

Melissa K Gardner

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,728
citations

218677

26
h-index

197818

49
g-index

59
all docs

59
docs citations

59
times ranked

3044
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Microtubule Self-Assembly Kinetics. <i>Cell</i> , 2011, 146, 582-592.	28.9	201
2	Depolymerizing Kinesins Kip3 and MCAK Shape Cellular Microtubule Architecture by Differential Control of Catastrophe. <i>Cell</i> , 2011, 147, 1092-1103.	28.9	201
3	Chromosome Congression by Kinesin-5 Motor-Mediated Disassembly of Longer Kinetochore Microtubules. <i>Cell</i> , 2008, 135, 894-906.	28.9	168
4	Microtubule Assembly Dynamics at the Nanoscale. <i>Current Biology</i> , 2007, 17, 1445-1455.	3.9	159
5	Microtubule catastrophe and rescue. <i>Current Opinion in Cell Biology</i> , 2013, 25, 14-22.	5.4	151
6	Stable Kinetochore-Microtubule Attachment Constrains Centromere Positioning in Metaphase. <i>Current Biology</i> , 2004, 14, 1962-1967.	3.9	144
7	Microtubule binding distinguishes dystrophin from utrophin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5723-5728.	7.1	132
8	Tension-dependent Regulation of Microtubule Dynamics at Kinetochores Can Explain Metaphase Congression in Yeast. <i>Molecular Biology of the Cell</i> , 2005, 16, 3764-3775.	2.1	124
9	Evolving Tip Structures Can Explain Age-Dependent Microtubule Catastrophe. <i>Current Biology</i> , 2013, 23, 1342-1348.	3.9	116
10	Dynein Tethers and Stabilizes Dynamic Microtubule Plus Ends. <i>Current Biology</i> , 2012, 22, 632-637.	3.9	102
11	Kif18A Uses a Microtubule Binding Site in the Tail for Plus-End Localization and Spindle Length Regulation. <i>Current Biology</i> , 2011, 21, 1500-1506.	3.9	95
12	Mechanism of microtubule lumen entry for the α -tubulin acetyltransferase enzyme α TAT1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7176-E7184.	7.1	95
13	Mps1 Phosphorylation of Dam1 Couples Kinetochores to Microtubule Plus Ends at Metaphase. <i>Current Biology</i> , 2006, 16, 1489-1501.	3.9	93
14	Minus-End-Directed Kinesin-14 Motors Align Antiparallel Microtubules to Control Metaphase Spindle Length. <i>Developmental Cell</i> , 2014, 31, 61-72.	7.0	71
15	The microtubule-based motor Kar3 and plus end-binding protein Bim1 provide structural support for the anaphase spindle. <i>Journal of Cell Biology</i> , 2008, 180, 91-100.	5.2	64
16	Microtubule assembly dynamics: new insights at the nanoscale. <i>Current Opinion in Cell Biology</i> , 2008, 20, 64-70.	5.4	57
17	Kinesin-8 molecular motors: putting the brakes on chromosome oscillations. <i>Trends in Cell Biology</i> , 2008, 18, 307-310.	7.9	55
18	Microtubule Tip Tracking and Tip Structures at the Nanometer Scale Using Digital Fluorescence Microscopy. <i>Cellular and Molecular Bioengineering</i> , 2011, 4, 192-204.	2.1	55

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19	Pericentromere tension is self-regulated by spindle structure in metaphase. <i>Journal of Cell Biology</i> , 2014, 205, 313-324.	5.2	49
20	Islands Containing Slowly Hydrolyzable GTP Analogs Promote Microtubule Rescues. <i>PLoS ONE</i> , 2012, 7, e30103.	2.5	48
21	Suppression of microtubule assembly kinetics by the mitotic protein TPX2. <i>Journal of Cell Science</i> , 2016, 129, 1319-28.	2.0	45
22	Coordination of autophagosome-lysosome fusion and transport by a Klp98A-Rab14 complex. <i>Journal of Cell Science</i> , 2016, 129, 971-82.	2.0	39
23	A noncatalytic function of the topoisomerase II CTD in Aurora B recruitment to inner centromeres during mitosis. <i>Journal of Cell Biology</i> , 2016, 213, 651-664.	5.2	38
24	Quantitative Analysis of Microtubule Self-assembly Kinetics and Tip Structure. <i>Methods in Enzymology</i> , 2014, 540, 35-52.	1.0	36
25	Modeling of chromosome motility during mitosis. <i>Current Opinion in Cell Biology</i> , 2006, 18, 639-647.	5.4	33
26	Model Convolution: A Computational Approach to Digital Image Interpretation. <i>Cellular and Molecular Bioengineering</i> , 2010, 3, 163-170.	2.1	32
27	Geometry and expression enhance enrichment of functional yeast-displayed ligands via cell panning. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2328-2341.	3.3	32
28	Oxidative stress pathogenically remodels the cardiac myocyte cytoskeleton via structural alterations to the microtubule lattice. <i>Developmental Cell</i> , 2021, 56, 2252-2266.e6.	7.0	28
29	A Gradient in Metaphase Tension Leads to a Scaled Cellular Response in Mitosis. <i>Developmental Cell</i> , 2019, 49, 63-76.e10.	7.0	25
30	A novel role for SALL4 during scar-free wound healing in axolotl. <i>Npj Regenerative Medicine</i> , 2016, 1, .	5.2	22
31	Structural state recognition facilitates tip tracking of EB1 at growing microtubule ends. <i>ELife</i> , 2019, 8, .	6.0	22
32	Interactions between the Microtubule Binding Protein EB1 and F-Actin. <i>Journal of Molecular Biology</i> , 2016, 428, 1304-1314.	4.2	21
33	Manipulation and quantification of microtubule lattice integrity. <i>Biology Open</i> , 2017, 6, 1245-1256.	1.2	21
34	UNC-45A Is a Novel Microtubule-Associated Protein and Regulator of Paclitaxel Sensitivity in Ovarian Cancer Cells. <i>Molecular Cancer Research</i> , 2019, 17, 370-383.	3.4	21
35	Hypothesis testing via integrated computer modeling and digital fluorescence microscopy. <i>Methods</i> , 2007, 41, 232-237.	3.8	19
36	Centromere mechanical maturation during mammalian cell mitosis. <i>Nature Communications</i> , 2019, 10, 1761.	12.8	19

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37	Slk19p of <i>Saccharomyces cerevisiae</i> Regulates Anaphase Spindle Dynamics Through Two Independent Mechanisms. <i>Genetics</i> , 2010, 186, 1247-1260.	2.9	10
38	Quantification of microtubule stutters: dynamic instability behaviors that are strongly associated with catastrophe. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE20060348.	2.1	10
39	Kinesin-14 motors participate in a force balance at microtubule plus-ends to regulate dynamic instability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	10
40	Dam1 complexes go it alone on disassembling microtubules. <i>Nature Cell Biology</i> , 2008, 10, 379-381.	10.3	9
41	Stochastic simulation and graphic visualization of mitotic processes. <i>Methods</i> , 2010, 51, 251-256.	3.8	8
42	UNC-45A Breaks MT Lattice Independent of its Effect on Non-Muscle Myosin II. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	8
43	Long term effect of primary health care training on HIV testing: A quasi-experimental evaluation of the Sexual Health in Practice (SHIP) intervention. <i>PLoS ONE</i> , 2018, 13, e0199891.	2.5	7
44	Analysis and Modeling of Chromosome Congestion During Mitosis in the Chemotherapy Drug Cisplatin. <i>Cellular and Molecular Bioengineering</i> , 2013, 6, 406-417.	2.1	6
45	Non-enzymatic Activity of the $\hat{\pm}$ -Tubulin Acetyltransferase $\hat{\pm}$ TAT Limits Synaptic Bouton Growth in Neurons. <i>Current Biology</i> , 2020, 30, 610-623.e5.	3.9	5
46	Is there a role for GPs in teaching neurology to medical students? A qualitative evaluation. <i>Education for Primary Care</i> , 2019, 30, 110-116.	0.6	3
47	Cell Biology: Microtubule Collisions to the Rescue. <i>Current Biology</i> , 2016, 26, R1287-R1289.	3.9	2
48	Talking to your patients about female genital mutilation. <i>InnovAiT</i> , 2017, 10, 304-306.	0.0	1
49	Straightening up is required to nucleate new microtubules. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	1
50	Centromere Tension Measurement in Budding Yeast Mitosis. <i>Methods in Molecular Biology</i> , 2022, 2415, 199-210.	0.9	1
51	Asymmetric Division: Motor Persistence Pays off. <i>Current Biology</i> , 2006, 16, R1021-R1023.	3.9	0
52	Highly Variable Microtubule Assembly Dynamics Reflect Near-Kilohertz Kinetics: Evidence Against Traditional Linear Growth Theory. <i>Biophysical Journal</i> , 2010, 98, 363a.	0.5	0
53	CENP-E hangs on at dynamic microtubule ends. <i>Nature Cell Biology</i> , 2013, 15, 1030-1032.	10.3	0