

William Charles Earnshaw

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5837102/william-charles-earnshaw-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

281
papers

33,638
citations

96
h-index

179
g-index

359
ext. papers

36,148
ext. citations

10.4
avg, IF

7.12
L-index

#	Paper	IF	Citations
281	Mammalian caspases: structure, activation, substrates, and functions during apoptosis. <i>Annual Review of Biochemistry</i> , 1999 , 68, 383-424	29.1	2313
280	Induction of apoptosis by cancer chemotherapy. <i>Experimental Cell Research</i> , 2000 , 256, 42-9	4.2	979
279	The cellular geography of aurora kinases. <i>Nature Reviews Molecular Cell Biology</i> , 2003 , 4, 842-54	48.7	936
278	Structure and function in the nucleus. <i>Science</i> , 1998 , 280, 547-53	33.3	809
277	Identification of a family of human centromere proteins using autoimmune sera from patients with scleroderma. <i>Chromosoma</i> , 1985 , 91, 313-21	2.8	708
276	Topoisomerase II is a structural component of mitotic chromosome scaffolds. <i>Journal of Cell Biology</i> , 1985 , 100, 1706-15	7.3	675
275	Chromosomal passengers: conducting cell division. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 798-812	18.7	660
274	Two distinct pathways leading to nuclear apoptosis. <i>Journal of Experimental Medicine</i> , 2000 , 192, 571-80	16.6	606
273	The chromosomal passenger complex (CPC): from easy rider to the godfather of mitosis. <i>Nature Reviews Molecular Cell Biology</i> , 2012 , 13, 789-803	48.7	552
272	Caspases and caspase inhibitors. <i>Trends in Biochemical Sciences</i> , 1997 , 22, 388-93	10.3	469
271	Modulation of cell death by Bcl-XL through caspase interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 554-9	11.5	469
270	Chromosomal passengers and the (aurora) ABCs of mitosis. <i>Trends in Cell Biology</i> , 2001 , 11, 49-54	18.3	468
269	Studies of the lamin proteinase reveal multiple parallel biochemical pathways during apoptotic execution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 9042-6	11.5	462
268	Nuclear changes in apoptosis. <i>Current Opinion in Cell Biology</i> , 1995 , 7, 337-43	9	460
267	Localization of topoisomerase II in mitotic chromosomes. <i>Journal of Cell Biology</i> , 1985 , 100, 1716-25	7.3	432
266	Apoptotic phosphorylation of histone H2B is mediated by mammalian sterile twenty kinase. <i>Cell</i> , 2003 , 113, 507-17	56.2	406
265	Essential roles of Drosophila inner centromere protein (INCENP) and aurora B in histone H3 phosphorylation, metaphase chromosome alignment, kinetochore disjunction, and chromosome segregation. <i>Journal of Cell Biology</i> , 2001 , 153, 865-80	7.3	405

264	DNA packaging by the double-stranded DNA bacteriophages. <i>Cell</i> , 1980 , 21, 319-31	56.2	405
263	Molecular cloning of cDNA for CENP-B, the major human centromere autoantigen. <i>Journal of Cell Biology</i> , 1987 , 104, 817-29	7.3	386
262	Topoisomerase II: A specific marker for cell proliferation. <i>Journal of Cell Biology</i> , 1986 , 103, 2569-81	7.3	379
261	Differential expression of DNA topoisomerases I and II during the eukaryotic cell cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 1086-90	11.5	362
260	A pathway for mitotic chromosome formation. <i>Science</i> , 2018 , 359,	33.3	352
259	Borealin: a novel chromosomal passenger required for stability of the bipolar mitotic spindle. <i>Journal of Cell Biology</i> , 2004 , 166, 179-91	7.3	346
258	CDC27Hs colocalizes with CDC16Hs to the centrosome and mitotic spindle and is essential for the metaphase to anaphase transition. <i>Cell</i> , 1995 , 81, 261-8	56.2	331
257	CENP-C, an autoantigen in scleroderma, is a component of the human inner kinetochore plate. <i>Cell</i> , 1992 , 70, 115-25	56.2	330
256	The dynamic kinetochore-microtubule interface. <i>Journal of Cell Science</i> , 2004 , 117, 5461-77	5.3	319
255	Immunolocalization of CENP-A suggests a distinct nucleosome structure at the inner kinetochore plate of active centromeres. <i>Current Biology</i> , 1997 , 7, 901-4	6.3	307
254	Chromosomal passengers: the four-dimensional regulation of mitotic events. <i>Chromosoma</i> , 2004 , 113, 211-22	2.8	277
253	Survivin is required for stable checkpoint activation in taxol-treated HeLa cells. <i>Journal of Cell Science</i> , 2003 , 116, 2987-98	5.3	276
252	Visualization of centromere proteins CENP-B and CENP-C on a stable dicentric chromosome in cytological spreads. <i>Chromosoma</i> , 1989 , 98, 1-12	2.8	275
251	The centromere: chromatin foundation for the kinetochore machinery. <i>Developmental Cell</i> , 2014 , 30, 496-508	10.2	268
250	INCENP binds the Aurora-related kinase AIRK2 and is required to target it to chromosomes, the central spindle and cleavage furrow. <i>Current Biology</i> , 2000 , 10, 1075-8	6.3	268
249	Formation of spindle poles by dynein/dynactin-dependent transport of NuMA. <i>Journal of Cell Biology</i> , 2000 , 149, 851-62	7.3	268
248	Making the Auroras glow: regulation of Aurora A and B kinase function by interacting proteins. <i>Current Opinion in Cell Biology</i> , 2009 , 21, 796-805	9	265
247	Mutations in pericentrin cause Seckel syndrome with defective ATR-dependent DNA damage signaling. <i>Nature Genetics</i> , 2008 , 40, 232-6	36.3	258

246	Essential roles of KIF4 and its binding partner PRC1 in organized central spindle midzone formation. <i>EMBO Journal</i> , 2004 , 23, 3237-48	13	248
245	Assembly of nucleosomes: the reaction involving <i>X. laevis</i> nucleoplasmin. <i>Cell</i> , 1980 , 21, 373-83	56.2	244
244	DNA arrangement in isometric phage heads. <i>Nature</i> , 1977 , 268, 598-602	50.4	243
243	Comparison of Apoptosis in Wild-Type and Fas-Resistant Cells: Chemotherapy-Induced Apoptosis Is Not Dependent on Fas/Fas Ligand Interactions. <i>Blood</i> , 1997 , 90, 935-943	2.2	242
242	Scc1/Rad21/Mcd1 is required for sister chromatid cohesion and kinetochore function in vertebrate cells. <i>Developmental Cell</i> , 2001 , 1, 759-70	10.2	236
241	ScII: an abundant chromosome scaffold protein is a member of a family of putative ATPases with an unusual predicted tertiary structure. <i>Journal of Cell Biology</i> , 1994 , 127, 303-18	7.3	235
240	cDNA cloning of human DNA topoisomerase I: catalytic activity of a 67.7-kDa carboxyl-terminal fragment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 2543-7 ^{11.5}	11.5	232
239	Condensin is required for nonhistone protein assembly and structural integrity of vertebrate mitotic chromosomes. <i>Developmental Cell</i> , 2003 , 5, 323-36	10.2	230
238	INCENP is required for proper targeting of Survivin to the centromeres and the anaphase spindle during mitosis. <i>Current Biology</i> , 2001 , 11, 886-90	6.3	230
237	Epigenetic engineering shows H3K4me2 is required for HJURP targeting and CENP-A assembly on a synthetic human kinetochore. <i>EMBO Journal</i> , 2011 , 30, 328-40	13	226
236	Trashing the genome: the role of nucleases during apoptosis. <i>Nature Reviews Molecular Cell Biology</i> , 2005 , 6, 677-88	48.7	225
235	CENP-B: a major human centromere protein located beneath the kinetochore. <i>Journal of Cell Biology</i> , 1990 , 110, 1475-88	7.3	224
234	The protein composition of mitotic chromosomes determined using multiclassifier combinatorial proteomics. <i>Cell</i> , 2010 , 142, 810-21	56.2	217
233	Three related centromere proteins are absent from the inactive centromere of a stable isodicentric chromosome. <i>Chromosoma</i> , 1985 , 92, 290-6	2.8	216
232	Specification of kinetochore-forming chromatin by the histone H3 variant CENP-A. <i>Journal of Cell Science</i> , 2001 , 114, 3529-3542	5.3	211
231	Aurora-C kinase is a novel chromosomal passenger protein that can complement Aurora-B kinase function in mitotic cells. <i>Cytoskeleton</i> , 2004 , 59, 249-63		210
230	Inactivation of a human kinetochore by specific targeting of chromatin modifiers. <i>Developmental Cell</i> , 2008 , 14, 507-22	10.2	209
229	Chromatin-associated protein phosphatase 1 regulates aurora-B and histone H3 phosphorylation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26656-65	5.4	201

228	Chk1 is required for spindle checkpoint function. <i>Developmental Cell</i> , 2007 , 12, 247-60	10.2	197
227	Caspase-6 gene disruption reveals a requirement for lamin A cleavage in apoptotic chromatin condensation. <i>EMBO Journal</i> , 2002 , 21, 1967-77	13	197
226	Assembly of the head of bacteriophage P22: x-ray diffraction from heads, proheads and related structures. <i>Journal of Molecular Biology</i> , 1976 , 104, 387-410	6.5	187
225	Condensin and Repo-Man-PP1 co-operate in the regulation of chromosome architecture during mitosis. <i>Nature Cell Biology</i> , 2006 , 8, 1133-42	23.4	179
224	Human CLASP1 is an outer kinetochore component that regulates spindle microtubule dynamics. <i>Cell</i> , 2003 , 113, 891-904	56.2	177
223	Activation of multiple interleukin-1beta converting enzyme homologues in cytosol and nuclei of HL-60 cells during etoposide-induced apoptosis. <i>Journal of Biological Chemistry</i> , 1997 , 272, 7421-30	5.4	176
222	Nucleosome assembly. <i>Nature</i> , 1980 , 286, 763-7	50.4	175
221	Three human chromosomal autoantigens are recognized by sera from patients with anti-centromere antibodies. <i>Journal of Clinical Investigation</i> , 1986 , 77, 426-30	15.9	169
220	Chromosomal passengers: toward an integrated view of mitosis. <i>Chromosoma</i> , 1991 , 100, 139-46	2.8	168
219	INCENP centromere and spindle targeting: identification of essential conserved motifs and involvement of heterochromatin protein HP1. <i>Journal of Cell Biology</i> , 1998 , 143, 1763-74	7.3	167
218	Centrosome amplification induced by DNA damage occurs during a prolonged G2 phase and involves ATM. <i>EMBO Journal</i> , 2004 , 23, 3864-73	13	162
217	Mitotic chromatin condensation in vitro using somatic cell extracts and nuclei with variable levels of endogenous topoisomerase II. <i>Journal of Cell Biology</i> , 1990 , 111, 2839-50	7.3	162
216	A super-resolution map of the vertebrate kinetochore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10484-9	11.5	157
215	The hBUB1 and hBUBR1 kinases sequentially assemble onto kinetochores during prophase with hBUBR1 concentrating at the kinetochore plates in mitosis. <i>Chromosoma</i> , 1998 , 107, 386-96	2.8	151
214	ICE-related proteases in apoptosis. <i>Current Opinion in Genetics and Development</i> , 1996 , 6, 50-5	4.9	146
213	CENP-A is required for accurate chromosome segregation and sustained kinetochore association of BubR1. <i>Molecular and Cellular Biology</i> , 2005 , 25, 3967-81	4.8	144
212	A dominant mutant of inner centromere protein (INCENP), a chromosomal protein, disrupts prometaphase congression and cytokinesis. <i>Journal of Cell Biology</i> , 1998 , 140, 991-1002	7.3	141
211	Repo-Man coordinates chromosomal reorganization with nuclear envelope reassembly during mitotic exit. <i>Developmental Cell</i> , 2011 , 21, 328-42	10.2	139

210	Localization of CENP-E in the fibrous corona and outer plate of mammalian kinetochores from prometaphase through anaphase. <i>Chromosoma</i> , 1997 , 106, 446-55	2.8	139
209	Three distinct stages of apoptotic nuclear condensation revealed by time-lapse imaging, biochemical and electron microscopy analysis of cell-free apoptosis. <i>Experimental Cell Research</i> , 2007 , 313, 3635-44	4.2	136
208	Prognostic significance of anticentromere antibodies and anti-topoisomerase I antibodies in Raynaud's disease. A prospective study. <i>Arthritis and Rheumatism</i> , 1991 , 34, 68-77		135
207	An intrinsic S/G checkpoint enforced by ATR. <i>Science</i> , 2018 , 361, 806-810	33.3	129
206	Chromosome engineering allows the efficient isolation of vertebrate neocentromeres. <i>Developmental Cell</i> , 2013 , 24, 635-48	10.2	129
205	DNA topoisomerase II α interacts with CAD nuclease and is involved in chromatin condensation during apoptotic execution. <i>Current Biology</i> , 2000 , 10, 923-6	6.3	127
204	Chromosomal proteins and cytokinesis: patterns of cleavage furrow formation and inner centromere protein positioning in mitotic heterokaryons and mid-anaphase cells. <i>Journal of Cell Biology</i> , 1997 , 136, 1169-83	7.3	126
203	Characterization of neo-centromeres in marker chromosomes lacking detectable alpha-satellite DNA. <i>Human Molecular Genetics</i> , 1997 , 6, 1195-204	5.6	125
202	Breaking the HAC Barrier: histone H3K9 acetyl/methyl balance regulates CENP-A assembly. <i>EMBO Journal</i> , 2012 , 31, 2391-402	13	123
201	Contrasting roles of condensin I and condensin II in mitotic chromosome formation. <i>Journal of Cell Science</i> , 2012 , 125, 1591-604	5.3	121
200	CENP-I is essential for centromere function in vertebrate cells. <i>Developmental Cell</i> , 2002 , 2, 463-76	10.2	121
199	Mitotic chromosomes are compacted laterally by KIF4 and condensin and axially by topoisomerase II β . <i>Journal of Cell Biology</i> , 2012 , 199, 755-70	7.3	118
198	Comparison of Caspase Activation and Subcellular Localization in HL-60 and K562 Cells Undergoing Etoposide-Induced Apoptosis. <i>Blood</i> , 1997 , 90, 4283-4296	2.2	116
197	Transition from caspase-dependent to caspase-independent mechanisms at the onset of apoptotic execution. <i>Journal of Cell Biology</i> , 1998 , 143, 225-39	7.3	116
196	Structure of the human centromere at metaphase. <i>Trends in Biochemical Sciences</i> , 1990 , 15, 181-5	10.3	116
195	Condensin regulates the stiffness of vertebrate centromeres. <i>Molecular Biology of the Cell</i> , 2009 , 20, 2371-80	3.5	111
194	MAST/Orbit has a role in microtubule-kinetochore attachment and is essential for chromosome alignment and maintenance of spindle bipolarity. <i>Journal of Cell Biology</i> , 2002 , 157, 749-60	7.3	111
193	Condensin I interacts with the PARP-1-XRCC1 complex and functions in DNA single-strand break repair. <i>Molecular Cell</i> , 2006 , 21, 837-48	17.6	110

192	Ki-67 is a PP1-interacting protein that organises the mitotic chromosome periphery. <i>ELife</i> , 2014 , 3, e016419	4.1	110
191	Condensin: Architect of mitotic chromosomes. <i>Chromosome Research</i> , 2009 , 17, 131-44	4.4	109
190	INCENP and Aurora B promote meiotic sister chromatid cohesion through localization of the Shugoshin MEI-S332 in <i>Drosophila</i> . <i>Developmental Cell</i> , 2006 , 11, 57-68	10.2	107
189	Aurora-B phosphorylation in vitro identifies a residue of survivin that is essential for its localization and binding to inner centromere protein (INCENP) in vivo. <i>Journal of Biological Chemistry</i> , 2004 , 279, 5655-60	5.4	105
188	Anti-topoisomerase II recognizes meiotic chromosome cores. <i>Chromosoma</i> , 1989 , 98, 317-22	2.8	105
187	Transmission of a fully functional human neocentromere through three generations. <i>American Journal of Human Genetics</i> , 1999 , 64, 1440-4	11	101
186	Structure of phage P22 coat protein aggregates formed in the absence of the scaffolding protein. <i>Journal of Molecular Biology</i> , 1978 , 126, 721-47	6.5	101
185	The structure and dynamics of ring chromosomes in human neoplastic and non-neoplastic cells. <i>Human Genetics</i> , 1999 , 104, 315-25	6.3	94
184	Granzyme B/perforin-mediated apoptosis of Jurkat cells results in cleavage of poly(ADP-ribose) polymerase to the 89-kDa apoptotic fragment and less abundant 64-kDa fragment. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 227, 658-65	3.4	92
183	Mammalian CLASP1 and CLASP2 cooperate to ensure mitotic fidelity by regulating spindle and kinetochore function. <i>Molecular Biology of the Cell</i> , 2006 , 17, 4526-42	3.5	90
182	Co-localization of centromere activity, proteins and topoisomerase II within a subdomain of the major human X alpha-satellite array. <i>EMBO Journal</i> , 2002 , 21, 5269-80	13	89
181	Human INCENP colocalizes with the Aurora-B/AIRK2 kinase on chromosomes and is overexpressed in tumour cells. <i>Chromosoma</i> , 2001 , 110, 65-74	2.8	89
180	Functional complementation of a genetic deficiency with human artificial chromosomes. <i>American Journal of Human Genetics</i> , 2001 , 69, 315-26	11	88
179	Disruption of centromere assembly during interphase inhibits kinetochore morphogenesis and function in mitosis. <i>Cell</i> , 1991 , 66, 1229-38	56.2	88
178	CAD/DFF40 nuclease is dispensable for high molecular weight DNA cleavage and stage I chromatin condensation in apoptosis. <i>Journal of Biological Chemistry</i> , 2001 , 276, 45427-32	5.4	87
177	Caspase-mediated cleavage of DNA topoisomerase I at unconventional sites during apoptosis. <i>Journal of Biological Chemistry</i> , 1999 , 274, 4335-40	5.4	87
176	The SMC proteins and the coming of age of the chromosome scaffold hypothesis. <i>BioEssays</i> , 1995 , 17, 759-66	4.1	86
175	Vertebrate cells genetically deficient for Cdc14A or Cdc14B retain DNA damage checkpoint proficiency but are impaired in DNA repair. <i>Journal of Cell Biology</i> , 2010 , 189, 631-9	7.3	84

174	The chromosomal passenger complex activates Polo kinase at centromeres. <i>PLoS Biology</i> , 2012 , 10, e1001750	9.7	84
173	Untangling the role of DNA topoisomerase II in mitotic chromosome structure and function. <i>BioEssays</i> , 1997 , 19, 97-9	4.1	83
172	Deconstructing Survivin: comprehensive genetic analysis of Survivin function by conditional knockout in a vertebrate cell line. <i>Journal of Cell Biology</i> , 2008 , 183, 279-96	7.3	83
171	Apoptosis: lessons from in vitro systems. <i>Trends in Cell Biology</i> , 1995 , 5, 217-20	18.3	82
170	Epigenetic engineering: histone H3K9 acetylation is compatible with kinetochore structure and function. <i>Journal of Cell Science</i> , 2012 , 125, 411-21	5.3	80
169	Histone H4 Lys 20 monomethylation of the CENP-A nucleosome is essential for kinetochore assembly. <i>Developmental Cell</i> , 2014 , 29, 740-9	10.2	77
168	The chromosomal passenger complex: one for all and all for one. <i>Cell</i> , 2007 , 131, 230-1	56.2	75
167	Further evidence that CENP-C is a necessary component of active centromeres: studies of a dic(X; 15) with simultaneous immunofluorescence and FISH. <i>Human Molecular Genetics</i> , 1995 , 4, 289-94	5.6	75
166	Role of nonhistone proteins in the chromosomal events of mitosis. <i>FASEB Journal</i> , 1994 , 8, 947-56	0.9	75
165	Sgt1 is required for human kinetochore assembly. <i>EMBO Reports</i> , 2004 , 5, 626-31	6.5	71
164	Cleavage furrows formed between centrosomes lacking an intervening spindle and chromosomes contain microtubule bundles, INCENP, and CHO1 but not CENP-E. <i>Molecular Biology of the Cell</i> , 1999 , 10, 297-311	3.5	71
163	RNAi analysis reveals an unexpected role for topoisomerase II in chromosome arm congression to a metaphase plate. <i>Journal of Cell Science</i> , 2003 , 116, 4715-26	5.3	69
162	Efficiency of de novo centromere formation in human artificial chromosomes. <i>Genomics</i> , 2002 , 79, 297-304	4.5	68
161	Comparison of paclitaxel-, 5-fluoro-2Rdeoxyuridine-, and epidermal growth factor (EGF)-induced apoptosis. Evidence for EGF-induced anoikis. <i>Journal of Biological Chemistry</i> , 1999 , 274, 15927-36	5.4	68
160	INCENP binds directly to tubulin and requires dynamic microtubules to target to the cleavage furrow. <i>Experimental Cell Research</i> , 2001 , 262, 122-7	4.2	67
159	KAT7/HBO1/MYST2 Regulates CENP-A Chromatin Assembly by Antagonizing Suv39h1-Mediated Centromere Inactivation. <i>Developmental Cell</i> , 2016 , 37, 413-27	10.2	65
158	Hierarchical inactivation of a synthetic human kinetochore by a chromatin modifier. <i>Molecular Biology of the Cell</i> , 2009 , 20, 4194-204	3.5	64
157	Analysis of Scc1-deficient cells defines a key metaphase role of vertebrate cohesin in linking sister kinetochores. <i>EMBO Reports</i> , 2004 , 5, 167-71	6.5	64

156	Apoptosis-associated caspase activation assays. <i>Methods</i> , 2008 , 44, 262-72	4.6	63
155	Aurora B Overexpression Causes Aneuploidy and p21Cip1 Repression during Tumor Development. <i>Molecular and Cellular Biology</i> , 2015 , 35, 3566-78	4.8	62
154	Kinetochores localisation of the DNA damage response component 53BP1 during mitosis. <i>Journal of Cell Science</i> , 2002 , 115, 71-79	5.3	62
153	Dynamic relocalization of the chromosomal passenger complex proteins inner centromere protein (INCENP) and aurora-B kinase during male mouse meiosis. <i>Journal of Cell Science</i> , 2003 , 116, 961-74	5.3	61
152	3D-CLEM Reveals that a Major Portion of Mitotic Chromosomes Is Not Chromatin. <i>Molecular Cell</i> , 2016 , 64, 790-802	17.6	60
151	INCENP-aurora B interactions modulate kinase activity and chromosome passenger complex localization. <i>Journal of Cell Biology</i> , 2009 , 187, 637-53	7.3	58
150	Human artificial chromosome (HAC) vector with a conditional centromere for correction of genetic deficiencies in human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20048-53	11.5	58
149	CrmA/SPI-2 inhibition of an endogenous ICE-related protease responsible for lamin A cleavage and apoptotic nuclear fragmentation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 32487-90	5.4	58
148	Proteomic analysis of human metaphase chromosomes reveals topoisomerase II alpha as an Aurora B substrate. <i>Nucleic Acids Research</i> , 2002 , 30, 5318-27	20.1	58
147	A new generation of human artificial chromosomes for functional genomics and gene therapy. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 1135-48	10.3	57
146	Mitotic chromosome formation and the condensin paradox. <i>Experimental Cell Research</i> , 2004 , 296, 35-42	4.2	57
145	Characterization of caspase processing and activation in HL-60 cell cytosol under cell-free conditions. Nucleotide requirement and inhibitor profile. <i>Journal of Biological Chemistry</i> , 1999 , 274, 22635-45	5.4	57
144	Lack of correlation between caspase activation and caspase activity assays in paclitaxel-treated MCF-7 breast cancer cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 804-15	5.4	55
143	SUMOylation modulates the function of Aurora-B kinase. <i>Journal of Cell Science</i> , 2010 , 123, 2823-33	5.3	54
142	Epigenetic engineering reveals a balance between histone modifications and transcription in kinetochores maintenance. <i>Nature Communications</i> , 2016 , 7, 13334	17.4	52
141	Condensin I associates with structural and gene regulatory regions in vertebrate chromosomes. <i>Nature Communications</i> , 2013 , 4, 2537	17.4	51
140	Human artificial chromosome with a conditional centromere for gene delivery and gene expression. <i>DNA Research</i> , 2010 , 17, 293-301	4.5	51
139	Novel components of human mitotic chromosomes identified by proteomic analysis of the chromosome scaffold fraction. <i>Chromosoma</i> , 2005 , 113, 385-97	2.8	51

138	Molecular and genetic analysis of condensin function in vertebrate cells. <i>Molecular Biology of the Cell</i> , 2008 , 19, 3070-9	3.5	50
137	Mitotic chromosome structure. <i>BioEssays</i> , 1988 , 9, 147-50	4.1	50
136	CENP-C binds the alpha-satellite DNA in vivo at specific centromere domains. <i>Journal of Cell Science</i> , 2002 , 115, 2317-2327	5.3	50
135	Human artificial chromosome-based gene delivery vectors for biomedicine and biotechnology. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 517-35	8	49
134	Silver staining the chromosome scaffold. <i>Chromosoma</i> , 1984 , 89, 186-92	2.8	49
133	Dual roles of Incenp crucial to the assembly of the acentrosomal metaphase spindle in female meiosis. <i>Development (Cambridge)</i> , 2008 , 135, 3239-46	6.6	48
132	ICAD/DFP regulator of apoptotic nuclease is nuclear. <i>Experimental Cell Research</i> , 1998 , 243, 453-9	4.2	48
131	Phosphorylated Forms of Activated Caspases Are Present in Cytosol From HL-60 Cells During Etoposide-Induced Apoptosis. <i>Blood</i> , 1998 , 92, 3042-3049	2.2	48
130	Differential localization of ICAD-L and ICAD-S in cells due to removal of a C-terminal NLS from ICAD-L by alternative splicing. <i>Experimental Cell Research</i> , 2000 , 255, 314-20	4.2	47
129	The Inner Centromere Protein (INCENP) Coil Is a Single α -Helix (SAH) Domain That Binds Directly to Microtubules and Is Important for Chromosome Passenger Complex (CPC) Localization and Function in Mitosis. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21460-72	5.4	46
128	Three-dimensional topology of the SMC2/SMC4 subcomplex from chicken condensin I revealed by cross-linking and molecular modelling. <i>Open Biology</i> , 2015 , 5, 150005	7	42
127	CENP-C and CENP-I are key connecting factors for kinetochore and CENP-A assembly. <i>Journal of Cell Science</i> , 2015 , 128, 4572-87	5.3	42
126	Use of molecular cloning methods to map the distribution of epitopes on topoisomerase I (Scl-70) recognized by sera of scleroderma patients. <i>Arthritis and Rheumatism</i> , 1990 , 33, 1501-11		42
125	Super-resolution fluorescence microscopy as a tool to study the nanoscale organization of chromosomes. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 838-44	9.7	41
124	Survival and proliferation of cells expressing caspase-uncleavable Poly(ADP-ribose) polymerase in response to death-inducing DNA damage by an alkylating agent. <i>Journal of Biological Chemistry</i> , 1999 , 274, 37097-104	5.4	39
123	A DHODH inhibitor increases p53 synthesis and enhances tumor cell killing by p53 degradation blockage. <i>Nature Communications</i> , 2018 , 9, 1107	17.4	38
122	Discovering centromere proteins: from cold white hands to the A, B, C of CENPs. <i>Nature Reviews Molecular Cell Biology</i> , 2015 , 16, 443-9	48.7	38
121	Organization of synthetic alphoid DNA array in human artificial chromosome (HAC) with a conditional centromere. <i>ACS Synthetic Biology</i> , 2012 , 1, 590-601	5.7	38

120	Detection of DNA cleavage in apoptotic cells. <i>Methods in Enzymology</i> , 2000 , 322, 3-15	1.7	38
119	Autoantibodies to topoisomerase I (Scl-70): analysis by gel diffusion, immunoblot, and enzyme-linked immunosorbent assay. <i>Clinical Immunology and Immunopathology</i> , 1990 , 57, 399-410		38
118	Reverse genetics of essential genes in tissue-culture cells: Head cells talking <i>Trends in Cell Biology</i> , 2002 , 12, 281-7	18.3	37
117	Ki-67 and the Chromosome Periphery Compartment in Mitosis. <i>Trends in Cell Biology</i> , 2017 , 27, 906-916	18.3	35
116	HACKing the centromere chromatin code: insights from human artificial chromosomes. <i>Chromosome Research</i> , 2012 , 20, 505-19	4.4	35
115	Centromeric inactivation in a dicentric human Y;21 translocation chromosome. <i>Chromosoma</i> , 1997 , 106, 199-206	2.8	35
114	Centromere and kinetochore structure. <i>Current Opinion in Cell Biology</i> , 1992 , 4, 86-93	9	35
113	Inhibition of ICE-related proteases (caspases) and nuclear apoptosis by phenylarsine oxide. <i>Experimental Cell Research</i> , 1997 , 231, 123-31	4.2	34
112	The IgG, IgM, and IgA isotypes of anti-topoisomerase I and anticentromere autoantibodies. <i>Arthritis and Rheumatism</i> , 1990 , 33, 724-7		34
111	Whole-proteome genetic analysis of dependencies in assembly of a vertebrate kinetochore. <i>Journal of Cell Biology</i> , 2015 , 211, 1141-56	7.3	33
110	Dissecting mitosis by RNAi in Drosophila tissue culture cells. <i>Biological Procedures Online</i> , 2003 , 5, 153-161	6.3	32
109	Human autoantibody to topoisomerase II. <i>Experimental Cell Research</i> , 1989 , 180, 409-18	4.2	32
108	Two Interlinked Bistable Switches Govern Mitotic Control in Mammalian Cells. <i>Current Biology</i> , 2018 , 28, 3824-3832.e6	6.3	32
107	Replication of alpha-satellite DNA arrays in endogenous human centromeric regions and in human artificial chromosome. <i>Nucleic Acids Research</i> , 2014 , 42, 11502-16	20.1	31
106	Building mitotic chromosomes. <i>Current Opinion in Cell Biology</i> , 2011 , 23, 114-21	9	31
105	Caspase-7 gene disruption reveals an involvement of the enzyme during the early stages of apoptosis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 1030-9	5.4	31
104	In vivo functional dissection of human inner kinetochore protein CENP-C. <i>Journal of Structural Biology</i> , 2002 , 140, 39-48	3.4	31
103	Structural studies of bacteriophage lambda heads and proheads by small angle X-ray diffraction. <i>Journal of Molecular Biology</i> , 1979 , 134, 575-94	6.5	31

102	TD-60 links RalA GTPase function to the CPC in mitosis. <i>Nature Communications</i> , 2015 , 6, 7678	17.4	30
101	Molecular basis for Cdk1-regulated timing of Mis18 complex assembly and CENP-A deposition. <i>EMBO Reports</i> , 2017 , 18, 894-905	6.5	29
100	A new assay for measuring chromosome instability (CIN) and identification of drugs that elevate CIN in cancer cells. <i>BMC Cancer</i> , 2013 , 13, 252	4.8	29
99	Vascular smooth muscle cell polyploidization involves changes in chromosome passenger proteins and an endomitotic cell cycle. <i>Experimental Cell Research</i> , 2005 , 305, 277-91	4.2	29
98	Specific interaction between human kinetochore protein CENP-C and a nucleolar transcriptional regulator. <i>Journal of Biological Chemistry</i> , 1996 , 271, 18767-74	5.4	29
97	Anticentromere autoantibodies. Evaluation of an ELISA using recombinant fusion protein CENP-B as antigen. <i>Arthritis and Rheumatism</i> , 1994 , 37, 248-52		29
96	Large scale chromosome structure and organization: Current opinion in structural biology 1991, 1: 237-244. <i>Current Opinion in Structural Biology</i> , 1991 , 1, 237-244	8.1	28
95	Mitotic post-translational modifications of histones promote chromatin compaction. <i>Open Biology</i> , 2017 , 7,	7	27
94	Proteins of the inner and outer centromere of mitotic chromosomes. <i>Genome</i> , 1989 , 31, 541-52	2.4	27
93	A portable BRCA1-HAC (human artificial chromosome) module for analysis of BRCA1 tumor suppressor function. <i>Nucleic Acids Research</i> , 2014 , 42,	20.1	26
92	HP1 targets the chromosomal passenger complex for activation at heterochromatin before mitotic entry. <i>EMBO Journal</i> , 2018 , 37,	13	25
91	The Dawn of Aurora Kinase Research: From Fly Genetics to the Clinic. <i>Frontiers in Cell and Developmental Biology</i> , 2015 , 3, 73	5.7	25
90	Longitudinal study of anticentromere and antitopoisomerase-I isotypes. <i>Clinical Immunology and Immunopathology</i> , 1995 , 74, 257-70		25
89	The size of the bacteriophage T4 head in solution with comments about the dimension of virus particles as visualized by electron microscopy. <i>Journal of Molecular Biology</i> , 1978 , 122, 247-53	6.5	25
88	Genetic and epigenetic regulation of centromeres: a look at HAC formation. <i>Chromosome Research</i> , 2015 , 23, 87-103	4.4	24
87	Functional analysis after rapid degradation of condensins and 3D-EM reveals chromatin volume is uncoupled from chromosome architecture in mitosis. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	24
86	Repo-Man-PP1: a link between chromatin remodelling and nuclear envelope reassembly. <i>Nucleus</i> , 2012 , 3, 138-42	3.9	24
85	Auxin-induced rapid degradation of inhibitor of caspase-activated DNase (ICAD) induces apoptotic DNA fragmentation, caspase activation, and cell death: a cell suicide module. <i>Journal of Biological Chemistry</i> , 2014 , 289, 31617-23	5.4	23

84	CENP-V is required for centromere organization, chromosome alignment and cytokinesis. <i>EMBO Journal</i> , 2008 , 27, 2510-22	13	22
83	Epigenetic engineering shows that a human centromere resists silencing mediated by H3K27me3/K9me3. <i>Molecular Biology of the Cell</i> , 2016 , 27, 177-96	3.5	21
82	Gradient of increasing Aurora B kinase activity is required for cells to execute mitosis. <i>Journal of Biological Chemistry</i> , 2010 , 285, 40163-70	5.4	21
81	Development of a novel HAC-based "gain of signal" quantitative assay for measuring chromosome instability (CIN) in cancer cells. <i>Oncotarget</i> , 2016 , 7, 14841-56	3.3	21
80	Protecting a transgene expression from the HAC-based vector by different chromatin insulators. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 3723-37	10.3	20
79	Targeting the INCENP IN-box-Aurora B interaction to inhibit CPC activity in vivo. <i>Open Biology</i> , 2014 , 4, 140163	7	20
78	INCENP loss from an inactive centromere correlates with the loss of sister chromatid cohesion. <i>Chromosoma</i> , 2001 , 110, 393-401	2.8	20
77	A promoter-hijack strategy for conditional shutdown of multiply spliced essential cell cycle genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 2457-62	11.5	19
76	How do kinetochores CLASP dynamic microtubules?. <i>Cell Cycle</i> , 2003 , 2, 511-4	4.7	19
75	p150TSP, a conserved nuclear phosphoprotein that contains multiple tetratricopeptide repeats and binds specifically to SH2 domains. <i>Journal of Biological Chemistry</i> , 1996 , 271, 6952-62	5.4	19
74	A neocentromere in the DAZ region of the human Y chromosome. <i>Chromosoma</i> , 2000 , 109, 318-27	2.8	18
73	Comparison of Apoptosis in Wild-Type and Fas-Resistant Cells: Chemotherapy-Induced Apoptosis Is Not Dependent on Fas/Fas Ligand Interactions. <i>Blood</i> , 1997 , 90, 935-943	2.2	18
72	Auxin/AID versus conventional knockouts: distinguishing the roles of CENP-T/W in mitotic kinetochore assembly and stability. <i>Open Biology</i> , 2016 , 6, 150230	7	17
71	Nap1 regulates proper CENP-B binding to nucleosomes. <i>Nucleic Acids Research</i> , 2013 , 41, 2869-80	20.1	17
70	Human Artificial Chromosome with Regulated Centromere: A Tool for Genome and Cancer Studies. <i>ACS Synthetic Biology</i> , 2018 , 7, 1974-1989	5.7	16
69	Using human artificial chromosomes to study centromere assembly and function. <i>Chromosoma</i> , 2017 , 126, 559-575	2.8	16
68	Drosophila Incenp is required for cytokinesis and asymmetric cell division during development of the nervous system. <i>Journal of Cell Science</i> , 2006 , 119, 1144-53	5.3	16
67	Mitosis. <i>BioEssays</i> , 1994 , 16, 639-43	4.1	16

66	Proteomics Analysis with a Nano Random Forest Approach Reveals Novel Functional Interactions Regulated by SMC Complexes on Mitotic Chromosomes. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 2802-18	7.6	16
65	Systematic Analysis of Compounds Specifically Targeting Telomeres and Telomerase for Clinical Implications in Cancer Therapy. <i>Cancer Research</i> , 2018 , 78, 6282-6296	10.1	16
64	CENP-B creates alternative epigenetic chromatin states permissive for CENP-A or heterochromatin assembly. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	15
63	Borealin-nucleosome interaction secures chromosome association of the chromosomal passenger complex. <i>Journal of Cell Biology</i> , 2019 , 218, 3912-3925	7.3	15
62	Mio depletion links mTOR regulation to Aurora A and Plk1 activation at mitotic centrosomes. <i>Journal of Cell Biology</i> , 2015 , 210, 45-62	7.3	14
61	Mps1 Phosphorylates Its N-Terminal Extension to Relieve Autoinhibition and Activate the Spindle Assembly Checkpoint. <i>Current Biology</i> , 2018 , 28, 872-883.e5	6.3	14
60	Re-engineering an alphoid(tetO)-HAC-based vector to enable high-throughput analyses of gene function. <i>Nucleic Acids Research</i> , 2013 , 41, e107	20.1	14
59	De novo formation and epigenetic maintenance of centromere chromatin. <i>Current Opinion in Cell Biology</i> , 2019 , 58, 15-25	9	14
58	Neocentromeres. <i>Current Biology</i> , 2014 , 24, R946-7	6.3	13
57	Death receptor-induced apoptosis reveals a novel interplay between the chromosomal passenger complex and CENP-C during interphase. <i>Molecular Biology of the Cell</i> , 2007 , 18, 1337-47	3.5	13
56	Isotype analysis of the anti-CENP-B antacentromere autoantibody: evidence for restricted clonality. <i>Arthritis and Rheumatism</i> , 1989 , 32, 1315-8		13
55	Method to Assemble Genomic DNA Fragments or Genes on Human Artificial Chromosome with Regulated Kinetochores Using a Multi-Integrase System. <i>ACS Synthetic Biology</i> , 2018 , 7, 63-74	5.7	13
54	Generation of a conditionally self-eliminating HAC gene delivery vector through incorporation of a tTAVP64 expression cassette. <i>Nucleic Acids Research</i> , 2015 , 43, e57	20.1	12
53	Acetylation of core histones in response to HDAC inhibitors is diminished in mitotic HeLa cells. <i>Experimental Cell Research</i> , 2010 , 316, 2123-35	4.2	12
52	Phosphorylated Forms of Activated Caspases Are Present in Cytosol From HL-60 Cells During Etoposide-Induced Apoptosis. <i>Blood</i> , 1998 , 92, 3042-3049	2.2	12
51	Generation of a Synthetic Human Chromosome with Two Centromeric Domains for Advanced Epigenetic Engineering Studies. <i>ACS Synthetic Biology</i> , 2018 , 7, 1116-1130	5.7	11
50	Reed-Sternberg cells form by abscission failure in the presence of functional Aurora B kinase. <i>PLoS ONE</i> , 2015 , 10, e0124629	3.7	11
49	Common Fragile Sites Are Characterized by Faulty Condensin Loading after Replication Stress. <i>Cell Reports</i> , 2020 , 32, 108177	10.6	11

48	Stepwise unfolding supports a subunit model for vertebrate kinetochores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3133-3138	11.5	10
47	Polo kinase regulates the localization and activity of the chromosomal passenger complex in meiosis and mitosis in <i>Drosophila melanogaster</i> . <i>Open Biology</i> , 2014 , 4, 140162	7	10
46	Genetic analysis of the short splice variant of the inhibitor of caspase-activated DNase (ICAD-S) in chicken DT40 cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 27374-27382	5.4	10
45	Autoantibodies against the chromosomal passenger protein INCENP found in a patient with Graham Little-Piccardi-Lassueur syndrome. <i>Journal of Autoimmune Diseases</i> , 2007 , 4, 1		10
44	Two differentially spliced forms of topoisomerase IIalpha and beta mRNAs are conserved between birds and humans. <i>Gene</i> , 2000 , 258, 183-92	3.8	10
43	Dark bleaching of rhodopsin by organic mercurial. <i>FEBS Letters</i> , 1973 , 34, 137-9	3.8	10
42	PREditOR: a synthetic biology approach to removing heterochromatin from cells. <i>Chromosome Research</i> , 2016 , 24, 495-509	4.4	10
41	Mitotic chromosomes. <i>Seminars in Cell and Developmental Biology</i> , 2021 , 117, 7-29	7.5	10
40	Nano Random Forests to mine protein complexes and their relationships in quantitative proteomics data. <i>Molecular Biology of the Cell</i> , 2017 , 28, 673-680	3.5	9
39	In vitro BioID: mapping the CENP-A microenvironment with high temporal and spatial resolution. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1314-1325	3.5	9
38	Shugoshin: a centromeric guardian senses tension. <i>BioEssays</i> , 2005 , 27, 588-91	4.1	9
37	Disruption of CENP antigen function perturbs dynein anchoring to the mitotic kinetochore. <i>Chromosoma</i> , 1996 , 104, 551-60	2.8	9
36	Seh1 targets GATOR2 and Nup153 to mitotic chromosomes. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	8
35	Synthesis of novel caspase inhibitors for characterization of the active caspase proteome in vitro and in vivo. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 7636-45	8.3	8
34	Cell biology. Keeping survivin nimble at centromeres in mitosis. <i>Science</i> , 2005 , 310, 1443-4	33.3	8
33	DNA content of a functioning chicken kinetochore. <i>Chromosome Research</i> , 2014 , 22, 7-13	4.4	7
32	Purification of the death substrate poly(ADP-ribose) polymerase. <i>Analytical Biochemistry</i> , 1997 , 249, 106-8	3.1	7
31	H3K9me3 maintenance on a human artificial chromosome is required for segregation but not centromere epigenetic memory. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	6

30	Effects of full-length borealin on the composition and protein-protein interaction activity of a binary chromosomal passenger complex. <i>Biochemistry</i> , 2009 , 48, 1156-61	3.2	6
29	Identification and analysis of caspase substrates: proteolytic cleavage of poly(ADP-ribose)polymerase and DNA fragmentation factor 45. <i>Methods in Cell Biology</i> , 2001 , 66, 289-306 ^{1,8}		6
28	Analysis of caspase activation during apoptosis. <i>Current Protocols in Cell Biology</i> , 2001 , Chapter 18, Unit 18.2	2.3	6
27	A novel assay to screen siRNA libraries identifies protein kinases required for chromosome transmission. <i>Genome Research</i> , 2019 , 29, 1719-1732	9.7	5
26	CENP-32 is required to maintain centrosomal dominance in bipolar spindle assembly. <i>Molecular Biology of the Cell</i> , 2015 , 26, 1225-37	3.5	5
25	CENP-A and the CENP nomenclature: response to Talbert and Henikoff. <i>Trends in Genetics</i> , 2013 , 29, 500-2	8.5	5
24	Deducing protein function by forensic integrative cell biology. <i>PLoS Biology</i> , 2013 , 11, e1001742	9.7	5
23	Mitotic chromosomes fold by condensin-dependent helical winding of chromatin loop arrays		5
22	Idiotypic analysis of human anticentromere autoantibodies. <i>Autoimmunity</i> , 1991 , 9, 131-40	3	4
21	Idiotypic analysis of human anti-topoisomerase I autoantibodies. <i>Autoimmunity</i> , 1991 , 10, 41-8	3	4
20	Comparison of Caspase Activation and Subcellular Localization in HL-60 and K562 Cells Undergoing Etoposide-Induced Apoptosis. <i>Blood</i> , 1997 , 90, 4283-4296	2.2	4
19	Structure of the mammalian centromere 1993 , 13-29		4
18	Chromosomal passengers. <i>Current Biology</i> , 2001 , 11, R683	6.3	3
17	Use of Mass Spectrometry to Study the Centromere and Kinetochore. <i>Progress in Molecular and Subcellular Biology</i> , 2017 , 56, 3-27	3	3
16	The intrinsically disorderly story of Ki-67. <i>Open Biology</i> , 2021 , 11, 210120	7	3
15	Isolation of mitotic chromosomes from vertebrate cells and characterization of their proteome by mass spectrometry. <i>Methods in Cell Biology</i> , 2018 , 144, 329-348	1.8	2
14	Panspecies small-molecule disruptors of heterochromatin-mediated transcriptional gene silencing. <i>Molecular and Cellular Biology</i> , 2015 , 35, 662-74	4.8	2
13	In vitro systems for the study of apoptosis. <i>Advances in Pharmacology</i> , 1997 , 41, 89-106	5.7	2

12	A perfect funeral with no corpse. <i>Journal of Cell Biology</i> , 2003 , 160, 989-90	7.3	2
11	APC/C is required for the termination of chromosomal passenger complex activity upon mitotic exit. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	2
10	Analysis of Complex DNA Rearrangements during Early Stages of HAC Formation. <i>ACS Synthetic Biology</i> , 2020 , 9, 3267-3287	5.7	1
9	Centromeres 2014 ,		1
8	Use of DT40 conditional-knockout cell lines to study chromosomal passenger protein function. <i>Biochemical Society Transactions</i> , 2010 , 38, 1655-9	5.1	1
7	Role of caspases in apoptotic execution. <i>Biology of the Cell</i> , 1999 , 91, 541-542	3.5	1
6	Mapping the invisible chromatin transactions of prophase chromosome remodeling.. <i>Molecular Cell</i> , 2022 ,	17.6	1
5	Common fragile sites are characterised by faulty condensin loading after replication stress		1
4	Terpyridine platinum compounds induce telomere dysfunction and chromosome instability in cancer cells. <i>Oncotarget</i> , 2021 , 12, 1444-1456	3.3	0
3	The incenps: Chromosomal proteins with an essential cytoskeletal role during mitosis. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1993 , 51, 78-79		
2	Mitotic Chromosome Structure: An Update, December 1984 1985 , 55-75		
1	Disruption of CENP antigen function perturbs dynein anchoring to the mitotic kinetochore. <i>Chromosoma</i> , 1996 , 104, 551-560	2.8	