

Nick D Read

List of Publications by Year in descending order

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127
papers

12,436
citations

36303

51
h-index

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107
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135
all docs

135
docs citations

135
times ranked

9905
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome sequence of the filamentous fungus <i>Neurospora crassa</i> . <i>Nature</i> , 2003, 422, 859-868.	27.8	1,528
2	The genome sequence of the rice blast fungus <i>Magnaporthe grisea</i> . <i>Nature</i> , 2005, 434, 980-986.	27.8	1,447
3	Lessons from the Genome Sequence of <i>Neurospora crassa</i> : Tracing the Path from Genomic Blueprint to Multicellular Organism. <i>Microbiology and Molecular Biology Reviews</i> , 2004, 68, 1-108.	6.6	572
4	FM-dyes as experimental probes for dissecting vesicle trafficking in living plant cells. <i>Journal of Microscopy</i> , 2004, 214, 159-173.	1.8	522
5	Confocal microscopy of FM4-64 as a tool for analysing endocytosis and vesicle trafficking in living fungal hyphae. <i>Journal of Microscopy</i> , 2000, 198, 246-259.	1.8	384
6	GFP as a tool to analyze the organization, dynamics and function of nuclei and microtubules in <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2004, 41, 897-910.	2.1	306
7	Polarisome Meets Spitzenkörper: Microscopy, Genetics, and Genomics Converge. <i>Eukaryotic Cell</i> , 2005, 4, 225-229.	3.4	252
8	Cytosolic free calcium mediates red light-induced photomorphogenesis. <i>Nature</i> , 1992, 358, 753-755.	27.8	224
9	HP1 Is Essential for DNA Methylation in <i>Neurospora</i> . <i>Molecular Cell</i> , 2004, 13, 427-434.	9.7	207
10	Live-cell imaging of vegetative hyphal fusion in <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2002, 37, 109-119.	2.1	206
11	Membrane fluidity determines sensitivity of filamentous fungi to chitosan. <i>Molecular Microbiology</i> , 2010, 75, 1021-1032.	2.5	197
12	Hyphal homing, fusion and mycelial interconnectedness. <i>Trends in Microbiology</i> , 2004, 12, 135-141.	7.7	193
13	Role of cytosolic free calcium in the reorientation of pollen tube growth. <i>Plant Journal</i> , 1994, 5, 331-341.	5.7	187
14	The self-incompatibility response in <i>Papaver rhoeas</i> is mediated by cytosolic free calcium. <i>Plant Journal</i> , 1993, 4, 163-177.	5.7	185
15	The endocytic network in plants. <i>Trends in Cell Biology</i> , 2005, 15, 425-433.	7.9	178
16	Calcium Channel Activity during Pollen Tube Growth and Reorientation.. <i>Plant Cell</i> , 1995, 7, 1173-1184.	6.6	172
17	De novo Assembly of a 40 Mb Eukaryotic Genome from Short Sequence Reads: <i>Sordaria macrospora</i> , a Model Organism for Fungal Morphogenesis. <i>PLoS Genetics</i> , 2010, 6, e1000891.	3.5	169
18	Loss of actin cytoskeletal function and EDS1 activity, in combination, severely compromises non-host resistance in <i>Arabidopsis</i> against wheat powdery mildew. <i>Plant Journal</i> , 2003, 34, 768-777.	5.7	161

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19	Role of a Mitogen-Activated Protein Kinase Pathway during Conidial Germination and Hyphal Fusion in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2004, 3, 348-358.	3.4	157
20	Cell Biology of Conidial Anastomosis Tubes in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2005, 4, 911-919.	3.4	157
21	The pH-Responsive PacC Transcription Factor of <i>Aspergillus fumigatus</i> Governs Epithelial Entry and Tissue Invasion during Pulmonary Aspergillosis. <i>PLoS Pathogens</i> , 2014, 10, e1004413.	4.7	151
22	Live-cell Imaging of Filamentous Fungi Using Vital Fluorescent Dyes and Confocal Microscopy. <i>Methods in Microbiology</i> , 2004, 34, 63-87.	0.8	147
23	Oscillatory recruitment of signaling proteins to cell tips promotes coordinated behavior during cell fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19387-19392.	7.1	146
24	Actin organization and dynamics in filamentous fungi. <i>Nature Reviews Microbiology</i> , 2011, 9, 876-887.	28.6	142
25	F-Actin Dynamics in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2010, 9, 547-557.	3.4	139
26	Chitosan permeabilizes the plasma membrane and kills cells of <i>Neurospora crassa</i> in an energy dependent manner. <i>Fungal Genetics and Biology</i> , 2009, 46, 585-594.	2.1	129
27	A comparative genomic analysis of the calcium signaling machinery in <i>Neurospora crassa</i> , <i>Magnaporthe grisea</i> , and <i>Saccharomyces cerevisiae</i> . <i>Fungal Genetics and Biology</i> , 2004, 41, 827-841.	2.1	128
28	Conidial anastomosis tubes in filamentous fungi. <i>FEMS Microbiology Letters</i> , 2005, 249, 191-198.	1.8	127
29	The <i>so</i> Locus Is Required for Vegetative Cell Fusion and Postfertilization Events in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2005, 4, 920-930.	3.4	121
30	Spacer-free BODIPY fluorogens in antimicrobial peptides for direct imaging of fungal infection in human tissue. <i>Nature Communications</i> , 2016, 7, 10940.	12.8	112
31	Ascus and ascospore morphogenesis. <i>Mycological Research</i> , 1996, 100, 1281-1314.	2.5	103
32	Calcium measurement in living filamentous fungi expressing codon-optimized aequorin. <i>Molecular Microbiology</i> , 2004, 52, 1437-1450.	2.5	102
33	Self-signalling and self-fusion in filamentous fungi. <i>Current Opinion in Microbiology</i> , 2009, 12, 608-615.	5.1	101
34	Role of external signals in regulating the pre-penetration phase of infection by the rice blast fungus, <i>Magnaporthe grisea</i> . <i>Planta</i> , 1994, 194, 471-477.	3.2	95
35	Heterokaryon Incompatibility Is Suppressed Following Conidial Anastomosis Tube Fusion in a Fungal Plant Pathogen. <i>PLoS ONE</i> , 2012, 7, e31175.	2.5	89
36	Nuclear Dynamics, Mitosis, and the Cytoskeleton during the Early Stages of Colony Initiation in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2010, 9, 1171-1183.	3.4	81

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37	Role of Calcium in Signal Transduction of Commelina Guard Cells. <i>Plant Cell</i> , 1991, 3, 333.	6.6	76
38	Low-temperature scanning electron microscopy in biology. <i>Journal of Microscopy</i> , 1991, 161, 59-72.	1.8	74
39	Live-Cell Imaging and Measurement of Intracellular pH in Filamentous Fungi Using a Genetically Encoded Ratiometric Probe. <i>Eukaryotic Cell</i> , 2009, 8, 703-712.	3.4	74
40	The mechanistic basis of self-fusion between conidial anastomosis tubes during fungal colony initiation. <i>Fungal Biology Reviews</i> , 2012, 26, 1-11.	4.7	71
41	Live-cell imaging of endocytosis during conidial germination in the rice blast fungus, <i>Magnaporthe grisea</i> . <i>Fungal Genetics and Biology</i> , 2002, 37, 233-244.	2.1	69
42	Does endocytosis occur in fungal hyphae?. <i>Fungal Genetics and Biology</i> , 2003, 39, 199-203.	2.1	69
43	The Antifungal Activity of the <i>Penicillium chrysogenum</i> Protein PAF Disrupts Calcium Homeostasis in <i>Neurospora crassa</i> . <i>Eukaryotic Cell</i> , 2010, 9, 1374-1382.	3.4	67
44	Effect of the Novel Antifungal Drug F901318 (Olorofim) on Growth and Viability of <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	65
45	Role of topography sensing for infection-structure differentiation in cereal rust fungi. <i>Planta</i> , 1997, 202, 163-170.	3.2	62
46	Spatially Segregated SNARE Protein Interactions in Living Fungal Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 22775-22785.	3.4	60
47	Preparation of a Trp-BODIPY fluorogenic amino acid to label peptides for enhanced live-cell fluorescence imaging. <i>Nature Protocols</i> , 2017, 12, 1588-1619.	12.0	58
48	Concentration-dependent mechanisms of cell penetration and killing by the <i>de novo</i> designed antifungal hexapeptide PAF26. <i>Molecular Microbiology</i> , 2012, 85, 89-106.	2.5	56
49	High-precision FLIM-FRET in fixed and living cells reveals heterogeneity in a simple CFP-YFP fusion protein. <i>Biophysical Chemistry</i> , 2007, 127, 155-164.	2.8	55
50	Perithecium morphogenesis in <i>Sordaria macrospora</i> . <i>Fungal Genetics and Biology</i> , 2011, 48, 388-399.	2.1	55
51	Exocytosis and growth do not occur only at hyphal tips. <i>Molecular Microbiology</i> , 2011, 81, 4-7.	2.5	55
52	Ambient- and Low-Temperature Scanning Electron Microscopy. , 1991, , 313-413.		54
53	The promoter of a basic PR1-like gene, <i>AtPRB1</i> , from <i>Arabidopsis</i> establishes an organ-specific expression pattern and responsiveness to ethylene and methyl jasmonate. <i>Plant Molecular Biology</i> , 2001, 47, 641-652.	3.9	53
54	Understanding the mechanism of action of cell-penetrating antifungal peptides using the rationally designed hexapeptide PAF26 as a model. <i>Fungal Biology Reviews</i> , 2013, 26, 146-155.	4.7	53

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55	Water droplets and ice deposits in leaf intercellular spaces: redistribution of water during cryofixation for scanning electron microscopy. <i>Planta</i> , 1987, 172, 20-37.	3.2	52
56	Characterization of a Novel, Defense-Related Arabidopsis Mutant, <i>cir1</i> , Isolated By Luciferase Imaging. <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 557-566.	2.6	49
57	Time-Multiplexed Laguerre-Gaussian holographic optical tweezers for biological applications. <i>Optics Express</i> , 2006, 14, 3065.	3.4	49
58	A Mutant Defective in Sexual Development Produces Aseptate Ascogonia. <i>Eukaryotic Cell</i> , 2010, 9, 1856-1866.	3.4	49
59	Caspofungin-Mediated Growth Inhibition and Paradoxical Growth in <i>Aspergillus fumigatus</i> Involve Fungicidal Hyphal Tip Lysis Coupled with Regenerative Intrahyphal Growth and Dynamic Changes in β -1,3-Glucan Synthase Localization. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	49
60	A novel family of dehydrin-like proteins is involved in stress response in the human fungal pathogen <i>Aspergillus fumigatus</i> . <i>Molecular Biology of the Cell</i> , 2011, 22, 1896-1906.	2.1	48
61	Specific domains of plant defensins differentially disrupt colony initiation, cell fusion and calcium homeostasis in <i>Neurospora crassa</i> . <i>Molecular Microbiology</i> , 2014, 92, 1357-1374.	2.5	46
62	Antifungal mechanisms of a plant defensin MtDef4 are not conserved between the ascomycete fungi <i>Neurospora crassa</i> and <i>Fusarium graminearum</i> . <i>Molecular Microbiology</i> , 2016, 100, 542-559.	2.5	46
63	Flow cytometry and FACS applied to filamentous fungi. <i>Fungal Biology Reviews</i> , 2019, 33, 1-15.	4.7	45
64	Different cell types in <i>Neurospora crassa</i> . <i>Fungal Genetics Reports</i> , 2003, 50, 17-19.	0.6	45
65	Palmitoylation of the Cysteine Residue in the DHHC Motif of a Palmitoyl Transferase Mediates Ca ²⁺ Homeostasis in <i>Aspergillus</i> . <i>PLoS Genetics</i> , 2016, 12, e1005977.	3.5	43
66	Searching for the Optimal Fluorophore to Label Antimicrobial Peptides. <i>ACS Combinatorial Science</i> , 2016, 18, 689-696.	3.8	43
67	Septins Are Important for Cell Polarity, Septation and Asexual Spore Formation in <i>Neurospora crassa</i> and Show Different Patterns of Localisation at Germ Tube Tips. <i>PLoS ONE</i> , 2013, 8, e63843.	2.5	43
68	Hyphal Fusion. , 0, , 260-273.		42
69	Importance of MAP Kinases during Protoperithecial Morphogenesis in <i>Neurospora crassa</i> . <i>PLoS ONE</i> , 2012, 7, e42565.	2.5	42
70	Imaging living cells of <i>Aspergillus</i> in vitro. <i>Medical Mycology</i> , 2009, 47, S110-S119.	0.7	41
71	Excitable behavior can explain the "ping-pong" mode of communication between cells using the same chemoattractant. <i>BioEssays</i> , 2012, 34, 259-266.	2.5	41
72	CDC-42 and RAC-1 regulate opposite chemotropisms in <i>Neurospora crassa</i> . <i>Journal of Cell Science</i> , 2014, 127, 1953-1965.	2.0	41

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73	The ham-5, rcm-1 and rco-1 genes regulate hyphal fusion in <i>Neurospora crassa</i> . <i>Microbiology (United Kingdom)</i> , 2010, 164, 1071-1081.	1.8	41
74	Live-cell imaging of conidial fusion in the bean pathogen, <i>Colletotrichum lindemuthianum</i> . <i>Fungal Biology</i> , 2010, 114, 2-9.	2.5	40
75	Lung colonization by <i>Aspergillus fumigatus</i> is controlled by ZNF77. <i>Nature Communications</i> , 2018, 9, 3835.	12.8	40
76	Calcium-Mediated Induction of Paradoxical Growth following Caspofungin Treatment Is Associated with Calcineurin Activation and Phosphorylation in <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 4946-4955.	3.2	39
77	Optical tweezer micromanipulation of filamentous fungi. <i>Fungal Genetics and Biology</i> , 2007, 44, 1-13.	2.1	38
78	Form follows function – The versatile fungal cytoskeleton. <i>Fungal Biology</i> , 2011, 115, 518-540.	2.5	38
79	Two Functional Motifs Define the Interaction, Internalization and Toxicity of the Cell-Penetrating Antifungal Peptide PAF26 on Fungal Cells. <i>PLoS ONE</i> , 2013, 8, e54813.	2.5	38
80	Confocal microscopy of living fungal hyphae microinjected with Ca ²⁺ -sensitive fluorescent dyes. <i>Mycological Research</i> , 1993, 97, 1505-1515.	2.5	37
81	Comparative Live-Cell Imaging Analyses of SPA-2, BUD-6 and BNI-1 in <i>Neurospora crassa</i> Reveal Novel Features of the Filamentous Fungal Polarisome. <i>PLoS ONE</i> , 2012, 7, e30372.	2.5	36
82	Cross-talk between cAMP and calcium signalling in <i>Aspergillus niger</i> . <i>Molecular Microbiology</i> , 2005, 56, 268-281.	2.5	35
83	D19S Mutation of the Cationic, Cysteine-Rich Protein PAF: Novel Insights into Its Structural Dynamics, Thermal Unfolding and Antifungal Function. <i>PLoS ONE</i> , 2017, 12, e0169920.	2.5	35
84	Synergistic induction of wheat stem rust appressoria by chemical and topographical signals. <i>Physiological and Molecular Plant Pathology</i> , 2001, 58, 259-266.	2.5	32
85	Accumulation of specific sterol precursors targets a MAP kinase cascade mediating cell-cell recognition and fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11877-11882.	7.1	32
86	Selective transport between heterogeneous hyphal compartments via the plasma membrane lining septal walls of <i>Aspergillus niger</i> . <i>Fungal Genetics and Biology</i> , 2015, 82, 193-200.	2.1	30
87	Dynamic distribution of BIMGPP1 in living hyphae of <i>Aspergillus</i> indicates a novel role in septum formation. <i>Molecular Microbiology</i> , 2002, 45, 1219-1230.	2.5	28
88	Evaluation of Corneal Cross-Linking for Treatment of Fungal Keratitis: Using Confocal Laser Scanning Microscopy on an Ex Vivo Human Corneal Model. , 2016, 57, 6367.		27
89	Danger signals activate a putative innate immune system during regeneration in a filamentous fungus. <i>PLoS Genetics</i> , 2018, 14, e1007390.	3.5	27
90	Low-Temperature Scanning Electron Microscopy of Fungi and Fungus-Plant Interactions. , 1991, , 17-29.		26

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91	Appressorium induction by topographical signals in six cereal rusts. <i>Physiological and Molecular Plant Pathology</i> , 1997, 51, 169-179.	2.5	26
92	Cell Wall Composition Heterogeneity between Single Cells in <i>Aspergillus fumigatus</i> Leads to Heterogeneous Behavior during Antifungal Treatment and Phagocytosis. <i>MBio</i> , 2020, 11, .	4.1	25
93	Imaging calcium dynamics in living plant cells and tissues. <i>Cell Biology International</i> , 1993, 17, 111-126.	3.0	24
94	Spatio-temporal MAP kinase dynamics mediate cell behavior coordination during fungal somatic cell fusion. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	24
95	Phagolysosomal Survival Enables Non-lytic Hyphal Escape and Ramification Through Lung Epithelium During <i>Aspergillus fumigatus</i> Infection. <i>Frontiers in Microbiology</i> , 2020, 11, 1955.	3.5	24
96	The bacterial secondary metabolite 2,4-diacetylphloroglucinol impairs mitochondrial function and affects calcium homeostasis in <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2013, 56, 135-146.	2.1	22
97	Electrophilic, Activation-Free Fluorogenic Reagent for Labeling Bioactive Amines. <i>Bioconjugate Chemistry</i> , 2016, 27, 1430-1434.	3.6	22
98	Development of an adaptable headspace sampling method for metabolic profiling of the fungal volatome. <i>Analyst, The</i> , 2018, 143, 4155-4162.	3.5	22
99	A versatile set of Lifeact-RFP expression plasmids for live-cell imaging of F-actin in filamentous fungi. <i>Fungal Genetics Reports</i> , 2010, 57, 8-14.	0.6	22
100	Calcium Waves and Dynamics Visualized by Confocal Microscopy in <i>Xenopus</i> Oocytes Expressing Cloned TRH Receptors. <i>Journal of Neuroendocrinology</i> , 1994, 6, 173-178.	2.6	21
101	Homothallism and heterothallism in <i>Sordaria brevicollis</i> . <i>Mycological Research</i> , 1998, 102, 1215-1223.	2.5	21
102	Live-cell imaging of conidial anastomosis tube fusion during colony initiation in <i>Fusarium oxysporum</i> . <i>PLoS ONE</i> , 2018, 13, e0195634.	2.5	21
103	Spectral imaging in a snapshot. , 2005, , .		20
104	Inducible Cell Fusion Permits Use of Competitive Fitness Profiling in the Human Pathogenic Fungus <i>Aspergillus fumigatus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	20
105	Different Stress-Induced Calcium Signatures Are Reported by Aequorin-Mediated Calcium Measurements in Living Cells of <i>Aspergillus fumigatus</i> . <i>PLoS ONE</i> , 2015, 10, e0138008.	2.5	20
106	The Dynamic Influence of Olorofim (F901318) on the Cell Morphology and Organization of Living Cells of <i>Aspergillus fumigatus</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 47.	3.5	17
107	Evidence for tryptophan being a signal molecule that inhibits conidial anastomosis tube fusion during colony initiation in <i>Neurospora crassa</i> . <i>Fungal Genetics and Biology</i> , 2012, 49, 896-902.	2.1	16
108	Genes involved in protein glycosylation determine the activity and cell internalization of the antifungal peptide PAF26 in <i>Saccharomyces cerevisiae</i> . <i>Fungal Genetics and Biology</i> , 2013, 58-59, 105-115.	2.1	16

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109	Activation of a TRP-like channel and intracellular calcium dynamics during phospholipase C-mediated cell death. <i>Journal of Cell Science</i> , 2014, 127, 3817-29.	2.0	16
110	Vegetative Hyphal Fusion in Filamentous Fungi. , 2006, , 87-98.		15
111	Characterisation of <i>Aspergillus fumigatus</i> Endocytic Trafficking within Airway Epithelial Cells Using High-Resolution Automated Quantitative Confocal Microscopy. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 454.	3.5	14
112	Experimentally manipulating fungi with optical tweezers*. <i>Mycoscience</i> , 2007, 48, 15-19.	0.8	13
113	Examination of living fungal spores by scanning electron microscopy. <i>Experimental Mycology</i> , 1991, 15, 132-139.	1.6	12
114	Expression of Recombinant Aequorin as an Intracellular Calcium Reporter in the Phytopathogenic Fungus <i>Phyllosticta ampellicida</i> . <i>Fungal Genetics and Biology</i> , 2001, 34, 207-215.	2.1	12
115	Mutual independence of alkaline and calcium-mediated signalling in <i>Aspergillus fumigatus</i> refutes the existence of a conserved druggable signalling nexus. <i>Molecular Microbiology</i> , 2017, 106, 861-875.	2.5	12
116	Apical Structure of Actively Growing Fern Rhizoids Examined by DIC and Confocal Microscopy. <i>Annals of Botany</i> , 2000, 85, 233-245.	2.9	10
117	Imaging Spitzenkörper, pH and calcium dynamics in growing fungal hyphae. , 1998, 54, 179-181.		9
118	Algorithms for the automated analysis of cellular dynamics within living fungal colonies. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 768-780.	1.5	9
119	Live-Cell Imaging and Analysis Shed Light on the Complexity and Dynamics of Antimicrobial Peptide Action. <i>Frontiers in Immunology</i> , 2012, 3, 248.	4.8	9
120	Live-cell imaging of rapid calcium dynamics using fluorescent, genetically-encoded GCaMP probes with <i>Aspergillus fumigatus</i> . <i>Fungal Genetics and Biology</i> , 2021, 151, 103470.	2.1	7
121	Environmental sensing and the filamentous fungal lifestyle. , 2007, , 38-57.		6
122	The <i>Neurospora crassa</i> colonial temperature sensitive 2, 4 and 5 (cot-2, cot-4 and cot-5) genes encode regulatory and structural proteins required for hyphal elongation and branching. <i>Fungal Genetics Reports</i> , 2008, 55, 32-36.	0.6	6
123	Courtship Ritual of Male and Female Nuclei during Fertilization in <i>Neurospora crassa</i> . <i>Microbiology Spectrum</i> , 2021, 9, e0033521.	3.0	4
124	Ca ²⁺ Signalling Differentially Regulates Germ-Tube Formation and Cell Fusion in <i>Fusarium oxysporum</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 90.	3.5	4
125	<i>Colletotrichum lindemuthianum</i> exhibits different patterns of nuclear division at different stages in its vegetative life cycle. <i>Mycologia</i> , 2013, 105, 795-801.	1.9	2
126	Measuring fungal growth forces with optical tweezers. , 2005, , .		1

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127	Calcium homeostasis plays important roles in the internalization and activities of the small synthetic antifungal peptide PAF26. <i>Molecular Microbiology</i> , 2020, 114, 521-535.	2.5	1