Karl-Heinz Kogel

List of Publications by Year
in descending order

170 papers	15,274 citations	17440 63 h-index	19190 118 g-index
179 all docs	179 docs citations	179 times ranked	10937 citing authors

#	Article	IF	Citations
1	The endophytic fungus Piriformospora indica reprograms barley to salt-stress tolerance, disease resistance, and higher yield. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13386-13391.	7.1	1,153
2	Benzothiadiazole, a novel class of inducers of systemic acquired resistance, activates gene expression and disease resistance in wheat.. Plant Cell, 1996, 8, 629-643.	6.6	972
3	Infection patterns in barley and wheat spikes inoculated with wild-type and trichodiene synthase gene disrupted Fusarium graminearum. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16892-16897.	7.1	565
4	Salt tolerance of barley induced by the root endophyte<i>Piriformospora indica</i>is associated with a strong increase in antioxidants. New Phytologist, 2008, 180, 501-510.	7.3	489
5	An RNAi-Based Control of Fusarium graminearum Infections Through Spraying of Long dsRNAs Involves a Plant Passage and Is Controlled by the Fungal Silencing Machinery. PLoS Pathogens, 2016, 12, e1005901.	4.7	409
6	The root endophytic fungus Piriformospora indica requires host cell death for proliferation during mutualistic symbiosis with barley. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18450-18457.	7.1	372
7	Endophytic Life Strategies Decoded by Genome and Transcriptome Analyses of the Mutualistic Root Symbiont Piriformospora indica. PLoS Pathogens, 2011, 7, e1002290.	4.7	361
8	Host-induced gene silencing of cytochrome P450 lanosterol C14Î±-demethylaseâ€“encoding genes confers strong resistance to <i>Fusarium</i> species. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19324-19329.	7.1	361
9	Hypersensitive Cell Death and Papilla Formation in Barley Attacked by the Powdery Mildew Fungus Are Associated with Hydrogen Peroxide but Not with Salicylic Acid Accumulation1. Plant Physiology, 1999, 119, 1251-1260.	4.8	353
10	Endophyte or parasite â€“ what decides?. Current Opinion in Plant Biology, 2006, 9, 358-363.	7.1	317
11	Bipolaris sorokiniana , a cereal pathogen of global concern: cytological and molecular approaches towards better controlâ€¡. Molecular Plant Pathology, 2002, 3, 185-195.	4.2	310
12	Broad-Spectrum Suppression of Innate Immunity Is Required for Colonization of Arabidopsis Roots by the Fungus<i>Piriformospora indica</i>Â Â Â. Plant Physiology, 2011, 156, 726-740.	4.8	296
13	Multivesicular bodies participate in a cell wall-associated defence response in barley leaves attacked by the pathogenic powdery mildew fungus. Cellular Microbiology, 2006, 8, 1009-1019.	2.1	274
14	Systemic Resistance in Arabidopsis Conferred by the Mycorrhizal Fungus Piriformospora indica Requires Jasmonic Acid Signaling and the Cytoplasmic Function of NPR1. Plant and Cell Physiology, 2008, 49, 1747-1751.	3.1	265
15	Reactive oxygen intermediates in plant-microbe interactions: Who is who in powdery mildew resistance?. Planta, 2003, 216, 891-902.	3.2	213
16	New wind in the sails: improving the agronomic value of crop plants through <scp>RNA</scp>iâ€mediated gene silencing. Plant Biotechnology Journal, 2014, 12, 821-831.	8.3	205
17	Conserved nematode signalling molecules elicit plant defenses and pathogen resistance. Nature Communications, 2015, 6, 7795.	12.8	196
18	A Compromised Mlo Pathway Affects the Response of Barley to the Necrotrophic Fungus Bipolaris sorokiniana (Teleomorph: Cochliobolus sativus) and Its Toxins. Phytopathology, 2001, 91, 127-133.	2.2	184

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19	Manipulation of plant innate immunity and gibberellin as factor of compatibility in the mutualistic association of barley roots with <i>Piriformospora indica</i>. Plant Journal, 2009, 59, 461-474.	5.7	183
20	The Ambivalence of the Barley Mlo Locus: Mutations Conferring Resistance Against Powdery Mildew (Blumeria graminis f. sp. hordei) Enhance Susceptibility to the Rice Blast Fungus Magnaporthe grisea. Molecular Plant-Microbe Interactions, 1999, 12, 508-514.	2.6	179
21	Cross-kingdom RNA trafficking and environmental RNAi â€" nature's blueprint for modern crop protection strategies. Current Opinion in Microbiology, 2018, 46, 58-64.	5.1	176
22	The receptor-like MLO protein and the RAC/ROP family G-protein RACB modulate actin reorganization in barley attacked by the biotrophic powdery mildew fungus Blumeria graminis f.sp. hordei. Plant Journal, 2004, 41, 291-303.	5.7	172
23	Multivesicular compartments proliferate in susceptible and resistant MLA12 â€barley leaves in response to infection by the biotrophic powdery mildew fungus. New Phytologist, 2006, 172, 563-576.	7.3	172
24	Overexpression of barley BAX inhibitor 1 induces breakdown of mlo-mediated penetration resistance to Blumeria graminis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5555-5560.	7.1	171
25	<i>Piriformospora indica</i>â€"a mutualistic basidiomycete with an exceptionally large plant host range. Molecular Plant Pathology, 2012, 13, 508-518.	4.2	166
26	<i>N</i>-Acyl-Homoserine Lactone Primes Plants for Cell Wall Reinforcement and Induces Resistance to Bacterial Pathogens via the Salicylic Acid/Oxylipin Pathway. Plant Cell, 2014, 26, 2708-2723.	6.6	166
27	Detection and identification of bacteria intimately associated with fungi of the order<i>Sebacinales</i>. Cellular Microbiology, 2008, 10, 2235-2246.	2.1	154
28	<i>N</i>-Acyl-Homoserine Lactone Confers Resistance toward Biotrophic and Hemibiotrophic Pathogens via Altered Activation of AtMPK6 Â Â. Plant Physiology, 2011, 157, 1407-1418.	4.8	148
29	A Small GTP-Binding Host Protein Is Required for Entry of Powdery Mildew Fungus into Epidermal Cells of Barley. Plant Physiology, 2002, 128, 1447-1454.	4.8	147
30	RNA-based technologies for insect control in plant production. Biotechnology Advances, 2020, 39, 107463.	11.7	138
31	Acquired Resistance in Barley (The Resistance Mechanism Induced by 2,6-Dichloroisonicotinic Acid Is a) Tj ETQq1 1 0.784314 rgBT /Ov Plant Physiology, 1994, 106, 1269-1277.	4.8	131
32	Silencing the expression of the salivary sheath protein causes transgenerational feeding suppression in the aphid <i>Sitobion avenae</i>. Plant Biotechnology Journal, 2015, 13, 849-857.	8.3	130
33	The Mutualistic Fungus <i>Piriformospora indica</i> Colonizes <i>Arabidopsis</i> Roots by Inducing an Endoplasmic Reticulum Stressâ€"Triggered Caspase-Dependent Cell Death. Plant Cell, 2012, 24, 794-809.	6.6	128
34	Barley Leaf Transcriptome and Metabolite Analysis Reveals New Aspects of Compatibility and <i>Piriformospora indica</i>â€"Mediated Systemic Induced Resistance to Powdery Mildew. Molecular Plant-Microbe Interactions, 2011, 24, 1427-1439.	2.6	125
35	Tissue-Specific Superoxide Generation at Interaction Sites in Resistant and Susceptible Near-Isogenic Barley Lines Attacked by the Powdery Mildew Fungus (Erysiphe graminis f. sp. hordei). Molecular Plant-Microbe Interactions, 1998, 11, 292-300.	2.6	123
36	Functional analysis of barley RAC/ROP G-protein family members in susceptibility to the powdery mildew fungus. Plant Journal, 2003, 36, 589-601.	5.7	123

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37	Transcriptome and metabolome profiling of field-grown transgenic barley lack induced differences but show cultivar-specific variances. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6198-6203.	7.1	114
38	Systemic and local modulation of plant responses by Piriformospora indica and related Sebacinales species. Journal of Plant Physiology, 2008, 165, 60-70.	3.5	112
39	Arabidopsis growth and defense are modulated by bacterial quorum sensing molecules. Plant Signaling and Behavior, 2012, 7, 178-181.	2.4	109
40	Piriformospora indica protects barley from root rot caused by Fusarium graminearum. Journal of Plant Diseases and Protection, 2007, 114, 263-268.	2.9	102
41	Root colonization by Piriformospora indica enhances grain yield in barley under diverse nutrient regimes by accelerating plant development. Plant and Soil, 2010, 333, 59-70.	3.7	102
42	Non-pathogenic <i>Rhizobium radiobacter</i> F4 deploys plant beneficial activity independent of its host <i>Piriformospora indica</i>. ISME Journal, 2016, 10, 871-884.	9.8	93
43	Expression analysis of genes induced in barley after chemical activation reveals distinct disease resistance pathways. Molecular Plant Pathology, 2000, 1, 277-286.	4.2	92
44	The Barley Apoptosis Suppressor Homologue Bax Inhibitor-1 Compromises Nonhost Penetration Resistance of Barley to the Inappropriate Pathogen Blumeria graminis f. sp. tritici. Molecular Plant-Microbe Interactions, 2004, 17, 484-490.	2.6	90
45	Induced disease resistance and gene expression in cereals. Cellular Microbiology, 2005, 7, 1555-1564.	2.1	90
46	The Mutualistic Fungus <i>Piriformospora indica</i> Protects Barley Roots from a Loss of Antioxidant Capacity Caused by the Necrotrophic Pathogen <i>Fusarium culmorum</i>. Molecular Plant-Microbe Interactions, 2013, 26, 599-605.	2.6	88
47	Structural genes of wheat and barley 5-methylcytosine DNA glycosylases and their potential applications for human health. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20543-20548.	7.1	87
48	Identification of powdery mildew-induced barley genes by cDNA-AFLP: functional assessment of an early expressed MAP kinase. Plant Molecular Biology, 2004, 55, 1-15.	3.9	83
49	Apoplastic pH Signaling in Barley Leaves Attacked by the Powdery Mildew Fungus Blumeria graminis f. sp. hordei. Molecular Plant-Microbe Interactions, 2004, 17, 118-123.	2.6	83
50	Over-expression of the cell death regulator BAX inhibitor-1 in barley confers reduced or enhanced susceptibility to distinct fungal pathogens. Theoretical and Applied Genetics, 2009, 118, 455-463.	3.6	83
51	Ectopic Expression of Constitutively Activated RACB in Barley Enhances Susceptibility to Powdery Mildew and Abiotic Stress. Plant Physiology, 2005, 139, 353-362.	4.8	80
52	Differential expression of putative cell death regulator genes in near-isogenic, resistant and susceptible barley lines during interaction with the powdery mildew fungus. Plant Molecular Biology, 2001, 47, 739-748.	3.9	78
53	Ethylene Supports Colonization of Plant Roots by the Mutualistic Fungus Piriformospora indica. PLoS ONE, 2012, 7, e35502.	2.5	77
54	Homoserine Lactones Influence the Reaction of Plants to Rhizobia. International Journal of Molecular Sciences, 2013, 14, 17122-17146.	4.1	77

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55	Bacteria-Triggered Systemic Immunity in Barley Is Associated with WRKY and ETHYLENE RESPONSIVE FACTORs But Not with Salicylic Acid. Plant Physiology, 2014, 166, 2133-2151.	4.8	76
56	Further analysis of barley <scp>MORC</scp>1 using a highly efficient <scp>RNA</scp>â€guided Cas9 geneâ€editing system. Plant Biotechnology Journal, 2018, 16, 1892-1903.	8.3	75
57	Benzothiadiazole Activates Resistance in Sunflower (Helianthus annuus) to the Root-Parasitic Weed Orobanche cuman. Phytopathology, 2002, 92, 59-64.	2.2	74
58	Transgenic expression of gallerimycin, a novel antifungal insect defensin from the greater wax moth Galleria mellonella, confers resistance to pathogenic fungi in tobacco. Biological Chemistry, 2006, 387, 549-557.	2.5	69
59	Adaptation of aphid stylectomy for analyses of proteins and mRNAs in barley phloem sap. Journal of Experimental Botany, 2008, 59, 3297-3306.	4.8	69
60	Phytoplasma-Triggered Ca²⁺ Influx Is Involved in Sieve-Tube Blockage. Molecular Plant-Microbe Interactions, 2013, 26, 379-386.	2.6	69
61	Purification and characterization of peptides from Rhynchosporium secalis inducing necrosis in barley. Physiological and Molecular Plant Pathology, 1991, 39, 471-482.	2.5	68
62	Barley Mla and Rar mutants compromised in the hypersensitive cell death response against Blumeria graminis f.sp. hordei are modified in their ability to accumulate reactive oxygen intermediates at sites of fungal invasion. Planta, 2000, 212, 16-24.	3.2	68
63	Root-to-shoot signalling: apoplastic alkalinization, a general stress response and defence factor in barley (Hordeum vulgare). Protoplasma, 2005, 227, 17-24.	2.1	68
64	Insect peptide metchnikowin confers on barley a selective capacity for resistance to fungal ascomycetes pathogens. Journal of Experimental Botany, 2009, 60, 4105-4114.	4.8	68
65	The White Barley Mutant Albostrians Shows a Supersusceptible but Symptomless Interaction Phenotype with the Hemibiotrophic Fungus Bipolaris sorokiniana. Molecular Plant-Microbe Interactions, 2004, 17, 366-373.	2.6	66
66	Nitric oxide generation in <i>Vicia faba </i>phloem cells reveals them to be sensitive detectors as well as possible systemic transducers of stress signals. New Phytologist, 2008, 178, 634-646.	7.3	66
67	Respiratory Burst Oxidase Homologue A of barley contributes to penetration by the powdery mildew fungus Blumeria graminis f. sp. hordei. Journal of Experimental Botany, 2006, 57, 3781-3791.	4.8	65
68	Constitutively activated barley ROPs modulate epidermal cell size, defense reactions and interactions with fungal leaf pathogens. Plant Cell Reports, 2008, 27, 1877-1887.	5.6	65
69	Non-host resistance of barley is associated with a hydrogen peroxide burst at sites of attempted penetration by wheat powdery mildew fungus. Molecular Plant Pathology, 2001, 2, 199-205.	4.2	63
70	A single glycoprotein from Puccinia graminis f. sp. tritici cell walls elicits the hypersensitive lignification response in wheat. Physiological and Molecular Plant Pathology, 1988, 33, 173-185.	2.5	61
71	Expression of ?-1,3-glucanase and chitinase in healthy, stem-rust-affected and elicitor-treated near-isogenic wheat lines showingSr5-orSr24-specified race-specific rust resistance. Planta, 1997, 201, 235-244.	3.2	61
72	The Mycorrhiza Fungus <i>Piriformospora indica</i> Induces Fast Root-Surface pH Signaling and Primes Systemic Alkalinization of the Leaf Apoplast Upon Powdery Mildew Infection. Molecular Plant-Microbe Interactions, 2009, 22, 1179-1185.	2.6	61

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73	Molecular and phenotypic characterization of Sebacina vermifera strains associated with orchids, and the description of Piriformospora williamsii sp. nov.. Fungal Biology, 2012, 116, 204-213.	2.5	61
74	Production, amplification and systemic propagation of redox messengers in plants? The phloem can do it all!. New Phytologist, 2017, 214, 554-560.	7.3	60
75	The Piriformospora indica effector PIIN_08944 promotes the mutualistic Sebacinalean symbiosis. Frontiers in Plant Science, 2015, 6, 906.	3.6	59
76	Regulation of Cell Type-Specific Immunity Networks in Arabidopsis Roots. Plant Cell, 2020, 32, 2742-2762.	6.6	59
77	SIGS vs HIGS: a study on the efficacy of two dsRNA delivery strategies to silence <i>Fusarium FgCYP51</i> genes in infected host and nonâ€host plants. Molecular Plant Pathology, 2019, 20, 1636-1644.	4.2	57
78	Root cell death and systemic effects of<i>Piriformospora indica</i>: a study on mutualism. FEMS Microbiology Letters, 2007, 275, 1-7.	1.8	56
79	<scp><i>N</i></scp><i>â€</i>acylâ€homoserine lactonesâ€producing bacteria protect plants against plant and human pathogens. Microbial Biotechnology, 2014, 7, 580-588.	4.2	55
80	The Abundance of Endofungal Bacterium Rhizobium radiobacter (syn. Agrobacterium tumefaciens) Increases in Its Fungal Host Piriformospora indica during the Tripartite Sebacinalean Symbiosis with Higher Plants. Frontiers in Microbiology, 2017, 8, 629.	3.5	54
81	Mechanistic and genetic overlap of barley host and non-host resistance to Blumeria graminis. Molecular Plant Pathology, 2004, 5, 389-396.	4.2	52
82	Karyotype analysis, genome organization, and stable genetic transformation of the root colonizing fungus Piriformospora indica. Fungal Genetics and Biology, 2009, 46, 543-550.	2.1	52
83	Influence of N-fertilization and Fungicide Strategies on Fusarium Head Blight Severity and Mycotoxin Content in Winter Wheat. Journal of Phytopathology, 2005, 153, 551-557.	1.0	48
84	Effector candidates in the secretome of Piriformospora indica, a ubiquitous plant-associated fungus. Frontiers in Plant Science, 2013, 4, 228.	3.6	48
85	MORC Proteins: Novel Players in Plant and Animal Health. Frontiers in Plant Science, 2017, 8, 1720.	3.6	48
86	Tissue Dependence and Differential Cordycepin Sensitivity of Race-Specific Resistance Responses in the Barleyâ€"Powdery Mildew Interaction. Molecular Plant-Microbe Interactions, 1997, 10, 830-839.	2.6	46
87	Superoxide and Hydrogen Peroxide Play Different Roles in the Nonhost Interaction of Barley and Wheat with Inappropriate formae speciales of Blumeria graminis. Molecular Plant-Microbe Interactions, 2004, 17, 304-312.	2.6	45
88	Lucimycin, an antifungal peptide from the therapeutic maggot of the common green bottle fly <i>Lucilia sericata</i>. Biological Chemistry, 2014, 395, 649-656.	2.5	45
89	Phytohormones in plant root-<i>Piriformospora indica</i>mutualism. Plant Signaling and Behavior, 2009, 4, 669-671.	2.4	44
90	Biotic stress-associated microRNA families in plants. Journal of Plant Physiology, 2021, 263, 153451.	3.5	44

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91	Different Components of the RNA Interference Machinery Are Required for Conidiation, Ascosporogenesis, Virulence, Deoxynivalenol Production, and Fungal Inhibition by Exogenous Double-Stranded RNA in the Head Blight Pathogen Fusarium graminearum. Frontiers in Microbiology, 2019, 10, 1662.	3.5	42
92	CRT1 is a nuclear-translocated MORC endonuclease that participates in multiple levels of plant immunity. Nature Communications, 2012, 3, 1297.	12.8	41
93	Resistance in barley against the powdery mildew fungus (Erysiphe graminis f.sp.hordei) is not associated with enhanced levels of endogenous jasmonates. European Journal of Plant Pathology, 1995, 101, 319-332.	1.7	40
94	Metrafenone: studies on the mode of action of a novel cereal powdery mildew fungicide. Pest Management Science, 2006, 62, 393-401.	3.4	40
95	Expression of barley BAX Inhibitor-1 in carrots confers resistance toBotrytis cinerea. Molecular Plant Pathology, 2006, 7, 279-284.	4.2	39
96	RNA-based disease control as a complementary measure to fight Fusarium fungi through silencing of the azole target Cytochrome P450 Lanosterol C-14 Î±-Demethylase. European Journal of Plant Pathology, 2018, 152, 1003-1010.	1.7	39
97	Requirements for fungal uptake of dsRNA and gene silencing in RNAi-based crop protection strategies. Current Opinion in Biotechnology, 2021, 70, 136-142.	6.6	39
98	Phylogenetic analysis of barley WRKY proteins and characterization of HvWRKY1 and -2 as repressors of the pathogen-inducible gene HvGER4c. Molecular Genetics and Genomics, 2014, 289, 1331-1345.	2.1	38
99	Mutations inRor1andRor2genes cause modification of hydrogen peroxide accumulation inmlo-barley under attack from the powdery mildew fungus. Molecular Plant Pathology, 2000, 1, 287-292.	4.2	36
100	Transient over-expression of barley BAX Inhibitor-1 weakens oxidative defence and MLA12-mediated resistance to Blumeria graminis f.sp. hordei. Molecular Plant Pathology, 2006, 7, 543-552.	4.2	36
101	RNase E Affects the Expression of the Acyl-Homoserine Lactone Synthase Gene <i>sinI</i> in Sinorhizobium meliloti. Journal of Bacteriology, 2014, 196, 1435-1447.	2.2	34
102	STARTS â€" A stable root transformation system for rapid functional analyses of proteins of the monocot model plant barley. Plant Journal, 2011, 67, 726-735.	5.7	33
103	Induction of a Thionin, the Jasmonate-Induced 6 kDa Protein of Barley by 2,6-Dechloroisonicotinic acid. Journal of Phytopathology, 1994, 140, 280-284.	1.0	31
104	The root endophytes Trametes versicolor and Piriformospora indica increase grain yield and P content in wheat. Plant and Soil, 2018, 426, 339-348.	3.7	30
105	Functional assessment of the pathogenesis-related protein PR-1b in barley. Plant Science, 2003, 165, 1275-1280.	3.6	29
106	CRISPR/<i>Sp</i>Cas9â€mediated double knockout of barley Microrchidia MORC1 and MORC6a reveals their strong involvement in plant immunity, transcriptional gene silencing and plant growth. Plant Biotechnology Journal, 2022, 20, 89-102.	8.3	29
107	<i>Piriformospora indica</i>mycorrhization increases grain yield by accelerating early development of barley plants. Plant Signaling and Behavior, 2010, 5, 1685-1687.	2.4	28
108	Phytoplasma infection in tomato is associated with re-organization of plasma membrane, ER stacks, and actin filaments in sieve elements. Frontiers in Plant Science, 2015, 6, 650.	3.6	28

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109	A Bioinformatics Pipeline for the Analysis and Target Prediction of RNA Effectors in Bidirectional Communication During Plantâ€“Microbe Interactions. Frontiers in Plant Science, 2018, 9, 1212.	3.6	28
110	The Salmonella effector protein SpvC, a phosphothreonine lyase is functional in plant cells. Frontiers in Microbiology, 2014, 5, 548.	3.5	27
111	Systemic Induction of NO-, Redox-, and cGMP Signaling in the Pumpkin Extrafascicular Phloem upon Local Leaf Wounding. Frontiers in Plant Science, 2016, 7, 154.	3.6	26
112	Common motifs in the response of cereal primary metabolism to fungal pathogens are not based on similar transcriptional reprogramming. Frontiers in Plant Science, 2011, 2, 39.	3.6	25
113	Macroarray expression analysis of barley susceptibility and nonhost resistance to Blumeria graminis. Journal of Plant Physiology, 2006, 163, 657-670.	3.5	24
114	Suppression of the Hypersensitive Response in Wheat Stem Rust Interaction by Reagents with Affinity for Wheat Plasma Membrane Galactoconjugates. Journal of Plant Physiology, 1985, 118, 343-352.	3.5	23
115	A Jasmonate-responsive Lipoxygenase of Barley Leaves is Induced by Plant Activators but not by Pathogens. Journal of Plant Physiology, 1999, 154, 459-462.	3.5	23
116	Identification and transcriptional analysis of powdery mildew-induced barley genes. Plant Science, 2005, 168, 373-380.	3.6	23
117	Induced resistance triggered byPiriformospora indica. Plant Signaling and Behavior, 2009, 4, 215-216.	2.4	23
118	An image classification approach to analyze the suppression of plant immunity by the human pathogen SalmonellaTyphimurium. BMC Bioinformatics, 2012, 13, 171.	2.6	23
119	Dau c 1.01 and Dau c 1.02-silenced transgenic carrot plants show reduced allergenicity to patients with carrot allergy. Transgenic Research, 2011, 20, 547-556.	2.4	22
120	Direct and individual analysis of stressâ€related phytohormone dispersion in the vascular system of <i><scp>C</scp>ucurbita maxima</i> after flagellin 22 treatment. New Phytologist, 2014, 201, 1176-1182.	7.3	22
121	Fusarium graminearum DICER-like-dependent sRNAs are required for the suppression of host immune genes and full virulence. PLoS ONE, 2021, 16, e0252365.	2.5	22
122	Surface Galactolipids of Wheat Protoplasts as Receptors for Soybean Agglutinin and Their Possible Relevance to Host-Parasite Interaction. Plant Physiology, 1984, 76, 924-928.	4.8	21
123	Enhanced antifungal and insect Î±-amylase inhibitory activities of Alpha-TvD1, a peptide variant of Tephrosia villosa defensin (TvD1) generated through in vitro mutagenesis. Peptides, 2012, 33, 220-229.	2.4	21
124	Silencing ?1,2-xylosyltransferase in Transgenic Tomato Fruits Reveals xylose as Constitutive Component of Ige-Binding Epitopes. Frontiers in Plant Science, 2011, 2, 42.	3.6	19
125	Cross-Kingdom Analysis of Diversity, Evolutionary History, and Site Selection within the Eukaryotic Macrophage Migration Inhibitory Factor Superfamily. Genes, 2019, 10, 740.	2.4	19
126	Matrix metalloproteinases operate redundantly in Arabidopsis immunity against necrotrophic and biotrophic fungal pathogens. PLoS ONE, 2017, 12, e0183577.	2.5	19

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127	Interactive signal transfer between host and pathogen during successful infection of barley leaves by Blumeria graminis and Bipolaris sorokiniana. Journal of Plant Physiology, 2008, 165, 52-59.	3.5	18
128	The Sebacinoid Fungus Piriformospora indica: an Orchid Mycorrhiza Which May Increase Host Plant Reproduction and Fitness. , 2009, , 99-112.		18
129	Nematode ascaroside enhances resistance in a broad spectrum of plantâ€"pathogen systems. Journal of Phytopathology, 2019, 167, 265-272.	1.0	18
130	Elicitor-active glycoproteins in apoplastic fluids of stemrust-infected wheat leaves. Physiological and Molecular Plant Pathology, 1992, 40, 79-89.	2.5	17
131	The White Barley Mutant Albostrians Shows Enhanced Resistance to the Biotroph Blumeria graminis f. sp. hordei. Molecular Plant-Microbe Interactions, 2004, 17, 374-382.	2.6	17
132	Model Wheat Genotypes as Tools to Uncover Effective Defense Mechanisms Against the Hemibiotrophic Fungus Bipolaris sorokiniana. Phytopathology, 2005, 95, 528-532.	2.2	17
133	In barley leaf cells, jasmonates do not act as a signal during compatible or incompatible interactions with the powdery mildew fungus (Erysiphe graminis f. sp. hordei). Journal of Plant Physiology, 1997, 150, 127-132.	3.5	16
134	The Antimicrobial Peptide Thanatin Reduces Fungal Infections in <i>Arabidopsis</i>. Journal of Phytopathology, 2012, 160, 606-610.	1.0	16
135	The Compromised Recognition of Turnip Crinkle Virus1 Subfamily of Microrchidia ATPases Regulates Disease Resistance in Barley to Biotrophic and Necrotrophic Pathogens. Plant Physiology, 2014, 164, 866-878.	4.8	16
136	Thanatin confers partial resistance against aflatoxigenic fungi in maize (Zea mays). Transgenic Research, 2015, 24, 885-895.	2.4	16
137	The N-acyl homoserine-lactone depleted Rhizobium radiobacter mutant RrF4NM13 shows reduced growth-promoting and resistance-inducing activities in mono- and dicotyledonous plants. Journal of Plant Diseases and Protection, 2020, 127, 769-781.	2.9	16
138	Comparative Analysis of Transcriptome and sRNAs Expression Patterns in the Brachypodium distachyonâ€"Magnaporthe oryzae Pathosystems. International Journal of Molecular Sciences, 2021, 22, 650.	4.1	16
139	Endofungal Bacteria Increase Fitness of their Host Fungi and Impact their Association with Crop Plants. Current Issues in Molecular Biology, 2019, 30, 59-74.	2.4	16
140	OHMS**: Phytoplasmas dictate changes in sieve-element ultrastructure to accommodate their requirements for nutrition, multiplication and translocation. Plant Signaling and Behavior, 2016, 11, e1138191.	2.4	15
141	Evaluation of dsRNA delivery methods for targeting macrophage migration inhibitory factor MIF in RNAi-based aphid control. Journal of Plant Diseases and Protection, 2021, 128, 1201-1212.	2.9	14
142	Piriformospora indica and Azotobacter chroococcum Consortium Facilitates Higher Acquisition of N, P with Improved Carbon Allocation and Enhanced Plant Growth in Oryza sativa. Journal of Fungi (Basel, Switzerland), 2022, 8, 453.	3.5	14
143	Induction of somatic embryogenesis in cultured cells of Chenopodium quinoa. Plant Cell, Tissue and Organ Culture, 2005, 81, 243-246.	2.3	13
144	Modified N-acyl-homoserine lactones as chemical probes for the elucidation of plantâ€"microbe interactions. Organic and Biomolecular Chemistry, 2013, 11, 6994.	2.8	12

#	Article	IF	Citations
145	The GHKL ATPase MORC1 Modulates Species-Specific Plant Immunity in Solanaceae. Molecular Plant-Microbe Interactions, 2015, 28, 927-942.	2.6	12
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