Roger W Innes

List of Publications by Year
in descending order

93 papers	10,162 citations	44069 48 h-index	42399 92 g-index
108 all docs	108 docs citations	108 times ranked	8736 citing authors

#	Article	IF	Citations
1	Mitogen-activated protein kinase cascades in plants: a new nomenclature. Trends in Plant Science, 2002, 7, 301-308.	8.8	1,080
2	Plant NBS-LRR proteins in pathogen sensing and host defense. Nature Immunology, 2006, 7, 1243-1249.	14.5	621
3	Cleavage of Arabidopsis PBS1 by a Bacterial Type III Effector. Science, 2003, 301, 1230-1233.	12.6	504
4	Flavones induce expression of nodulation genes in Rhizobium. Nature, 1986, 323, 632-635.	27.8	498
5	A Yersinia Effector and a Pseudomonas Avirulence Protein Define a Family of Cysteine Proteases Functioning in Bacterial Pathogenesis. Cell, 2002, 109, 575-588.	28.9	417
6	Extracellular Vesicles Isolated from the Leaf Apoplast Carry Stress-Response Proteins. Plant Physiology, 2017, 173, 728-741.	4.8	400
7	Indirect activation of a plant nucleotide binding site-leucine-rich repeat protein by a bacterial protease. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2531-2536.	7.1	365
8	A Mutation within the Leucine-Rich Repeat Domain of the Arabidopsis Disease Resistance Gene RPS5 Partially Suppresses Multiple Bacterial and Downy Mildew Resistance Genes. Plant Cell, 1998, 10, 1439-1452.	6.6	309
9	An Arabidopsis Mutant with Enhanced Resistance to Powdery Mildew. Plant Cell, 1998, 10, 947-956.	6.6	299
10	RAR1 and NDR1 Contribute Quantitatively to Disease Resistance in Arabidopsis, and Their Relative Contributions Are Dependent on the R Gene Assayed. Plant Cell, 2002, 14, 1005-1015.	6.6	218
11	The Arabidopsis PBS1 resistance gene encodes a member of a novel protein kinase subfamily. Plant Journal, 2001, 26, 101-112.	5.7	214
12	Structure-Function Analysis of the Coiled-Coil and Leucine-Rich Repeat Domains of the RPS5 Disease Resistance Protein Â Â. Plant Physiology, 2012, 158, 1819-1832.	4.8	209
13	The GH3 Acyl Adenylase Family Member PBS3 Regulates Salicylic Acid-Dependent Defense Responses in Arabidopsis. Plant Physiology, 2007, 144, 1144-1156.	4.8	192
14	The long-term maintenance of a resistance polymorphism through diffuse interactions. Nature, 2014, 512, 436-440.	27.8	182
15	Pseudomonas syringae Effector Protein AvrB Perturbs Arabidopsis Hormone Signaling by Activating MAP Kinase 4. Cell Host and Microbe, 2010, 7, 164-175.	11.0	178
16	Using decoys to expand the recognition specificity of a plant disease resistance protein. Science, 2016, 351, 684-687.	12.6	176
17	A Phytophthora Effector Suppresses Trans-Kingdom RNAi to Promote Disease Susceptibility. Cell Host and Microbe, 2019, 25, 153-165.e5.	11.0	173
18	Identification of Three Putative Signal Transduction Genes Involved in R Gene-Specified Disease Resistance in Arabidopsis. Genetics, 1999, 152, 401-412.	2.9	173

#	Article	IF	Citations
19	Plant Extracellular Vesicles Contain Diverse Small RNA Species and Are Enriched in 10- to 17-Nucleotide â€œTinyâ€•RNAs. Plant Cell, 2019, 31, 315-324.	6.6	171
20	Recent Advances in Plant NLR Structure, Function, Localization, and Signaling. Frontiers in Immunology, 2013, 4, 348.	4.8	156
21	Extracellular vesicles as key mediators of plantâ€"microbe interactions. Current Opinion in Plant Biology, 2018, 44, 16-22.	7.1	156
22	Regulation of Plant Disease Resistance, Stress Responses, Cell Death, and Ethylene Signaling in Arabidopsis by the EDR1 Protein Kinase. Plant Physiology, 2005, 138, 1018-1026.	4.8	140
23	Differential Accumulation of Retroelements and Diversification of NB-LRR Disease Resistance Genes in Duplicated Regions following Polyploidy in the Ancestor of Soybean Â. Plant Physiology, 2008, 148, 1740-1759.	4.8	140
24	Identification of Pseudomonas syringae Pathogens of Arabidopsis and a Bacterial Locus Determining Avirulence on Both Arabidopsis and Soybean. Plant Cell, 1991, 3, 49.	6.6	137
25	Plant factors induce expression of nodulation and host-range genes in Rhizobium trifolii. Molecular Genetics and Genomics, 1985, 201, 426-432.	2.4	132
26	Convergent Evolution of Disease Resistance Gene Specificity in Two Flowering Plant Families[W]. Plant Cell, 2004, 16, 309-318.	6.6	131
27	Mutations in LACS2, a Long-Chain Acyl-Coenzyme A Synthetase, Enhance Susceptibility to Avirulent Pseudomonas syringae But Confer Resistance to Botrytis cinerea in Arabidopsis. Plant Physiology, 2007, 144, 1093-1103.	4.8	120
28	The crystal structure of Pseudomonas avirulence protein AvrPphB: A papain-like fold with a distinct substrate-binding site. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 302-307.	7.1	113
29	Recognition of the Protein Kinase AVRPPHB SUSCEPTIBLE1 by the Disease Resistance Protein RESISTANCE TO PSEUDOMONAS SYRINGAE5 Is Dependent on<i>S</i>-Acylation and an Exposed Loop in AVRPPHB SUSCEPTIBLE1 Â Â. Plant Physiology, 2014, 164, 340-351.	4.8	108
30	Regulation of plant defense responses in Arabidopsis by EDR2, a PH and START domain-containing protein. Plant Journal, 2005, 44, 245-257.	5.7	96
31	The KEEP ON GOING Protein of Arabidopsis Recruits the ENHANCED DISEASE RESISTANCE1 Protein to Trans-Golgi Network/Early Endosome Vesicles Â Â. Plant Physiology, 2011, 155, 1827-1838.	4.8	96
32	Identification of a disease resistance locus in Arabidopsis that is functionally homologous to the RPG1 locus of soybean. Plant Journal, 1993, 4, 813-820.	5.7	92
33	The KEEP ON GOING Protein of <i>Arabidopsis</i> Regulates Intracellular Protein Trafficking and Is Degraded during Fungal Infection. Plant Cell, 2012, 24, 4717-4730.	6.6	85
34	Genetic and Physical Localization of the Soybean Rpg1-b Disease Resistance Gene Reveals a Complex Locus Containing Several Tightly Linked Families of NBS-LRR Genes. Molecular Plant-Microbe Interactions, 2003, 16, 817-826.	2.6	77
35	Activation of a plant nucleotide binding-leucine rich repeat disease resistance protein by a modified self protein. Cellular Microbiology, 2012, 14, 1071-1084.	2.1	77
36	Evolution of a Complex Disease Resistance Gene Cluster in Diploid<i>Phaseolus</i>and Tetraploid<i>Glycine</i>Â Â Â. Plant Physiology, 2012, 159, 336-354.	4.8	76

#	Article	IF	Citations
37	The RING E3 Ligase KEEP ON GOING Modulates JASMONATE ZIM-DOMAIN12 Stability. Plant Physiology, 2015, 169, 1405-1417.	4.8	76
38	A mutation in the GTP hydrolysis site of Arabidopsis dynamin-related protein 1E confers enhanced cell death in response to powdery mildew infection. Plant Journal, 2006, 47, 75-84.	5.7	73
39	Overexpression of a kinase-deficient form of the EDR1 gene enhances powdery mildew resistance and ethylene-induced senescence in Arabidopsis. Plant Journal, 2002, 32, 975-983.	5.7	72
40	Powdery Mildew Resistance Conferred by Loss of the ENHANCED DISEASE RESISTANCE1 Protein Kinase Is Suppressed by a Missense Mutation in <i>KEEP ON GOING</i>, a Regulator of Abscisic Acid Signaling Â. Plant Physiology, 2008, 148, 1510-1522.	4.8	68
41	Molecular Soybean-Pathogen Interactions. Annual Review of Phytopathology, 2016, 54, 443-468.	7.8	67
42	Arabidopsis apoplastic fluid contains sRNA- and circular RNAâ€“protein complexes that are located outside extracellular vesicles. Plant Cell, 2022, 34, 1863-1881.	6.6	67
43	Guarding the Goods. New Insights into the Central Alarm System of Plants: Figure 1.. Plant Physiology, 2004, 135, 695-701.	4.8	63
44	ThePseudomonas syringaetype III effector AvrRpt2 functions downstream or independently of SA to promote virulence onArabidopsis thaliana. Plant Journal, 2004, 37, 494-504.	5.7	57
45	Replication of Nonautonomous Retroelements in Soybean Appears to Be Both Recent and Common Â. Plant Physiology, 2008, 148, 1760-1771.	4.8	57
46	Genetic dissection of R gene signal transduction pathways. Current Opinion in Plant Biology, 1998, 1, 299-304.	7.1	54
47	Mapping out the roles of MAP kinases in plant defense. Trends in Plant Science, 2001, 6, 392-394.	8.8	54
48	Common Bean Subtelomeres Are Hot Spots of Recombination and Favor Resistance Gene Evolution. Frontiers in Plant Science, 2018, 9, 1185.	3.6	54
49	The<i>Arabidopsis</i>EDR1 Protein Kinase Negatively Regulates the ATL1 E3 Ubiquitin Ligase to Suppress Cell Death. Plant Cell, 2014, 26, 4532-4546.	6.6	52
50	A New Ac-Like Transposon of Arabidopsis Is Associated With a Deletion of the RPS5 Disease Resistance Gene. Genetics, 1999, 151, 1581-1589.	2.9	52
51	Specific resistances against <i>Pseudomonas syringae</i> effectors AvrB and AvrRpm1 have evolved differently in common bean (<i>Phaseolus vulgaris</i>), soybean (<i>Glycine max</i>), and <i>Arabidopsis thaliana</i>. New Phytologist, 2010, 187, 941-956.	7.3	50
52	<i>Pseudomonas syringae</i> Effector AvrPphB Suppresses AvrB-Induced Activation of RPM1 but Not AvrRpm1-Induced Activation. Molecular Plant-Microbe Interactions, 2015, 28, 727-735.	2.6	48
53	Engineering a Decoy Substrate in Soybean to Enable Recognition of the Soybean Mosaic Virus NIa Protease. Molecular Plant-Microbe Interactions, 2019, 32, 760-769.	2.6	48
54	Convergent Evolution of Effector Protease Recognition by<i>Arabidopsis</i>and Barley. Molecular Plant-Microbe Interactions, 2019, 32, 550-565.	2.6	47

#	Article	IF	Citations
55	Growing pains: addressing the pitfalls of plant extracellular vesicle research. New Phytologist, 2020, 228, 1505-1510.	7.3	46
56	AvrRpm1 Functions as an ADP-Ribosyl Transferase to Modify NOI-domain Containing Proteins, Including Arabidopsis and Soybean RPM1-interacting Protein 4. Plant Cell, 2019, 31, tpc.00020.2019.	6.6	45
57	A Disease Resistance Gene in Arabidopsis with Specificity for Two Different Pathogen Avirulence Genes. Plant Cell, 1994, 6, 927.	6.6	44
58	The Positives and Negatives of NPR: A Unifying Model for Salicylic Acid Signaling in Plants. Cell, 2018, 173, 1314-1315.	28.9	42
59	Optimizing the PBS1 Decoy System to Confer Resistance to Potyvirus Infection in <i>Arabidopsis</i> and Soybean. Molecular Plant-Microbe Interactions, 2020, 33, 932-944.	2.6	38
60	Evolutionary Relationship of Disease Resistance Genes in Soybean and Arabidopsis Specific for the <i>Pseudomonas syringae</i> Effectors AvrB and AvrRpm1. Plant Physiology, 2014, 166, 235-251.	4.8	36
61	AvrB mutants lose both virulence and avirulence activities on soybean and Arabidopsis. Molecular Microbiology, 2006, 60, 951-962.	2.5	33
62	Broadly Conserved Fungal Effector BEC1019 Suppresses Host Cell Death and Enhances Pathogen Virulence in Powdery Mildew of Barley (<i>Hordeum vulgare</i> L.) (Retracted). Molecular Plant-Microbe Interactions, 2015, 28, 968-983.	2.6	33
63	Negative regulation of defence signalling pathways by the EDR1 protein kinase. Molecular Plant Pathology, 2011, 12, 746-758.	4.2	30
64	RPS5-Mediated Disease Resistance: Fundamental Insights and Translational Applications. Annual Review of Phytopathology, 2020, 58, 139-160.	7.8	28
65	Synergistic Activation of Defense Responses in Arabidopsis by Simultaneous Loss of the GSL5 Callose Synthase and the EDR1 Protein Kinase. Molecular Plant-Microbe Interactions, 2010, 23, 578-584.	2.6	27
66	An Arabidopsis Mutant with Enhanced Resistance to Powdery Mildew. Plant Cell, 1998, 10, 947.	6.6	25
67	A Mutation within the Leucine-Rich Repeat Domain of the Arabidopsis Disease Resistance Gene RPS5 Partially Suppresses Multiple Bacterial and Downy Mildew Resistance Genes. Plant Cell, 1998, 10, 1439.	6.6	24
68	Diversification of Non-TIR Class NB-LRR Genes in Relation to Whole-Genome Duplication Events in Arabidopsis. Molecular Plant-Microbe Interactions, 2005, 18, 103-109.	2.6	24
69	Isolation and Quantification of Plant Extracellular Vesicles. Bio-protocol, 2017, 7, e2533.	0.4	24
70	Determining the GmRIN4 Requirements of the Soybean Disease Resistance Proteins Rpg1b and Rpg1r Using a Nicotiana glutinosa-Based Agroinfiltration System. PLoS ONE, 2014, 9, e108159.	2.5	21
71	New effects of type III effectors. Molecular Microbiology, 2003, 50, 363-365.	2.5	20
72	<i>Arabidopsis</i> EDR1 Protein Kinase Regulates the Association of EDS1 and PAD4 to Inhibit Cell Death. Molecular Plant-Microbe Interactions, 2020, 33, 693-703.	2.6	17

#	Article	IF	Citations
73	Molecular mechanisms underlying host-induced gene silencing. Plant Cell, 2022, 34, 3183-3199.	6.6	17
74	Targeting the targets of Type III effector proteins secreted by phytopathogenic bacteria. Molecular Plant Pathology, 2001, 2, 109-115.	4.2	16
75	Highlights of the miniâ€symposium on extracellular vesicles in interâ€organismal communication, held in Munich, Germany, August 2018. Journal of Extracellular Vesicles, 2019, 8, 1590116.	12.2	16
76	Loss of the Acetyltransferase NAA50 Induces Endoplasmic Reticulum Stress and Immune Responses and Suppresses Growth. Plant Physiology, 2020, 183, 1838-1854.	4.8	16
77	Plant-parasite interactions: has the gene-for-gene model become outdated?. Trends in Microbiology, 1995, 3, 483-485.	7.7	15
78	Broadening the impact of plant science through innovative, integrative, and inclusive outreach. Plant Direct, 2021, 5, e00316.	1.9	14
79	Engineering healthy crops: molecular strategies for enhancing the plant immune system. Current Opinion in Biotechnology, 2021, 70, 151-157.	6.6	10
80	The development of extracellular vesicle markers for the fungal phytopathogen <i>Colletotrichum higginsianum</i>. Journal of Extracellular Vesicles, 2022, 11, e12216.	12.2	8
81	Resistance Rodeo: Rounding up the Full Complement of Arabidopsis NBS-LRR Genes. Plant Cell, 2003, 15, 806-807.	6.6	7
82	Decoding genetics and molecular biology: Sharing the movies in our heads. New Directions for Teaching and Learning, 2004, 2004, 23-32.	0.4	6
83	Activation of Plant Nod-like Receptors: How Indirect Can It Be?. Cell Host and Microbe, 2011, 9, 87-89.	11.0	6
84	Exploiting Combinatorial Interactions to Expand NLR Specificity. Cell Host and Microbe, 2015, 18, 265-267.	11.0	6
85	Flavones Induce Expression of the Nodulation Genes in Rhizobium. , 1986, , 115-121.		6
86	RPS2, an Arabidopsis Disease Resistance Locus Specifying Recognition of Pseudomonas syringae Strains Expressing the Avirulence Gene avrRpt2. Plant Cell, 1993, 5, 865.	6.6	5
87	Exciting times in plant biotic interactions. Plant Cell, 2022, 34, 1421-1424.	6.6	3
88	XVI Congress on Molecular Plant-Microbe Interactions Meeting Report. Molecular Plant-Microbe Interactions, 2014, 27, S1-S5.	2.6	1
89	A Confounding Effect of Bacterial Titer in a Type III Deliveryâ€"Based Assay of Eukaryotic Effector Function. Molecular Plant-Microbe Interactions, 2018, 31, 1115-1116.	2.6	1
90	In vitro Detection of S-acylation on Recombinant Proteins via the Biotin-Switch Technique. Bio-protocol, 2014, 4, .	0.4	1

#	Article	IF	Citations
91	Arabidopsis as a Model System for Studying Plant Disease Resistance Mechanisms. Annals of the New York Academy of Sciences, 1991, 646, 228-230.	3.8	0
92	Plant-Pathogen Interactions: Unexpected Findings on Signal Input and Output. Plant Cell, 1996, 8, 133.	6.6	0
93	A better mousetrap to guard against anthracnose disease in bean. Journal of Experimental Botany, 2021, 72, 3487-3488.	4.8	0