

Susan Biggins

List of Publications by Year in descending order

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76
papers

6,981
citations

87888

38
h-index

91884

69
g-index

86
all docs

86
docs citations

86
times ranked

4829
citing authors

#	ARTICLE	IF	CITATIONS
1	Tension directly stabilizes reconstituted kinetochore-microtubule attachments. <i>Nature</i> , 2010, 468, 576-579.	27.8	408
2	The conserved protein kinase Ipl1 regulates microtubule binding to kinetochores in budding yeast. <i>Genes and Development</i> , 1999, 13, 532-544.	5.9	371
3	The budding yeast protein kinase Ipl1/Aurora allows the absence of tension to activate the spindle checkpoint. <i>Genes and Development</i> , 2001, 15, 3118-3129.	5.9	363
4	Phosphoregulation of Spc105 by Mps1 and PP1 Regulates Bub1 Localization to Kinetochores. <i>Current Biology</i> , 2012, 22, 900-906.	3.9	328
5	Computed structures of core eukaryotic protein complexes. <i>Science</i> , 2021, 374, eabm4805.	12.6	316
6	Histone variants: deviants?. <i>Genes and Development</i> , 2005, 19, 295-316.	5.9	296
7	Signalling dynamics in the spindle checkpoint response. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 736-748.	37.0	278
8	The Ipl1-Aurora protein kinase activates the spindle checkpoint by creating unattached kinetochores. <i>Nature Cell Biology</i> , 2006, 8, 78-83.	10.3	272
9	The NoCut Pathway Links Completion of Cytokinesis to Spindle Midzone Function to Prevent Chromosome Breakage. <i>Cell</i> , 2006, 125, 85-98.	28.9	267
10	The spindle checkpoint: tension versus attachment. <i>Trends in Cell Biology</i> , 2005, 15, 486-493.	7.9	257
11	Centromere identity is specified by a single centromeric nucleosome in budding yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14706-14711.	7.1	240
12	Proteolysis Contributes to the Exclusive Centromere Localization of the Yeast Cse4/CENP-A Histone H3 Variant. <i>Current Biology</i> , 2004, 14, 1968-1972.	3.9	191
13	An E3 Ubiquitin Ligase Prevents Ectopic Localization of the Centromeric Histone H3 Variant via the Centromere Targeting Domain. <i>Molecular Cell</i> , 2010, 40, 455-464.	9.7	176
14	Mad1 kinetochore recruitment by Mps1-mediated phosphorylation of Bub1 signals the spindle checkpoint. <i>Genes and Development</i> , 2014, 28, 140-152.	5.9	175
15	The Composition, Functions, and Regulation of the Budding Yeast Kinetochore. <i>Genetics</i> , 2013, 194, 817-846.	2.9	170
16	Mutation of YCS4, a Budding Yeast Condensin Subunit, Affects Mitotic and Nonmitotic Chromosome Behavior. <i>Molecular Biology of the Cell</i> , 2002, 13, 632-645.	2.1	167
17	Yeast ubiquitin-like genes are involved in duplication of the microtubule organizing center.. <i>Journal of Cell Biology</i> , 1996, 133, 1331-1346.	5.2	164
18	A TOG Protein Confers Tension Sensitivity to Kinetochore-Microtubule Attachments. <i>Cell</i> , 2016, 165, 1428-1439.	28.9	158

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19	Protein Phosphatase 1 Regulates Exit from the Spindle Checkpoint in Budding Yeast. <i>Current Biology</i> , 2009, 19, 1182-1187.	3.9	138
20	The budding yeast Ipl1/Aurora protein kinase regulates mitotic spindle disassembly. <i>Journal of Cell Biology</i> , 2003, 160, 329-339.	5.2	133
21	Genes Involved in Sister Chromatid Separation and Segregation in the Budding Yeast <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2001, 159, 453-470.	2.9	133
22	Glc7/Protein Phosphatase 1 Regulatory Subunits Can Oppose the Ipl1/Aurora Protein Kinase by Redistributing Glc7. <i>Molecular and Cellular Biology</i> , 2006, 26, 2648-2660.	2.3	102
23	Captivating Capture: How Microtubules Attach to Kinetochores. <i>Current Biology</i> , 2003, 13, R449-R460.	3.9	99
24	Quantitative proteomic analysis of purified yeast kinetochores identifies a PP1 regulatory subunit. <i>Genes and Development</i> , 2009, 23, 2887-2899.	5.9	99
25	Direct interaction between yeast spindle pole body components: Kar1p is required for Cdc31p localization to the spindle pole body.. <i>Journal of Cell Biology</i> , 1994, 125, 843-852.	5.2	94
26	An Mtw1 Complex Promotes Kinetochores Biorientation that Is Monitored by the Ipl1/Aurora Protein Kinase. <i>Developmental Cell</i> , 2003, 5, 735-745.	7.0	94
27	Pericentromeric Sister Chromatid Cohesion Promotes Kinetochores Biorientation. <i>Molecular Biology of the Cell</i> , 2009, 20, 3818-3827.	2.1	83
28	The structure of purified kinetochores reveals multiple microtubule-attachment sites. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 925-929.	8.2	77
29	The Yeast Centrin, Cdc31p, and the Interacting Protein Kinase, Kic1p, Are Required for Cell Integrity. <i>Journal of Cell Biology</i> , 1998, 143, 751-765.	5.2	76
30	Phosphoregulation promotes release of kinetochores from dynamic microtubules via multiple mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7282-7287.	7.1	76
31	Sister kinetochores are mechanically fused during meiosis I in yeast. <i>Science</i> , 2014, 346, 248-251.	12.6	68
32	De Novo Kinetochores Assembly Requires the Centromeric Histone H3 Variant. <i>Molecular Biology of the Cell</i> , 2005, 16, 5649-5660.	2.1	67
33	The FACT complex interacts with the E3 ubiquitin ligase Psh1 to prevent ectopic localization of CENP-A. <i>Genes and Development</i> , 2014, 28, 1815-1826.	5.9	66
34	Analysis of Ipl1-Mediated Phosphorylation of the Ndc80 Kinetochores Protein in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2009, 183, 1591-1595.	2.9	64
35	A Pathway Containing the Ipl1/Aurora Protein Kinase and the Spindle Midzone Protein Ase1 Regulates Yeast Spindle Assembly. <i>Developmental Cell</i> , 2007, 13, 433-445.	7.0	60
36	The Aurora B Kinase Promotes Inner and Outer Kinetochores Interactions in Budding Yeast. <i>Genetics</i> , 2013, 194, 785-789.	2.9	57

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37	Unravelling the tangled web at the microtubule-organizing center. <i>Current Opinion in Cell Biology</i> , 1993, 5, 105-115.	5.4	52
38	Kinetochores require oligomerization of Dam1 complex to maintain microtubule attachments against tension and promote biorientation. <i>Nature Communications</i> , 2014, 5, 4951.	12.8	51
39	Sister chromatid cohesion in mitosis. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 230-236.	3.3	50
40	An assay for de novo kinetochore assembly reveals a key role for the CENP-T pathway in budding yeast. <i>ELife</i> , 2018, 7, .	6.0	46
41	Design principles of a microtubule polymerase. <i>ELife</i> , 2018, 7, .	6.0	45
42	H3K4 methylation at active genes mitigates transcription-replication conflicts during replication stress. <i>Nature Communications</i> , 2020, 11, 809.	12.8	41
43	Regulation of Budding Yeast CENP-A levels Prevents Misincorporation at Promoter Nucleosomes and Transcriptional Defects. <i>PLoS Genetics</i> , 2016, 12, e1005930.	3.5	39
44	Sister chromatid cohesion in mitosis. <i>Current Opinion in Cell Biology</i> , 1998, 10, 769-775.	5.4	33
45	Microtubule Capture: A Concerted Effort. <i>Cell</i> , 2006, 127, 1105-1108.	28.9	33
46	A Kinesin-5, Cin8, Recruits Protein Phosphatase 1 to Kinetochores and Regulates Chromosome Segregation. <i>Current Biology</i> , 2018, 28, 2697-2704.e3.	3.9	30
47	The Overexpression of a <i>Saccharomyces cerevisiae</i> Centromeric Histone H3 Variant Mutant Protein Leads to a Defect in Kinetochore Biorientation. <i>Genetics</i> , 2007, 175, 513-525.	2.9	29
48	The Mub1/Ubr2 Ubiquitin Ligase Complex Regulates the Conserved Dsn1 Kinetochore Protein. <i>PLoS Genetics</i> , 2013, 9, e1003216.	3.5	29
49	chTOG is a conserved mitotic error correction factor. <i>ELife</i> , 2020, 9, .	6.0	27
50	Kinetochore-bound Mps1 regulates kinetochoreâ€™microtubule attachments via Ndc80 phosphorylation. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	27
51	Kinetochore-associated Stu2 promotes chromosome biorientation in vivo. <i>PLoS Genetics</i> , 2019, 15, e1008423.	3.5	26
52	Kinetochore Function and Chromosome Segregation Rely on Critical Residues in Histones H3 and H4 in Budding Yeast. <i>Genetics</i> , 2013, 195, 795-807.	2.9	23
53	An Efficient Purification System for Native Minichromosome from <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2012, 833, 115-123.	0.9	22
54	Cdc14-Dependent Dephosphorylation of a Kinetochore Protein Prior to Anaphase in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2010, 186, 1487-1491.	2.9	20

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55	The Bub1-TPR Domain Interacts Directly with Mad3 to Generate Robust Spindle Checkpoint Arrest. <i>Current Biology</i> , 2019, 29, 2407-2414.e7.	3.9	19
56	Purification of kinetochores from the budding yeast <i>Saccharomyces cerevisiae</i> . <i>Methods in Cell Biology</i> , 2018, 144, 349-370.	1.1	18
57	Cdk1 Phosphorylation of the Dam1 Complex Strengthens Kinetochores-Microtubule Attachments. <i>Current Biology</i> , 2020, 30, 4491-4499.e5.	3.9	17
58	Tension can directly suppress Aurora B kinase-triggered release of kinetochores-microtubule attachments. <i>Nature Communications</i> , 2022, 13, 2152.	12.8	17
59	Reconstituting the kinetochores-microtubule interface: what, why, and how. <i>Chromosoma</i> , 2012, 121, 235-250.	2.2	16
60	Stochastic Modeling Yields a Mechanistic Framework for Spindle Attachment Error Correction in Budding Yeast Mitosis. <i>Cell Systems</i> , 2017, 4, 645-650.e5.	6.2	15
61	Autophosphorylation is sufficient to release Mps1 kinase from native kinetochores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17355-17360.	7.1	15
62	Histone H4 Facilitates the Proteolysis of the Budding Yeast CENP-A/Cse4 Centromeric Histone Variant. <i>Genetics</i> , 2017, 205, 113-124.	2.9	13
63	A transcriptional roadblock protects yeast centromeres. <i>Nucleic Acids Research</i> , 2022, 50, 7801-7815.	14.5	11
64	Top-SUMO Wrestles Centromeric Cohesion. <i>Developmental Cell</i> , 2002, 3, 4-6.	7.0	10
65	Measuring Kinetochores-Microtubule Interaction In Vitro. <i>Methods in Enzymology</i> , 2014, 540, 321-337.	1.0	4
66	Correcting SYNful attachments. <i>Nature Cell Biology</i> , 2004, 6, 181-183.	10.3	3
67	Under Tension: Kinetochores and Basic Research. <i>Genetics</i> , 2015, 200, 681-682.	2.9	3
68	Functional dissection of human mitotic genes using CRISPR-Cas9 tiling screens. <i>Genes and Development</i> , 2022, 36, 495-510.	5.9	2
69	Fifty years of cycling. <i>Molecular Biology of the Cell</i> , 2020, 31, 2868-2870.	2.1	1
70	Post-Translational Modifications that Regulate Kinetochores Activity. , 2009, , 1-51.		1
71	How to Successfully Start a Lab. <i>Cell</i> , 2003, 114, 16-17.	28.9	0
72	Sue Biggins: How kinetochores keep control of mitosis. <i>Journal of Cell Biology</i> , 2012, 196, 668-669.	5.2	0

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73	Biophysical Study of Native Yeast Kinetochores Indicates Distinct Roles for Phospho-Regulation of Core Microtubule-Binding Subcomplexes. <i>Biophysical Journal</i> , 2012, 102, 700a-701a.	0.5	0
74	Editorial overview: Cell architecture: Cellular organization and function. <i>Current Opinion in Cell Biology</i> , 2014, 26, v-vii.	5.4	0
75	What Silences the Spindle Checkpoint? A Single Particle Study. <i>Biophysical Journal</i> , 2017, 112, 431a.	0.5	0
76	Sue Biggins. <i>Current Biology</i> , 2019, 29, R227-R229.	3.9	0