Duane A Compton

List of Publications by Year
in descending order

82 papers	7,873 citations	46984 47 h-index	66879 78 g-index
120 all docs	120 docs citations	120 times ranked	7221 citing authors

#	Article	IF	Citations
1	Identifying Cyclin A/Cdk1 Substrates in Mitosis in Human Cells. Methods in Molecular Biology, 2022, 2415, 175-182.	0.4	2
2	Smallâ€molecule inhibition of agingâ€associated chromosomal instability delays cellular senescence. EMBO Reports, 2020, 21, e49248.	2.0	27
3	A comparative analysis of methods to measure kinetochore-microtubule attachment stability. Methods in Cell Biology, 2020, 158, 91-116.	0.5	11
4	Single-cell RNA sequencing reveals the impact of chromosomal instability on glioblastoma cancer stem cells. BMC Medical Genomics, 2019, 12, 79.	0.7	30
5	Chromosomal instability suppresses the growth of K-Ras-induced lung adenomas. Cell Cycle, 2019, 18, 1702-1713.	1.3	7
6	Quantitative methods to measure aneuploidy and chromosomal instability. Methods in Cell Biology, 2018, 144, 15-32.	0.5	7
7	Mitotic DNA Damage Response: At the Crossroads of Structural and Numerical Cancer Chromosome Instabilities. Trends in Cancer, 2017, 3, 225-234.	3.8	59
8	Cyclin A/Cdk1 modulates Plk1 activity in prometaphase to regulate kinetochore-microtubule attachment stability. ELife, 2017, 6, .	2.8	42
9	Dinaciclib Induces Anaphase Catastrophe in Lung Cancer Cells via Inhibition of Cyclin-Dependent Kinases 1 and 2. Molecular Cancer Therapeutics, 2016, 15, 2758-2766.	1.9	37
10	Adaptive Resistance to an Inhibitor of Chromosomal Instability in Human Cancer Cells. Cell Reports, 2016, 17, 1755-1763.	2.9	45
11	Chromosomal Instability Affects the Tumorigenicity of Glioblastoma Tumor-Initiating Cells. Cancer Discovery, 2016, 6, 532-545.	7.7	59
12	Intact Cohesion, Anaphase, and Chromosome Segregation in Human Cells Harboring Tumor-Derived Mutations in STAG2. PLoS Genetics, 2016, 12, e1005865.	1.5	38
13	Shugoshin-1 Balances Aurora B Kinase Activity via PP2A to Promote Chromosome Bi-orientation. Cell Reports, 2015, 11, 508-515.	2.9	54
14	Aneuploidy. Current Biology, 2015, 25, R538-R542.	1.8	59
15	Numerical chromosomal instability mediates susceptibility to radiation treatment. Nature Communications, 2015, 6, 5990.	5.8	63
16	CDK2 Inhibition Causes Anaphase Catastrophe in Lung Cancer through the Centrosomal Protein CP110. Cancer Research, 2015, 75, 2029-2038.	0.4	40
17	Specific CP110 Phosphorylation Sites Mediate Anaphase Catastrophe after CDK2 Inhibition: Evidence for Cooperation with USP33 Knockdown. Molecular Cancer Therapeutics, 2015, 14, 2576-2585.	1.9	21
18	Regulation of kinetochoreâ€“microtubule attachments through homeostatic control during mitosis. Nature Reviews Molecular Cell Biology, 2015, 16, 57-64.	16.1	141

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19	STAG2 promotes error correction in mitosis by regulating kinetochore-microtubule attachments. Journal of Cell Science, 2014, 127, 4225-33.	1.2	34
20	The mitotic origin of chromosomal instability. Current Biology, 2014, 24, R148-R149.	1.8	110
21	DNA-Damage Response during Mitosis Induces Whole-Chromosome Missegregation. Cancer Discovery, 2014, 4, 1281-1289.	7.7	129
22	Cyclin A regulates kinetochore microtubules to promote faithful chromosome segregation. Nature, 2013, 502, 110-113.	13.7	119
23	A Double-Edged Sword: How Oncogenes and Tumor Suppressor Genes Can Contribute to Chromosomal Instability. Frontiers in Oncology, 2013, 3, 164.	1.3	56
24	Plk1 regulates the kinesin-13 protein Kif2b to promote faithful chromosome segregation. Molecular Biology of the Cell, 2012, 23, 2264-2274.	0.9	56
25	Cdk1 and Plk1 mediate a CLASP2 phospho-switch that stabilizes kinetochoreâ€“microtubule attachments. Journal of Cell Biology, 2012, 199, 285-301.	2.3	80
26	Kinetochores and disease: keeping microtubule dynamics in check!. Current Opinion in Cell Biology, 2012, 24, 64-70.	2.6	71
27	Checkpoint-Independent Stabilization of Kinetochore-Microtubule Attachments by Mad2 in Human Cells. Current Biology, 2012, 22, 638-644.	1.8	72
28	Chromosomal instability and cancer: a complex relationship with therapeutic potential. Journal of Clinical Investigation, 2012, 122, 1138-1143.	3.9	217
29	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.	3.3	224
30	Spindle Pole Mechanics Studied in Mitotic Asters: Dynamic Distribution of Spindle Forces through Compliant Linkages. Biophysical Journal, 2011, 100, 1756-1764.	0.2	13
31	Mechanisms of aneuploidy. Current Opinion in Cell Biology, 2011, 23, 109-113.	2.6	83
32	Chromosomes and cancer cells. Chromosome Research, 2011, 19, 433-444.	1.0	124
33	Chromosomal Instability Substantiates Poor Prognosis in Patients with Diffuse Large B-cell Lymphoma. Clinical Cancer Research, 2011, 17, 7704-7711.	3.2	92
34	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.	0.9	0
35	Anaphase Catastrophe Is a Target for Cancer Therapy. Clinical Cancer Research, 2011, 17, 1218-1222.	3.2	54
36	Mechanisms of Chromosomal Instability. Current Biology, 2010, 20, R285-R295.	1.8	480

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37	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.	3.5	123
38	Targeting the Cyclin E-Cdk-2 Complex Represses Lung Cancer Growth by Triggering Anaphase Catastrophe. Clinical Cancer Research, 2010, 16, 109-120.	3.2	58
39	Proliferation of aneuploid human cells is limited by a p53-dependent mechanism. Journal of Cell Biology, 2010, 188, 369-381.	2.3	401
40	Cancer: CINful Centrosomes. Current Biology, 2009, 19, R642-R645.	1.8	16
41	Motor-Independent Targeting of CLASPs to Kinetochores by CENP-E Promotes Microtubule Turnover and Poleward Flux. Current Biology, 2009, 19, 1566-1572.	1.8	120
42	Deviant Kinetochore Microtubule Dynamics Underlie Chromosomal Instability. Current Biology, 2009, 19, 1937-1942.	1.8	303
43	Interplay of Microtubule Dynamics and Sliding during Bipolar Spindle Formation in Mammalian Cells. Current Biology, 2009, 19, 2108-2113.	1.8	33
44	Genome stability is ensured by temporal control of kinetochoreâ€“microtubule dynamics. Nature Cell Biology, 2009, 11, 27-35.	4.6	398
45	Structural and regulatory roles of nonmotor spindle proteins. Current Opinion in Cell Biology, 2008, 20, 101-106.	2.6	49
46	SnapShot: Nonmotor Proteins in Spindle Assembly. Cell, 2008, 134, 694-694.e1.	13.5	10
47	Examining the link between chromosomal instability and aneuploidy in human cells. Journal of Cell Biology, 2008, 180, 665-672.	2.3	435
48	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.	0.9	198
49	Chromosome orientation. Journal of Cell Biology, 2007, 179, 179-181.	2.3	1
50	Mechanisms of Spindle-Pole Organization Are Influenced by Kinetochore Activity in Mammalian Cells. Current Biology, 2007, 17, 260-265.	1.8	46
51	Mitosis: Springtime for Chromatin. Current Biology, 2007, 17, R460-R462.	1.8	0
52	Chromosomes walk the line. Nature Cell Biology, 2006, 8, 308-310.	4.6	5
53	Mitosis: Disorderly Conduct at the Kinetochore. Current Biology, 2006, 16, R494-R496.	1.8	0
54	Functional Roles of Poleward Microtubule Flux During Mitosis. Cell Cycle, 2006, 5, 481-485.	1.3	34

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55	Regulation of mitosis by poly(ADP-ribosyl)ation. Biochemical Journal, 2005, 391, e5-6.	1.7	8
56	Mitosis: PARty Time in the Spindle. Current Biology, 2005, 15, R178-R179.	1.8	4
57	Efficient Mitosis in Human Cells Lacking Poleward Microtubule Flux. Current Biology, 2005, 15, 1827-1832.	1.8	197
58	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.	0.9	48
59	Multiple mechanisms regulate NuMA dynamics at spindle poles. Journal of Cell Science, 2004, 117, 6391-6400.	1.2	51
60	Human Enhancer of Invasion-Cluster, a Coiled-Coil Protein Required for Passage through Mitosis. Molecular and Cellular Biology, 2004, 24, 3957-3971.	1.1	17
61	The KinI kinesin Kif2a is required for bipolar spindle assembly through a functional relationship with MCAK. Journal of Cell Biology, 2004, 166, 473-478.	2.3	213
62	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.	0.9	105
63	Proteomic analysis of hematopoietic stem cell-like fractions in leukemic disorders. Oncogene, 2003, 22, 5720-5728.	2.6	50
64	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.	0.9	50
65	Minus-end capture of preformed kinetochore fibers contributes to spindle morphogenesis. Journal of Cell Biology, 2003, 160, 671-683.	2.3	190
66	Molecular Correlates of Primate Nuclear Transfer Failures. Science, 2003, 300, 297-297.	6.0	220
67	Searching for the middle ground. Journal of Cell Biology, 2002, 157, 551-556.	2.3	88
68	Chromosome Segregation: Pulling from the Poles. Current Biology, 2002, 12, R651-R653.	1.8	2
69	hTPX2 Is Required for Normal Spindle Morphology and Centrosome Integrity during Vertebrate Cell Division. Current Biology, 2002, 12, 2055-2059.	1.8	128
70	LGN Blocks the Ability of NuMA to Bind and Stabilize Microtubules. Current Biology, 2002, 12, 1928-1933.	1.8	134
71	In vitro approaches for the study of molecular motors in aster formation. Methods in Cell Biology, 2001, 67, 225-239.	0.5	1
72	Chromosome Movement in Mitosis Requires Microtubule Anchorage at Spindle Poles. Journal of Cell Biology, 2001, 152, 425-434.	2.3	115

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73	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.	2.3	202
74	Dissecting the role of molecular motors in the mitotic spindle. , 2000, 261, 14-24.		36
75	Spindle Assembly in Animal Cells. Annual Review of Biochemistry, 2000, 69, 95-114.	5.0	255
76	ch-TOGp Is Required for Microtubule Aster Formation in a Mammalian Mitotic Extract. Journal of Biological Chemistry, 2000, 275, 12346-12352.	1.6	28
77	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.	1.7	63
78	NuMA is a component of an insoluble matrix at mitotic spindle poles. Cytoskeleton, 1999, 42, 189-203.	4.4	76
79	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.	2.3	308
80	[27] Production of M-phase and I-phase extracts from mammalian cells. Methods in Enzymology, 1998, 298, 331-339.	0.4	5
81	Mitotic Spindle Poles are Organized by Structural and Motor Proteins in Addition to Centrosomes. Journal of Cell Biology, 1997, 138, 1055-1066.	2.3	198
82	NuMA, a nuclear protein involved in mitosis and nuclear reformation. Current Opinion in Cell Biology, 1994, 6, 343-346.	2.6	88