Biology of the Cell*, **2002**, 13, 4141-55	3.5	32

55	Nuclear migration: cortical anchors for cytoplasmic dynein. *Current Biology*, **2001**, 11, R326-9	6.3	51
54	Control of spindle polarity and orientation in Saccharomyces cerevisiae. *Trends in Cell Biology*, **2001**, 11, 160-6	18.3	93
53	ASH1 mRNA localization in three acts. *Molecular Biology of the Cell*, **2001**, 12, 2567-77	3.5	37
52	Dicentric chromosome stretching during anaphase reveals roles of Sir2/Ku in chromatin compaction in budding yeast. *Molecular Biology of the Cell*, **2001**, 12, 2800-12	3.5	50
51	Budding yeast chromosome structure and dynamics during mitosis. *Journal of Cell Biology*, **2001**, 152, 1255-66	7.3	185
50	Control of microtubule dynamics by Stu2p is essential for spindle orientation and metaphase chromosome alignment in yeast. *Molecular Biology of the Cell*, **2001**, 12, 2870-80	3.5	121
49	Phosphorylation of gamma-tubulin regulates microtubule organization in budding yeast. *Developmental Cell*, **2001**, 1, 621-31	10.2	107
48	The role of the proteins Kar9 and Myo2 in orienting the mitotic spindle of budding yeast. *Current Biology*, **2000**, 10, 1497-506	6.3	156
47	Bud6 directs sequential microtubule interactions with the bud tip and bud neck during spindle morphogenesis in Saccharomyces cerevisiae. *Molecular Biology of the Cell*, **2000**, 11, 3689-702	3.5	56
46	Dynamic positioning of mitotic spindles in yeast: role of microtubule motors and cortical determinants. *Molecular Biology of the Cell*, **2000**, 11, 3949-61	3.5	138
45	Coordinated spindle assembly and orientation requires Clb5p-dependent kinase in budding yeast. *Journal of Cell Biology*, **2000**, 148, 441-52	7.3	59
44	The polarity and dynamics of microtubule assembly in the budding yeast Saccharomyces cerevisiae. *Nature Cell Biology*, **2000**, 2, 36-41	23.4	197
43	Using green fluorescent protein fusion proteins to quantitate microtubule and spindle dynamics in budding yeast. *Methods in Cell Biology*, **1999**, 61, 369-83	1.8	18
42	Microtubule dynamics from mating through the first zygotic division in the budding yeast Saccharomyces cerevisiae. *Journal of Cell Biology*, **1999**, 144, 977-87	7.3	81
41	The role of actin in spindle orientation changes during the Saccharomyces cerevisiae cell cycle. *Journal of Cell Biology*, **1999**, 146, 1019-32	7.3	82
40	Localization and anchoring of mRNA in budding yeast. *Current Biology*, **1999**, 9, 569-78	6.3	196
39	mRNA localization: motile RNA, asymmetric anchors. *Current Opinion in Microbiology*, **1999**, 2, 604-9	7.9	12
38	Nuclear and spindle dynamics in budding yeast. *Molecular Biology of the Cell*, **1998**, 9, 1627-31	3.5	35

37	High-resolution video and digital-enhanced differential interference contrast light microscopy of cell division in budding yeast. *Methods in Enzymology*, **1998**, 298, 317-31	1.7	8
36	Chapter 10 A High-Resolution Multimode Digital Microscope System. *Methods in Cell Biology*, **1998**, 56, 185-215	1.8	40
35	Identification of a mid-anaphase checkpoint in budding yeast. *Journal of Cell Biology*, **1997**, 136, 345-54	7.3	68
34	Astral microtubule dynamics in yeast: a microtubule-based searching mechanism for spindle orientation and nuclear migration into the bud. *Journal of Cell Biology*, **1997**, 139, 985-94	7.3	257
33	Imaging green fluorescent protein fusion proteins in Saccharomyces cerevisiae. *Current Biology*, **1997**, 7, 701-4	6.3	76
32	Spindle dynamics and cell cycle regulation of dynein in the budding yeast, Saccharomyces cerevisiae. *Journal of Cell Biology*, **1995**, 130, 687-700	7.3	330
31	Two different types of double-strand breaks in Saccharomyces cerevisiae are repaired by similar RAD52-independent, nonhomologous recombination events. *Molecular and Cellular Biology*, **1994**, 14, 1293-301	4.8	196
30	The centromere frontier: kinetochore components, microtubule-based motility, and the CEN-value paradox. *Cell*, **1993**, 73, 621-4	56.2	66
29	The nucleosome repeat length of Kluyveromyces lactis is 16 bp longer than that of Saccharomyces cerevisiae. *Nucleic Acids Research*, **1993**, 21, 2247-8	20.1	5
28	Disruption of mitotic spindle orientation in a yeast dynein mutant. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 10096-100	11.5	339
27	Genetic dissection of centromere function. *Molecular and Cellular Biology*, **1993**, 13, 3156-66	4.8	15
26	Chromatin structures of Kluyveromyces lactis centromeres in K. lactis and Saccharomyces cerevisiae. *Chromosoma*, **1993**, 102, 660-7	2.8	13
25	Cell Cycle Regulation of Centromere Function in Saccharomyces Cerevisiae **1993**, 111-120		
24	A dynamin-like protein encoded by the yeast sporulation gene SPO15. *Nature*, **1991**, 349, 713-5	50.4	78
23	Centromeres: an integrated protein/DNA complex required for chromosome movement. *Annual Review of Cell Biology*, **1991**, 7, 311-36		46
22	Nucleosome depletion alters the chromatin structure of Saccharomyces cerevisiae centromeres. *Molecular and Cellular Biology*, **1990**, 10, 5721-7	4.8	61
21	Heterogeneity and maintenance of centromere plasmid copy number in Saccharomyces cerevisiae. *Chromosoma*, **1990**, 99, 281-8	2.8	10
20	Cis- and trans-acting factors affecting the structure of yeast centromeres. *Journal of Cell Science*, **1989**, 12, 231-42	5.3	3

19	Centromeres and telomeres: structural elements of eukaryotic chromosomes. *Current Opinion in Cell Biology*, **1989**, 1, 526-32	9	6
18	The structure of a primitive kinetochore. *Trends in Biochemical Sciences*, **1989**, 14, 223-7	10.3	26
17	Acquisition and processing of a conditional dicentric chromosome in Saccharomyces cerevisiae. *Molecular and Cellular Biology*, **1989**, 9, 1368-70	4.8	63
16	Selective excision of the centromere chromatin complex from Saccharomyces cerevisiae. *Journal of Cell Biology*, **1988**, 107, 9-15	7.3	12
15	Chromatin structure of altered yeast centromeres. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 175-9	11.5	83
14	Genetic manipulation of centromere function. *Molecular and Cellular Biology*, **1987**, 7, 2397-405	4.8	188
13	UV-induced damage and repair in centromere DNA of yeast. *Molecular Genetics and Genomics*, **1987**, 210, 16-22		3
12	Tightly centromere-linked gene (SPO15) essential for meiosis in the yeast Saccharomyces cerevisiae. *Molecular and Cellular Biology*, **1986**, 6, 158-67	4.8	37
11	Structural analysis of a yeast centromere. *BioEssays*, **1986**, 4, 100-4	4.1	3
10	Characterization of a tightly centromere-linked gene essential for meiosis in the yeast Saccharomyces cerevisiae. *Basic Life Sciences*, **1985**, 36, 231-42		3
9	Chromatin conformation of yeast centromeres. *Journal of Cell Biology*, **1984**, 99, 1559-68	7.3	92
8	Effects of Steroid Hormones on Chicken Oviduct Chromatin **1983**, 17-59		1
7	Structural analysis and sequence organization of yeast centromeres. *Cold Spring Harbor Symposia on Quantitative Biology*, **1983**, 47 Pt 2, 1175-85	3.9	63
6	Yeast centromere DNA is in a unique and highly ordered structure in chromosomes and small circular minichromosomes. *Cell*, **1982**, 29, 305-17	56.2	300
5	Analysis of the complexity and frequency of zein genes in the maize genome. *Biochemistry*, **1980**, 19, 1644-50	3.2	67
4	A novel method for the two-dimensional analysis of proteins. *Analytical Biochemistry*, **1979**, 98, 410-6	3.1	2
3	Fractionation of hen oviduct chromatin into transcriptionally active and inactive regions after selective micrococcal nuclease digestion. *Cell*, **1978**, 15, 141-50	56.2	294
2	Change in size distribution of active polyribosomes associated with puff induction in Drosophila melanogaster salivary glands. *Differentiation*, **1976**, 6, 151-4	3.5	2

1	The Locomotor Activity of Fish: An Analogy to the Kinetics of an Opposed First-Order Chemical Reaction. *Transactions of the American Fisheries Society*, **1975**, 104, 752-754	1.7	11