Daniel J Lew

List of Publications by Year
in descending order

87 papers	6,130 citations	76326 40 h-index	74163 75 g-index
97 all docs	97 docs citations	97 times ranked	3262 citing authors

#	Article	IF	Citations
1	Involvement of an Actomyosin Contractile Ring in Saccharomyces cerevisiae Cytokinesis. Journal of Cell Biology, 1998, 142, 1301-1312.	5.2	372
2	The septin cortex at the yeast motherÃ¢Â€Â“bud neck. Current Opinion in Microbiology, 2001, 4, 681-689.	5.1	304
3	Septin-Dependent Assembly of a Cell Cycle-Regulatory Module in Saccharomyces cerevisiae. Molecular and Cellular Biology, 2000, 20, 4049-4061.	2.3	250
4	Scaffold-mediated symmetry breaking by Cdc42p. Nature Cell Biology, 2003, 5, 1062-1070.	10.3	248
5	The Spindle Assembly and Spindle Position Checkpoints. Annual Review of Genetics, 2003, 37, 251-282.	7.6	236
6	Symmetry-Breaking Polarization Driven by a Cdc42p GEF-PAK Complex. Current Biology, 2008, 18, 1719-1726.	3.9	218
7	Negative Feedback Enhances Robustness in the Yeast Polarity Establishment Circuit. Cell, 2012, 149, 322-333.	28.9	192
8	Assembly of Scaffold-mediated Complexes Containing Cdc42p, the Exchange Factor Cdc24p, and the Effector Cla4p Required for Cell Cycle-regulated Phosphorylation of Cdc24p. Journal of Biological Chemistry, 2001, 276, 7176-7186.	3.4	186
9	Cell Polarity in Yeast. Annual Review of Cell and Developmental Biology, 2017, 33, 77-101.	9.4	179
10	Septin ring assembly involves cycles of GTP loading and hydrolysis by Cdc42p. Journal of Cell Biology, 2002, 156, 315-326.	5.2	170
11	Singularity in Polarization: Rewiring Yeast Cells to Make Two Buds. Cell, 2009, 139, 731-743.	28.9	167
12	The morphogenesis checkpoint: how yeast cells watch their figures. Current Opinion in Cell Biology, 2003, 15, 648-653.	5.4	162
13	The Morphogenesis Checkpoint in <i>Saccharomyces cerevisiae</i>: Cell Cycle Control of Swe1p Degradation by Hsl1p and Hsl7p. Molecular and Cellular Biology, 1999, 19, 6929-6939.	2.3	156
14	Yeast Cdc42 functions at a late step in exocytosis, specifically during polarized growth of the emerging bud. Journal of Cell Biology, 2001, 155, 581-592.	5.2	151
15	Dynamic Positioning of Mitotic Spindles in Yeast:. Molecular Biology of the Cell, 2000, 11, 3949-3961.	2.1	150
16	A Morphogenesis Checkpoint Monitors the Actin Cytoskeleton in Yeast. Journal of Cell Biology, 1998, 142, 1487-1499.	5.2	143
17	Morphogenesis and the Cell Cycle. Genetics, 2012, 190, 51-77.	2.9	135
18	A role for the Pkc1p/Mpk1p kinase cascade in the morphogenesis checkpoint. Nature Cell Biology, 2001, 3, 417-420.	10.3	133

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19	Interplay between septin organization, cell cycle and cell shape in yeast. Journal of Cell Science, 2005, 118, 1617-1628.	2.0	116
20	Symmetry breaking and the establishment of cell polarity in budding yeast. Current Opinion in Genetics and Development, 2011, 21, 740-746.	3.3	111
21	Modeling Vesicle Traffic Reveals Unexpected Consequences for Cdc42p-Mediated Polarity Establishment. Current Biology, 2011, 21, 184-194.	3.9	111
22	Adjacent positioning of cellular structures enabled by a Cdc42 GTPase-activating proteinâ€“mediated zone of inhibition. Journal of Cell Biology, 2007, 179, 1375-1384.	5.2	106
23	Tracking Shallow Chemical Gradients by Actin-Driven Wandering of the Polarization Site. Current Biology, 2013, 23, 32-41.	3.9	103
24	Cell-cycle checkpoints that ensure coordination between nuclear and cytoplasmic events in Saccharomyces cerevisiae. Current Opinion in Genetics and Development, 2000, 10, 47-53.	3.3	100
25	Beyond symmetry-breaking: competition and negative feedback in GTPase regulation. Trends in Cell Biology, 2013, 23, 476-483.	7.9	89
26	Mechanistic mathematical model of polarity in yeast. Molecular Biology of the Cell, 2012, 23, 1998-2013.	2.1	77
27	Role of Cdc42p in Pheromone-Stimulated Signal Transduction in Saccharomyces cerevisiae. Molecular and Cellular Biology, 2000, 20, 7559-7571.	2.3	75
28	Inhibitory GEF Phosphorylation Provides Negative Feedback in the Yeast Polarity Circuit. Current Biology, 2014, 24, 753-759.	3.9	75
29	Inhibition of Cdc42 during mitotic exit is required for cytokinesis. Journal of Cell Biology, 2013, 202, 231-240.	5.2	74
30	Determinants of Swe1p Degradation inSaccharomyces cerevisiae. Molecular Biology of the Cell, 2002, 13, 3560-3575.	2.1	72
31	Opposing Roles for Actin in Cdc42p Polarization. Molecular Biology of the Cell, 2005, 16, 1296-1304.	2.1	69
32	Eavesdropping on the cytoskeleton: progress and controversy in the yeast morphogenesis checkpoint. Current Opinion in Microbiology, 2006, 9, 540-546.	5.1	69
33	Phosphorylation-Independent Inhibition of Cdc28p by the Tyrosine Kinase Swe1p in the Morphogenesis Checkpoint. Molecular and Cellular Biology, 1999, 19, 5981-5990.	2.3	67
34	A Monitor for Bud Emergence in the Yeast Morphogenesis Checkpoint. Molecular Biology of the Cell, 2003, 14, 3280-3291.	2.1	64
35	Principles that govern competition or co-existence in Rho-GTPase driven polarization. PLoS Computational Biology, 2018, 14, e1006095.	3.2	63
36	Polarity establishment in yeast. Journal of Cell Science, 2004, 117, 2169-2171.	2.0	58

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37	Role of competition between polarity sites in establishing a unique front. ELife, 2015, 4, .	6.0	56
38	Role of Polarized G Protein Signaling in Tracking Pheromone Gradients. Developmental Cell, 2015, 35, 471-482.	7.0	54
39	Isolation and Characterization of Effector-Loop Mutants of<i>CDC42</i>in Yeast. Molecular Biology of the Cell, 2001, 12, 1239-1255.	2.1	53
40	Polarity establishment by Cdc42: Key roles for positive feedback and differential mobility. Small GTPases, 2019, 10, 130-137.	1.6	53
41	Polarity establishment requires localized activation of Cdc42. Journal of Cell Biology, 2015, 211, 19-26.	5.2	50
42	Genetic Interactions among Regulators of Septin Organization. Eukaryotic Cell, 2004, 3, 847-854.	3.4	47
43	Swe1p Responds to Cytoskeletal Perturbation, Not Bud Size, in S. cerevisiae. Current Biology, 2005, 15, 2190-2198.	3.9	41
44	Cell structure and dynamics. Current Opinion in Cell Biology, 2009, 21, 1-3.	5.4	41
45	Cell-cycle control of cell polarity in yeast. Journal of Cell Biology, 2019, 218, 171-189.	5.2	41
46	Differential Susceptibility of Yeast S and M Phase CDK Complexes to Inhibitory Tyrosine Phosphorylation. Current Biology, 2007, 17, 1181-1189.	3.9	39
47	Cdc42p regulation of the yeast formin Bni1p mediated by the effector Gic2p. Molecular Biology of the Cell, 2012, 23, 3814-3826.	2.1	38
48	Parallel Actin-Independent Recycling Pathways Polarize Cdc42 in Budding Yeast. Current Biology, 2016, 26, 2114-2126.	3.9	37
49	Unconventional Cell Division Cycles from Marine-Derived Yeasts. Current Biology, 2019, 29, 3439-3456.e5.	3.9	37
50	The Rho-GAP Bem2p plays a GAP-independent role in the morphogenesis checkpoint. EMBO Journal, 2002, 21, 4012-4025.	7.8	36
51	The Checkpoint Kinase Hsl1p Is Activated by Elm1p-dependent Phosphorylation. Molecular Biology of the Cell, 2008, 19, 4675-4686.	2.1	35
52	Nucleocytoplasmic Trafficking of G2/M Regulators in Yeast. Molecular Biology of the Cell, 2008, 19, 4006-4018.	2.1	29
53	Temporal regulation of morphogenetic events in<i>Saccharomyces cerevisiae</i>. Molecular Biology of the Cell, 2018, 29, 2069-2083.	2.1	27
54	Ratiometric GPCR signaling enables directional sensing in yeast. PLoS Biology, 2019, 17, e3000484.	5.6	27

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55	Sensing a bud in the yeast morphogenesis checkpoint: a role for Elm1. Molecular Biology of the Cell, 2016, 27, 1764-1775.	2.1	26
56	Interaction between bud-site selection and polarity-establishment machineries in budding yeast. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130006.	4.0	25
57	Dendritic spine geometry can localize GTPase signaling in neurons. Molecular Biology of the Cell, 2015, 26, 4171-4181.	2.1	25
58	Dynamics of septin ring and collar formation in <i>Saccharomyces cerevisiae</i>. Biological Chemistry, 2011, 392, 689-697.	2.5	22
59	Mechanistic insights into actin-driven polarity site movement in yeast. Molecular Biology of the Cell, 2020, 31, 1085-1102.	2.1	22
60	Feedback control of Swe1p degradation in the yeast morphogenesis checkpoint. Molecular Biology of the Cell, 2013, 24, 914-922.	2.1	19
61	Mating in wild yeast: delayed interest in sex after spore germination. Molecular Biology of the Cell, 2018, 29, 3119-3127.	2.1	19
62	How do cells know what shape they are?. Current Genetics, 2017, 63, 75-77.	1.7	18
63	Molecular Dissection of the Checkpoint Kinase Hsl1p. Molecular Biology of the Cell, 2009, 20, 1926-1936.	2.1	17
64	IP7 guards the CDK gate. Nature Chemical Biology, 2008, 4, 16-17.	8.0	16
65	Orientation of Cell Polarity by Chemical Gradients. Annual Review of Biophysics, 2022, 51, 431-451.	10.0	16
66	How cells determine the number of polarity sites. ELife, 2021, 10, .	6.0	15
67	Chemotactic movement of a polarity site enables yeast cells to find their mates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
68	Roles of Hsl1p and Hsl7p in Swe1p Degradation: beyond Septin Tethering. Eukaryotic Cell, 2012, 11, 1496-1502.	3.4	12
69	Exploratory polarization facilitates mating partner selection in <i>Saccharomyces cerevisiae</i>. Molecular Biology of the Cell, 2021, 32, 1048-1063.	2.1	12
70	A role for Gic1 and Gic2 in Cdc42 polarization at elevated temperature. PLoS ONE, 2018, 13, e0200863.	2.5	8
71	A novel stochastic simulation approach enables exploration of mechanisms for regulating polarity site movement. PLoS Computational Biology, 2021, 17, e1008525.	3.2	8
72	Chemotropism and Cell-Cell Fusion in Fungi. Microbiology and Molecular Biology Reviews, 2022, 86, e0016521.	6.6	7

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73	Mechanisms that ensure monogamous mating inSaccharomyces cerevisiae. Molecular Biology of the Cell, 2021, 32, 638-644.	2.1	6
74	Yeast Polarity: Negative Feedback Shifts the Focus. Current Biology, 2005, 15, R994-R996.	3.9	5
75	Microtubule Organization: Cell Shape Is Destiny. Current Biology, 2007, 17, R249-R251.	3.9	5
76	Cell Polarity: Netrin Calms an Excitable System. Current Biology, 2014, 24, R1050-R1052.	3.9	4
77	How Diffusion Impacts Cortical Protein Distribution in Yeasts. Cells, 2020, 9, 1113.	4.1	3
78	Imaging Polarization in Budding Yeast. Methods in Molecular Biology, 2016, 1407, 13-23.	0.9	2
79	To avoid a mating mishap, yeast focus and communicate. Journal of Cell Biology, 2015, 208, 867-868.	5.2	1
80	Pheromone Guidance of Polarity Site Movement in Yeast. Biomolecules, 2022, 12, 502.	4.0	1
81	An <i>MBoC</i> Favorite: Cytokinesis depends on the motor domains of myosin-II in fission yeast but not in budding yeast. Molecular Biology of the Cell, 2012, 23, 1608-1608.	2.1	0
82	Ratiometric GPCR signaling enables directional sensing in yeast. , 2019, 17, e3000484.		0
83	Ratiometric GPCR signaling enables directional sensing in yeast. , 2019, 17, e3000484.		0
84	Ratiometric GPCR signaling enables directional sensing in yeast. , 2019, 17, e3000484.		0
85	Ratiometric GPCR signaling enables directional sensing in yeast. , 2019, 17, e3000484.		0
86	Ratiometric GPCR signaling enables directional sensing in yeast. , 2019, 17, e3000484.		0
87	Ratiometric GPCR signaling enables directional sensing in yeast. , 2019, 17, e3000484.		0