

Michael Glotzer

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

13,287
citations

57719

44
h-index

91828

69
g-index

108
all docs

108
docs citations

108
times ranked

8264
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclin is degraded by the ubiquitin pathway. <i>Nature</i> , 1991, 349, 132-138.	13.7	2,321
2	Cyclin activation of p34cdc2. <i>Cell</i> , 1990, 63, 1013-1024.	13.5	730
3	Cyclin is a component of maturation-promoting factor from <i>Xenopus</i> . <i>Cell</i> , 1990, 60, 487-494.	13.5	684
4	The Molecular Requirements for Cytokinesis. <i>Science</i> , 2005, 307, 1735-1739.	6.0	619
5	Anaphase is initiated by proteolysis rather than by the inactivation of maturation-promoting factor. <i>Cell</i> , 1993, 73, 1393-1402.	13.5	588
6	Central Spindle Assembly and Cytokinesis Require a Kinesin-like Protein/RhoGAP Complex with Microtubule Bundling Activity. <i>Developmental Cell</i> , 2002, 2, 41-54.	3.1	470
7	An ECT2-centralspindlin complex regulates the localization and function of RhoA. <i>Journal of Cell Biology</i> , 2005, 170, 571-582.	2.3	435
8	TULIPs: tunable, light-controlled interacting protein tags for cell biology. <i>Nature Methods</i> , 2012, 9, 379-384.	9.0	433
9	Anillin Is a Scaffold Protein That Links RhoA, Actin, and Myosin during Cytokinesis. <i>Current Biology</i> , 2008, 18, 30-36.	1.8	369
10	Cyk-4. <i>Journal of Cell Biology</i> , 2000, 149, 1391-1404.	2.3	356
11	The 3Ms of central spindle assembly: microtubules, motors and MAPs. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 9-20.	16.1	332
12	Cytokinesis: welcome to the Rho zone. <i>Trends in Cell Biology</i> , 2005, 15, 651-658.	3.6	321
13	Animal Cell Cytokinesis. <i>Annual Review of Cell and Developmental Biology</i> , 2001, 17, 351-386.	4.0	302
14	Incenp and an Aurora-like kinase form a complex essential for chromosome segregation and efficient completion of cytokinesis. <i>Current Biology</i> , 2000, 10, 1172-1181.	1.8	286
15	Comparative Analysis of Cytokinesis in Budding Yeast, Fission Yeast and Animal Cells. <i>Current Biology</i> , 2004, 14, R806-R818.	1.8	286
16	Polo-like Kinase 1 Triggers the Initiation of Cytokinesis in Human Cells by Promoting Recruitment of the RhoGEF Ect2 to the Central Spindle. <i>Developmental Cell</i> , 2007, 12, 713-725.	3.1	257
17	Cell cycle regulation of central spindle assembly. <i>Nature</i> , 2004, 430, 908-913.	13.7	244
18	A requirement for Rho and Cdc42 during cytokinesis in <i>Xenopus</i> embryos. <i>Current Biology</i> , 1997, 7, 12-23.	1.8	233

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19	The Aurora B Kinase AIR-2 Regulates Kinetochores during Mitosis and Is Required for Separation of Homologous Chromosomes during Meiosis. <i>Current Biology</i> , 2002, 12, 798-812.	1.8	220
20	Kleisins: A Superfamily of Bacterial and Eukaryotic SMC Protein Partners. <i>Molecular Cell</i> , 2003, 11, 571-575.	4.5	209
21	Phosphorylation of ZEN-4/MKLP1 by Aurora B Regulates Completion of Cytokinesis. <i>Current Biology</i> , 2005, 15, 778-786.	1.8	194
22	Polo-Like Kinase 1 Directs Assembly of the HsCdk-4 RhoGAP/Ect2 RhoGEF Complex to Initiate Cleavage Furrow Formation. <i>PLoS Biology</i> , 2009, 7, e1000110.	2.6	191
23	Centrosome Separation and Central Spindle Assembly Act in Redundant Pathways that Regulate Microtubule Density and Trigger Cleavage Furrow Formation. <i>Developmental Cell</i> , 2003, 4, 333-344.	3.1	174
24	CDK1 Inactivation Regulates Anaphase Spindle Dynamics and Cytokinesis In Vivo. <i>Journal of Cell Biology</i> , 1997, 138, 385-393.	2.3	171
25	RhoA activation during polarization and cytokinesis of the early <i>Caenorhabditis elegans</i> embryo is differentially dependent on NOP-1 and CYK-4. <i>Molecular Biology of the Cell</i> , 2012, 23, 4020-4031.	0.9	167
26	Cytoplasmic flows localize injected oskar RNA in <i>Drosophila</i> oocytes. <i>Current Biology</i> , 1997, 7, 326-337.	1.8	157
27	Depletion of syntaxins in the early <i>Caenorhabditis elegans</i> embryo reveals a role for membrane fusion events in cytokinesis. <i>Current Biology</i> , 1999, 9, 738-745.	1.8	152
28	Local RhoA activation induces cytokinetic furrows independent of spindle position and cell cycle stage. <i>Journal of Cell Biology</i> , 2016, 213, 641-649.	2.3	146
29	Astral Signals Spatially Bias Cortical Myosin Recruitment to Break Symmetry and Promote Cytokinesis. <i>Current Biology</i> , 2007, 17, 1286-1297.	1.8	144
30	Centralspindlin: At the heart of cytokinesis. <i>Cytoskeleton</i> , 2012, 69, 882-892.	1.0	135
31	Spatiotemporal Regulation of RhoA during Cytokinesis. <i>Current Biology</i> , 2018, 28, R570-R580.	1.8	135
32	Optogenetic control of RhoA reveals zyxin-mediated elasticity of stress fibres. <i>Nature Communications</i> , 2017, 8, 15817.	5.8	123
33	The mechanism and control of cytokinesis. <i>Current Opinion in Cell Biology</i> , 1997, 9, 815-823.	2.6	121
34	Cooperative Assembly of CYK-4/MgcRacGAP and ZEN-4/MKLP1 to Form the Centralspindlin Complex. <i>Molecular Biology of the Cell</i> , 2007, 18, 4992-5003.	0.9	105
35	Cleavage furrow positioning. <i>Journal of Cell Biology</i> , 2004, 164, 347-351.	2.3	100
36	Clustering of Centralspindlin Is Essential for Its Accumulation to the Central Spindle and the Midbody. <i>Current Biology</i> , 2009, 19, 2043-2049.	1.8	96

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37	Aurora B Kinase Promotes Cytokinesis by Inducing Centralspindlin Oligomers that Associate with the Plasma Membrane. <i>Developmental Cell</i> , 2015, 33, 204-215.	3.1	95
38	CSC-1. <i>Journal of Cell Biology</i> , 2003, 161, 229-236.	2.3	93
39	The RhoGAP Domain of CYK-4 Has an Essential Role in RhoA Activation. <i>Current Biology</i> , 2012, 22, 213-219.	1.8	92
40	The CeCDC-14 phosphatase is required for cytokinesis in the <i>Caenorhabditis elegans</i> embryo. <i>Journal of Cell Biology</i> , 2002, 158, 901-914.	2.3	88
41	The RhoGAP activity of CYK-4/MgcRacGAP functions non-canonically by promoting RhoA activation during cytokinesis. <i>ELife</i> , 2015, 4, .	2.8	87
42	GTP Binding Induces Filament Assembly of a Recombinant Septin. <i>Current Biology</i> , 2002, 12, 1858-1863.	1.8	86
43	Sequential Cyk-4 binding to ECT2 and FIP3 regulates cleavage furrow ingression and abscission during cytokinesis. <i>EMBO Journal</i> , 2008, 27, 1791-1803.	3.5	84
44	Cytokinesis in Metazoa and Fungi. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a022343.	2.3	63
45	Cell cycle entry triggers a switch between two modes of Cdc42 activation during yeast polarization. <i>ELife</i> , 2017, 6, .	2.8	59
46	Regulation of cortical contractility and spindle positioning by the protein phosphatase 6 PPH-6 in one-cell stage <i>C. elegans</i> embryos. <i>Development (Cambridge)</i> , 2010, 137, 237-247.	1.2	53
47	Anillin promotes astral microtubule-directed cortical myosin polarization. <i>Molecular Biology of the Cell</i> , 2011, 22, 3165-3175.	0.9	49
48	Control of cortical contractility during cytokinesis. <i>Biochemical Society Transactions</i> , 2008, 36, 371-377.	1.6	42
49	Cytokinesis: progress on all fronts. <i>Current Opinion in Cell Biology</i> , 2003, 15, 684-690.	2.6	40
50	Developmental Regulation of Central Spindle Assembly and Cytokinesis during Vertebrate Embryogenesis. <i>Current Biology</i> , 2008, 18, 116-123.	1.8	38
51	Competition between kinesin-1 and myosin-V defines <i>Drosophila</i> posterior determination. <i>ELife</i> , 2020, 9, .	2.8	36
52	Cytokinesis: a logical GAP. <i>Current Biology</i> , 2003, 13, R589-R591.	1.8	33
53	Optical Control of Peroxisomal Trafficking. <i>ACS Synthetic Biology</i> , 2016, 5, 554-560.	1.9	32
54	PLK1 plays dual roles in centralspindlin regulation during cytokinesis. <i>Journal of Cell Biology</i> , 2019, 218, 1250-1264.	2.3	32

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55	Structural analysis of the ZEN-4/CeMKLP1 motor domain and its interaction with microtubules. <i>Journal of Structural Biology</i> , 2006, 153, 73-84.	1.3	21
56	Binding of the CYK-4 Subunit of the Centralspindlin Complex Induces a Large Scale Conformational Change in the Kinesin Subunit. <i>Journal of Biological Chemistry</i> , 2013, 288, 19785-19795.	1.6	19
57	Rho1 activation recapitulates early gastrulation events in the ventral, but not dorsal, epithelium of <i>Drosophila</i> embryos. <i>ELife</i> , 2020, 9, .	2.8	18
58	Cytokinesis: GAP Gap. <i>Current Biology</i> , 2009, 19, R162-R165.	1.8	14
59	Cytokinesis: Centralspindlin Moonlights as a Membrane Anchor. <i>Current Biology</i> , 2013, 23, R145-R147.	1.8	10
60	Cytokinesis. <i>Current Biology</i> , 1997, 7, R274-R276.	1.8	9
61	A GAP that Divides. <i>F1000Research</i> , 2017, 6, 1788.	0.8	9
62	Single cells (put a ring on it). <i>Genes and Development</i> , 2009, 23, 896-901.	2.7	7
63	Cytokinesis: Integrating signaling, the cytoskeleton, and membranes to create new daughter cells. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 865.	2.3	6
64	Cytokinesis: Placing the Furrow in Context. <i>Current Biology</i> , 2015, 25, R1183-R1185.	1.8	3
65	Cortical recruitment of centralspindlin and RhoA effectors during meiosis I of <i>Caenorhabditis elegans</i> primary spermatocytes. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	3
66	Controlling Cytokinesis through Promiscuous Phosphorylation outside BARs. <i>Molecular Cell</i> , 2010, 39, 3-5.	4.5	2
67	Cytokinesis: Regulated By Destruction. <i>Current Biology</i> , 2002, 12, R344-R346.	1.8	1
68	The RhoGAP Domain of CYK-4 Has an Essential Role in RhoA Activation. <i>Current Biology</i> , 2012, 22, 259.	1.8	1
69	Small GTPases modulate intrinsic and extrinsic forces that control epithelial folding in <i>Drosophila</i> embryos. <i>Small GTPases</i> , 2021, 12, 1-13.	0.7	1
70	Cytokinesis. , 2004, , 556-561.		0