David R Kovar

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70 4,839 35 69 g-index

78 5,870 9.4 5.72 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
70	Control of the assembly of ATP- and ADP-actin by formins and profilin. <i>Cell</i> , 2006 , 124, 423-35	56.2	434
69	Insertional assembly of actin filament barbed ends in association with formins produces piconewton forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 14725-30	11.5	362
68	Spatial and temporal pathway for assembly and constriction of the contractile ring in fission yeast cytokinesis. <i>Developmental Cell</i> , 2003 , 5, 723-34	10.2	327
67	The fission yeast cytokinesis formin Cdc12p is a barbed end actin filament capping protein gated by profilin. <i>Journal of Cell Biology</i> , 2003 , 161, 875-87	7.3	280
66	Identification and characterization of a small molecule inhibitor of formin-mediated actin assembly. <i>Chemistry and Biology</i> , 2009 , 16, 1158-68		241
65	Assembly of the cytokinetic contractile ring from a broad band of nodes in fission yeast. <i>Journal of Cell Biology</i> , 2006 , 174, 391-402	7.3	219
64	Molecular details of formin-mediated actin assembly. Current Opinion in Cell Biology, 2006, 18, 11-7	9	197
63	Profilin-1 serves as a gatekeeper for actin assembly by Arp2/3-dependent and -independent pathways. <i>Developmental Cell</i> , 2015 , 32, 54-67	10.2	171
62	Profilin regulates F-actin network homeostasis by favoring formin over Arp2/3 complex. <i>Developmental Cell</i> , 2015 , 32, 43-53	10.2	160
61	Model of formin-associated actin filament elongation. <i>Molecular Cell</i> , 2006 , 21, 455-66	17.6	144
60	Homeostatic actin cytoskeleton networks are regulated by assembly factor competition for monomers. <i>Current Biology</i> , 2014 , 24, 579-85	6.3	137
59	Rickettsia Sca2 is a bacterial formin-like mediator of actin-based motility. <i>Nature Cell Biology</i> , 2010 , 12, 1057-63	23.4	120
58	Cytoskeletal dynamics: a view from the membrane. <i>Journal of Cell Biology</i> , 2015 , 209, 329-37	7.3	112
57	Fimbrin and tropomyosin competition regulates endocytosis and cytokinesis kinetics in fission yeast. <i>Current Biology</i> , 2010 , 20, 1415-22	6.3	110
56	Profilin-mediated competition between capping protein and formin Cdc12p during cytokinesis in fission yeast. <i>Molecular Biology of the Cell</i> , 2005 , 16, 2313-24	3.5	98
55	Ena/VASP Enabled is a highly processive actin polymerase tailored to self-assemble parallel-bundled F-actin networks with Fascin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4121-6	11.5	92
54	Actin filament bundling by fimbrin is important for endocytosis, cytokinesis, and polarization in fission yeast. <i>Journal of Biological Chemistry</i> , 2011 , 286, 26964-77	5.4	89

(2013-2016)

53	Internetwork competition for monomers governs actin cytoskeleton organization. <i>Nature Reviews Molecular Cell Biology</i> , 2016 , 17, 799-810	48.7	86
52	Structure of the actin crosslinking core of fimbrin. <i>Structure</i> , 2004 , 12, 999-1013	5.2	84
51	Threels company: the fission yeast actin cytoskeleton. <i>Trends in Cell Biology</i> , 2011 , 21, 177-87	18.3	78
50	Assembly kinetics determine the architecture of Eactinin crosslinked F-actin networks. <i>Nature Communications</i> , 2012 , 3, 861	17.4	64
49	High-resolution temporal analysis reveals a functional timeline for the molecular regulation of cytokinesis. <i>Developmental Cell</i> , 2014 , 30, 209-23	10.2	61
48	Role of tropomyosin in formin-mediated contractile ring assembly in fission yeast. <i>Molecular Biology of the Cell</i> , 2009 , 20, 2160-73	3.5	61
47	HopW1 from Pseudomonas syringae disrupts the actin cytoskeleton to promote virulence in Arabidopsis. <i>PLoS Pathogens</i> , 2014 , 10, e1004232	7.6	60
46	Fascin- and EActinin-Bundled Networks Contain Intrinsic Structural Features that Drive Protein Sorting. <i>Current Biology</i> , 2016 , 26, 2697-2706	6.3	58
45	Fluorescently-labeled fimbrin decorates a dynamic actin filament network in live plant cells. <i>Planta</i> , 2001 , 213, 390-5	4.7	52
44	Competition between Tropomyosin, Fimbrin, and ADF/Cofilin drives their sorting to distinct actin filament networks. <i>ELife</i> , 2017 , 6,	8.9	50
43	Formin differentially utilizes profilin isoforms to rapidly assemble actin filaments. <i>Journal of Biological Chemistry</i> , 2009 , 284, 673-684	5.4	50
42	The cytokinesis formins from the nematode worm and fission yeast differentially mediate actin filament assembly. <i>Journal of Biological Chemistry</i> , 2008 , 283, 23872-83	5.4	50
41	Mechanism of actin filament nucleation by Vibrio DopL and implications for tandem W domain nucleation. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 1060-7	17.6	49
40	Enabled negatively regulates diaphanous-driven actin dynamics in vitro and in vivo. <i>Developmental Cell</i> , 2014 , 28, 394-408	10.2	47
39	Mechanoregulated inhibition of formin facilitates contractile actomyosin ring assembly. <i>Nature Communications</i> , 2017 , 8, 703	17.4	44
38	Partitioning and Enhanced Self-Assembly of Actin in Polypeptide Coacervates. <i>Biophysical Journal</i> , 2018 , 114, 1636-1645	2.9	43
37	Minimal requirements for actin filament disassembly revealed by structural analysis of malaria parasite actin-depolymerizing factor 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9869-74	11.5	39
36	The formins Cdc12 and For3 cooperate during contractile ring assembly in cytokinesis. <i>Journal of Cell Biology</i> , 2013 , 203, 101-14	7.3	36

35	The F-actin bundler Eactinin Ain1 is tailored for ring assembly and constriction during cytokinesis in fission yeast. <i>Molecular Biology of the Cell</i> , 2016 , 27, 1821-33	3.5	35
34	Plasmodium falciparum coronin organizes arrays of parallel actin filaments potentially guiding directional motility in invasive malaria parasites. <i>Malaria Journal</i> , 2015 , 14, 280	3.6	33
33	The functionally distinct fission yeast formins have specific actin-assembly properties. <i>Molecular Biology of the Cell</i> , 2011 , 22, 3826-39	3.5	33
32	Chlamydomonas reinhardtiiproduces a profilin with unusual biochemical properties. <i>Journal of Cell Science</i> , 2001 , 114, 4293-4305	5.3	32
31	ACTIN-DIRECTED TOXIN. ACD toxin-produced actin oligomers poison formin-controlled actin polymerization. <i>Science</i> , 2015 , 349, 535-9	33.3	31
30	Actin age orchestrates myosin-5 and myosin-6 run lengths. <i>Current Biology</i> , 2015 , 25, 2057-62	6.3	31
29	Rickettsia Sca2 has evolved formin-like activity through a different molecular mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2677-86	11.5	30
28	Incompatibility with formin Cdc12p prevents human profilin from substituting for fission yeast profilin: insights from crystal structures of fission yeast profilin. <i>Journal of Biological Chemistry</i> , 2009 , 284, 2088-97	5.4	29
27	Evolutionarily diverse LIM domain-containing proteins bind stressed actin filaments through a conserved mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25532-25542	11.5	24
26	A mechanism for actin filament severing by malaria parasite actin depolymerizing factor 1 via a low affinity binding interface. <i>Journal of Biological Chemistry</i> , 2014 , 289, 4043-54	5.4	21
25	Wound Healing Coordinates Actin Architectures to Regulate Mechanical Work. <i>Nature Physics</i> , 2019 , 15, 696-705	16.2	20
24	Ena/VASP processive elongation is modulated by avidity on actin filaments bundled by the filopodia cross-linker fascin. <i>Molecular Biology of the Cell</i> , 2019 , 30, 851-862	3.5	20
23	Mechanical and kinetic factors drive sorting of F-actin cross-linkers on bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16192-16197	11.5	19
22	F-Actin Cytoskeleton Network Self-Organization Through Competition and Cooperation. <i>Annual Review of Cell and Developmental Biology</i> , 2020 , 36, 35-60	12.6	19
21	Cofilin drives rapid turnover and fluidization of entangled F-actin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12629-12637	11.5	18
20	Feeling the force: formind role in mechanotransduction. Current Opinion in Cell Biology, 2019, 56, 130-1	49)	17
19	Disassembly activity of actin-depolymerizing factor (ADF) is associated with distinct cellular processes in apicomplexan parasites. <i>Molecular Biology of the Cell</i> , 2015 , 26, 3001-12	3.5	15
18	Cooperation between tropomyosin and Eactinin inhibits fimbrin association with actin filament networks in fission yeast. <i>ELife</i> , 2019 , 8,	8.9	14

LIST OF PUBLICATIONS

17	The bacterial virulence factors VopL and VopF nucleate actin from the pointed end. <i>Journal of Cell Biology</i> , 2017 , 216, 1267-1276	7.3	12
16	Actin Cross-Linking Toxin Is a Universal Inhibitor of Tandem-Organized and Oligomeric G-Actin Binding Proteins. <i>Current Biology</i> , 2018 , 28, 1536-1547.e9	6.3	11
15	Cell polarity: formin on the move. Current Biology, 2006, 16, R535-8	6.3	11
14	Actin assembly factors regulate the gelation kinetics and architecture of F-actin networks. <i>Biophysical Journal</i> , 2013 , 104, 1709-19	2.9	9
13	In Vitro Biochemical Characterization of Cytokinesis Actin-Binding Proteins. <i>Methods in Molecular Biology</i> , 2016 , 1369, 151-79	1.4	9
12	Intracellular motility: myosin and tropomyosin in actin cable flow. Current Biology, 2007, 17, R244-7	6.3	7
11	Filament Nucleation Tunes Mechanical Memory in Active Polymer Networks. <i>Advanced Functional Materials</i> , 2019 , 29, 1905243	15.6	6
10	formin FOR1 and profilin PRF1 are optimized for acute rapid actin filament assembly. <i>Molecular Biology of the Cell</i> , 2019 , 30, 3123-3135	3.5	6
9	Fission yeast profilin is tailored to facilitate actin assembly by the cytokinesis formin Cdc12. <i>Molecular Biology of the Cell</i> , 2015 , 26, 283-93	3.5	5
8	Cofilin Drives Rapid Turnover and Fluidization of Entangled F-actin		5
7	exoenzyme Y directly bundles actin filaments. <i>Journal of Biological Chemistry</i> , 2020 , 295, 3506-3517	5.4	4
6	Formin-Mediated Actin Assembly 2010 , 279-316		2
5	LIM domain proteins in cell mechanobiology. <i>Cytoskeleton</i> , 2021 , 78, 303-311	2.4	2
4	Formin Cdc12년 specific actin assembly properties are tailored for cytokinesis in fission yeast. <i>Biophysical Journal</i> , 2021 , 120, 2984-2997	2.9	2
3	When Is "Enough" Enough?. <i>Cell Systems</i> , 2017 , 4, 480-482	10.6	1
2	Mechanism of actin filament nucleation. <i>Biophysical Journal</i> , 2021 , 120, 4399-4417	2.9	1

Stir it up: The role of actin in mitochondrial mixing during mitosis. Developmental Cell, 2021, 56, 1080-10&0.2