

Michael Glotzer

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68
papers

11,470
citations

45
h-index

107
g-index

108
ext. papers

12,570
ext. citations

11.8
avg, IF

6.52
L-index

#	Paper	IF	Citations
68	Cyclin is degraded by the ubiquitin pathway. <i>Nature</i> , 1991 , 349, 132-8	50.4	2102
67	Cyclin activation of p34cdc2. <i>Cell</i> , 1990 , 63, 1013-24	56.2	678
66	Cyclin is a component of maturation-promoting factor from <i>Xenopus</i> . <i>Cell</i> , 1990 , 60, 487-94	56.2	624
65	The molecular requirements for cytokinesis. <i>Science</i> , 2005 , 307, 1735-9	33.3	574
64	Anaphase is initiated by proteolysis rather than by the inactivation of maturation-promoting factor. <i>Cell</i> , 1993 , 73, 1393-402	56.2	536
63	Central spindle assembly and cytokinesis require a kinesin-like protein/RhoGAP complex with microtubule bundling activity. <i>Developmental Cell</i> , 2002 , 2, 41-54	10.2	402
62	An ECT2-centralspindlin complex regulates the localization and function of RhoA. <i>Journal of Cell Biology</i> , 2005 , 170, 571-82	7.3	357
61	TULIPs: tunable, light-controlled interacting protein tags for cell biology. <i>Nature Methods</i> , 2012 , 9, 379-84	11.6	348
60	CYK-4: A Rho family gtpase activating protein (GAP) required for central spindle formation and cytokinesis. <i>Journal of Cell Biology</i> , 2000 , 149, 1391-404	7.3	309
59	Cytokinesis: welcome to the Rho zone. <i>Trends in Cell Biology</i> , 2005 , 15, 651-8	18.3	287
58	Anillin is a scaffold protein that links RhoA, actin, and myosin during cytokinesis. <i>Current Biology</i> , 2008 , 18, 30-6	6.3	285
57	Animal cell cytokinesis. <i>Annual Review of Cell and Developmental Biology</i> , 2001 , 17, 351-86	12.6	275
56	The 3Ms of central spindle assembly: microtubules, motors and MAPs. <i>Nature Reviews Molecular Cell Biology</i> , 2009 , 10, 9-20	48.7	267
55	Incenp and an aurora-like kinase form a complex essential for chromosome segregation and efficient completion of cytokinesis. <i>Current Biology</i> , 2000 , 10, 1172-81	6.3	264
54	Comparative analysis of cytokinesis in budding yeast, fission yeast and animal cells. <i>Current Biology</i> , 2004 , 14, R806-18	6.3	259
53	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, 713-25	10.2	229
52	Cell cycle regulation of central spindle assembly. <i>Nature</i> , 2004 , 430, 908-13	50.4	216

51	A requirement for Rho and Cdc42 during cytokinesis in <i>Xenopus</i> embryos. <i>Current Biology</i> , 1997 , 7, 12-23	6.3	213
50	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	6.3	199
49	Kleisins: a superfamily of bacterial and eukaryotic SMC protein partners. <i>Molecular Cell</i> , 2003 , 11, 571-5	17.6	186
48	Phosphorylation of ZEN-4/MKLP1 by aurora B regulates completion of cytokinesis. <i>Current Biology</i> , 2005 , 15, 778-86	6.3	172
47	Polo-like kinase 1 directs assembly of the HsCyk-4 RhoGAP/Ect2 RhoGEF complex to initiate cleavage furrow formation. <i>PLoS Biology</i> , 2009 , 7, e1000110	9.7	161
46	CDK1 inactivation regulates anaphase spindle dynamics and cytokinesis in vivo. <i>Journal of Cell Biology</i> , 1997 , 138, 385-93	7.3	160
45	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, 333-44	10.2	151
44	Cytoplasmic flows localize injected oskar RNA in <i>Drosophila</i> oocytes. <i>Current Biology</i> , 1997 , 7, 326-37	6.3	145
43	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, 738-45	6.3	139
42	Astral signals spatially bias cortical myosin recruitment to break symmetry and promote cytokinesis. <i>Current Biology</i> , 2007 , 17, 1286-97	6.3	122
41	The mechanism and control of cytokinesis. <i>Current Opinion in Cell Biology</i> , 1997 , 9, 815-23	9	118
40	Centralspindlin: at the heart of cytokinesis. <i>Cytoskeleton</i> , 2012 , 69, 882-92	2.4	102
39	Local RhoA activation induces cytokinetic furrows independent of spindle position and cell cycle stage. <i>Journal of Cell Biology</i> , 2016 , 213, 641-9	7.3	98
38	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, 4020-31	3.5	93
37	Cleavage furrow positioning. <i>Journal of Cell Biology</i> , 2004 , 164, 347-51	7.3	91
36	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	3.5	86
35	The CeCDC-14 phosphatase is required for cytokinesis in the <i>Caenorhabditis elegans</i> embryo. <i>Journal of Cell Biology</i> , 2002 , 158, 901-14	7.3	82
34	CSC-1: a subunit of the Aurora B kinase complex that binds to the survivin-like protein BIR-1 and the incenp-like protein ICP-1. <i>Journal of Cell Biology</i> , 2003 , 161, 229-36	7.3	80

33	GTP binding induces filament assembly of a recombinant septin. <i>Current Biology</i> , 2002 , 12, 1858-63	6.3	78
32	Clustering of centralspindlin is essential for its accumulation to the central spindle and the midbody. <i>Current Biology</i> , 2009 , 19, 2043-9	6.3	77
31	Sequential Cyk-4 binding to ECT2 and FIP3 regulates cleavage furrow ingression and abscission during cytokinesis. <i>EMBO Journal</i> , 2008 , 27, 1791-803	13	74
30	Optogenetic control of RhoA reveals zyxin-mediated elasticity of stress fibres. <i>Nature Communications</i> , 2017 , 8, 15817	17.4	71
29	Aurora B kinase promotes cytokinesis by inducing centralspindlin oligomers that associate with the plasma membrane. <i>Developmental Cell</i> , 2015 , 33, 204-15	10.2	67
28	The RhoGAP domain of CYK-4 has an essential role in RhoA activation. <i>Current Biology</i> , 2012 , 22, 213-9	6.3	65
27	Spatiotemporal Regulation of RhoA during Cytokinesis. <i>Current Biology</i> , 2018 , 28, R570-R580	6.3	58
26	The RhoGAP activity of CYK-4/MgcRacGAP functions non-canonically by promoting RhoA activation during cytokinesis. <i>ELife</i> , 2015 , 4,	8.9	50
25	Cell cycle entry triggers a switch between two modes of Cdc42 activation during yeast polarization. <i>ELife</i> , 2017 , 6,	8.9	46
24	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, 237-47	6.6	45
23	Cytokinesis in Metazoa and Fungi. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017 , 9,	10.2	44
22	Control of cortical contractility during cytokinesis. <i>Biochemical Society Transactions</i> , 2008 , 36, 371-7	5.1	40
21	Cytokinesis: progress on all fronts. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 684-90	9	40
20	Anillin promotes astral microtubule-directed cortical myosin polarization. <i>Molecular Biology of the Cell</i> , 2011 , 22, 3165-75	3.5	36
19	Developmental regulation of central spindle assembly and cytokinesis during vertebrate embryogenesis. <i>Current Biology</i> , 2008 , 18, 116-23	6.3	35
18	Cytokinesis: a logical GAP. <i>Current Biology</i> , 2003 , 13, R589-91	6.3	28
17	Optical Control of Peroxisomal Trafficking. <i>ACS Synthetic Biology</i> , 2016 , 5, 554-60	5.7	27
16	PLK1 plays dual roles in centralspindlin regulation during cytokinesis. <i>Journal of Cell Biology</i> , 2019 , 218, 1250-1264	7.3	19

15	Structural analysis of the ZEN-4/CeMKLP1 motor domain and its interaction with microtubules. <i>Journal of Structural Biology</i> , 2006 , 153, 73-84	3.4	19
14	Competition between kinesin-1 and myosin-V defines posterior determination. <i>ELife</i> , 2020 , 9,	8.9	17
13	Cytokinesis: GAP gap. <i>Current Biology</i> , 2009 , 19, R162-5	6.3	13
12	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, 19785-95	5.4	11
11	Cytokinesis. <i>Current Biology</i> , 1997 , 7, R274-6	6.3	9
10	Cytokinesis: centralspindlin moonlights as a membrane anchor. <i>Current Biology</i> , 2013 , 23, R145-7	6.3	8
9	Rho1 activation recapitulates early gastrulation events in the ventral, but not dorsal, epithelium of embryos. <i>ELife</i> , 2020 , 9,	8.9	8
8	Single cells (put a ring on it). <i>Genes and Development</i> , 2009 , 23, 896-901	12.6	7
7	A GAP that Divides. <i>F1000Research</i> , 2017 , 6, 1788	3.6	7
6	Efficient site-specific editing of the <i>C. elegans</i> genome		4
5	Cytokinesis: Placing the Furrow in Context. <i>Current Biology</i> , 2015 , 25, R1183-5	6.3	2
4	Controlling cytokinesis through promiscuous phosphorylation outside BARs. <i>Molecular Cell</i> , 2010 , 39, 3-5	17.6	1
3	Cytokinesis: regulated by destruction. <i>Current Biology</i> , 2002 , 12, R344-6	6.3	1
2	Cytokinesis 2004 , 556-561		
1	Small GTPases modulate intrinsic and extrinsic forces that control epithelial folding in embryos. <i>Small GTPases</i> , 2021 , 12, 416-428	2.7	