

Mohan K Balasubramanian

List of Publications by Year in descending order

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105
papers

5,421
citations

70961

41
h-index

91712

69
g-index

185
all docs

185
docs citations

185
times ranked

3292
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Analysis of Cytokinesis in Budding Yeast, Fission Yeast and Animal Cells. <i>Current Biology</i> , 2004, 14, R806-R818.	1.8	286
2	Isolation and Characterization of New Fission Yeast Cytokinesis Mutants. <i>Genetics</i> , 1998, 149, 1265-1275.	1.2	247
3	A new tropomyosin essential for cytokinesis in the fission yeast <i>S. pombe</i> . <i>Nature</i> , 1992, 360, 84-87.	13.7	238
4	Cell Polarity in Yeast. <i>Annual Review of Cell and Developmental Biology</i> , 2017, 33, 77-101.	4.0	179
5	The Multiprotein Exocyst Complex Is Essential for Cell Separation in <i>Schizosaccharomyces pombe</i> . <i>Molecular Biology of the Cell</i> , 2002, 13, 515-529.	0.9	168
6	Identification of Cell Cycle-regulated Genes in Fission Yeast. <i>Molecular Biology of the Cell</i> , 2005, 16, 1026-1042.	0.9	159
7	Sterol-rich plasma membrane domains in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Journal of Cell Science</i> , 2003, 116, 867-874.	1.2	157
8	Byr4 and Cdc16 form a two-component GTPase-activating protein for the Spg1 GTPase that controls septation in fission yeast. <i>Current Biology</i> , 1998, 8, 947-954.	1.8	153
9	Rng2p, a protein required for cytokinesis in fission yeast, is a component of the actomyosin ring and the spindle pole body. <i>Current Biology</i> , 1998, 8, 611-621.	1.8	144
10	Drc1p/Cps1p, a 1,3- β -Glucan Synthase Subunit, Is Essential for Division Septum Assembly in <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , 1999, 153, 1193-1203.	1.2	139
11	Evidence for F-actin-dependent and -independent mechanisms involved in assembly and stability of the medial actomyosin ring in fission yeast. <i>EMBO Journal</i> , 1999, 18, 854-862.	3.5	118
12	Cytokinesis in fission yeast <i>Schizosaccharomyces pombe</i> . <i>Methods in Enzymology</i> , 1997, 283, 494-506.	0.4	115
13	Myosin-II reorganization during mitosis is controlled temporally by its dephosphorylation and spatially by Mid1 in fission yeast. <i>Journal of Cell Biology</i> , 2004, 165, 685-695.	2.3	108
14	The <i>cdr2⁺</i> Gene Encodes a Regulator of G ₂ /M Progression and Cytokinesis in <i>Schizosaccharomyces pombe</i> . <i>Molecular Biology of the Cell</i> , 1998, 9, 3399-3415.	0.9	102
15	In vitro contraction of cytokinetic ring depends on myosin II but not on actin dynamics. <i>Nature Cell Biology</i> , 2013, 15, 853-859.	4.6	98
16	Positioning cytokinesis. <i>Genes and Development</i> , 2009, 23, 660-674.	2.7	97
17	Actomyosin Ring Formation and Tension Generation in Eukaryotic Cytokinesis. <i>Current Biology</i> , 2016, 26, R719-R737.	1.8	95
18	Yeast lipid rafts? – An emerging view. <i>Trends in Cell Biology</i> , 2006, 16, 1-4.	3.6	94

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19	Nonmedially assembled F-actin cables incorporate into the actomyosin ring in fission yeast. <i>Journal of Cell Biology</i> , 2012, 199, 831-847.	2.3	92
20	Type II myosin regulatory light chain relieves auto-inhibition of myosin-heavy-chain function. <i>Nature Cell Biology</i> , 2000, 2, 855-858.	4.6	89
21	The Localization of the Integral Membrane Protein Cps1p to the Cell Division Site is Dependent on the Actomyosin Ring and the Septation-Inducing Network in <i>Schizosaccharomyces pombe</i> . <i>Molecular Biology of the Cell</i> , 2002, 13, 989-1000.	0.9	87
22	Assembly of normal actomyosin rings in the absence of Mid1p and cortical nodes in fission yeast. <i>Journal of Cell Biology</i> , 2008, 183, 979-988.	2.3	87
23	Systematic Deletion Analysis of Fission Yeast Protein Kinases. <i>Eukaryotic Cell</i> , 2005, 4, 799-813.	3.4	86
24	Role of Septins and the Exocyst Complex in the Function of Hydrolytic Enzymes Responsible for Fission Yeast Cell Separation. <i>Molecular Biology of the Cell</i> , 2005, 16, 4867-4881.	0.9	84
25	The Clp1p/Flp1p phosphatase ensures completion of cytokinesis in response to minor perturbation of the cell division machinery in <i>Schizosaccharomyces pombe</i> . <i>Journal of Cell Science</i> , 2004, 117, 3897-3910.	1.2	77
26	Polarity Determinants Tea1p, Tea4p, and Pom1p Inhibit Division-Septum Assembly at Cell Ends in Fission Yeast. <i>Developmental Cell</i> , 2007, 12, 987-996.	3.1	74
27	The yeast actin cytoskeleton. <i>FEMS Microbiology Reviews</i> , 2014, 38, 213-227.	3.9	73
28	Sid4p-Cdc11p Assembles the Septation Initiation Network and Its Regulators at the <i>S. pombe</i> SPB. <i>Current Biology</i> , 2004, 14, 579-584.	1.8	66
29	IQGAP-Related Rng2p Organizes Cortical Nodes and Ensures Position of Cell Division in Fission Yeast. <i>Current Biology</i> , 2011, 21, 467-472.	1.8	64
30	Astral microtubules monitor metaphase spindle alignment in fission yeast. <i>Nature Cell Biology</i> , 2002, 4, 816-820.	4.6	61
31	Cell Cycle-dependent Roles for the FCH-Domain Protein Cdc15p in Formation of the Actomyosin Ring in <i>Schizosaccharomyces pombe</i> . <i>Molecular Biology of the Cell</i> , 2006, 17, 3254-3266.	0.9	61
32	Bgs2p, a 1,3- β -glucan synthase subunit, is essential for maturation of ascospore wall in <i>Schizosaccharomyces pombe</i> . <i>FEBS Letters</i> , 2000, 478, 105-108.	1.3	60
33	SIN-Inhibitory Phosphatase Complex Promotes Cdc11p Dephosphorylation and Propagates SIN Asymmetry in Fission Yeast. <i>Current Biology</i> , 2011, 21, 1968-1978.	1.8	55
34	The bacterial cell division protein FtsZ assembles into cytoplasmic rings in fission yeast. <i>Genes and Development</i> , 2008, 22, 1741-1746.	2.7	54
35	Cytokinesis in fission yeast: a story of rings, rafts and walls. <i>Trends in Genetics</i> , 2003, 19, 403-408.	2.9	51
36	Rho3p Regulates Cell Separation by Modulating Exocyst Function in <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , 2003, 164, 1323-1331.	1.2	51

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37	Myosin concentration underlies cell size-dependent scalability of actomyosin ring constriction. <i>Journal of Cell Biology</i> , 2011, 195, 799-813.	2.3	50
38	Importance of a Myosin II-Containing Progenitor for Actomyosin Ring Assembly in Fission Yeast. <i>Current Biology</i> , 2002, 12, 724-729.	1.8	48
39	Identification of genes encoding putative nucleoporins and transport factors in the fission yeast <i>Schizosaccharomyces pombe</i> : a deletion analysis. <i>Yeast</i> , 2004, 21, 495-509.	0.8	47
40	The Nuclear Kinase Lsk1p Positively Regulates the Septation Initiation Network and Promotes the Successful Completion of Cytokinesis in Response to Perturbation of the Actomyosin Ring in <i>Schizosaccharomyces pombe</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 358-371.	0.9	47
41	Filament Formation of the <i>Escherichia coli</i> Actin-Related Protein, MreB, in Fission Yeast. <i>Current Biology</i> , 2007, 17, 266-272.	1.8	46
42	Hsp90 Protein in Fission Yeast Swo1p and UCS Protein Rng3p Facilitate Myosin II Assembly and Function. <i>Eukaryotic Cell</i> , 2005, 4, 567-576.	3.4	44
43	The mitosis-to-interphase transition is coordinated by cross talk between the SIN and MOR pathways in <i>Schizosaccharomyces pombe</i> . <i>Journal of Cell Biology</i> , 2010, 190, 793-805.	2.3	43
44	Pxl1p, a Paxillin-related Protein, Stabilizes the Actomyosin Ring during Cytokinesis in Fission Yeast. <i>Molecular Biology of the Cell</i> , 2008, 19, 1680-1692.	0.9	41
45	Polar relaxation by dynein-mediated removal of cortical myosin II. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	41
46	A Role for the Septation Initiation Network in Septum Assembly Revealed by Genetic Analysis of sid2-250 Suppressors. <i>Genetics</i> , 2006, 172, 2101-2112.	1.2	40
47	The fission yeast septation initiation network (SIN) kinase, Sid2, is required for SIN asymmetry and regulates the SIN scaffold, Cdc11. <i>Molecular Biology of the Cell</i> , 2012, 23, 1636-1645.	0.9	40
48	Actin turnover maintains actin filament homeostasis during cytokinetic ring contraction. <i>Journal of Cell Biology</i> , 2017, 216, 2657-2667.	2.3	39
49	<i>Schizosaccharomyces pombe</i> Bir1p, a Nuclear Protein That Localizes to Kinetochores and the Spindle Midzone, Is Essential for Chromosome Condensation and Spindle Elongation During Mitosis. <i>Genetics</i> , 2002, 160, 445-456.	1.2	39
50	The 14-3-3 Protein Rad24p Modulates Function of the Cdc14p Family Phosphatase Clp1p/Flp1p in Fission Yeast. <i>Current Biology</i> , 2005, 15, 1376-1383.	1.8	38
51	A Cyclin-Dependent Kinase that Promotes Cytokinesis through Modulating Phosphorylation of the Carboxy Terminal Domain of the RNA Pol II Rpb1p Sub-Unit. <i>PLoS ONE</i> , 2007, 2, e433.	1.1	38
52	Advances in Cytokinesis Research. Interactions of Cdc4p, a Myosin Light Chain, with IQ-domain Containing Proteins in <i>Schizosaccharomyces pombe</i> . <i>Cell Structure and Function</i> , 2001, 26, 555-565.	0.5	37
53	<i>Schizosaccharomyces pombe</i> Pak-related protein, Pak1p/Orb2p, phosphorylates myosin regulatory light chain to inhibit cytokinesis. <i>Journal of Cell Biology</i> , 2008, 183, 785-793.	2.3	36
54	The Novel Fission Yeast Protein Pal1p Interacts with Hip1-related Sla2p/End4p and Is Involved in Cellular Morphogenesis. <i>Molecular Biology of the Cell</i> , 2005, 16, 4124-4138.	0.9	35

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55	Cylindrical Cellular Geometry Ensures Fidelity of Division Site Placement in Fission Yeast. <i>Journal of Cell Science</i> , 2012, 125, 3850-7.	1.2	35
56	Comparing contractile apparatus-driven cytokinesis mechanisms across kingdoms. <i>Cytoskeleton</i> , 2012, 69, 942-956.	1.0	35
57	<i>S. pombe</i> Pbh1p: an inhibitor of apoptosis domain containing protein is essential for chromosome segregation. <i>FEBS Letters</i> , 1999, 460, 187-190.	1.3	31
58	Rapid production of pure recombinant actin isoforms in <i>Pichia pastoris</i> . <i>Journal of Cell Science</i> , 2018, 131, .	1.2	31
59	Novel Actin-like Filament Structure from <i>Clostridium tetani</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 21121-21129.	1.6	29
60	A New Membrane Protein Sbg1 Links the Contractile Ring Apparatus and Septum Synthesis Machinery in Fission Yeast. <i>PLoS Genetics</i> , 2016, 12, e1006383.	1.5	29
61	Asgard archaea shed light on the evolutionary origins of the eukaryotic ubiquitin-ESCRT machinery. <i>Nature Communications</i> , 2022, 13, .	5.8	27
62	The N-degron approach to create temperature-sensitive mutants in <i>Schizosaccharomyces pombe</i> . <i>Methods</i> , 2004, 33, 206-212.	1.9	26
63	Regulation of cell cycle-specific gene expression in fission yeast by the Cdc14p-like phosphatase Clp1p. <i>Journal of Cell Science</i> , 2010, 123, 4374-4381.	1.2	26
64	Motor Activity Dependent and Independent Functions of Myosin II Contribute to Actomyosin Ring Assembly and Contraction in <i>Schizosaccharomyces pombe</i> . <i>Current Biology</i> , 2017, 27, 751-757.	1.8	24
65	Marker reconstitution mutagenesis: a simple and efficient reverse genetic approach. <i>Yeast</i> , 2011, 28, 205-212.	0.8	23
66	A Potential Tension-Sensing Mechanism that Ensures Timely Anaphase Onset upon Metaphase Spindle Orientation. <i>Current Biology</i> , 2004, 14, 69-74.	1.8	21
67	The Meiosis-Specific Sid2p-related Protein Slk1p Regulates Forespore Membrane Assembly in Fission Yeast. <i>Molecular Biology of the Cell</i> , 2008, 19, 3676-3690.	0.9	21
68	Calponin-homology domain mediated bending of membrane-associated actin filaments. <i>ELife</i> , 2021, 10, .	2.8	21
69	Pick-ya actin: a method to purify actin isoforms with bespoke key post-translational modifications. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	20
70	The <i>Nitrosopumilus maritimus</i> CdvB, but Not FtsZ, Assembles into Polymers. <i>Archaea</i> , 2013, 2013, 1-10.	2.3	18
71	Site Specific Genetic Incorporation of Azidophenylalanine in <i>Schizosaccharomyces pombe</i> . <i>Scientific Reports</i> , 2015, 5, 17196.	1.6	18
72	Curvature-induced expulsion of actomyosin bundles during cytokinetic ring contraction. <i>ELife</i> , 2016, 5, .	2.8	18

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73	Cytokinesis: relative alignment of the cell division apparatus and the mitotic spindle. <i>Current Opinion in Cell Biology</i> , 2003, 15, 82-87.	2.6	17
74	Novel actin filaments from <i>Bacillus thuringiensis</i> form nanotubules for plasmid DNA segregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1200-E1205.	3.3	16
75	Phosphoregulation of tropomyosin is crucial for actin cable turnover and division site placement. <i>Journal of Cell Biology</i> , 2019, 218, 3548-3559.	2.3	16
76	Identification of cold-sensitive mutations in the <i>Schizosaccharomyces pombe</i> actin locus. <i>FEBS Letters</i> , 1999, 451, 321-326.	1.3	15
77	A Meiotic Actin Ring (MeiAR) Essential for Proper Sporulation in Fission Yeast. <i>Journal of Cell Science</i> , 0, , .	1.2	14
78	Actin turnover ensures uniform tension distribution during cytokinetic actomyosin ring contraction. <i>Molecular Biology of the Cell</i> , 2019, 30, 933-941.	0.9	14
79	Isolation of Cytokinetic Actomyosin Rings from <i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> . <i>Methods in Molecular Biology</i> , 2016, 1369, 125-136.	0.4	13
80	Structure, crystal packing and molecular dynamics of the calponin-homology domain of <i>Schizosaccharomyces pombe</i> Rng2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1396-1403.	2.5	12
81	Roles of Pdk1p, a Fission Yeast Protein Related to Phosphoinositide-dependent Protein Kinase, in the Regulation of Mitosis and Cytokinesis. <i>Molecular Biology of the Cell</i> , 2005, 16, 3162-3175.	0.9	12
82	Myo2p is the major motor involved in actomyosin ring contraction in fission yeast. <i>Current Biology</i> , 2017, 27, R99-R100.	1.8	11
83	Opposing kinesin complexes queue at plus tips to ensure microtubule catastrophe at cell ends. <i>EMBO Reports</i> , 2018, 19, .	2.0	11
84	Rewiring Mid1p-Independent Medial Division in Fission Yeast. <i>Current Biology</i> , 2014, 24, 2181-2188.	1.8	10
85	Expanding the Zebrafish Genetic Code through Site-Specific Introduction of Azido-lysine, Bicyclononyne-lysine, and Diazirine-lysine. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2577.	1.8	10
86	Equatorial Assembly of the Cell-Division Actomyosin Ring in the Absence of Cytokinetic Spatial Cues. <i>Current Biology</i> , 2018, 28, 955-962.e3.	1.8	9
87	Nuc2p, a Subunit of the Anaphase-Promoting Complex, Inhibits Septation Initiation Network Following Cytokinesis in Fission Yeast. <i>PLoS Genetics</i> , 2008, 4, e17.	1.5	8
88	Time-varying mobility and turnover of actomyosin ring components during cytokinesis in <i>Schizosaccharomyces pombe</i> . <i>Molecular Biology of the Cell</i> , 2021, 32, 237-246.	0.9	8
89	Insight into Actin Organization and Function in Cytokinesis from Analysis of Fission Yeast Mutants. <i>Genetics</i> , 2013, 194, 435-446.	1.2	6
90	Evidence that a steric clash in the upper 50KDa domain of the motor Myo2p leads to cytokinesis defects in fission yeast. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	5

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91	Cell cycle: The Flp side of Cdc14. <i>Current Biology</i> , 2001, 11, R872-R874.	1.8	4
92	Inhibition of cell membrane ingression at the division site by cell walls in fission yeast. <i>Molecular Biology of the Cell</i> , 2020, 31, 2306-2314.	0.9	4
93	Assembly of Microtubules and Actomyosin Rings in the Absence of Nuclei and Spindle Pole Bodies Revealed by a Novel Genetic Method. <i>PLoS ONE</i> , 2007, 2, e618.	1.1	4
94	Expression, purification, crystallization and preliminary crystallographic analysis of the calponin-homology domain of Rng2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1809-1812.	2.5	3
95	Reply: Deletion of Mia1/Alp7 activates Mad2-dependent spindle assembly checkpoint in fission yeast. <i>Nature Cell Biology</i> , 2003, 5, 766-766.	4.6	3
96	Schizosaccharomyces pombe homolog of Survivin, Bir1p, exhibits a novel dynamic behavior at the spindle mid-zone. <i>Genes To Cells</i> , 2006, 11, 815-827.	0.5	3
97	Timing it right: Precise ON/OFF switches for Rho1 and Cdc42 GTPases in cytokinesis. <i>Journal of Cell Biology</i> , 2013, 202, 187-189.	2.3	3
98	<i>Bacillus anthracis</i> tubulin-related protein BaTubZ assembles force-generating polymers. <i>Cytoskeleton</i> , 2011, 68, 501-511.	1.0	2
99	Exploring the diversity of cytokinesis. <i>Seminars in Cell and Developmental Biology</i> , 2016, 53, 1.	2.3	2
100	Genetic suppression of defective profilin by attenuated Myosin II reveals a potential role for Myosin II in actin dynamics in vivo in fission yeast. <i>Molecular Biology of the Cell</i> , 2020, 31, 2107-2114.	0.9	2
101	The 14-3-3 Protein Rad24p Modulates Function of the Cdc14p Family Phosphatase Clp1p/Flp1p in Fission Yeast. <i>Current Biology</i> , 2005, 15, 1603.	1.8	1
102	Meiotic actin rings are essential for proper sporulation in fission yeast. <i>Journal of Cell Science</i> , 2012, 125, 2544-2544.	1.2	1
103	Bacteria spring a surprise. <i>ELife</i> , 2014, 3, e03435.	2.8	1
104	Regulation of Cytokinesis. , 2004, , 243-254.		1
105	Phosphoregulation of tropomyosin-actin interaction revealed using a genetic code expansion strategy. <i>Wellcome Open Research</i> , 2020, 5, 161.	0.9	0