Duane A Compton

List of Publications by Year
in descending order

82 papers	7,873 citations	47 h-index	78 g-index
		47006	66911
120 all docs	120 docs citations	120 times ranked	7221 citing authors

#	Article	IF	Citations
1	Mechanisms of Chromosomal Instability. Current Biology, 2010, 20, R285-R295.	3.9	480
2	Examining the link between chromosomal instability and aneuploidy in human cells. Journal of Cell Biology, 2008, 180, 665-672.	5.2	435
3	Proliferation of aneuploid human cells is limited by a p53-dependent mechanism. Journal of Cell Biology, 2010, 188, 369-381.	5.2	401
4	Genome stability is ensured by temporal control of kinetochoreâ€“microtubule dynamics. Nature Cell Biology, 2009, 11, 27-35.	10.3	398
5	The Kinesin-Related Protein, Hset, Opposes the Activity of Eg5 and Cross-Links Microtubules in the Mammalian Mitotic Spindle. Journal of Cell Biology, 1999, 147, 351-366.	5.2	308
6	Deviant Kinetochore Microtubule Dynamics Underlie Chromosomal Instability. Current Biology, 2009, 19, 1937-1942.	3.9	303
7	Spindle Assembly in Animal Cells. Annual Review of Biochemistry, 2000, 69, 95-114.	11.1	255
8	Chromosome missegregation in human cells arises through specific types of kinetochoreâ€“microtubule attachment errors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17974-17978.	7.1	224
9	Molecular Correlates of Primate Nuclear Transfer Failures. Science, 2003, 300, 297-297.	12.6	220
10	Chromosomal instability and cancer: a complex relationship with therapeutic potential. Journal of Clinical Investigation, 2012, 122, 1138-1143.	8.2	217
11	The KinI kinesin Kif2a is required for bipolar spindle assembly through a functional relationship with MCAK. Journal of Cell Biology, 2004, 166, 473-478.	5.2	213
12	The chromokinesin Kid is necessary for chromosome arm orientation and oscillation, but not congression, on mitotic spindles. Journal of Cell Biology, 2001, 154, 1135-1146.	5.2	202
13	Mitotic Spindle Poles are Organized by Structural and Motor Proteins in Addition to Centrosomes. Journal of Cell Biology, 1997, 138, 1055-1066.	5.2	198
14	The Kinesin-13 Proteins Kif2a, Kif2b, and Kif2c/MCAK Have Distinct Roles during Mitosis in Human Cells. Molecular Biology of the Cell, 2007, 18, 2970-2979.	2.1	198
15	Efficient Mitosis in Human Cells Lacking Poleward Microtubule Flux. Current Biology, 2005, 15, 1827-1832.	3.9	197
16	Minus-end capture of preformed kinetochore fibers contributes to spindle morphogenesis. Journal of Cell Biology, 2003, 160, 671-683.	5.2	190
17	Regulation of kinetochoreâ€“microtubule attachments through homeostatic control during mitosis. Nature Reviews Molecular Cell Biology, 2015, 16, 57-64.	37.0	141
18	LGN Blocks the Ability of NuMA to Bind and Stabilize Microtubules. Current Biology, 2002, 12, 1928-1933.	3.9	134

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19	DNA-Damage Response during Mitosis Induces Whole-Chromosome Missegregation. Cancer Discovery, 2014, 4, 1281-1289.	9.4	129
20	hTPX2 Is Required for Normal Spindle Morphology and Centrosome Integrity during Vertebrate Cell Division. Current Biology, 2002, 12, 2055-2059.	3.9	128
21	Chromosomes and cancer cells. Chromosome Research, 2011, 19, 433-444.	2.2	124
22	CLASP1, astrin and Kif2b form a molecular switch that regulates kinetochore-microtubule dynamics to promote mitotic progression and fidelity. EMBO Journal, 2010, 29, 3531-3543.	7.8	123
23	Motor-Independent Targeting of CLASPs to Kinetochores by CENP-E Promotes Microtubule Turnover and Poleward Flux. Current Biology, 2009, 19, 1566-1572.	3.9	120
24	Cyclin A regulates kinetochore microtubules to promote faithful chromosome segregation. Nature, 2013, 502, 110-113.	27.8	119
25	Chromosome Movement in Mitosis Requires Microtubule Anchorage at Spindle Poles. Journal of Cell Biology, 2001, 152, 425-434.	5.2	115
26	The mitotic origin of chromosomal instability. Current Biology, 2014, 24, R148-R149.	3.9	110
27	Embryogenesis and blastocyst development after somatic cell nuclear transfer in nonhuman primates: overcoming defects caused by meiotic spindle extraction. Developmental Biology, 2004, 276, 237-252.	2.0	105
28	Chromosomal Instability Substantiates Poor Prognosis in Patients with Diffuse Large B-cell Lymphoma. Clinical Cancer Research, 2011, 17, 7704-7711.	7.0	92
29	NuMA, a nuclear protein involved in mitosis and nuclear reformation. Current Opinion in Cell Biology, 1994, 6, 343-346.	5.4	88
30	Searching for the middle ground. Journal of Cell Biology, 2002, 157, 551-556.	5.2	88
31	Mechanisms of aneuploidy. Current Opinion in Cell Biology, 2011, 23, 109-113.	5.4	83
32	Cdk1 and Plk1 mediate a CLASP2 phospho-switch that stabilizes kinetochoreâ€“microtubule attachments. Journal of Cell Biology, 2012, 199, 285-301.	5.2	80
33	NuMA is a component of an insoluble matrix at mitotic spindle poles. Cytoskeleton, 1999, 42, 189-203.	4.4	76
34	Checkpoint-Independent Stabilization of Kinetochore-Microtubule Attachments by Mad2 in Human Cells. Current Biology, 2012, 22, 638-644.	3.9	72
35	Kinetochores and disease: keeping microtubule dynamics in check!. Current Opinion in Cell Biology, 2012, 24, 64-70.	5.4	71
36	Protein 4.1N Binding to Nuclear Mitotic Apparatus Protein in PC12 Cells Mediates the Antiproliferative Actions of Nerve Growth Factor. Journal of Neuroscience, 1999, 19, 10747-10756.	3.6	63

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37	Numerical chromosomal instability mediates susceptibility to radiation treatment. Nature Communications, 2015, 6, 5990.	12.8	63
38	Aneuploidy. Current Biology, 2015, 25, R538-R542.	3.9	59
39	Chromosomal Instability Affects the Tumorigenicity of Glioblastoma Tumor-Initiating Cells. Cancer Discovery, 2016, 6, 532-545.	9.4	59
40	Mitotic DNA Damage Response: At the Crossroads of Structural and Numerical Cancer Chromosome Instabilities. Trends in Cancer, 2017, 3, 225-234.	7.4	59
41	Targeting the Cyclin E-Cdk-2 Complex Represses Lung Cancer Growth by Triggering Anaphase Catastrophe. Clinical Cancer Research, 2010, 16, 109-120.	7.0	58
42	Plk1 regulates the kinesin-13 protein Kif2b to promote faithful chromosome segregation. Molecular Biology of the Cell, 2012, 23, 2264-2274.	2.1	56
43	A Double-Edged Sword: How Oncogenes and Tumor Suppressor Genes Can Contribute to Chromosomal Instability. Frontiers in Oncology, 2013, 3, 164.	2.8	56
44	Anaphase Catastrophe Is a Target for Cancer Therapy. Clinical Cancer Research, 2011, 17, 1218-1222.	7.0	54
45	Shugoshin-1 Balances Aurora B Kinase Activity via PP2A to Promote Chromosome Bi-orientation. Cell Reports, 2015, 11, 508-515.	6.4	54
46	Multiple mechanisms regulate NuMA dynamics at spindle poles. Journal of Cell Science, 2004, 117, 6391-6400.	2.0	51
47	Proteomic analysis of hematopoietic stem cell-like fractions in leukemic disorders. Oncogene, 2003, 22, 5720-5728.	5.9	50
48	A Functional Relationship between NuMA and Kid Is Involved in Both Spindle Organization and Chromosome Alignment in Vertebrate Cells. Molecular Biology of the Cell, 2003, 14, 3541-3552.	2.1	50
49	Structural and regulatory roles of nonmotor spindle proteins. Current Opinion in Cell Biology, 2008, 20, 101-106.	5.4	49
50	A Mechanistic Model for the Organization of Microtubule Asters by Motor and Non-Motor Proteins in a Mammalian Mitotic Extract. Molecular Biology of the Cell, 2004, 15, 2116-2132.	2.1	48
51	Mechanisms of Spindle-Pole Organization Are Influenced by Kinetochore Activity in Mammalian Cells. Current Biology, 2007, 17, 260-265.	3.9	46
52	Adaptive Resistance to an Inhibitor of Chromosomal Instability in Human Cancer Cells. Cell Reports, 2016, 17, 1755-1763.	6.4	45
53	Cyclin A/Cdk1 modulates Plk1 activity in prometaphase to regulate kinetochore-microtubule attachment stability. ELife, 2017, 6, .	6.0	42
54	CDK2 Inhibition Causes Anaphase Catastrophe in Lung Cancer through the Centrosomal Protein CP110. Cancer Research, 2015, 75, 2029-2038.	0.9	40

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55	Intact Cohesion, Anaphase, and Chromosome Segregation in Human Cells Harboring Tumor-Derived Mutations in STAG2. PLoS Genetics, 2016, 12, e1005865.	3.5	38
56	Dinaciclib Induces Anaphase Catastrophe in Lung Cancer Cells via Inhibition of Cyclin-Dependent Kinases 1 and 2. Molecular Cancer Therapeutics, 2016, 15, 2758-2766.	4.1	37
57	Dissecting the role of molecular motors in the mitotic spindle. , 2000, 261, 14-24.		36
58	Functional Roles of Poleward Microtubule Flux During Mitosis. Cell Cycle, 2006, 5, 481-485.	2.6	34
59	STAG2 promotes error correction in mitosis by regulating kinetochore-microtubule attachments. Journal of Cell Science, 2014, 127, 4225-33.	2.0	34
60	Interplay of Microtubule Dynamics and Sliding during Bipolar Spindle Formation in Mammalian Cells. Current Biology, 2009, 19, 2108-2113.	3.9	33
61	Single-cell RNA sequencing reveals the impact of chromosomal instability on glioblastoma cancer stem cells. BMC Medical Genomics, 2019, 12, 79.	1.5	30
62	ch-TOGp Is Required for Microtubule Aster Formation in a Mammalian Mitotic Extract. Journal of Biological Chemistry, 2000, 275, 12346-12352.	3.4	28
63	Smallâ€molecule inhibition of agingâ€associated chromosomal instability delays cellular senescence. EMBO Reports, 2020, 21, e49248.	4.5	27
64	Specific CP110 Phosphorylation Sites Mediate Anaphase Catastrophe after CDK2 Inhibition: Evidence for Cooperation with USP33 Knockdown. Molecular Cancer Therapeutics, 2015, 14, 2576-2585.	4.1	21
65	Human Enhancer of Invasion-Cluster, a Coiled-Coil Protein Required for Passage through Mitosis. Molecular and Cellular Biology, 2004, 24, 3957-3971.	2.3	17
66	Cancer: CINful Centrosomes. Current Biology, 2009, 19, R642-R645.	3.9	16
67	Spindle Pole Mechanics Studied in Mitotic Asters: Dynamic Distribution of Spindle Forces through Compliant Linkages. Biophysical Journal, 2011, 100, 1756-1764.	0.5	13
68	A comparative analysis of methods to measure kinetochore-microtubule attachment stability. Methods in Cell Biology, 2020, 158, 91-116.	1.1	11
69	SnapShot: Nonmotor Proteins in Spindle Assembly. Cell, 2008, 134, 694-694.e1.	28.9	10
70	Regulation of mitosis by poly(ADP-ribosyl)ation. Biochemical Journal, 2005, 391, e5-6.	3.7	8
71	Quantitative methods to measure aneuploidy and chromosomal instability. Methods in Cell Biology, 2018, 144, 15-32.	1.1	7
72	Chromosomal instability suppresses the growth of K-Ras-induced lung adenomas. Cell Cycle, 2019, 18, 1702-1713.	2.6	7

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73	[27] Production of M-phase and I-phase extracts from mammalian cells. Methods in Enzymology, 1998, 298, 331-339.	1.0	5
74	Chromosomes walk the line. Nature Cell Biology, 2006, 8, 308-310.	10.3	5
75	Mitosis: PARty Time in the Spindle. Current Biology, 2005, 15, R178-R179.	3.9	4
76	Chromosome Segregation: Pulling from the Poles. Current Biology, 2002, 12, R651-R653.	3.9	2
77	Identifying Cyclin A/Cdk1 Substrates in Mitosis in Human Cells. Methods in Molecular Biology, 2022, 2415, 175-182.	0.9	2
78	In vitro approaches for the study of molecular motors in aster formation. Methods in Cell Biology, 2001, 67, 225-239.	1.1	1
79	Chromosome orientation. Journal of Cell Biology, 2007, 179, 179-181.	5.2	1
80	Mitosis: Disorderly Conduct at the Kinetochore. Current Biology, 2006, 16, R494-R496.	3.9	0
81	Mitosis: Springtime for Chromatin. Current Biology, 2007, 17, R460-R462.	3.9	0
82	Advances in imaging reveal novel insights into the mechanisms promoting accurate chromosome segregation in mitosis and meiosis. Molecular Biology of the Cell, 2011, 22, 720-720.	2.1	0