Gero Steinberg

List of Publications by Year
in descending order

75 papers	4,877 citations	76326 40 h-index	98798 67 g-index
75 all docs	75 docs citations	75 times ranked	3394 citing authors

#	Article	IF	Citations
1	Septin-Mediated Plant Cell Invasion by the Rice Blast Fungus, <i>Magnaporthe oryzae</i>. Science, 2012, 336, 1590-1595.	12.6	311
2	Hyphal Growth: a Tale of Motors, Lipids, and the Spitzenkol̀rper. Eukaryotic Cell, 2007, 6, 351-360.	3.4	257
3	Threats to global food security from emerging fungal and oomycete crop pathogens. Nature Food, 2020, 1, 332-342.	14.0	234
4	A balance of KIF1A-like kinesin and dynein organizes early endosomes in the fungus Ustilago maydis. EMBO Journal, 2002, 21, 2946-2957.	7.8	150
5	The Role of the Fungal Cell Wall in the Infection of Plants. Trends in Microbiology, 2017, 25, 957-967.	7.7	146
6	Transient binding of dynein controls bidirectional long-range motility of early endosomes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3618-3623.	7.1	139
7	Hook is an adapter that coordinates kinesin-3 and dynein cargo attachment on early endosomes. Journal of Cell Biology, 2014, 204, 989-1007.	5.2	135
8	Peroxisomes, lipid droplets, and endoplasmic reticulum â€œhitchhikeâ€•on motile early endosomes. Journal of Cell Biology, 2015, 211, 945-954.	5.2	129
9	Endocytosis Is Essential for Pathogenic Development in the Corn Smut Fungus Ustilago maydis. Plant Cell, 2006, 18, 2066-2081.	6.6	128
10	Polar Localizing Class V Myosin Chitin Synthases Are Essential during Early Plant Infection in the Plant Pathogenic Fungus Ustilago maydis. Plant Cell, 2005, 18, 225-242.	6.6	121
11	Early endosome motility spatially organizes polysome distribution. Journal of Cell Biology, 2014, 204, 343-357.	5.2	116
12	Ustilago maydis, a new fungal model system for cell biology. Trends in Cell Biology, 2008, 18, 61-67.	7.9	113
13	A Chitin Synthase with a Myosin-Like Motor Domain Is Essential for Hyphal Growth, Appressorium Differentiation, and Pathogenicity of the Maize Anthracnose Fungus <i>Colletotrichum graminicola</i>. Molecular Plant-Microbe Interactions, 2007, 20, 1555-1567.	2.6	111
14	Myosin-V, Kinesin-1, and Kinesin-3 Cooperate in Hyphal Growth of the FungusUstilago maydis. Molecular Biology of the Cell, 2005, 16, 5191-5201.	2.1	108
15	Pheromone-Induced G 2 Arrest in the Phytopathogenic Fungus Ustilago maydis. Eukaryotic Cell, 2003, 2, 494-500.	3.4	104
16	Microtubule Organization Requires Cell Cycle-dependent Nucleation at Dispersed Cytoplasmic Sites: Polar and Perinuclear Microtubule Organizing Centers in the Plant PathogenUstilago maydis. Molecular Biology of the Cell, 2003, 14, 642-657.	2.1	102
17	Dynein Supports Motility of Endoplasmic Reticulum in the FungusUstilago maydis. Molecular Biology of the Cell, 2002, 13, 965-977.	2.1	101
18	Cell biology of Zymoseptoria tritici : Pathogen cell organization and wheat infection. Fungal Genetics and Biology, 2015, 79, 17-23.	2.1	98

#	ARTICLE	IF	CITATIONS
19	Cell Biology of Hyphal Growth. Microbiology Spectrum, 2017, 5, .	3.0	98
20	Myosin-5, kinesin-1 and myosin-17 cooperate in secretion of fungal chitin synthase. EMBO Journal, 2012, 31, 214-227.	7.8	97
21	On the move: endosomes in fungal growth and pathogenicity. Nature Reviews Microbiology, 2007, 5, 309-316.	28.6	95
22	A split motor domain in a cytoplasmic dynein. EMBO Journal, 2001, 20, 5091-5100.	7.8	89
23	Endocytosis and early endosome motility in filamentous fungi. Current Opinion in Microbiology, 2014, 20, 10-18.	5.1	88
24	A novel mechanism of nuclear envelope break-down in a fungus: nuclear migration strips off the envelope. EMBO Journal, 2005, 24, 1674-1685.	7.8	87
25	Long-distance endosome trafficking drives fungal effector production during plant infection. Nature Communications, 2014, 5, 5097.	12.8	86
26	Microtubules Are Dispensable for the Initial Pathogenic Development but Required for Long-Distance Hyphal Growth in the Corn Smut FungusUstilago maydis. Molecular Biology of the Cell, 2005, 16, 2746-2758.	2.1	82
27	A Class-V Myosin Required for Mating, Hyphal Growth, and Pathogenicity in the Dimorphic Plant Pathogen Ustilago maydis Â[W]. Plant Cell, 2003, 15, 2826-2842.	6.6	79
28	Sustained cell polarity and virulence in the phytopathogenic fungus Ustilago maydis depends on an essential cyclin-dependent kinase from the Cdk5/Pho85 family. Journal of Cell Science, 2007, 120, 1584-1595.	2.0	79
29	The Myosin Motor Domain of Fungal Chitin Synthase V Is Dispensable for Vesicle Motility but Required for Virulence of the Maize Pathogen Ustilago maydis Â. Plant Cell, 2010, 22, 2476-2494.	6.6	78
30	Controlled and stochastic retention concentrates dynein at microtubule ends to keep endosomes on track. EMBO Journal, 2011, 30, 652-664.	7.8	78
31	Kinesin-3 and dynein cooperate in long-range retrograde endosome motility along a nonuniform microtubule array. Molecular Biology of the Cell, 2011, 22, 3645-3657.	2.1	78
32	Conventional Kinesin Mediates Microtubule-Microtubule Interactions In Vivo. Molecular Biology of the Cell, 2006, 17, 907-916.	2.1	69
33	Active diffusion and microtubule-based transport oppose myosin forces to position organelles in cells. Nature Communications, 2016, 7, 11814.	12.8	69
34	Mechanisms of Hyphal Tip Growth: Tube Dwelling Amebae Revisited. Fungal Genetics and Biology, 1999, 28, 79-93.	2.1	60
35	Molecular characterization and functional analyses of <i><scp>ZtWor1</scp></i>, a transcriptional regulator of the fungal wheat pathogen <i><scp>Z</scp>ymoseptoria tritici</i>. Molecular Plant Pathology, 2014, 15, 394-405.	4.2	60
36	Dynein-mediated pulling forces drive rapid mitotic spindle elongation in Ustilago maydis. EMBO Journal, 2006, 25, 4897-4908.	7.8	58

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37	Calcium Signaling Is Involved in Dynein-dependent Microtubule Organization. Molecular Biology of the Cell, 2004, 15, 1969-1980.	2.1	56
38	Co-delivery of cell-wall-forming enzymes in the same vesicle for coordinated fungal cell wall formation. Nature Microbiology, 2016, 1, 16149.	13.3	56
39	Motors in fungal morphogenesis: cooperation versus competition. Current Opinion in Microbiology, 2011, 14, 660-667.	5.1	52
40	New insights into the peroxisomal protein inventory: Acyl-CoA oxidases and -dehydrogenases are an ancient feature of peroxisomes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 111-125.	4.1	49
41	Fungi, fungicide discovery and global food security. Fungal Genetics and Biology, 2020, 144, 103476.	2.1	48
42	Dynamic Rearrangement of Nucleoporins during Fungal â€œOpenâ€•Mitosis. Molecular Biology of the Cell, 2008, 19, 1230-1240.	2.1	43
43	Dynein-dependent Motility of Microtubules and Nucleation Sites Supports Polarization of the Tubulin Array in the Fungus Ustilago maydis. Molecular Biology of the Cell, 2006, 17, 3242-3253.	2.1	42
44	A codon-optimized green fluorescent protein for live cell imaging in Zymoseptoria tritici. Fungal Genetics and Biology, 2015, 79, 125-131.	2.1	37
45	A gene locus for targeted ectopic gene integration in Zymoseptoria tritici. Fungal Genetics and Biology, 2015, 79, 118-124.	2.1	35
46	Motor-driven motility of fungal nuclear pores organizes chromosomes and fosters nucleocytoplasmic transport. Journal of Cell Biology, 2012, 198, 343-355.	5.2	33
47	A lipophilic cation protects crops against fungal pathogens by multiple modes of action. Nature Communications, 2020, 11, 1608.	12.8	31
48	Queueing induced by bidirectional motor motion near the end of a microtubule. Physical Review E, 2010, 82, 051907.	2.1	27
49	Red fluorescent proteins for imaging Zymoseptoria tritici during invasion of wheat. Fungal Genetics and Biology, 2015, 79, 132-140.	2.1	27
50	Woronin body-based sealing of septal pores. Fungal Genetics and Biology, 2017, 109, 53-55.	2.1	27
51	Fluorescent markers of various organelles in the wheat pathogen Zymoseptoria tritici. Fungal Genetics and Biology, 2017, 105, 16-27.	2.1	25
52	The dynamic fungal cell. Fungal Biology Reviews, 2011, 25, 14-37.	4.7	23
53	Measurement of virulence in Zymoseptoria tritici through low inoculum-density assays. Fungal Genetics and Biology, 2015, 79, 89-93.	2.1	22
54	Fluorescent markers of the endocytic pathway in Zymoseptoria tritici. Fungal Genetics and Biology, 2015, 79, 150-157.	2.1	22

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55	Asynchronous development of Zymoseptoria tritici infection in wheat. Fungal Genetics and Biology, 2021, 146, 103504.	2.1	22
56	Fluorescent markers of the microtubule cytoskeleton in Zymoseptoria tritici. Fungal Genetics and Biology, 2015, 79, 141-149.	2.1	18
57	Fluorescent markers for the SpitzenkÃ¶rper and exocytosis in Zymoseptoria tritici. Fungal Genetics and Biology, 2015, 79, 158-165.	2.1	18
58	The fungus Ustilago maydis and humans share disease-related proteins that are not found in Saccharomyces cerevisiae. BMC Genomics, 2007, 8, 473.	2.8	15
59	Cell Biology of Hyphal Growth. , 0, , 231-265.		15
60	The transport machinery for motility of fungal endosomes. Fungal Genetics and Biology, 2012, 49, 675-676.	2.1	14
61	Early endosomes motility in filamentous fungi: How and why they move. Fungal Biology Reviews, 2015, 29, 1-6.	4.7	12
62	The fungicide dodine primarily inhibits mitochondrial respiration in Ustilago maydis, but also affects plasma membrane integrity and endocytosis, which is not found in Zymoseptoria tritici. Fungal Genetics and Biology, 2020, 142, 103414.	2.1	11
63	Conditional promoters for analysis of essential genes in Zymoseptoria tritici. Fungal Genetics and Biology, 2015, 79, 166-173.	2.1	10
64	ATP prevents Woronin bodies from sealing septal pores in unwounded cells of the fungus <i>Zymoseptoria tritici</i>. Cellular Microbiology, 2017, 19, e12764.	2.1	10
65	The mechanism of peroxisome motility in filamentous fungi. Fungal Genetics and Biology, 2016, 97, 33-35.	2.1	9
66	Cytoplasmic Fungal Lipases Release Fungicides from Ultra-Deformable Vesicular Drug Carriers. PLoS ONE, 2012, 7, e38181.	2.5	8
67	Kinesin-3 in the basidiomycete Ustilago maydis transports organelles along the entire microtubule array. Fungal Genetics and Biology, 2015, 74, 59-61.	2.1	6
68	Libraries for two-hybrid screening of yeast and hyphal growth forms in Zymoseptoria tritici. Fungal Genetics and Biology, 2015, 79, 94-101.	2.1	5
69	Spatial organization of organelles in fungi: Insights from mathematical modelling. Fungal Genetics and Biology, 2017, 103, 55-59.	2.1	5
70	Class V chitin synthase and Î²(1,3)-glucan synthase co-travel in the same vesicle in Zymoseptoria tritici. Fungal Genetics and Biology, 2020, 135, 103286.	2.1	4
71	Optimised red- and green-fluorescent proteins for live cell imaging in the industrial enzyme-producing fungus Trichoderma reesei. Fungal Genetics and Biology, 2020, 138, 103366.	2.1	3
72	Optimal timing for Agrobacterium-mediated DNA transformation of Trichoderma reesei conidia revealed by live cell imaging. Fungal Genetics and Biology, 2020, 142, 103448.	2.1	2

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73	Conditional promoters to investigate gene function during wheat infection by Zymoseptoria tritici. Fungal Genetics and Biology, 2021, 146, 103487.	2.1	1
74	Modelling the motion of organelles in an elongated cell via the coordination of heterogeneous driftâ€“diffusion and long-range transport. European Physical Journal E, 2021, 44, 10.	1.6	1
75	Editorial overview: Parasitic and fungal diseases. Current Opinion in Microbiology, 2016, 34, v-vi.	5.1	0