

John Paul Rathjen

List of Publications by Year in descending order

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73
papers

10,652
citations

66343

42
h-index

79698

73
g-index

95
all docs

95
docs citations

95
times ranked

10114
citing authors

#	ARTICLE	IF	CITATIONS
1	A Chromosome Scale Assembly of an Australian <i>Puccinia striiformis</i> f. sp. <i>tritici</i> Isolate of the PstS1 Lineage. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 293-296.	2.6	12
2	Physical separation of haplotypes in dikaryons allows benchmarking of phasing accuracy in Nanopore and HiFi assemblies with Hi-C data. <i>Genome Biology</i> , 2022, 23, 84.	8.8	31
3	Inferring Species Compositions of Complex Fungal Communities from Long- and Short-Read Sequence Data. <i>MBio</i> , 2022, 13, e0244421.	4.1	2
4	Plant pathology: Precision genome engineering keeps wheat disease at bay. <i>Current Biology</i> , 2022, 32, R382-R384.	3.9	1
5	A new method to visualize CEP hormone-CEP receptor interactions in vascular tissue <i>in vivo</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 6164-6174.	4.8	7
6	Long-read sequencing based clinical metagenomics for the detection and confirmation of <i>Pneumocystis jirovecii</i> directly from clinical specimens: A paradigm shift in mycological diagnostics. <i>Medical Mycology</i> , 2020, 58, 650-660.	0.7	28
7	Blurred lines: integrating emerging technologies to advance plant biosecurity. <i>Current Opinion in Plant Biology</i> , 2020, 56, 127-134.	7.1	7
8	Distinct Life Histories Impact Dikaryotic Genome Evolution in the Rust Fungus <i>Puccinia striiformis</i> Causing Stripe Rust in Wheat. <i>Genome Biology and Evolution</i> , 2020, 12, 597-617.	2.5	34
9	Plant NLR immune receptor Tm-22 activation requires NB-ARC domain-mediated self-association of CC domain. <i>PLoS Pathogens</i> , 2020, 16, e1008475.	4.7	44
10	Harnessing the MinION: An example of how to establish long-read sequencing in a laboratory using challenging plant tissue from <i>Eucalyptus pauciflora</i> . <i>Molecular Ecology Resources</i> , 2019, 19, 77-89.	4.8	53
11	NAD ⁺ cleavage activity by animal and plant TIR domains in cell death pathways. <i>Science</i> , 2019, 365, 793-799.	12.6	357
12	Pathogen Detection and Microbiome Analysis of Infected Wheat Using a Portable DNA Sequencer. <i>Phytobiomes Journal</i> , 2019, 3, 92-101.	2.7	33
13	A Near-Complete Haplotype-Phased Genome of the Dikaryotic Wheat Stripe Rust Fungus <i>Puccinia striiformis</i> f. sp. <i>tritici</i> Reveals High Interhaplotype Diversity. <i>MBio</i> , 2018, 9, .	4.1	112
14	<i>De Novo</i> Assembly and Phasing of Dikaryotic Genomes from Two Isolates of <i>Puccinia coronata</i> f. sp. <i>avenae</i> , the Causal Agent of Oat Crown Rust. <i>MBio</i> , 2018, 9, .	4.1	57
15	Development of a Rapid in planta BiOLD System as a Probe for Plasma Membrane-Associated Immunity Proteins. <i>Frontiers in Plant Science</i> , 2018, 9, 1882.	3.6	42
16	Differential Suppression of <i>Nicotiana benthamiana</i> Innate Immune Responses by Transiently Expressed <i>Pseudomonas syringae</i> Type III Effectors. <i>Frontiers in Plant Science</i> , 2018, 9, 688.	3.6	21
17	Fungal phytopathogens encode functional homologues of plant rapid alkalization factor (RALF) peptides. <i>Molecular Plant Pathology</i> , 2017, 18, 811-824.	4.2	95
18	Dancing with the Stars: An Asterid NLR Family. <i>Trends in Plant Science</i> , 2017, 22, 1003-1005.	8.8	4

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19	Extraction of High Molecular Weight DNA from Fungal Rust Spores for Long Read Sequencing. <i>Methods in Molecular Biology</i> , 2017, 1659, 49-57.	0.9	36
20	Apoplastic Sugar Extraction and Quantification from Wheat Leaves Infected with Biotrophic Fungi. <i>Methods in Molecular Biology</i> , 2017, 1659, 125-134.	0.9	15
21	A chloroplast retrograde signal, 3 β -phosphoadenosine 5 α -phosphate, acts as a secondary messenger in abscisic acid signaling in stomatal closure and germination. <i>ELife</i> , 2017, 6, .	6.0	132
22	High levels of cyclic-di-GMP in plant-associated <i>Pseudomonas</i> correlate with evasion of plant immunity. <i>Molecular Plant Pathology</i> , 2016, 17, 521-531.	4.2	42
23	NbCSPR underlies age-dependent immune responses to bacterial cold shock protein in <i>Nicotiana benthamiana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3389-3394.	7.1	85
24	The N-Terminal Domain of the Tomato Immune Protein Prf Contains Multiple Homotypic and Pto Kinase Interaction Sites. <i>Journal of Biological Chemistry</i> , 2015, 290, 11258-11267.	3.4	34
25	Changing SERKs and priorities during plant life. <i>Trends in Plant Science</i> , 2015, 20, 531-533.	8.8	13
26	The Ins and Outs of Rust Haustoria. <i>PLoS Pathogens</i> , 2014, 10, e1004329.	4.7	90
27	The <i>Pseudomonas</i> type III effector HopQ1 activates cytokinin signaling and interferes with plant innate immunity. <i>New Phytologist</i> , 2014, 201, 585-598.	7.3	99
28	Identification of Post-translational Modifications of Plant Protein Complexes. <i>Journal of Visualized Experiments</i> , 2014, , e51095.	0.3	5
29	The Bacterial Effector HopX1 Targets JAZ Transcriptional Repressors to Activate Jasmonate Signaling and Promote Infection in Arabidopsis. <i>PLoS Biology</i> , 2014, 12, e1001792.	5.6	223
30	The Calcium-Dependent Protein Kinase CPK28 Buffers Plant Immunity and Regulates BIK1 Turnover. <i>Cell Host and Microbe</i> , 2014, 16, 605-615.	11.0	208
31	The changing of the guard: the Pto/Prf receptor complex of tomato and pathogen recognition. <i>Current Opinion in Plant Biology</i> , 2014, 20, 69-74.	7.1	68
32	Comparative genomics of Australian isolates of the wheat stem rust pathogen <i>Puccinia graminis</i> f. sp. <i>tritici</i> reveals extensive polymorphism in candidate effector genes. <i>Frontiers in Plant Science</i> , 2014, 5, 759.	3.6	98
33	Purification of Fungal Haustoria from Infected Plant Tissue by Flow Cytometry. <i>Methods in Molecular Biology</i> , 2014, 1127, 103-110.	0.9	2
34	<i>Pseudomonas fluorescens</i> NZ17 repels grazing by <i>C. elegans</i> , a natural predator. <i>ISME Journal</i> , 2013, 7, 1126-1138.	9.8	34
35	The Tomato Prf Complex Is a Molecular Trap for Bacterial Effectors Based on Pto Transphosphorylation. <i>PLoS Pathogens</i> , 2013, 9, e1003123.	4.7	49
36	Strategies for Wheat Stripe Rust Pathogenicity Identified by Transcriptome Sequencing. <i>PLoS ONE</i> , 2013, 8, e67150.	2.5	110

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37	ASPARTATE OXIDASE Plays an Important Role in Arabidopsis Stomatal Immunity <i>Plant Physiology</i> , 2012, 159, 1845-1856.	4.8	129
38	Brassinosteroids inhibit pathogen-associated molecular pattern-triggered immune signaling independent of the receptor kinase BAK1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 303-308.	7.1	303
39	The Receptor-Like Kinase SERK3/BAK1 Is Required for Basal Resistance against the Late Blight Pathogen <i>Phytophthora infestans</i> in <i>Nicotiana benthamiana</i> . <i>PLoS ONE</i> , 2011, 6, e16608.	2.5	170
40	Gibberellin biosynthesis and signalling during development of the strawberry receptacle. <i>New Phytologist</i> , 2011, 191, 376-390.	7.3	110
41	Hierarchy and Roles of Pathogen-Associated Molecular Pattern-Induced Responses in <i>Nicotiana benthamiana</i> . <i>Plant Physiology</i> , 2011, 156, 687-699.	4.8	185
42	The long and winding road: virulence effector proteins of plant pathogenic bacteria. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 3425-3434.	5.4	23
43	Bacterial virulence effectors and their activities. <i>Current Opinion in Plant Biology</i> , 2010, 13, 388-393.	7.1	79
44	The case for the defense: plants versus <i>Pseudomonas syringae</i> . <i>Microbes and Infection</i> , 2010, 12, 428-437.	1.9	35
45	Prf immune complexes of tomato are oligomeric and contain multiple Pto-like kinases that diversify effector recognition. <i>Plant Journal</i> , 2010, 61, 507-518.	5.7	116
46	Plant immunity: towards an integrated view of plant-pathogen interactions. <i>Nature Reviews Genetics</i> , 2010, 11, 539-548.	16.3	2,790
47	Pathogen effectors shed light on plant diseases. <i>Functional Plant Biology</i> , 2010, 37, iii.	2.1	1
48	Direct transcriptional control of the <i>Arabidopsis</i> immune receptor FLS2 by the ethylene-dependent transcription factors EIN3 and EIL1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14502-14507.	7.1	218
49	Deciphering the mode of action and host recognition of bacterial type III effectors. <i>Functional Plant Biology</i> , 2010, 37, 926.	2.1	3
50	Host Inhibition of a Bacterial Virulence Effector Triggers Immunity to Infection. <i>Science</i> , 2009, 324, 784-787.	12.6	120
51	The LysM receptor kinase CERK1 mediates bacterial perception in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2009, 4, 539-541.	2.4	92
52	Effector Proteins of the Bacterial Pathogen <i>Pseudomonas syringae</i> Alter the Extracellular Proteome of the Host Plant, <i>Arabidopsis thaliana</i> . <i>Molecular and Cellular Proteomics</i> , 2009, 8, 145-156.	3.8	107
53	A draft genome sequence and functional screen reveals the repertoire of type III secreted proteins of <i>Pseudomonas syringae</i> pathovar <i>tabaci</i> 11528. <i>BMC Genomics</i> , 2009, 10, 395.	2.8	81
54	AvrPtoB Targets the LysM Receptor Kinase CERK1 to Promote Bacterial Virulence on Plants. <i>Current Biology</i> , 2009, 19, 423-429.	3.9	419

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55	Phosphoproteomic analysis of nuclei-enriched fractions from <i>Arabidopsis thaliana</i> . <i>Journal of Proteomics</i> , 2009, 72, 439-451.	2.4	84
56	Regulation of Tomato Prf by Pto-like Protein Kinases. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 391-401.	2.6	45
57	Identification of novel proteins and phosphorylation sites in a tonoplast enriched membrane fraction of <i>Arabidopsis thaliana</i> . <i>Proteomics</i> , 2008, 8, 3536-3547.	2.2	103
58	Plant Immunity: AvrPto Targets the Frontline. <i>Current Biology</i> , 2008, 18, R218-R220.	3.9	48
59	The receptor-like kinase SERK3/BAK1 is a central regulator of innate immunity in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12217-12222.	7.1	998
60	Early events in the pathogenicity of <i>Pseudomonas syringae</i> on <i>Nicotiana benthamiana</i> . <i>Plant Journal</i> , 2007, 49, 607-618.	5.7	185
61	Genetic and molecular requirements for function of the Pto/Prf effector recognition complex in tomato and <i>Nicotiana benthamiana</i> . <i>Plant Journal</i> , 2007, 51, 978-990.	5.7	43
62	TomatoPto encodes a functional N-myristoylation motif that is required for signal transduction in <i>Nicotiana benthamiana</i> . <i>Plant Journal</i> , 2006, 45, 31-45.	5.7	55
63	The Tomato NBARC-LRR Protein Prf Interacts with Pto Kinase in Vivo to Regulate Specific Plant Immunity. <i>Plant Cell</i> , 2006, 18, 2792-2806.	6.6	239
64	The Pto Kinase of Tomato, Which Regulates Plant Immunity, Is Repressed by Its Myristoylated N Terminus. <i>Journal of Biological Chemistry</i> , 2006, 281, 26578-26586.	3.4	16
65	A Patch of Surface-Exposed Residues Mediates Negative Regulation of Immune Signaling by Tomato Pto Kinase [W]. <i>Plant Cell</i> , 2004, 16, 2809-2821.	6.6	77
66	High throughput virus-induced gene silencing implicates heat shock protein 90 in plant disease resistance. <i>EMBO Journal</i> , 2003, 22, 5690-5699.	7.8	493
67	Early signal transduction events in specific plant disease resistance. <i>Current Opinion in Plant Biology</i> , 2003, 6, 300-306.	7.1	52
68	avrPto Enhances Growth and Necrosis Caused by <i>Pseudomonas syringae</i> pv. tomato in Tomato Lines Lacking Either Pto or Prf. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 568-571.	2.6	81
69	Constitutively active Pto induces a Prf-dependent hypersensitive response in the absence of avrPto. <i>EMBO Journal</i> , 1999, 18, 3232-3240.	7.8	140
70	Title is missing!. <i>Molecular Breeding</i> , 1998, 4, 23-31.	2.1	41
71	Molecular Basis of Gene-for-Gene Specificity in Bacterial Speck Disease of Tomato. <i>Science</i> , 1996, 274, 2063-2065.	12.6	532
72	Efficient infection from cDNA clones of cucumber mosaic cucumovirus RNAs in a new plasmid vector. <i>Journal of General Virology</i> , 1995, 76, 459-464.	2.9	56

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73	Soybean Dwarf Luteovirus Contains the Third Variant Genome Type in the Luteovirus Group. <i>Virology</i> , 1994, 198, 671-679.	2.4	71