

Gary J Gorbsky

List of Publications by Year in descending order

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71
papers

5,029
citations

94433

37
h-index

102487

66
g-index

80
all docs

80
docs citations

80
times ranked

5101
citing authors

#	ARTICLE	IF	CITATIONS
1	Histone H3 Thr-3 Phosphorylation by Haspin Positions Aurora B at Centromeres in Mitosis. <i>Science</i> , 2010, 330, 231-235.	12.6	416
2	Inhibition of Aurora B Kinase Blocks Chromosome Segregation, Overrides the Spindle Checkpoint, and Perturbs Microtubule Dynamics in Mitosis. <i>Current Biology</i> , 2002, 12, 900-905.	3.9	296
3	Mammalian p55CDC Mediates Association of the Spindle Checkpoint Protein Mad2 with the Cyclosome/Anaphase-promoting Complex, and is Involved in Regulating Anaphase Onset and Late Mitotic Events. <i>Journal of Cell Biology</i> , 1998, 141, 1393-1406.	5.2	243
4	Spatiotemporal regulation of the anaphase-promoting complex in mitosis. <i>Nature Reviews Molecular Cell Biology</i> , 2015, 16, 82-94.	37.0	225
5	The highly conserved Ndc80 complex is required for kinetochore assembly, chromosome congression, and spindle checkpoint activity. <i>Genes and Development</i> , 2003, 17, 101-114.	5.9	224
6	Microinjection of Antibody to Mad2 Protein into Mammalian Cells in Mitosis Induces Premature Anaphase. <i>Journal of Cell Biology</i> , 1998, 141, 1193-1205.	5.2	211
7	Active MAP Kinase in Mitosis: Localization at Kinetochores and Association with the Motor Protein CENP-E. <i>Journal of Cell Biology</i> , 1998, 142, 1547-1558.	5.2	207
8	The reversibility of mitotic exit in vertebrate cells. <i>Nature</i> , 2006, 440, 954-958.	27.8	182
9	The Vertebrate Ndc80 Complex Contains Spc24 and Spc25 Homologs, which Are Required to Establish and Maintain Kinetochore-Microtubule Attachment. <i>Current Biology</i> , 2004, 14, 131-137.	3.9	153
10	Ska3 Is Required for Spindle Checkpoint Silencing and the Maintenance of Chromosome Cohesion in Mitosis. <i>Current Biology</i> , 2009, 19, 1467-1472.	3.9	153
11	Cohesion Fatigue Induces Chromatid Separation in Cells Delayed at Metaphase. <i>Current Biology</i> , 2011, 21, 1018-1024.	3.9	149
12	Mitotic progression becomes irreversible in prometaphase and collapses when Wee1 and Cdc25 are inhibited. <i>Molecular Biology of the Cell</i> , 2011, 22, 1191-1206.	2.1	142
13	Polo-like Kinase 1 Creates the Tension-Sensing 3F3/2 Phosphoepitope and Modulates the Association of Spindle-Checkpoint Proteins at Kinetochores. <i>Current Biology</i> , 2005, 15, 1078-1089.	3.9	140
14	Rapid microtubule-independent dynamics of Cdc20 at kinetochores and centrosomes in mammalian cells. <i>Journal of Cell Biology</i> , 2002, 158, 841-847.	5.2	129
15	Rapid exchange of mammalian topoisomerase II α at kinetochores and chromosome arms in mitosis. <i>Journal of Cell Biology</i> , 2002, 158, 23-29.	5.2	118
16	The Consequences of Chromosome Segregation Errors in Mitosis and Meiosis. <i>Biology</i> , 2017, 6, 12.	2.8	118
17	PKD2 Interacts and Co-localizes with mDia1 to Mitotic Spindles of Dividing Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 29728-29739.	3.4	107
18	Cell cycle checkpoints: Arresting progress in mitosis. <i>BioEssays</i> , 1997, 19, 193-197.	2.5	103

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19	Haspin inhibitors reveal centromeric functions of Aurora B in chromosome segregation. <i>Journal of Cell Biology</i> , 2012, 199, 251-268.	5.2	95
20	Fine Tuning the Cell Cycle: Activation of the Cdk1 Inhibitory Phosphorylation Pathway during Mitotic Exit. <i>Molecular Biology of the Cell</i> , 2009, 20, 1737-1748.	2.1	92
21	Survivin dynamics increases at centromeres during G2/M phase transition and is regulated by microtubule-attachment and Aurora B kinase activity. <i>Journal of Cell Science</i> , 2004, 117, 4033-4042.	2.0	90
22	Interactions between Protein Kinase CK2 and Pin1. <i>Journal of Biological Chemistry</i> , 2002, 277, 23054-23064.	3.4	88
23	Spindle checkpoint function and cellular sensitivity to antimetabolic drugs. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 2963-2969.	4.1	85
24	The spindle checkpoint and chromosome segregation in meiosis. <i>FEBS Journal</i> , 2015, 282, 2471-2487.	4.7	81
25	Kinetochores, microtubules and the metaphase checkpoint. <i>Trends in Cell Biology</i> , 1995, 5, 143-148.	7.9	68
26	The spindle and kinetochore-associated (Ska) complex enhances binding of the anaphase-promoting complex/cyclosome (APC/C) to chromosomes and promotes mitotic exit. <i>Molecular Biology of the Cell</i> , 2014, 25, 594-605.	2.1	67
27	Multiple mechanisms of chromosome movement in vertebrate cells mediated through the Ndc80 complex and dynein/dynactin. <i>Chromosoma</i> , 2008, 117, 169-179.	2.2	65
28	The human SKA complex drives the metaphase-anaphase cell cycle transition by recruiting protein phosphatase 1 to kinetochores. <i>ELife</i> , 2016, 5, .	6.0	64
29	Human papillomavirus 16 E5 induces bi-nucleated cell formation by cell-cell fusion. <i>Virology</i> , 2009, 384, 125-134.	2.4	56
30	Mad2 binding by phosphorylated kinetochores links error detection and checkpoint action in mitosis. <i>Current Biology</i> , 1999, 9, 649-652.	3.9	55
31	The mitotic spindle checkpoint. <i>Current Biology</i> , 2001, 11, R1001-R1004.	3.9	51
32	Differences in Spindle Association of the Mitotic Checkpoint Protein Mad2 in Mammalian Spermatogenesis and Oogenesis. <i>Developmental Biology</i> , 2000, 225, 112-123.	2.0	50
33	Dietary flavonoid fisetin induces a forced exit from mitosis by targeting the mitotic spindle checkpoint. <i>Carcinogenesis</i> , 2009, 30, 1032-1040.	2.8	49
34	Shugoshin 1 Plays a Central Role in Kinetochore Assembly and is Required for Kinetochore Targeting of Plk1. <i>Cell Cycle</i> , 2007, 6, 1579-1585.	2.6	46
35	Chromosome motion in mitosis. <i>BioEssays</i> , 1992, 14, 73-80.	2.5	42
36	Casein Kinase II Catalyzes a Mitotic Phosphorylation on Threonine 1342 of Human DNA Topoisomerase II α , Which Is Recognized by the 3F3/2 Phosphoepitope Antibody. <i>Journal of Biological Chemistry</i> , 1998, 273, 30622-30629.	3.4	41

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37	The Dephosphorylated Form of the Anaphase-Promoting Complex Protein Cdc27/Apc3 Concentrates on Kinetochores and Chromosome Arms in Mitosis. <i>Cell Cycle</i> , 2002, 1, 287-297.	2.6	40
38	ICIS and Aurora B Coregulate the Microtubule Depolymerase Kif2a. <i>Current Biology</i> , 2009, 19, 758-763.	3.9	39
39	CTSE1 regulates spindle microtubule dynamics to control Aurora B kinase and Kif4A chromokinesin on chromosome arms. <i>Journal of Cell Biology</i> , 2017, 216, 3117-3132.	5.2	39
40	Mitosis: MCAK under the Aura of Aurora B. <i>Current Biology</i> , 2004, 14, R346-R348.	3.9	37
41	Esperanto for histones: CENP-A, not CenH3, is the centromeric histone H3 variant. <i>Chromosome Research</i> , 2013, 21, 101-106.	2.2	37
42	The 3F3/2 anti-phosphoepitope antibody binds the mitotically phosphorylated anaphase-promoting complex/cyclosome. <i>Current Biology</i> , 2000, 10, R850-R852.	3.9	30
43	Elevating the level of Cdc34/Ubc3 ubiquitin-conjugating enzyme in mitosis inhibits association of CENP-E with kinetochores and blocks the metaphase alignment of chromosomes. <i>Journal of Cell Biology</i> , 2001, 154, 707-718.	5.2	27
44	Cohesion fatigue. <i>Current Biology</i> , 2013, 23, R986-R988.	3.9	27
45	A High Throughput, Whole Cell Screen for Small Molecule Inhibitors of the Mitotic Spindle Checkpoint Identifies OM137, a Novel Aurora Kinase Inhibitor. <i>Cancer Research</i> , 2009, 69, 1509-1516.	0.9	26
46	Microtubule Network Is Required for Insulin Signaling through Activation of Akt/Protein Kinase B. <i>Journal of Biological Chemistry</i> , 2006, 281, 39719-39727.	3.4	25
47	Multiple determinants and consequences of cohesion fatigue in mammalian cells. <i>Molecular Biology of the Cell</i> , 2018, 29, 1811-1824.	2.1	22
48	CDK1-mediated phosphorylation at H2B serine 6 is required for mitotic chromosome segregation. <i>Journal of Cell Biology</i> , 2019, 218, 1164-1181.	5.2	21
49	Cell-Cycle-Regulated Localization of Tyrosine and Threonine Phosphoepitopes at the Kinetochores of Mitotic Chromosomes. <i>Experimental Cell Research</i> , 1995, 221, 249-260.	2.6	20
50	Expression of HPV16 E5 produces enlarged nuclei and polyploidy through endoreplication. <i>Virology</i> , 2010, 405, 342-351.	2.4	19
51	The dephosphorylated form of the anaphase-promoting complex protein Cdc27/Apc3 concentrates on kinetochores and chromosome arms in mitosis. <i>Cell Cycle</i> , 2002, 1, 282-92.	2.6	19
52	Phosphatase-regulated recruitment of the spindle- and Kinetochores-Associated (Ska) Complex to kinetochores. <i>Biology Open</i> , 2017, 6, 1672-1679.	1.2	18
53	Protein dynamics at the kinetochore: cell cycle regulation of the metaphase to anaphase transition. <i>FASEB Journal</i> , 1999, 13, S231-4.	0.5	14
54	Inhibition of TRIP1/S8/hSug1, a component of the human 19S proteasome, enhances mitotic apoptosis induced by spindle poisons. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 29-38.	4.1	11

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55	Live-Cell Fluorescence Imaging for Phenotypic Analysis of Mitosis. <i>Methods in Molecular Biology</i> , 2014, 1170, 549-562.	0.9	11
56	Predictive bioinformatics identifies novel regulators of proliferation in a cancer stem cell model. <i>Stem Cell Research</i> , 2018, 26, 1-7.	0.7	10
57	Chondrosarcoma-associated gene 1 (CSAG1) maintains the integrity of the mitotic centrosome in cells with defective p53. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	7
58	Kinetochores "memory" of spindle checkpoint signaling in lysed mitotic cells. <i>Cytoskeleton</i> , 2000, 46, 146-156.	4.4	6
59	Developing immortal cell lines from <i>Xenopus</i> embryos <i></i> four novel cell lines derived from <i>Xenopus tropicalis</i> . <i>Open Biology</i> , 2022, 12, .	3.6	4
60	Lysed cell models and isolated chromosomes for the study of kinetochores/centromere biochemistry in vitro. <i>Methods</i> , 2006, 38, 52-59.	3.8	2
61	Cell-based expression cloning for identification of polypeptides that hypersensitize mammalian cells to mitotic arrest. <i>Biological Procedures Online</i> , 2006, 8, 36-43.	2.9	2
62	Mps1 promotes poleward chromosome movements in meiotic prometaphase. <i>Molecular Biology of the Cell</i> , 2021, 32, 1020-1032.	2.1	2
63	The Dynamics of DNA Topoisomerase II± in Living Cells. <i>Methods in Molecular Biology</i> , 2009, 582, 233-244.	0.9	2
64	More than two populations of microtubules comprise the dynamic mitotic spindle. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	2
65	Dynamic Features of Chromosomal Instability during Culture of Induced Pluripotent Stem Cells. <i>Genes</i> , 2022, 13, 1157.	2.4	2
66	Desmosomal Adhesion in Development. <i>American Zoologist</i> , 1986, 26, 535-540.	0.7	1
67	VTT-006, an anti-mitotic compound, binds to the Ndc80 complex and suppresses cancer cell growth in vitro. <i>Oncoscience</i> , 2021, 8, 134-153.	2.2	1
68	Duct Tape for Broken Chromosomes. <i>Cell</i> , 2010, 140, 178-180.	28.9	0
69	Regulators of chromosome movement and the mitotic spindle checkpoint. <i>FASEB Journal</i> , 2007, 21, A209.	0.5	0
70	Predicting Growth In Cancer Stem Cells. , 2018, , .		0
71	Live Fluorescence Imaging of Chromosome Segregation in Cultured Cells. <i>Methods in Molecular Biology</i> , 2022, 2415, 61-86.	0.9	0