Pamela C Ronald

List of Publications by Year
in descending order

225 papers	23,026 citations	8755 75 h-index	9589 142 g-index
243 all docs	243 docs citations	243 times ranked	19147 citing authors

#	Article	IF	Citations
1	Top 10 plant pathogenic bacteria in molecular plant pathology. Molecular Plant Pathology, 2012, 13, 614-629.	4.2	1,678
2	Sub1A is an ethylene-response-factor-like gene that confers submergence tolerance to rice. Nature, 2006, 442, 705-708.	27.8	1,332
3	KBase: The United States Department of Energy Systems Biology Knowledgebase. Nature Biotechnology, 2018, 36, 566-569.	17.5	955
4	Reference genome sequence of the model plant Setaria. Nature Biotechnology, 2012, 30, 555-561.	17.5	864
5	Xanthomonas oryzae pathovars: model pathogens of a model crop. Molecular Plant Pathology, 2006, 7, 303-324.	4.2	741
6	A Variable Cluster of Ethylene Response Factorâ€"Like Genes Regulates Metabolic and Developmental Acclimation Responses to Submergence in Rice. Plant Cell, 2006, 18, 2021-2034.	6.6	601
7	Perception of Brassinosteroids by the Extracellular Domain of the Receptor Kinase BRI1. Science, 2000, 288, 2360-2363.	12.6	439
8	Overexpression of a Rice NPR1 Homolog Leads to Constitutive Activation of Defense Response and Hypersensitivity to Light. Molecular Plant-Microbe Interactions, 2005, 18, 511-520.	2.6	346
9	Genome sequence and rapid evolution of the rice pathogen Xanthomonas oryzae pv. oryzae PXO99A. BMC Genomics, 2008, 9, 204.	2.8	327
10	A novel system for gene silencing using siRNAs in rice leaf and stem-derived protoplasts. Plant Methods, 2006, 2, 13.	4.3	320
11	Evidence for a disease-resistance pathway in rice similar to the NPR1-mediated signaling pathway in Arabidopsis. Plant Journal, 2001, 27, 101-113.	5.7	311
12	Xa21D Encodes a Receptor-like Molecule with a Leucine-Rich Repeat Domain That Determines Race-Specific Recognition and Is Subject to Adaptive Evolution. Plant Cell, 1998, 10, 765-779.	6.6	304
13	Plant Innate Immunity: Perception of Conserved Microbial Signatures. Annual Review of Plant Biology, 2012, 63, 451-482.	18.7	304
14	A single transcription factor promotes both yield and immunity in rice. Science, 2018, 361, 1026-1028.	12.6	296
15	Submergence Tolerant Rice: SUB1â€™s Journey from Landrace to Modern Cultivar. Rice, 2010, 3, 138-147.	4.0	283
16	Genetic and physical analysis of the rice bacterial blight disease resistance locus, Xa21. Molecular Genetics and Genomics, 1992, 236, 113-120.	2.4	275
17	Rice XA21 Binding Protein 3 Is a Ubiquitin Ligase Required for Full Xa21-Mediated Disease Resistance. Plant Cell, 2007, 18, 3635-3646.	6.6	274
18	A GRFâ€"GIF chimeric protein improves the regeneration efficiency of transgenic plants. Nature Biotechnology, 2020, 38, 1274-1279.	17.5	272

#	Article	IF	Citations
19	OsWRKY62 is a Negative Regulator of Basal and Xa21-Mediated Defense against Xanthomonas oryzae pv. oryzae in Rice. Molecular Plant, 2008, 1, 446-458.	8.3	267
20	A Type Iâ€"Secreted, Sulfated Peptide Triggers XA21-Mediated Innate Immunity. Science, 2009, 326, 850-853.	12.6	240
21	Rice <i>Pi5</i>-Mediated Resistance to <i>Magnaporthe oryzae</i> Requires the Presence of Two Coiled-Coilâ€"Nucleotide-Bindingâ€"Leucine-Rich Repeat Genes. Genetics, 2009, 181, 1627-1638.	2.9	239
22	Plant and Animal Pathogen Recognition Receptors Signal through Non-RD Kinases. PLoS Pathogens, 2006, 2, e2.	4.7	230
23	Plant and Animal Sensors of Conserved Microbial Signatures. Science, 2010, 330, 1061-1064.	12.6	224
24	Construction of a rice bacterial artificial chromosome library and identification of clones linked to the Xa-21 disease resistance locus. Plant Journal, 1995, 7, 525-533.	5.7	209
25	The rice immune receptor XA21 recognizes a tyrosine-sulfated protein from a Gram-negative bacterium. Science Advances, 2015, 1, e1500245.	10.3	209
26	Marker-free carotenoid-enriched rice generated through targeted gene insertion using CRISPR-Cas9. Nature Communications, 2020, 11, 1178.	12.8	204
27	A fast neutron deletion mutagenesis-based reverse genetics system for plants. Plant Journal, 2001, 27, 235-242.	5.7	200
28	Overexpression of (At)NPR1 in Rice Leads to a BTH- and Environment-Induced Lesion-Mimic/Cell Death Phenotype. Molecular Plant-Microbe Interactions, 2004, 17, 140-151.	2.6	199
29	Towards Establishment of a Rice Stress Response Interactome. PLoS Genetics, 2011, 7, e1002020.	3.5	199
30	XAX1 from glycosyltransferase family 61 mediates xylosyltransfer to rice xylan. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17117-17122.	7.1	198
31	The Rice Oligonucleotide Array Database: an atlas of rice gene expression. Rice, 2012, 5, 17.	4.0	192
32	Two New Complete Genome Sequences Offer Insight into Host and Tissue Specificity of Plant Pathogenic Xanthomonas spp. Journal of Bacteriology, 2011, 193, 5450-5464.	2.2	189
33	Loss of <i>Cellulose Synthase</i>-<i>Like F6</i> Function Affects Mixed-Linkage Glucan Deposition, Cell Wall Mechanical Properties, and Defense Responses in Vegetative Tissues of Rice Â Â Â. Plant Physiology, 2012, 159, 56-69.	4.8	179
34	Genetic Engineering for Disease Resistance in Plants: Recent Progress and Future Perspectives. Plant Physiology, 2019, 180, 26-38.	4.8	177
35	Genetic dissection of the biotic stress response using a genome-scale gene network for rice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18548-18553.	7.1	170
36	The Submergence Tolerance Regulator <i>Sub1A</i> Mediates Stress-Responsive Expression of <i>AP2</i>/<i>ERF</i> Transcription Factors. Plant Physiology, 2010, 152, 1674-1692.	4.8	166

#	Article	IF	Citations
37	Innate immunity in rice. Trends in Plant Science, 2011, 16, 451-459.	8.8	165
38	Proteinâ€"protein interactions of tandem affinity purificationâ€tagged protein kinases in rice. Plant Journal, 2006, 46, 1-13.	5.7	164
39	Rice XB15, a Protein Phosphatase 2C, Negatively Regulates Cell Death and XA21-Mediated Innate Immunity. PLoS Biology, 2008, 6, e231.	5.6	164
40	Overexpression of a BAHD Acyltransferase, <i>OsAt10</i>, Alters Rice Cell Wall Hydroxycinnamic Acid Content and Saccharification Â Â Â. Plant Physiology, 2013, 161, 1615-1633.	4.8	164
41	Plant Genetics, Sustainable Agriculture and Global Food Security. Genetics, 2011, 188, 11-20.	2.9	157
42	Loss of function of a rice TPR-domain RNA-binding protein confers broad-spectrum disease resistance. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3174-3179.	7.1	157
43	Recent Advances in Dissecting Stress-Regulatory Crosstalk in Rice. Molecular Plant, 2013, 6, 250-260.	8.3	149
44	Genomic mechanisms of climate adaptation in polyploid bioenergy switchgrass. Nature, 2021, 590, 438-444.	27.8	144
45	Towards a better bowl of rice: assigning function to tens of thousands of rice genes. Nature Reviews Genetics, 2008, 9, 91-101.	16.3	143
46	The Sequences of 1504 Mutants in the Model Rice Variety Kitaake Facilitate Rapid Functional Genomic Studies. Plant Cell, 2017, 29, 1218-1231.	6.6	138
47	A Pan-plant Protein Complex Map Reveals Deep Conservation and Novel Assemblies. Cell, 2020, 181, 460-474.e14.	28.9	133
48	Rice NRR, a negative regulator of disease resistance, interacts with Arabidopsis NPR1 and rice NH1. Plant Journal, 2005, 43, 623-635.	5.7	131
49	Protein abundances are more conserved than mRNA abundances across diverse taxa. Proteomics, 2010, 10, 4209-4212.	2.2	131
50	An XA21-Associated Kinase (OsSERK2) Regulates Immunity Mediated by the XA21 and XA3 Immune Receptors. Molecular Plant, 2014, 7, 874-892.	8.3	129
51	The Rice Kinase Database. A Phylogenomic Database for the Rice Kinome. Plant Physiology, 2007, 143, 579-586.	4.8	127
52	Imprinted expression of genes and small RNA is associated with localized hypomethylation of the maternal genome in rice endosperm. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7934-7939.	7.1	125
53	Bacterial Genes Involved in Type I Secretion and Sulfation Are Required to Elicit the Rice Xa21-Mediated Innate Immune Response. Molecular Plant-Microbe Interactions, 2004, 17, 593-601.	2.6	124
54	Developmental control of Xa21-mediated disease resistance in rice. Plant Journal, 1999, 20, 231-236.	5.7	120

#	Article	IF	Citations
55	Overexpression of the Endoplasmic Reticulum Chaperone BiP3 Regulates XA21-Mediated Innate Immunity in Rice. PLoS ONE, 2010, 5, e9262.	2.5	117
56	A Rice Kinase-Protein Interaction Map Â Â. Plant Physiology, 2009, 149, 1478-1492.	4.8	116
57	Transgenic expression of the rice <i>Xa21</i> patternâ€recognition receptor in banana (<i><scp>M</scp>usa</i> sp.) confers resistance to <i><scp>X</scp>anthomonas campestris</i> pv. <i>musacearum</i>. Plant Biotechnology Journal, 2014, 12, 663-673.	8.3	112
58	Non-arginine-aspartate (non-RD) kinases are associated with innate immune receptors that recognize conserved microbial signatures. Current Opinion in Plant Biology, 2012, 15, 358-366.	7.1	111
59	Unique characteristics of Xanthomonas oryzae pv. oryzae AvrXa21 and implications for plant innate immunity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18395-18400.	7.1	110
60	Construction of a Rice Glycosyltransferase Phylogenomic Database and Identification of Rice-Diverged Glycosyltransferases. Molecular Plant, 2008, 1, 858-877.	8.3	110
61	A viral resistance gene from common bean functions across plant families and is up-regulated in a non-virus-specific manner. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11856-11861.	7.1	107
62	An ATPase promotes autophosphorylation of the pattern recognition receptor XA21 and inhibits XA21-mediated immunity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8029-8034.	7.1	104
63	Cleavage and nuclear localization of the rice XA21 immune receptor. Nature Communications, 2012, 3, 920.	12.8	104
64	Refinement of Light-Responsive Transcript Lists Using Rice Oligonucleotide Arrays: Evaluation of Gene-Redundancy. PLoS ONE, 2008, 3, e3337.	2.5	104
65	Molecular basis for evasion of plant host defence in bacterial spot disease of pepper. Nature, 1988, 332, 541-543.	27.8	103
66	Transgenic Expression of the Dicotyledonous Pattern Recognition Receptor EFR in Rice Leads to Ligand-Dependent Activation of Defense Responses. PLoS Pathogens, 2015, 11, e1004809.	4.7	103
67	Target of rapamycin signaling orchestrates growthâ€"defense tradeâ€offs in plants. New Phytologist, 2018, 217, 305-319.	7.3	97
68	The<i>Xanthomonas oryzae</i>pv. oryzae PhoPQ Two-Component System Is Required for AvrXA21 Activity,<i>hrpG</i>Expression, and Virulence. Journal of Bacteriology, 2008, 190, 2183-2197.	2.2	96
69	RiceNet v2: an improved network prioritization server for rice genes. Nucleic Acids Research, 2015, 43, W122-W127.	14.5	95
70	The Switchgrass Genome: Tools and Strategies. Plant Genome, 2011, 4, 273-282.	2.8	91
71	The Phylogenetically-Related Pattern Recognition Receptors EFR and XA21 Recruit Similar Immune Signaling Components in Monocots and Dicots. PLoS Pathogens, 2015, 11, e1004602.	4.7	87
72	Expression of a Gibberellin-Induced Leucine-Rich Repeat Receptor-Like Protein Kinase in Deepwater Rice and Its Interaction with Kinase-Associated Protein Phosphatase1. Plant Physiology, 1999, 120, 559-570.	4.8	86

#	Article	IF	Citations
73	<i><scp>SUB</scp>1<scp>A</scp></i>â€mediated submergence tolerance response in rice involves differential regulation of the brassinosteroid pathway. New Phytologist, 2013, 198, 1060-1070.	7.3	84
74	Three Novel Rice Genes Closely Related to the ArabidopsisIRX9, IRX9L, and IRX14 Genes and Their Roles in Xylan Biosynthesis. Frontiers in Plant Science, 2013, 4, 83.	3.6	83
75	Global Identification and Characterization of Transcriptionally Active Regions in the Rice Genome. PLoS ONE, 2007, 2, e294.	2.5	82
76	Particle-bombardment-mediated co-transformation of elite Chinese rice cultivars with genes conferring resistance to bacterial blight and sap-sucking insect pests. Planta, 1999, 208, 552-563.	3.2	80
77	The Xanthomonas oryzae pv.â—Šoryzae raxP and raxQ genes encode an ATP sulphurylase and adenosine-5â€²-phosphosulphate kinase that are required for AvrXa21 avirulence activity. Molecular Microbiology, 2002, 44, 37-48.	2.5	79
78	Genome-Wide Sequencing of 41 Rice (Oryza sativa L.) Mutated Lines Reveals Diverse Mutations Induced by Fast-Neutron Irradiation. Molecular Plant, 2016, 9, 1078-1081.	8.3	78
79	Overexpression of Rice Wall-Associated Kinase 25 (OsWAK25) Alters Resistance to Bacterial and Fungal Pathogens. PLoS ONE, 2016, 11, e0147310.	2.5	77
80	Molecular determinants of disease and resistance in interactions of Xanthomonas oryzae pv. oryzae and rice. Microbes and Infection, 2002, 4, 1361-1367.	1.9	76
81	Alteration of TGA factor activity in rice results in enhanced tolerance to Xanthomonas oryzae pv. oryzae. Plant Journal, 2005, 43, 335-347.	5.7	76
82	OsWRKY IIa Transcription Factors Modulate Rice Innate Immunity. Rice, 2010, 3, 36-42.	4.0	76
83	Genetic and biotechnological approaches for biofuel crop improvement. Current Opinion in Biotechnology, 2010, 21, 218-224.	6.6	74
84	Suppression of rice miR168 improves yield, flowering time and immunity. Nature Plants, 2021, 7, 129-136.	9.3	74
85	Resistance gene evolution. Current Opinion in Plant Biology, 1998, 1, 294-298.	7.1	73
86	RaxH/RaxR: A Two-Component Regulatory System in Xanthomonas oryzae pv. oryzae Required for AvrXa21 Activity. Molecular Plant-Microbe Interactions, 2004, 17, 602-612.	2.6	71
87	Crop biotechnology and the future of food. Nature Food, 2020, 1, 273-283.	14.0	71
88	Development of an integrated transcript sequence database and a gene expression atlas for gene discovery and analysis in switchgrass (<i>Panicum virgatum</i> L.). Plant Journal, 2013, 74, 160-173.	5.7	70
89	Bacterial Outer Membrane Vesicles Induce Plant Immune Responses. Molecular Plant-Microbe Interactions, 2016, 29, 374-384.	2.6	70
90	A microbially derived tyrosineâ€sulfated peptide mimics a plant peptide hormone. New Phytologist, 2017, 215, 725-736.	7.3	70

#	Article	IF	Citations
91	Identification and Functional Analysis of Light-Responsive Unique Genes and Gene Family Members in Rice. PLoS Genetics, 2008, 4, e1000164.	3.5	69
92	PCR template-DNA isolated quickly from monocot and dicot leaves without tissue homogenization. Nucleic Acids Research, 1994, 22, 1917-1918.	14.5	68
93	Protein phosphorylation in plant immunity: insights into the regulation of pattern recognition receptor-mediated signaling. Frontiers in Plant Science, 2012, 3, 177.	3.6	68
94	Engineering pathogen resistance in crop plants. Transgenic Research, 2002, 11, 599-613.	2.4	67
95	The plant glycosyltransferase clone collection for functional genomics. Plant Journal, 2014, 79, 517-529.	5.7	67
96	A Conserved Threonine Residue in the Juxtamembrane Domain of the XA21 Pattern Recognition Receptor Is Critical for Kinase Autophosphorylation and XA21-mediated Immunity. Journal of Biological Chemistry, 2010, 285, 10454-10463.	3.4	66
97	Biochemical Characterization of the Kinase Domain of the Rice Disease Resistance Receptor-like Kinase XA21. Journal of Biological Chemistry, 2002, 277, 20264-20269.	3.4	65
98	Biosynthesis and emission of insect-induced methyl salicylate and methyl benzoate from rice. Plant Physiology and Biochemistry, 2010, 48, 279-287.	5.8	65
99	Biosynthesis and secretion of the microbial sulfated peptide RaxX and binding to the rice XA21 immune receptor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8525-8534.	7.1	64
100	Induction of H2O2 in transgenic rice leads to cell death and enhanced resistance to both bacterial and fungal pathogens. Transgenic Research, 2003, 12, 577-586.	2.4	63
101	Tyrosine sulfation in a Gram-negative bacterium. Nature Communications, 2012, 3, 1153.	12.8	63
102	The Arabidopsis flagellin receptor FLS2 mediates the perception of Xanthomonas Ax21 secreted peptides. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9286-9291.	7.1	62
103	Elucidation of XA21-mediated innate immunity. Cellular Microbiology, 2010, 12, 1017-1025.	2.1	61
104	The Rice Kinase Phylogenomics Database: a guide for systematic analysis of the rice kinase super-family. Trends in Plant Science, 2010, 15, 595-599.	8.8	60
105	Comparative analysis of protein-protein interactions in the defense response of rice and wheat. BMC Genomics, 2013, 14, 166.	2.8	60
106	Lab to Farm: Applying Research on Plant Genetics and Genomics to Crop Improvement. PLoS Biology, 2014, 12, e1001878.	5.6	60
107	The molecular basis of disease resistance in rice. Plant Molecular Biology, 1997, 35, 179-186.	3.9	59
108	Genome sequence of the model rice variety KitaakeX. BMC Genomics, 2019, 20, 905.	2.8	59

#	Article	IF	Citations
109	Transgenic elite Indica rice varieties, resistant to Xanthomonas oryzae pv. oryzae. Molecular Breeding, 1998, 4, 551-558.	2.1	58
110	Evolution of the Rice Xa21 Disease Resistance Gene Family. Plant Cell, 1997, 9, 1279.	6.6	56
111	Targeted DNA insertion in plants. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	56
112	Isolation of a Xanthomonas oryzae pv. oryzae Flagellar Operon Region and Molecular Characterization of flhF. Molecular Plant-Microbe Interactions, 2001, 14, 204-213.	2.6	54
113	A Genome-Wide Survey of Switchgrass Genome Structure and Organization. PLoS ONE, 2012, 7, e33892.	2.5	50
114	Inactivation of OsIRX10 Leads to Decreased Xylan Content in Rice Culm Cell Walls and Improved Biomass Saccharification. Molecular Plant, 2013, 6, 570-573.	8.3	50
115	The<i>Xanthomonas</i>Ax21 protein is processed by the general secretory system and is secreted in association with outer membrane vesicles. PeerJ, 2014, 2, e242.	2.0	48
116	Abundance of mixed linkage glucan in mature tissues and secondary cell walls of grasses. Plant Signaling and Behavior, 2013, 8, e23143.	2.4	47
117	Interaction specificity and coexpression of rice NPR1 homologs 1 and 3 (NH1 and NH3), TGA transcription factors and Negative Regulator of Resistance (NRR) proteins. BMC Genomics, 2014, 15, 461.	2.8	47
118	Overexpression of Thiamin Biosynthesis Genes in Rice Increases Leaf and Unpolished Grain Thiamin Content But Not Resistance to Xanthomonas oryzae pv. oryzae. Frontiers in Plant Science, 2016, 7, 616.	3.6	47
119	Enhanced disease resistance and hypersensitivity to BTH by introduction of an NH1/OsNPR1 paralog. Plant Biotechnology Journal, 2011, 9, 205-215.	8.3	46
120	Mechanism and function of root circumnutation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	45
121	Genome-wide identification and analysis of early heat stress responsive genes in rice. Journal of Plant Biology, 2012, 55, 458-468.	2.1	44
122	Rice Snl6, a Cinnamoyl-CoA Reductase-Like Gene Family Member, Is Required for NH1-Mediated Immunity to Xanthomonas oryzae pv. oryzae. PLoS Genetics, 2010, 6, e1001123.	3.5	44
123	The HSP90-SGT1-RAR1 molecular chaperone complex: A core modulator in plant immunity. Journal of Plant Biology, 2008, 51, 1-10.	2.1	43
124	A call for science-based review of the European court's decision on gene-edited crops. Nature Biotechnology, 2018, 36, 800-802.	17.5	43
125	A Genetic Screen Identifies a Requirement for Cysteine-Richâ€"Receptor-Like Kinases in Rice NH1 (OsNPR1)-Mediated Immunity. PLoS Genetics, 2016, 12, e1006049.	3.5	42
126	Four receptorâ€like cytoplasmic kinases regulate development and immunity in rice. Plant, Cell and Environment, 2016, 39, 1381-1392.	5.7	42

#	Article	IF	Citations
127	A two-genome microarray for the rice pathogens Xanthomonas oryzae pv. oryzae and X. oryzae pv. oryzicola and its use in the discovery of a difference in their regulation of hrp genes. BMC Microbiology, 2008, 8, 99.	3.3	40
128	OsSERK1 regulates rice development but not immunity to <i>Xanthomonas oryzae</i> pv<i>. oryzae</i> or <i>Magnaporthe oryzae</i>. Journal of Integrative Plant Biology, 2014, 56, 1179-1192.	8.5	40
129	MAIZE MITOCHONDRIAL PLASMID S-1 SEQUENCES SHARE HOMOLOGY WITH CHLOROPLAST GENE <i>psbA</i>. Genetics, 1986, 113, 469-482.	2.9	40
130	The rice Rim2 transcript accumulates in response to Magnaporthe grisea and its predicted protein product shares similarity with TNP2-like proteins encoded by CACTA transposons. Molecular Genetics and Genomics, 2000, 264, 2-10.	2.4	39
131	Overexpression of a rice BAHD acyltransferase gene in switchgrass (Panicum virgatum L.) enhances saccharification. BMC Biotechnology, 2018, 18, 54.	3.3	38
132	Protein-Protein Interactions of Tandem Affinity Purified Protein Kinases from Rice. PLoS ONE, 2009, 4, e6685.	2.5	37
133	Engineering temporal accumulation of a low recalcitrance polysaccharide leads to increased C6 sugar content in plant cell walls. Plant Biotechnology Journal, 2015, 13, 903-914.	8.3	37
134	Pathogenesis-related gene expression in rice is correlated with developmentally controlled Xa21-mediated resistance against Xanthomonas oryzae pv. oryzae. Physiological and Molecular Plant Pathology, 2006, 69, 131-139.	2.5	36
135	Transgenically enhanced sorbitol synthesis facilitates phloem-boron mobility in rice. Physiologia Plantarum, 2003, 117, 79-84.	5.2	35
136	A rice transient assay system identifies a novel domain in NRR required for interaction with NH1/OsNPR1 and inhibition of NH1-mediated transcriptional activation. Plant Methods, 2012, 8, 6.	4.3	35
137	Construction of a rice glycoside hydrolase phylogenomic database and identification of targets for biofuel research. Frontiers in Plant Science, 2013, 4, 330.	3.6	35
138	Ectopic expression of rice Xa21 overcomes developmentally controlled resistance to Xanthomonas oryzae pv. oryzae. Plant Science, 2010, 179, 466-471.	3.6	34
139	Small Protein-Mediated Quorum Sensing in a Gram-Negative Bacterium. PLoS ONE, 2011, 6, e29192.	2.5	33
140	The durably resistant rice cultivar <scp>D</scp>igu activates defence gene expression before the full maturation of <scp><i>M</i></scp><i>agnaporthe oryzae</i> appressorium. Molecular Plant Pathology, 2016, 17, 354-368.	4.2	32
141	<i>Sub1</i> Rice: Engineering Rice for Climate Change. Cold Spring Harbor Perspectives in Biology, 2019, 11, a034637.	5.5	32
142	A catalytically impaired mutant of the rice Xa21 receptor kinase confers partial resistance to Xanthomonas oryzae pv oryzae. Physiological and Molecular Plant Pathology, 2003, 62, 203-208.	2.5	31
143	Molecular mimicry modulates plant host responses to pathogens. Annals of Botany, 2018, 121, 17-23.	2.9	31
144	WheatNet: a Genome-Scale Functional Network for Hexaploid Bread Wheat, Triticum aestivum. Molecular Plant, 2017, 10, 1133-1136.	8.3	29

#	Article	IF	Citations
145	Secretion, modification, and regulation of Ax21. Current Opinion in Microbiology, 2011, 14, 62-67.	5.1	28
146	Characterization of four rice mutants with alterations in the defence response pathway. Molecular Plant Pathology, 2005, 6, 11-21.	4.2	27
147	The endoplasmic reticulum-quality control component SDF2 is essential for XA21-mediated immunity in rice. Plant Science, 2013, 210, 53-60.	3.6	26
148	Reduced expression of glycolate oxidase leads to enhanced disease resistance inÂrice. PeerJ, 2013, 1, e28.	2.0	26
149	Identification of a host 14-3-3 protein that interacts with Xanthomonas effector AvrRxv. Physiological and Molecular Plant Pathology, 2008, 72, 46-55.	2.5	25
150	THE RICE GENOME: The Most Precious Things Are Not Jade and Pearls.... Science, 2002, 296, 58-59.	12.6	24
151	Strong Suppression of Systemic Acquired Resistance in Arabidopsis by NRR is Dependent on its Ability to Interact with NPR1and its Putative Repression Domain. Molecular Plant, 2008, 1, 552-559.	8.3	24
152	Structural characterization of a mixed-linkage glucan deficient mutant reveals alteration in cellulose microfibril orientation in rice coleoptile mesophyll cell walls. Frontiers in Plant Science, 2015, 6, 628.	3.6	24
153	Combining multivariate analysis and monosaccharide composition modeling to identify plant cell wall variations by Fourier Transform Near Infrared spectroscopy. Plant Methods, 2011, 7, 26.	4.3	23
154	A second-generation expression system for tyrosine-sulfated proteins and its application in crop protection. Integrative Biology (United Kingdom), 2016, 8, 542-545.	1.3	23
155	The rice XA21 ectodomain fused to the Arabidopsis EFR cytoplasmic domain confers resistance to <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>. PeerJ, 2018, 6, e4456.	2.0	23
156	Isolation and characterization of disease resistance gene homologues from rice cultivar IR64. Gene, 2000, 255, 245-255.	2.2	22
157	Making Rice Disease-Resistant. Scientific American, 1997, 277, 100-105.	1.0	21
158	Nonâ€invasive imaging of cellulose microfibril orientation within plant cell walls by polarized Raman microspectroscopy. Biotechnology and Bioengineering, 2016, 113, 82-90.	3.3	21
159	Semantic Network Analysis Reveals Opposing Online Representations of the Search Term â€œGMOâ€. Global Challenges, 2018, 2, 1700082.	3.6	21
160	Cell Wall Composition and Candidate Biosynthesis Gene Expression During Rice Development. Plant and Cell Physiology, 2016, 57, 2058-2075.	3.1	20
161	Updated Rice Kinase Database RKD 2.0: enabling transcriptome and functional analysis of rice kinase genes. Rice, 2016, 9, 40.	4.0	20
162	Managing Fall Armyworm in Africa: Can Bt Maize Sustainably Improve Control?. Journal of Economic Entomology, 2021, 114, 1934-1949.	1.8	19

#	Article	IF	Citations
163	Darwinian genomics and diversity in the tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	19
164	Construction of an arabidopsis BAC library and isolation of clones hybridizing with disease-resistance, gene-like sequences. Plant Molecular Biology Reporter, 1996, 14, 107-114.	1.8	18
165	Construction and Application of Efficient <i>Acâ€Ds</i> Transposon Tagging Vectors in Rice. Journal of Integrative Plant Biology, 2009, 51, 982-992.	8.5	18
166	A comparative approach expands the proteinâ€“protein interaction node of the immune receptor XA21 in wheat and rice. Genome, 2013, 56, 315-326.	2.0	18
167	PHENYLALANINE AMMONIA LYASE AND PEROXIDASE ACTIVITY IN MYCORRHIZAL AND NONMYCORRHIZAL SHORT ROOTS OF SCOTS PINE, PINUS SYLVESTRIS L.. New Phytologist, 1985, 101, 487-494.	7.3	17
168	Transcriptional dynamics during cell wall removal and regeneration reveals key genes involved in cell wall development in rice. Plant Molecular Biology, 2011, 77, 391-406.	3.9	17
169	Overexpression of Rice Auxilin-Like Protein, XB21, Induces Necrotic Lesions, up-Regulates Endocytosis-Related Genes, and Confers Enhanced Resistance to Xanthomonas oryzae pv. oryzae. Rice, 2017, 10, 27.	4.0	17
170	Variation and inheritance of the <i>Xanthomonas</i><i>raxXâ€raxSTAB</i> gene cluster required for activation of XA21â€mediated immunity. Molecular Plant Pathology, 2019, 20, 656-672.	4.2	17
171	Structure of the OsSERK2 leucine-rich repeat extracellular domain. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 3080-3086.	2.5	16
172	A massively parallel barcoded sequencing pipeline enables generation of the first ORFeome and interactome map for rice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11836-11842.	7.1	16
173	Expression of a bacterial 3-dehydroshikimate dehydratase (QsuB) reduces lignin and improves biomass saccharification efficiency in switchgrass (Panicum virgatum L.). BMC Plant Biology, 2021, 21, 56.	3.6	14
174	Rice domestication. Current Biology, 2022, 32, R20-R24.	3.9	14
175	Cell Wall Composition and Bioenergy Potential of Rice Straw Tissues Are Influenced by Environment, Tissue Type, and Genotype. Bioenergy Research, 2015, 8, 1165-1182.	3.9	13
176	Plant immunity: Rice XA21-mediated resistance to bacterial infection. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	13
177	Quantitative Measurements of Xanthomonas Oryzae pv. Oryzae Distribution in Rice Using Fluorescent-Labeling. Journal of Plant Biology, 2011, 54, 269-274.	2.1	12
178	Phylogenomics databases for facilitating functional genomics in rice. Rice, 2015, 8, 60.	4.0	12
179	Suppression of bacterial infection in rice by treatment with a sulfated peptide. Molecular Plant Pathology, 2016, 17, 1493-1498.	4.2	12
180	Small protein-mediated quorum sensing in a gram-negative bacterium: novel targets for control of infectious disease. Discovery Medicine, 2011, 12, 461-70.	0.5	12

#	Article	IF	Citations
181	Differential Requirement of Oryza sativa RAR1 in Immune Receptor-Mediated Resistance of Rice to Magnaporthe oryzae. Molecules and Cells, 2013, 35, 327-334.	2.6	11
182	Silencing of the Rice Gene LRR1 Compromises Rice Xa21 Transcript Accumulation and XA21-Mediated Immunity. Rice, 2017, 10, 23.	4.0	11
183	Rice Protein Tagging Project: A Call for International Collaborations on Genome-wide In-Locus Tagging of Rice Proteins. Molecular Plant, 2020, 13, 1663-1665.	8.3	11
184	Divergence among rice cultivars reveals roles for transposition and epimutation in ongoing evolution of genomic imprinting. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11
185	Assessing probe-specific dye and slide biases in two-color microarray data. BMC Bioinformatics, 2008, 9, 314.	2.6	10
186	Rice BiP3 regulates immunity mediated by the PRRs XA3 and XA21 but not immunity mediated by the NB-LRR protein, Pi5. Biochemical and Biophysical Research Communications, 2014, 448, 70-75.	2.1	10
187	Targeted Switchgrass BAC Library Screening and Sequence Analysis Identifies Predicted Biomass and Stress Response-Related Genes. Bioenergy Research, 2016, 9, 109-122.	3.9	10
188	Direct calibration of PICKY-designed microarrays. BMC Bioinformatics, 2009, 10, 347.	2.6	9
189	Front-runners in plantâ€“microbe interactions. Current Opinion in Plant Biology, 2012, 15, 345-348.	7.1	9
190	XA21-specific induction of stress-related genes following<i>Xanthomonas</i>infection of detached rice leaves. PeerJ, 2016, 4, e2446.	2.0	9
191	Establishment of Glucocorticoid-Mediated Transcriptional Induction of the Rice XA21 Pattern Recognition Receptor. Journal of Plant Biology, 2012, 55, 43-49.	2.1	8
192	The future of sustainable food production. Annals of the New York Academy of Sciences, 2010, 1190, 184-185.	3.8	7
193	Evolutionary Analysis of Snf1-Related Protein Kinase2 (SnRK2) and Calcium Sensor (SCS) Gene Lineages, and Dimerization of Rice Homologs, Suggest Deep Biochemical Conservation across Angiosperms. Frontiers in Plant Science, 2017, 8, 395.	3.6	7
194	A web-based tool for the prediction of rice transcription factor function. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	3.0	7
195	A Genome-Scale Co-Functional Network of Genes Can Accurately Reconstruct Regulatory Circuits Controlled by Two-Component Signaling Systems. Molecules and Cells, 2019, 42, 166-174.	2.6	7
196	Sulfotyrosine residues: Interaction specificity determinants for extracellular proteinâ€“protein interactions. Journal of Biological Chemistry, 2022, 298, 102232.	3.4	7
197	Antagonistic Interactions Between Strains of Xanthomonas oryzae pv. oryzae. Phytopathology, 2003, 93, 705-711.	2.2	6
198	Marker-Exchange Mutagenesis and Complementation Strategies for the Gram-Negative Bacteria <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>. , 2007, 354, 11-18.		6

#	Article	IF	Citations
199	A Survey of Databases for Analysis of Plant Cell Wall-Related Enzymes. Bioenergy Research, 2010, 3, 108-114.	3.9	6
200	Mechanical Stress Analysis as a Method to Understand the Impact of Genetically Engineered Rice and Arabidopsis Plants. Industrial Biotechnology, 2012, 8, 238-244.	0.8	6
201	Proteome profile of the endomembrane of developing coleoptiles from switchgrass (<i>Panicum) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.2	6
202	Hybrid thematic analysis reveals themes for assessing student understanding of biotechnology. Journal of Biological Education, 2018, 52, 271-282.	1.5	6
203	Plant and microbial research seeks biofuel production from lignocellulose. California Agriculture, 2009, 63, 178-184.	0.8	6
204	Predicting Success of Indica/Japonica Crosses in Rice, Based on a PCR Marker for the Sâ€5n Allele at a Hybridâ€Sterility Locus. Crop Science, 1997, 37, 1910-1912.	1.8	5
205	FLS2-Mediated Responses to Ax21-Derived Peptides: Response to the Mueller et al. Commentary. Plant Cell, 2012, 24, 3174-3176.	6.6	5
206	Whole-Genome Sequencing Identifies a Rice Grain Shape Mutant, gs9â€“1. Rice, 2019, 12, 52.	4.0	5
207	The Rice Xa3 Gene Confers Resistance to Xanthomonas oryzae pv. oryzae in the Model Rice Kitaake Genetic Background. Frontiers in Plant Science, 2020, 11, 49.	3.6	5
208	The Role of RaxST, a Prokaryotic Sulfotransferase, and RaxABC, a Putative Type I Secretion System, in Activation of the Rice XA21-Mediated Immune Response. Scientifica, 2014, 2014, 1-3.	1.7	4
209	Plant genome engineering from lab to fieldâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 35-54.	3.8	4
210	Mutation of the rice XA21 predicted nuclear localization sequence does not affect resistance toXanthomonas oryzaepv.oryzae. PeerJ, 2016, 4, e2507.	2.0	4
211	Four tyrosine residues of the rice immune receptor XA21 are not required for interaction with the co-receptor OsSERK2 or resistance to <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>. PeerJ, 2018, 6, e6074.	2.0	4
212	The HrpX Protein Activates Synthesis of the RaxX Sulfopeptide, Required for Activation of XA21-Mediated Immunity to <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>. Molecular Plant-Microbe Interactions, 2021, 34, 1307-1315.	2.6	4
213	Purification of soluble and active RaxH, a transmembrane histidine protein kinase from Xanthomonas oryzae pv. oryzae required for AvrXa21 activity. Molecular Plant Pathology, 2007, 8, 93-101.	4.2	3
214	The Xanthomonas RaxH-RaxR Two-Component Regulatory System Is Orthologous to the Zinc-Responsive Pseudomonas ColS-ColR System. Microorganisms, 2021, 9, 1458.	3.6	3
215	Focus: Plant Interactions with Bacterial Pathogens. Plant Physiology, 2009, 150, 1621-1622.	4.8	2
216	Fertility versus disease resistance, a hard choice. Genes and Development, 2006, 20, 1215-1217.	5.9	1

#	Article	IF	Citations
217	Ligand induced cleavage and nuclear localization of the rice XA21 immune receptor. Nature Precedings, 2012, , .	0.1	1
218	Transcriptome Profiling Analysis Using Rice Oligonucleotide Microarrays. Methods in Molecular Biology, 2013, 956, 95-107.	0.9	1
219	Plant Genetics, Ecologically Based Farming and the Future of Food. Geographical Review, 2017, 107, 559-566.	1.8	1
220	Fast-track for engineered plants. Nature Biotechnology, 2020, 38, 32-34.	17.5	1
221	Paladin, a tyrosine phosphatase-like protein, is required for XA21-mediated immunity in rice. Plant Communications, 2021, 2, 100215.	7.7	1
222	Engineering Pathogen Resistance in Crop Plants. , 0, , .		1
223	Special report: AI Institute for next generation food systems (AIFS). Computers and Electronics in Agriculture, 2022, 196, 106819.	7.7	1
224	Xanthomonas oryzae pv. oryzae AvrXA21 Activity Is Dependent on a Type One Secretion System, Is Regulated by a Two-Component Regulatory System that Responds to Cell Population Density, and Is Conserved in Other Xanthomonas spp.. , 2008, , 25-40.		0
225	Silencing of Dicerâ€like protein 2a restores the resistance phenotype in the rice mutant, sxi4 () Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.7	0