Thomas D Pollard

List of Publications by Year
in descending order

219 papers	32,531 citations	4120 87 h-index	4419 172 g-index
238 all docs	238 docs citations	238 times ranked	19944 citing authors

#	Article	IF	Citations
1	Counting actin in contractile rings reveals novel contributions of cofilin and type II myosins to fission yeast cytokinesis. Molecular Biology of the Cell, 2022, 33, mbcE21080376.	0.9	13
2	Origin of eukaryotes: What can be learned from the first successfully isolated Asgard archaeon. Faculty Reviews, 2022, 11, 3.	1.7	2
3	A model of actin-driven endocytosis explains differences of endocytic motility in budding and fission yeast. Molecular Biology of the Cell, 2022, 33, mbcE21070362.	0.9	3
4	Sample Preparation and Imaging Conditions Affect mEos3.2 Photophysics in Fission Yeast Cells. Biophysical Journal, 2021, 120, 21-34.	0.2	5
5	Mechanism of actin filament nucleation. Biophysical Journal, 2021, 120, 4399-4417.	0.2	12
6	Microtubule nucleation promoters Mto1 and Mto2 regulate cytokinesis in fission yeast. Molecular Biology of the Cell, 2020, 31, 1846-1856.	0.9	7
7	Structural basis for polarized elongation of actin filaments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30458-30464.	3.3	27
8	Cryo-electron microscopy structures of pyrene-labeled ADP-Pi- and ADP-actin filaments. Nature Communications, 2020, 11, 5897.	5.8	16
9	Force and phosphate release from Arp2/3 complex promote dissociation of actin filament branches. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13519-13528.	3.3	47
10	Myosins in Cytokinesis. Advances in Experimental Medicine and Biology, 2020, 1239, 233-244.	0.8	7
11	Cell Motility and Cytokinesis: From Mysteries to Molecular Mechanisms in Five Decades. Annual Review of Cell and Developmental Biology, 2019, 35, 1-28.	4.0	20
12	Actin assembly produces sufficient forces for endocytosis in yeast. Molecular Biology of the Cell, 2019, 30, 2014-2024.	0.9	24
13	The Functionally Important N-Terminal Half of Fission Yeast Mid1p Anillin Is Intrinsically Disordered and Undergoes Phase Separation. Biochemistry, 2019, 58, 3031-3041.	1.2	21
14	Empowering statistical methods for cellular and molecular biologists. Molecular Biology of the Cell, 2019, 30, 1359-1368.	0.9	38
15	Mechanism of actin polymerization revealed by cryo-EM structures of actin filaments with three different bound nucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4265-4274.	3.3	173
16	Molecular Mechanism of Cytokinesis. Annual Review of Biochemistry, 2019, 88, 661-689.	5.0	142
17	Direct comparison of clathrin-mediated endocytosis in budding and fission yeast reveals conserved and evolvable features. ELife, 2019, 8, .	2.8	31
18	Fission yeast Myo2: Molecular organization and diffusion in the cytoplasm. Cytoskeleton, 2018, 75, 164-173.	1.0	9

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19	High-speed superresolution imaging of the proteins in fission yeast clathrin-mediated endocytic actin patches. Molecular Biology of the Cell, 2018, 29, 295-303.	0.9	28
20	Latrunculin A Accelerates Actin Filament Depolymerization in Addition to Sequestering Actin Monomers. Current Biology, 2018, 28, 3183-3192.e2.	1.8	96
21	Evolution of research on cellular motility over five decades. Biophysical Reviews, 2018, 10, 1503-1508.	1.5	4
22	Conformational changes in Arp2/3 complex induced by ATP, WASp-VCA, and actin filaments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8642-E8651.	3.3	43
23	Overview of the Cytoskeleton from an Evolutionary Perspective. Cold Spring Harbor Perspectives in Biology, 2018, 10, a030288.	2.3	71
24	Involvement of Septation Initiation Network (SIN) in events during cytokinesis in fission yeast. Journal of Cell Science, 2018, 131, .	1.2	6
25	Gating mechanisms during actin filament elongation by formins. ELife, 2018, 7, .	2.8	25
26	Phosphorylation of Arp2 is not essential for Arp2/3 complex activity in fission yeast. Life Science Alliance, 2018, 1, e201800202.	1.3	5
27	Response to Zambon et al.. Current Biology, 2017, 27, R101-R102.	1.8	4
28	Tribute to Fumio Oosawa the pioneer in actin biophysics. Cytoskeleton, 2017, 74, 446-449.	1.0	2
29	Analysis of interphase node proteins in fission yeast by quantitative and superresolution fluorescence microscopy. Molecular Biology of the Cell, 2017, 28, 3203-3214.	0.9	29
30	Nano-scale actin-network characterization of fibroblast cells lacking functional Arp2/3 complex. Journal of Structural Biology, 2017, 197, 312-321.	1.3	21
31	Nine unanswered questions about cytokinesis. Journal of Cell Biology, 2017, 216, 3007-3016.	2.3	73
32	A Third Look at the Structure of Leiomodin Bound to Actin. Biophysical Journal, 2017, 113, 762-764.	0.2	0
33	Membrane fission by dynamin: what we know and what we need to know. EMBO Journal, 2016, 35, 2270-2284.	3.5	388
34	Avoiding artefacts when counting polymerized actin in live cells with LifeAct fused to fluorescent proteins. Nature Cell Biology, 2016, 18, 676-683.	4.6	117
35	Molecular organization of cytokinesis nodes and contractile rings by super-resolution fluorescence microscopy of live fission yeast. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5876-E5885.	3.3	121
36	What We Know and Do Not Know About Actin. Handbook of Experimental Pharmacology, 2016, 235, 331-347.	0.9	39

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37	Theory from the Oster Laboratory Leaps Ahead of Experiment in Understanding Actin-Based Cellular Motility. Biophysical Journal, 2016, 111, 1589-1592.	0.2	6
38	Mechanistic biological modeling thrives. Science, 2016, 351, 234-235.	6.0	2
39	Actin and Actin-Binding Proteins. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018226.	2.3	584
40	High-Speed Super-Resolution Imaging of Live Fission Yeast Cells. Methods in Molecular Biology, 2016, 1369, 45-57.	0.4	22
41	New Light on Growth Cone Navigation. Developmental Cell, 2015, 35, 672-673.	3.1	1
42	A role for F-BAR protein Rga7p during cytokinesis in <i>S. pombe</i>. Journal of Cell Science, 2015, 128, 2259-2268.	1.2	25
43	Electrostatic Interactions between the Bni1p Formin FH2 Domain and Actin Influence Actin Filament Nucleation. Structure, 2015, 23, 68-79.	1.6	24
44	Aip1 Promotes Actin Filament Severing by Cofilin and Regulates Constriction of the Cytokinetic Contractile Ring. Journal of Biological Chemistry, 2015, 290, 2289-2300.	1.6	57
45	Three Myosins Contribute Uniquely to the Assembly and Constriction of the Fission Yeast Cytokinetic Contractile Ring. Current Biology, 2015, 25, 1955-1965.	1.8	85
46	Abl2/Abl-related Gene Stabilizes Actin Filaments, Stimulates Actin Branching by Actin-related Protein 2/3 Complex, and Promotes Actin Filament Severing by Cofilin. Journal of Biological Chemistry, 2015, 290, 4038-4046.	1.6	36
47	Crystals of the Arp2/3 complex in two new space groups with structural information about actin-related protein 2 and potential WASP binding sites. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1161-1168.	0.4	9
48	The fission yeast cytokinetic contractile ring regulates septum shape and closure. Journal of Cell Science, 2015, 128, 3672-81.	1.2	41
49	The septation initiation network controls the assembly of nodes containing Cdr2p for cytokinesis in fission yeast. Journal of Cell Science, 2014, 128, 441-6.	1.2	15
50	Synergies between Aip1p and capping protein subunits (Acp1p and Acp2p) in clathrin-mediated endocytosis and cell polarization in fission yeast. Molecular Biology of the Cell, 2014, 25, 3515-3527.	0.9	40
51	Local and global analysis of endocytic patch dynamics in fission yeast using a new â€œtemporal superresolutionâ€•realignment method. Molecular Biology of the Cell, 2014, 25, 3501-3514.	0.9	56
52	The Value of Mechanistic Biophysical Information for Systems-Level Understanding of Complex Biological Processes Such as Cytokinesis. Biophysical Journal, 2014, 107, 2499-2507.	0.2	24
53	Cytokinetic nodes in fission yeast arise from two distinct types of nodes that merge during interphase. Journal of Cell Biology, 2014, 204, 977-988.	2.3	60
54	Contractile Ring Stability in S.Âpombe Depends on F-BAR Protein Cdc15p and Bgs1p Transport from the Golgi Complex. Cell Reports, 2014, 8, 1533-1544.	2.9	78

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55	Characterization of the roles of Blt1p in fission yeast cytokinesis. Molecular Biology of the Cell, 2014, 25, 1946-1957.	0.9	25
56	Mechanism of Cytokinetic Contractile Ring Constriction in Fission Yeast. Developmental Cell, 2014, 29, 547-561.	3.1	127
57	Interaction of Profilin with the Barbed End of Actin Filaments. Biochemistry, 2013, 52, 6456-6466.	1.2	75
58	Measuring Affinities of Fission Yeast Spindle Pole Body Proteins in Live Cells across the Cell Cycle. Biophysical Journal, 2013, 105, 1324-1335.	0.2	13
59	Actin Filament Severing by Cofilin Dismantles Actin Patches and Produces Mother Filaments for New Patches. Current Biology, 2013, 23, 1154-1162.	1.8	71
60	Separate roles of IQGAP Rng2p in forming and constricting the<i>Schizosaccharomyces pombe</i>cytokinetic contractile ring. Molecular Biology of the Cell, 2013, 24, 1904-1917.	0.9	27
61	No Question about Exciting Questions in Cell Biology. PLoS Biology, 2013, 11, e1001734.	2.6	12
62	Take advantage of time in your experiments: a guide to simple, informative kinetics assays. Molecular Biology of the Cell, 2013, 24, 1103-1110.	0.9	45
63	Tension modulates actin filament polymerization mediated by formin and profilin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9752-9757.	3.3	115
64	Remembrance of Hugh E. Huxley, a founder of our field. Cytoskeleton, 2013, 70, 471-475.	1.0	2
65	Anillin-related protein Mid1p coordinates the assembly of the cytokinetic contractile ring in fission yeast. Molecular Biology of the Cell, 2012, 23, 3982-3992.	0.9	44
66	Three-dimensional reconstructions of Arp2/3 complex with bound nucleation promoting factors. EMBO Journal, 2012, 31, 236-247.	3.5	67
67	Characterization of structural and functional domains of the anillin-related protein Mid1p that contribute to cytokinesis in fission yeast. Molecular Biology of the Cell, 2012, 23, 3993-4007.	0.9	26
68	Arp2/3 complexâ€"dependent actin networks constrain myosin II function in driving retrograde actin flow. Journal of Cell Biology, 2012, 197, 939-956.	2.3	140
69	Political advocacy by the American Society for Cell Biology and its partners. Molecular Biology of the Cell, 2012, 23, 4171-4174.	0.9	1
70	Remembrance of Ray Rappaport, pioneer in the study of cytokinesis. Cytoskeleton, 2012, 69, 659-669.	1.0	2
71	The Obligation for Biologists to Commit to Political Advocacy. Cell, 2012, 151, 239-243.	13.5	11
72	Determinants of Formin Homology 1 (FH1) Domain Function in Actin Filament Elongation by Formins. Journal of Biological Chemistry, 2012, 287, 7812-7820.	1.6	64

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73	Key Structural Features of the Actin Filament Arp2/3 Complex Branch Junction Revealed by Molecular Simulation. Journal of Molecular Biology, 2012, 416, 148-161.	2.0	29
74	Formins filter modified actin subunits during processive elongation. Journal of Structural Biology, 2012, 177, 32-39.	1.3	80
75	Distinct Roles for F-BAR Proteins Cdc15p and Bzz1p in Actin Polymerization at Sites of Endocytosis in Fission Yeast. Current Biology, 2011, 21, 1450-1459.	1.8	80
76	Actin filament severing by cofilin is more important for assembly than constriction of the cytokinetic contractile ring. Journal of Cell Biology, 2011, 195, 485-498.	2.3	92
77	Purification of Actin from Fission Yeast Schizosaccharomyces pombe and Characterization of Functional Differences from Muscle Actin*. Journal of Biological Chemistry, 2011, 286, 5784-5792.	1.6	27
78	Formin Tip Tracking. Science, 2011, 331, 39-41.	6.0	0
79	Structural and biochemical characterization of two binding sites for nucleation-promoting factor WASp-VCA on Arp2/3 complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E463-71.	3.3	124
80	Mechanics of cytokinesis in eukaryotes. Current Opinion in Cell Biology, 2010, 22, 50-56.	2.6	274
81	Understanding cytokinesis: lessons from fission yeast. Nature Reviews Molecular Cell Biology, 2010, 11, 149-155.	16.1	295
82	A Guide to Simple and Informative Binding Assays. Molecular Biology of the Cell, 2010, 21, 4061-4067.	0.9	346
83	Mathematical Modeling of Endocytic Actin Patch Kinetics in Fission Yeast: Disassembly Requires Release of Actin Filament Fragments. Molecular Biology of the Cell, 2010, 21, 2905-2915.	0.9	114
84	Quantitative Analysis of the Mechanism of Endocytic Actin Patch Assembly and Disassembly in Fission Yeast. Molecular Biology of the Cell, 2010, 21, 2894-2904.	0.9	159
85	Molecular Dynamics Simulations of Arp2/3 Complex Activation. Biophysical Journal, 2010, 99, 2568-2576.	0.2	24
86	Regulation of Actin Polymerization and Adhesion-Dependent Cell Edge Protrusion by the Abl-Related Gene (Arg) Tyrosine Kinase and N-WASp. Biochemistry, 2010, 49, 2227-2234.	1.2	28
87	Structure and Dynamics of the Actin Filament. Journal of Molecular Biology, 2010, 396, 252-263.	2.0	84
88	Analyzing the Interaction of ADF/Cofilin with Actin through Molecular Dynamics Simulations. , 2009, , .		0
89	Nucleotide-dependent conformational states of actin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12723-12728.	3.3	106
90	Mathematical Models and Simulations of Cellular Processes Based on Actin Filaments*. Journal of Biological Chemistry, 2009, 284, 5433-5437.	1.6	45

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91	Incompatibility with Formin Cdc12p Prevents Human Profilin from Substituting for Fission Yeast Profilin. Journal of Biological Chemistry, 2009, 284, 2088-2097.	1.6	45
92	Energetic Requirements for Processive Elongation of Actin Filaments by FH1FH2-formins. Journal of Biological Chemistry, 2009, 284, 12533-12540.	1.6	44
93	Cofilin Dissociates Arp2/3 Complex and Branches from Actin Filaments. Current Biology, 2009, 19, 537-545.	1.8	172
94	Review of the mechanism of processive actin filament elongation by formins. Cytoskeleton, 2009, 66, 606-617.	4.4	202
95	Actin, a Central Player in Cell Shape and Movement. Science, 2009, 326, 1208-1212.	6.0	1,673
96	Nucleotide- and Activator-Dependent Structural and Dynamic Changes of Arp2/3 Complex Monitored by Hydrogen/Deuterium Exchange and Mass Spectrometry. Journal of Molecular Biology, 2009, 390, 414-427.	2.0	15
97	The Role of the FH1 Domain and Profilin in Formin-Mediated Actin-Filament Elongation and Nucleation. Current Biology, 2008, 18, 9-19.	1.8	197
98	Nucleotide-Mediated Conformational Changes of Monomeric Actin and Arp3 Studied by Molecular Dynamics Simulations. Journal of Molecular Biology, 2008, 376, 166-183.	2.0	49
99	A Malaria Parasite Formin Regulates Actin Polymerization and Localizes to the Parasite-Erythrocyte Moving Junction during Invasion. Cell Host and Microbe, 2008, 3, 188-198.	5.1	105
100	Chapter 9 Counting Proteins in Living Cells by Quantitative Fluorescence Microscopy with Internal Standards. Methods in Cell Biology, 2008, 89, 253-273.	0.5	59
101	Influence of Phalloidin on the Formation of Actin Filament Branches by Arp2/3 Complex. Biochemistry, 2008, 47, 6460-6467.	1.2	17
102	Assembly Mechanism of the Contractile Ring for Cytokinesis by Fission Yeast. Science, 2008, 319, 97-100.	6.0	346
103	Leiomodin Is an Actin Filament Nucleator in Muscle Cells. Science, 2008, 320, 239-243.	6.0	207
104	Yeast UCS proteins promote actomyosin interactions and limit myosin turnover in cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8014-8019.	3.3	33
105	Pathway of Actin Filament Branch Formation by Arp2/3 Complex. Journal of Biological Chemistry, 2008, 283, 7135-7144.	1.6	90
106	The structural basis of actin filament branching by the Arp2/3 complex. Journal of Cell Biology, 2008, 180, 887-895.	2.3	270
107	Structure and Biochemical Properties of Fission Yeast Arp2/3 Complex Lacking the Arp2 Subunit. Journal of Biological Chemistry, 2008, 283, 26490-26498.	1.6	41
108	Progress towards understanding the mechanism of cytokinesis in fission yeast. Biochemical Society Transactions, 2008, 36, 425-430.	1.6	34

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109	Molecular basis of cytokinesis in fission yeast. FASEB Journal, 2008, 22, 115.2.	0.2	0
110	Polymerization kinetics of ADP- and ADP-Pi-actin determined by fluorescence microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8827-8832.	3.3	192
111	Visualizing Arp2/3 complex activation mediated by binding of ATP and WASp using structural mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1552-1557.	3.3	55
112	Insights into the Influence of Nucleotides on Actin Family Proteins from Seven Structures of Arp2/3 Complex. Molecular Cell, 2007, 26, 449-457.	4.5	70
113	Regulation of Actin Filament Assembly by Arp2/3 Complex and Formins. Annual Review of Biophysics and Biomolecular Structure, 2007, 36, 451-477.	18.3	850
114	Kinetics of the Formation and Dissociation of Actin Filament Branches Mediated by Arp2/3 Complex. Biophysical Journal, 2006, 91, 3519-3528.	0.2	61
115	Control of the Assembly of ATP- and ADP-Actin by Formins and Profilin. Cell, 2006, 124, 423-435.	13.5	509
116	Model of Formin-Associated Actin Filament Elongation. Molecular Cell, 2006, 21, 455-466.	4.5	174
117	Mechanism of Actin Filament Turnover by Severing and Nucleation at Different Concentrations of ADF/Cofilin. Molecular Cell, 2006, 24, 13-23.	4.5	597
118	Assembly of the cytokinetic contractile ring from a broad band of nodes in fission yeast. Journal of Cell Biology, 2006, 174, 391-402.	2.3	243
119	Reconstitution of the transition from lamellipodium to filopodium in a membrane-free system. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4906-4911.	3.3	86
120	Cytokinesis Depends on the Motor Domains of Myosin-II in Fission Yeast but Not in Budding Yeast. Molecular Biology of the Cell, 2005, 16, 5346-5355.	0.9	88
121	Profilin-mediated Competition between Capping Protein and Formin Cdc12p during Cytokinesis in Fission Yeast. Molecular Biology of the Cell, 2005, 16, 2313-2324.	0.9	110
122	Interactions of WASp, myosin-I, and verprolin with Arp2/3 complex during actin patch assembly in fission yeast. Journal of Cell Biology, 2005, 170, 637-648.	2.3	143
123	Counting Cytokinesis Proteins Globally and Locally in Fission Yeast. Science, 2005, 310, 310-314.	6.0	531
124	Real-Time Measurements of Actin Filament Polymerization by Total Internal Reflection Fluorescence Microscopy. Biophysical Journal, 2005, 88, 1387-1402.	0.2	363
125	UCS protein Rng3p activates actin filament gliding by fission yeast myosin-II. Journal of Cell Biology, 2004, 167, 315-325.	2.3	120
126	Insertional assembly of actin filament barbed ends in association with formins produces piconewton forces. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14725-14730.	3.3	403

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127	Crystal structures of actin-related protein 2/3 complex with bound ATP or ADP. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15627-15632.	3.3	81
128	Progressing actin: Formin as a processive elongation machine. Nature Cell Biology, 2004, 6, 1158-1159.	4.6	49
129	John Heuser's contributions to the visualization of the actin cytoskeleton by electron microscopy. European Journal of Cell Biology, 2004, 83, 253-255.	1.6	1
130	Ray rappaport chronology: Twenty-five years of seminal papers on cytokinesis in the journal of experimental zoology. The Journal of Experimental Zoology, 2004, 301A, 9-14.	1.4	11
131	Identification of Functionally Important Residues of Arp2/3 Complex by Analysis of Homology Models from Diverse Species. Journal of Molecular Biology, 2004, 336, 551-565.	2.0	64
132	Formins Coming into Focus. Developmental Cell, 2004, 6, 312-314.	3.1	14
133	Functional genomics of cell morphology using RNA interference: pick your style, broad or deep. , 2003, 2, 25.		13
134	A conserved amphipathic helix in WASP/Scar proteins is essential for activation of Arp2/3 complex. Nature Structural and Molecular Biology, 2003, 10, 591-598.	3.6	133
135	The cytoskeleton, cellular motility and the reductionist agenda. Nature, 2003, 422, 741-745.	13.7	259
136	Cellular Motility Driven by Assembly and Disassembly of Actin Filaments. Cell, 2003, 112, 453-465.	13.5	3,717
137	Spatial and Temporal Pathway for Assembly and Constriction of the Contractile Ring in Fission Yeast Cytokinesis. Developmental Cell, 2003, 5, 723-734.	3.1	363
138	The fission yeast cytokinesis formin Cdc12p is a barbed end actin filament capping protein gated by profilin. Journal of Cell Biology, 2003, 161, 875-887.	2.3	313
139	Xenopus Actin-interacting Protein 1 (XAip1) Enhances Cofilin Fragmentation of Filaments by Capping Filament Ends. Journal of Biological Chemistry, 2002, 277, 43011-43016.	1.6	93
140	Hydrolysis of ATP by Polymerized Actin Depends on the Bound Divalent Cation but Not Profilin. Biochemistry, 2002, 41, 597-602.	1.2	161
141	Structure and function of the Arp2/3 complex. Current Opinion in Structural Biology, 2002, 12, 768-774.	2.6	129
142	Cellular motility powered by actin filament assembly and disassembly. Harvey Lectures, 2002, 98, 1-17.	0.2	5
143	Regulation of Actin Filament Network Formation Through ARP2/3 Complex: Activation by a Diverse Array of Proteins. Annual Review of Biochemistry, 2001, 70, 649-676.	5.0	608
144	Profilin Binding to Poly-<scp>l</scp>-Proline and Actin Monomers along with Ability to Catalyze Actin Nucleotide Exchange Is Required for Viability of Fission Yeast. Molecular Biology of the Cell, 2001, 12, 1161-1175.	0.9	136

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145	Interaction of WASP/Scar proteins with actin and vertebrate Arp2/3 complex. Nature Cell Biology, 2001, 3, 76-82.	4.6	293
146	Genomics, the cytoskeleton and motility. Nature, 2001, 409, 842-843.	13.7	50
147	The Arp2/3 complex nucleates actin filament branches from the sides of pre-existing filaments. Nature Cell Biology, 2001, 3, 306-310.	4.6	196
148	Life scientists and politics in the United States. Nature Reviews Molecular Cell Biology, 2001, 2, 929-931.	16.1	3
149	Inhibition of the Arp2/3 complex-nucleated actin polymerization and branch formation by tropomyosin. Current Biology, 2001, 11, 1300-1304.	1.8	205
150	Structure of Arp2/3 Complex in Its Activated State and in Actin Filament Branch Junctions. Science, 2001, 293, 2456-2459.	6.0	236
151	Crystal Structure of Arp2/3 Complex. Science, 2001, 294, 1679-1684.	6.0	484
152	Myosin-I nomenclature. Journal of Cell Biology, 2001, 155, 703-704.	2.3	71
153	STRUCTURAL BIOLOGY: Actin' Up. Science, 2001, 293, 616-618.	6.0	15
154	Direct observation of dendritic actin filament networks nucleated by Arp2/3 complex and WASP/Scar proteins. Nature, 2000, 404, 1007-1011.	13.7	502
155	Fission yeast myosin-II isoforms assemble into contractile rings at distinct times during mitosis. Current Biology, 2000, 10, 397-400.	1.8	77
156	Interactions of ADF/cofilin, Arp2/3 complex, capping protein and profilin in remodeling of branched actin filament networks. Current Biology, 2000, 10, 1273-1282.	1.8	254
157	Activation by Cdc42 and Pip2 of Wiskott-Aldrich Syndrome Protein (Wasp) Stimulates Actin Nucleation by Arp2/3 Complex. Journal of Cell Biology, 2000, 150, 1311-1320.	2.3	453
158	Fission Yeast Myosin-I, Myo1p, Stimulates Actin Assembly by Arp2/3 Complex and Shares Functions with Wasp. Journal of Cell Biology, 2000, 151, 789-800.	2.3	161
159	Myosin-II Tails Confer Unique Functions in<i>Schizosaccharomyces pombe</i>: Characterization of a Novel Myosin-II Tail. Molecular Biology of the Cell, 2000, 11, 79-91.	0.9	58
160	Polymerization and structure of nucleotide-free actin filaments 1 1Edited by W. Baumeister. Journal of Molecular Biology, 2000, 295, 517-526.	2.0	68
161	Molecular Mechanisms Controlling Actin Filament Dynamics in Nonmuscle Cells. Annual Review of Biophysics and Biomolecular Structure, 2000, 29, 545-576.	18.3	1,319
162	Phosphorylation of Acanthamoeba actophorin (ADF/cofilin) blocks interaction with actin without a change in atomic structure. Journal of Molecular Biology, 2000, 295, 203-211.	2.0	71

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163	Mechanism of Interaction of Acanthamoeba Actophorin (ADF/Cofilin) with Actin Filaments. Journal of Biological Chemistry, 1999, 274, 15538-15546.	1.6	280
164	Structure and function of the Arp2/3 complex. Current Opinion in Structural Biology, 1999, 9, 244-249.	2.6	128
165	Rho-family GTPases require the Arp2/3 complex to stimulate actin polymerizationin Acanthamoeba extracts. Current Biology, 1999, 9, 405-415.	1.8	71
166	Effect of capping protein, CapZ, on the length of actin filaments and mechanical properties of actin filament networks. Cytoskeleton, 1999, 42, 73-81.	4.4	48
167	Annealing Accounts for the Length of Actin Filaments Formed by Spontaneous Polymerization. Biophysical Journal, 1999, 77, 2911-2919.	0.2	129
168	Influence of the C Terminus of Wiskott-Aldrich Syndrome Protein (WASp) and the Arp2/3 Complex on Actin Polymerizationâ€. Biochemistry, 1999, 38, 15212-15222.	1.2	256
169	Effect of capping protein, CapZ, on the length of actin filaments and mechanical properties of actin filament networks. , 1999, 42, 73.		1
170	Interactions ofAcanthamoebaProfilin with Actin and Nucleotides Bound to Actinâ€. Biochemistry, 1998, 37, 10871-10880.	1.2	152
171	Three-dimensional Structure of Acanthamoeba castellanii Myosin-IB (MIB) Determined by Cryoelectron Microscopy of Decorated Actin Filaments. Journal of Cell Biology, 1998, 141, 155-162.	2.3	25
172	Arp2/3 Complex from<i>Acanthamoeba</i>Binds Profilin and Cross-links Actin Filaments. Molecular Biology of the Cell, 1998, 9, 841-852.	0.9	88
173	Interaction of Actin Monomers with AcanthamoebaActophorin (ADF/Cofilin) and Profilin. Journal of Biological Chemistry, 1998, 273, 25106-25111.	1.6	155
174	Dynamic Cross-linking by Î±-Actinin Determines the Mechanical Properties of Actin Filament Networks. Journal of Biological Chemistry, 1998, 273, 9570-9576.	1.6	172
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