

Direct pathogen-induced assembly of an NLR immune holoenzyme

Science

370,

DOI: [10.1126/science.abe3069](https://doi.org/10.1126/science.abe3069)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Structure of the activated ROQ1 resistosome directly recognizing the pathogen effector XopQ. <i>Science</i> , 2020, 370, .	6.0	296
2	Enzyme formation by immune receptors. <i>Science</i> , 2020, 370, 1163-1164.	6.0	10
3	NOD-like receptor-mediated plant immunity: from structure to cell death. <i>Nature Reviews Immunology</i> , 2021, 21, 305-318.	10.6	103
5	Maize Plants Chimeric for an Autoactive Resistance Gene Display a Cell-Autonomous Hypersensitive Response but Non-Cell Autonomous Defense Signaling. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 606-616.	1.4	2
6	A misregulated cyclic nucleotide-gated channel mediates cytosolic calcium elevation and activates immunity in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2021, 230, 1078-1094.	3.5	51
8	A novel allele of the <i>Arabidopsis thaliana</i> MACPF protein CAD1 results in deregulated immune signaling. <i>Genetics</i> , 2021, 217, .	1.2	9
11	Mutual potentiation of plant immunity by cell-surface and intracellular receptors. <i>Nature</i> , 2021, 592, 110-115.	13.7	536
12	Disentangling cause and consequence: genetic dissection of the <i>DANGEROUS MIX2</i> risk locus, and activation of the DM2h NLR in autoimmunity. <i>Plant Journal</i> , 2021, 106, 1008-1023.	2.8	14
13	A Meta-Analysis Reveals Opposite Effects of Biotic and Abiotic Stresses on Transcript Levels of <i>Arabidopsis</i> Intracellular Immune Receptor Genes. <i>Frontiers in Plant Science</i> , 2021, 12, 625729.	1.7	12
15	Perturbation of nuclear-cytosolic shuttling of Rx1 compromises extreme resistance and translational arrest of potato virus X transcripts. <i>Plant Journal</i> , 2021, 106, 468-479.	2.8	9
16	SARM1 is a metabolic sensor activated by an increased NMN/NAD ⁺ ratio to trigger axon degeneration. <i>Neuron</i> , 2021, 109, 1118-1136.e11.	3.8	168
17	A Truncated TIR-NBS Protein TN10 Pairs with Two Clustered TIR-NBS-LRR Immune Receptors and Contributes to Plant Immunity in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 4004.	1.8	9
19	From Player to Pawn: Viral Avirulence Factors Involved in Plant Immunity. <i>Viruses</i> , 2021, 13, 688.	1.5	16
20	Recent Advances in Effector-Triggered Immunity in Plants: New Pieces in the Puzzle Create a Different Paradigm. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4709.	1.8	61
21	Extreme Resistance to Viruses in Potato and Soybean. <i>Frontiers in Plant Science</i> , 2021, 12, 658981.	1.7	16
22	Stepwise artificial evolution of an Sw-5b immune receptor extends its resistance spectrum against resistance-breaking isolates of <i>Tomato spotted wilt virus</i> . <i>Plant Biotechnology Journal</i> , 2021, 19, 2164-2176.	4.1	15
23	Apoptosis is not conserved in plants as revealed by critical examination of a model for plant apoptosis-like cell death. <i>BMC Biology</i> , 2021, 19, 100.	1.7	15
25	Calcium channels at the center of nucleotide-binding leucine-rich repeat receptor-mediated plant immunity. <i>Journal of Genetics and Genomics</i> , 2021, 48, 429-432.	1.7	0

#	ARTICLE	IF	CITATIONS
26	Pathogen effector recognition-dependent association of NRG1 with EDS1 and SAG101 in TNL receptor immunity. <i>Nature Communications</i> , 2021, 12, 3335.	5.8	112
27	Circ_PRKDC knockdown promotes skin wound healing by enhancing keratinocyte migration via miR-31/FBN1 axis. <i>Journal of Molecular Histology</i> , 2021, 52, 681-691.	1.0	10
28	Tandem Protein Kinases Emerge as New Regulators of Plant Immunity. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 1094-1102.	1.4	17
30	The Sw-5b NLR nucleotide-binding domain plays a role in oligomerization, and its self-association is important for activation of cell death signaling. <i>Journal of Experimental Botany</i> , 2021, 72, 6581-6595.	2.4	5
31	A Comparative Overview of the Intracellular Guardians of Plants and Animals: NLRs in Innate Immunity and Beyond. <i>Annual Review of Plant Biology</i> , 2021, 72, 155-184.	8.6	56
32	The ZAR1 resistosome is a calcium-permeable channel triggering plant immune signaling. <i>Cell</i> , 2021, 184, 3528-3541.e12.	13.5	308
33	Acidic pH irreversibly activates the signaling enzyme SARM1. <i>FEBS Journal</i> , 2021, 288, 6783-6794.	2.2	11
34	A Novel NAD Signaling Mechanism in Axon Degeneration and its Relationship to Innate Immunity. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 703532.	1.6	28
35	Direct acetylation of a conserved threonine of RIN4 by the bacterial effector HopZ5 or AvrBsT activates RPM1-dependent immunity in Arabidopsis. <i>Molecular Plant</i> , 2021, 14, 1951-1960.	3.9	29
36	Cytoplasmic and nuclear Sw-5b NLR act both independently and synergistically to confer full host defense against tospovirus infection. <i>New Phytologist</i> , 2021, 231, 2262-2281.	3.5	15
38	Roles of small RNAs in crop disease resistance. <i>Stress Biology</i> , 2021, 1, 1.	1.5	8
39	PTI-ETI crosstalk: an integrative view of plant immunity. <i>Current Opinion in Plant Biology</i> , 2021, 62, 102030.	3.5	373
40	Nucleocytoplasmic trafficking during immunity. <i>Molecular Plant</i> , 2021, 14, 1612-1614.	3.9	1
41	An angiosperm NLR Atlas reveals that NLR gene reduction is associated with ecological specialization and signal transduction component deletion. <i>Molecular Plant</i> , 2021, 14, 2015-2031.	3.9	57
43	One Hundred Years of Hybrid Necrosis: Hybrid Autoimmunity as a Window into the Mechanisms and Evolution of Plant-Pathogen Interactions. <i>Annual Review of Phytopathology</i> , 2021, 59, 213-237.	3.5	23
44	Regulation of Cell Death and Signaling by Pore-Forming Resistosomes. <i>Annual Review of Phytopathology</i> , 2021, 59, 239-263.	3.5	26
45	NLR immune receptor RB is differentially targeted by two homologous but functionally distinct effector proteins. <i>Plant Communications</i> , 2021, 2, 100236.	3.6	8
46	Evolutionary trade-offs at the Arabidopsis <i>WRR4A</i> resistance locus underpin alternate <i>Albugo candida</i> race recognition specificities. <i>Plant Journal</i> , 2021, 107, 1490-1502.	2.8	5

#	ARTICLE	IF	CITATIONS
47	Plant pathogens convergently evolved to counteract redundant nodes of an NLR immune receptor network. <i>PLoS Biology</i> , 2021, 19, e3001136.	2.6	69
48	NADase and now Ca ²⁺ channel, what else to learn about plant NLRs?. <i>Stress Biology</i> , 2021, 1, 1.	1.5	1
49	The truncated TNL receptor TN2-mediated immune responses require ADR1 function. <i>Plant Journal</i> , 2021, 108, 672-689.	2.8	9
50	Regulation of plant antiviral defense genes via host RNA-silencing mechanisms. <i>Virology Journal</i> , 2021, 18, 194.	1.4	14
51	Immunological circuits against biotic and abiotic stresses among plants: An analytical review. <i>Plant Gene</i> , 2021, 27, 100320.	1.4	0
52	The SAR1 TIR NADase: Mechanistic Similarities to Bacterial Phage Defense and Toxin-Antitoxin Systems. <i>Frontiers in Immunology</i> , 2021, 12, 752898.	2.2	12
54	Molecular Mechanism & Structure—Zooming in on Plant Immunity. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 1346-1349.	1.4	4
56	Plant immune networks. <i>Trends in Plant Science</i> , 2022, 27, 255-273.	4.3	140
58	Analysis of intraspecies diversity reveals a subset of highly variable plant immune receptors and predicts their binding sites. <i>Plant Cell</i> , 2021, 33, 998-1015.	3.1	45
62	A phyto-bacterial TIR domain effector manipulates NAD ⁺ to promote virulence. <i>New Phytologist</i> , 2022, 233, 890-904.	3.5	47
63	How activated NLRs induce anti-microbial defenses in plants. <i>Biochemical Society Transactions</i> , 2021, 49, 2177-2188.	1.6	14
64	CC _R -NLR proteins MdRNL2 and MdRNL6 interact physically to confer broad-spectrum fungal resistance in apple (<i>Malus domestica</i>). <i>Plant Journal</i> , 2021, 108, 1522-1538.	2.8	4
65	Functional Verification of Two Genes Related to Stripe Rust Resistance in the Wheat-Leymus mollis Introgression Line M8664-3. <i>Frontiers in Plant Science</i> , 2021, 12, 754823.	1.7	2
67	RefPlantNLR is a comprehensive collection of experimentally validated plant disease resistance proteins from the NLR family. <i>PLoS Biology</i> , 2021, 19, e3001124.	2.6	81
68	Arabidopsis ADR1 helper NLR immune receptors localize and function at the plasma membrane in a phospholipid dependent manner. <i>New Phytologist</i> , 2021, 232, 2440-2456.	3.5	36
70	A cluster of atypical resistance genes in soybean confers broad-spectrum antiviral activity. <i>Plant Physiology</i> , 2022, 188, 1277-1293.	2.3	9
73	The Mechanosensitive Ion Channel MSL10 Modulates Susceptibility to <i>Pseudomonas syringae</i> in <i>Arabidopsis thaliana</i> . <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 567-582.	1.4	7
76	Functional diversification gave rise to allelic specialization in a rice NLR immune receptor pair. <i>ELife</i> , 2021, 10, .	2.8	28

#	ARTICLE	IF	CITATIONS
78	Structural Evolution of TIR-Domain Signalosomes. <i>Frontiers in Immunology</i> , 2021, 12, 784484.	2.2	27
81	Structural basis of NLR activation and innate immune signalling in plants. <i>Immunogenetics</i> , 2022, 74, 5-26.	1.2	51
82	A tale of many families: calcium channels in plant immunity. <i>Plant Cell</i> , 2022, 34, 1551-1567.	3.1	45
83	Arabidopsis PUB2 and PUB4 connect signaling components of pattern-triggered immunity. <i>New Phytologist</i> , 2022, 233, 2249-2265.	3.5	17
84	Crystal structure of the Toll/interleukin-1 receptor (TIR) domain of IL-1R10 provides structural insights into TIR domain signalling. <i>FEBS Letters</i> , 2022, 596, 886-897.	1.3	5
85	Genome-wide characterization of NBS-LRR family genes and expression analysis under powdery mildew stress in <i>Lagenaria siceraria</i> . <i>Physiological and Molecular Plant Pathology</i> , 2022, 118, 101798.	1.3	16
86	Thirty years of resistance: Zig-zag through the plant immune system. <i>Plant Cell</i> , 2022, 34, 1447-1478.	3.1	318
87	Research on ADR1s helps understanding the plant immune network. <i>Stress Biology</i> , 2022, 2, 1.	1.5	2
88	Molecular innovations in plant TIR-based immunity signaling. <i>Plant Cell</i> , 2022, 34, 1479-1496.	3.1	55
89	In situ deletions reveal regulatory components for expression of an intracellular immune receptor gene and its co-expressed genes in Arabidopsis. <i>Plant, Cell and Environment</i> , 2022, , .	2.8	2
90	A Glimpse of Programmed Cell Death Among Bacteria, Animals, and Plants. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 790117.	1.8	3
91	A new biochemistry connecting pathogen detection to induced defense in plants. <i>New Phytologist</i> , 2022, 234, 819-826.	3.5	24
92	Life-or-death decisions in plant immunity. <i>Current Opinion in Immunology</i> , 2022, 75, 102169.	2.4	8
93	Allelic variation of a clubroot resistance gene (<i>Crr1a</i>) in Japanese cultivars of Chinese cabbage (<i>Brassica rapa</i> L.). <i>Breeding Science</i> , 2022, 72, 115-123.	0.9	2
94	Tackling multiple bacterial diseases of Solanaceae with a handful of immune receptors. <i>Horticulture Environment and Biotechnology</i> , 2022, 63, 149-160.	0.7	3
95	Exciting times in plant biotic interactions. <i>Plant Cell</i> , 2022, 34, 1421-1424.	3.1	3
97	Structural basis of SARM1 activation, substrate recognition, and inhibition by small molecules. <i>Molecular Cell</i> , 2022, 82, 1643-1659.e10.	4.5	66
98	Long-read genome sequencing of bread wheat facilitates disease resistance gene cloning. <i>Nature Genetics</i> , 2022, 54, 227-231.	9.4	63

#	ARTICLE	IF	CITATIONS
99	An Update on Resistance Genes and Their Use in the Development of Leaf Rust Resistant Cultivars in Wheat. <i>Frontiers in Genetics</i> , 2022, 13, 816057.	1.1	25
101	Molecular insights into the biochemical functions and signalling mechanisms of plant NLRs. <i>Molecular Plant Pathology</i> , 2022, 23, 772-780.	2.0	12
102	Evasion of plant immunity by microbial pathogens. <i>Nature Reviews Microbiology</i> , 2022, 20, 449-464.	13.6	129
103	New recognition specificity in a plant immune receptor by molecular engineering of its integrated domain. <i>Nature Communications</i> , 2022, 13, 1524.	5.8	47
104	Cavity surface residues of <scp>PAD4</scp> and <scp>SAG101</scp> contribute to <scp>EDS1</scp> dimer signaling specificity in plant immunity. <i>Plant Journal</i> , 2022, 110, 1415-1432.	2.8	20
105	TALEs as double-edged swords in plantâ€“pathogen interactions: Progress, challenges, and perspectives. <i>Plant Communications</i> , 2022, 3, 100318.	3.6	12
106	Short prokaryotic Argonaute systems trigger cell death upon detection of invading DNA. <i>Cell</i> , 2022, 185, 1471-1486.e19.	13.5	85
108	The N-terminally truncated helper NLR <i>NRG1C</i> antagonizes immunity mediated by its full-length neighbors <i>NRG1A</i> and <i>NRG1B</i>. <i>Plant Cell</i> , 2022, 34, 1621-1640.	3.1	22
111	Plant autoimmunityâ€”fresh insights into an old phenomenon. <i>Plant Physiology</i> , 2022, 188, 1419-1434.	2.3	15
113	Perception of structurally distinct effectors by the integrated WRKY domain of a plant immune receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	32
115	Resistosomes at the interface of pathogens and plants. <i>Current Opinion in Plant Biology</i> , 2022, 67, 102212.	3.5	17
116	Seeing is believing: Exploiting advances in structural biology to understand and engineer plant immunity. <i>Current Opinion in Plant Biology</i> , 2022, 67, 102210.	3.5	35
117	The Ry_{sto} immune receptor recognises a broadly conserved feature of potyviral coat proteins. <i>New Phytologist</i> , 2022, 235, 1179-1195.	3.5	10
120	Indirect recognition of pathogen effectors by NLRs. <i>Essays in Biochemistry</i> , 2022, 66, 485-500.	2.1	4
121	Robust transcriptional indicators of immune cell death revealed by spatiotemporal transcriptome analyses. <i>Molecular Plant</i> , 2022, 15, 1059-1075.	3.9	17
122	Ca ²⁺ signals in plant immunity. <i>EMBO Journal</i> , 2022, 41, e110741.	3.5	82
123	NLR receptor networks in plants. <i>Essays in Biochemistry</i> , 2022, 66, 541-549.	2.1	10
126	TIR domains of plant immune receptors are 2â€“3â€“cAMP/cGMP synthetases mediating cell death. <i>Cell</i> , 2022, 185, 2370-2386.e18.	13.5	104

#	ARTICLE	IF	CITATIONS
127	Recent advances in understanding of fungal and oomycete effectors. <i>Current Opinion in Plant Biology</i> , 2022, 68, 102228.	3.5	15
128	An effector CSEP087 from <i>Erysiphe necator</i> targets arginine decarboxylase VviADC to regulate host immunity in grapevine. <i>Scientia Horticulturae</i> , 2022, 303, 111205.	1.7	2
131	Structural basis of the IL-1 receptor TIR domain-mediated IL-1 signaling. <i>IScience</i> , 2022, , 104508.	1.9	1
132	Show me your ID: NLR immune receptors with integrated domains in plants. <i>Essays in Biochemistry</i> , 2022, 66, 527-539.	2.1	23
133	Two plant NLR proteins confer strain-specific resistance conditioned by an effector from <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> . <i>Journal of Genetics and Genomics</i> , 2022, 49, 823-832.	1.7	9
135	Insight into the structure and molecular mode of action of plant paired NLR immune receptors. <i>Essays in Biochemistry</i> , 2022, 66, 513-526.	2.1	11
136	Direct recognition of pathogen effectors by plant NLR immune receptors and downstream signalling. <i>Essays in Biochemistry</i> , 2022, 66, 471-483.	2.1	21
137	The emerging frontier of plant immunity's core hubs. <i>FEBS Journal</i> , 2023, 290, 3311-3335.	2.2	7
138	From plant immunity to crop disease resistance. <i>Journal of Genetics and Genomics</i> , 2022, 49, 693-703.	1.7	24
139	What's new in protein kinase/phosphatase signalling in the control of plant immunity?. <i>Essays in Biochemistry</i> , 2022, 66, 621-634.	2.1	13
140	The activity of the <i>RGA5</i> sensor <i>NLR</i> from rice requires binding of its integrated <i>HMA</i> domain to effectors but not <i>HMA</i> domain self-interaction. <i>Molecular Plant Pathology</i> , 2022, 23, 1320-1330.	2.0	4
141	A genetically linked pair of NLR immune receptors shows contrasting patterns of evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	19
142	The Arabidopsis <i>WRR4A</i> and <i>WRR4B</i> paralogous <i>NLR</i> proteins both confer recognition of multiple <i>Albugo candida</i> effectors. <i>New Phytologist</i> , 2023, 237, 532-547.	3.5	7
143	Identification and receptor mechanism of TIR-catalyzed small molecules in plant immunity. <i>Science</i> , 2022, 377, .	6.0	101
144	Shared TIR enzymatic functions regulate cell death and immunity across the tree of life. <i>Science</i> , 2022, 377, .	6.0	59
145	<i>NLR</i> we there yet? Nucleocytoplasmic coordination of <i>NLR</i> -mediated immunity. <i>New Phytologist</i> , 2022, 236, 24-42.	3.5	12
146	TIR-catalyzed ADP-ribosylation reactions produce signaling molecules for plant immunity. <i>Science</i> , 2022, 377, .	6.0	91
147	EDS1 modules as two-tiered receptor complexes for TIR-catalyzed signaling molecules to activate plant immunity. <i>Stress Biology</i> , 2022, 2, .	1.5	0

#	ARTICLE	IF	CITATIONS
148	Discovery of stripe rust resistance with incomplete dominance in wild emmer wheat using bulked segregant analysis sequencing. <i>Communications Biology</i> , 2022, 5, .	2.0	33
149	Cyclic nucleotide-induced helical structure activates a TIR immune effector. <i>Nature</i> , 2022, 608, 808-812.	13.7	59
150	Activation and Regulation of NLR Immune Receptor Networks. <i>Plant and Cell Physiology</i> , 2022, 63, 1366-1377.	1.5	16
151	Inorganic nanosheets facilitate humoral immunity against medical implant infections by modulating immune co-stimulatory pathways. <i>Nature Communications</i> , 2022, 13, .	5.8	32
152	Prokaryotic innate immunity through pattern recognition of conserved viral proteins. <i>Science</i> , 2022, 377, .	6.0	90
153	NLRexpressor "A bundle of machine learning motif predictors" Reveals motif stability underlying plant Nod-like receptors diversity. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5
154	The rice <i>OsERF101</i> transcription factor regulates the NLR Xa1-mediated immunity induced by perception of TAL effectors. <i>New Phytologist</i> , 2022, 236, 1441-1454.	3.5	3
155	Role of pathogen's effectors in understanding host-pathogen interaction. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2022, 1869, 119347.	1.9	6
156	<i>EDS1</i> complexes are not required for PRR responses and execute <i>TNL-ETI</i> from the nucleus in <i>Nicotiana benthamiana</i> . <i>New Phytologist</i> , 2022, 236, 2249-2264.	3.5	20
157	Pathogen effector AvrSr35 triggers Sr35 resistosome assembly via a direct recognition mechanism. <i>Science Advances</i> , 2022, 8, .	4.7	37
158	Distinct Responses to Pathogenic and Symbiotic Microorganisms: The Role of Plant Immunity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 10427.	1.8	4
159	Plant NLRs: Evolving with pathogen effectors and engineerable to improve resistance. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	4
160	A wheat resistosome defines common principles of immune receptor channels. <i>Nature</i> , 2022, 610, 532-539.	13.7	97
161	Uncompetitive, adduct-forming SARM1 inhibitors are neuroprotective in preclinical models of nerve injury and disease. <i>Neuron</i> , 2022, 110, 3711-3726.e16.	3.8	18
162	Differential requirement of TIR enzymatic activities in TIR-type immune receptor SNC1-mediated immunity. <i>Plant Physiology</i> , 2022, 190, 2094-2098.	2.3	13
163	The helper NLR immune protein NRC3 mediates the hypersensitive cell death caused by the cell-surface receptor Cf-4. <i>PLoS Genetics</i> , 2022, 18, e1010414.	1.5	35
164	Cyclic ADP ribose isomers: Production, chemical structures, and immune signaling. <i>Science</i> , 2022, 377, .	6.0	61
165	Calcium channels and transporters: Roles in response to biotic and abiotic stresses. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	7

#	ARTICLE	IF	CITATIONS
168	Tsw " A case study on structure-function puzzles in plant NLRs with unusually large LRR domains. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	2
169	Dying in self-defence: a comparative overview of immunogenic cell death signalling in animals and plants. <i>Cell Death and Differentiation</i> , 2023, 30, 258-268.	5.0	23
170	Isolation of Protein Complexes from Tobacco Leaves by a Two-Step Tandem Affinity Purification. <i>Current Protocols</i> , 2022, 2, .	1.3	1
173	Engineering effector-triggered immunity in rice: Obstacles and perspectives. <i>Plant, Cell and Environment</i> , 2023, 46, 1143-1156.	2.8	2
174	An Overview of PRR- and NLR-Mediated Immunities: Conserved Signaling Components across the Plant Kingdom That Communicate Both Pathways. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12974.	1.8	10
175	Allelic variation in the Arabidopsis TNL CHS3/CSA1 immune receptor pair reveals two functional cell-death regulatory modes. <i>Cell Host and Microbe</i> , 2022, 30, 1701-1716.e5.	5.1	18
176	Variation in plant Toll/Interleukin-1 receptor domain protein dependence on <i>ENHANCED DISEASE SUSCEPTIBILITY 1</i> . <i>Plant Physiology</i> , 2023, 191, 626-642.	2.3	19
177	Effector XopQ-induced stromule formation in <i>Nicotiana benthamiana</i> depends on ETI signaling components ADR1 and NRG1. <i>Plant Physiology</i> , 2023, 191, 161-176.	2.3	12
178	Emerging principles in the design of bioengineered made-to-order plant immune receptors. <i>Current Opinion in Plant Biology</i> , 2022, 70, 102311.	3.5	14
179	In situ deletions reveal regulatory components for expression of an intracellular immune receptor gene and its co-expressed genes in Arabidopsis. <i>Plant, Cell and Environment</i> , 0, , .	2.8	0
180	NLRscape: an atlas of plant NLR proteins. <i>Nucleic Acids Research</i> , 2023, 51, D1470-D1482.	6.5	9
181	A long look at short prokaryotic Argonautes. <i>Trends in Cell Biology</i> , 2023, 33, 605-618.	3.6	28
182	The intracellular immune receptor like gene <i>SNC1</i> is an enhancer of effector-triggered immunity in Arabidopsis. <i>Plant Physiology</i> , 2023, 191, 874-884.	2.3	3
183	Structure, biochemical function, and signaling mechanism of plant NLRs. <i>Molecular Plant</i> , 2023, 16, 75-95.	3.9	19
184	Structure-function analyses of coiled-coil immune receptors define a hydrophobic module for improving plant virus resistance. <i>Journal of Experimental Botany</i> , 2023, 74, 1372-1388.	2.4	6
185	Ascorbate peroxidase 1 allows monitoring of cytosolic accumulation of effector-triggered reactive oxygen species using a luminol-based assay. <i>Plant Physiology</i> , 2023, 191, 1416-1434.	2.3	7
188	A duplex structure of SARM1 octamers stabilized by a new inhibitor. <i>Cellular and Molecular Life Sciences</i> , 2023, 80, .	2.4	2
189	Advances in Biological Control and Resistance Genes of Brassicaceae Clubroot Disease-The Study Case of China. <i>International Journal of Molecular Sciences</i> , 2023, 24, 785.	1.8	3

#	ARTICLE	IF	CITATIONS
192	Effector-dependent activation and oligomerization of plant <sc>NRC</sc> class helper <sc>NLRs</sc> by sensor <sc>NLR</sc> immune receptors Rpi&agr3 and Rpi&agr1. EMBO Journal, 2023, 42, .	3.5	37
193	Assembly and Architecture of NLR Resistosomes and Inflammasomes. Annual Review of Biophysics, 2023, 52, 207-228.	4.5	11
194	Sensor <sc>NLR</sc> immune proteins activate oligomerization of their <sc>NRC</sc> helpers in response to plant pathogens. EMBO Journal, 2023, 42, .	3.5	34
195	An atypical NLR protein modulates the NRC immune receptor network in <i>Nicotiana benthamiana</i> . PLoS Genetics, 2023, 19, e1010500.	1.5	19
197	Plant immune receptor pathways as a united front against pathogens. PLoS Pathogens, 2023, 19, e1011106.	2.1	3
198	Broader functions of TIR domains in <i>Arabidopsis</i> immunity. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	12
199	TIR-catalyzed nucleotide signaling molecules in plant defense. Current Opinion in Plant Biology, 2023, 73, 102334.	3.5	11
200	Puncta-localized <sc>TRAF</sc> domain protein <sc>TC1b</sc> contributes to the autoimmunity of <i>sn1</i>. Plant Journal, 2023, 114, 591-612.	2.8	0
201	Altering Specificity and Autoactivity of Plant Immune Receptors Sr33 and Sr50 Via a Rational Engineering Approach. Molecular Plant-Microbe Interactions, 2023, 36, 434-446.	1.4	10
202	The maize ZmVPS23-like protein relocates the nucleotide-binding leucine-rich repeat protein Rp1-D21 to endosomes and suppresses the defense response. Plant Cell, 0, , .	3.1	2
203	Oligomerization of a plant helper NLR requires cell-surface and intracellular immune receptor activation. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	28
204	One hundred important&Aquestions for plant science " reflecting on a decade of plant research. New Phytologist, 2023, 238, 464-469.	3.5	2
205	Plant and prokaryotic TIR domains generate distinct cyclic ADPR NADase products. Science Advances, 2023, 9, .	4.7	24
206	Subcellular localization requirements and specificities for plant immune receptor Toll&agrinterleukin&agr1 receptor signaling. Plant Journal, 2023, 114, 1319-1337.	2.8	7
207	Membrane Dynamics Regulated by Cytoskeleton in Plant Immunity. International Journal of Molecular Sciences, 2023, 24, 6059.	1.8	1
209	Phylogenetic Analyses and Transcriptional Survey Reveal the Characteristics, Evolution, and Expression Profile of NBS-Type Resistance Genes in Papaya. Agronomy, 2023, 13, 970.	1.3	0
210	Cell death as a defense strategy against pathogens in plants and animals. PLoS Pathogens, 2023, 19, e1011253.	2.1	4
211	TIR domain-associated nucleotides with functions in plant immunity and beyond. Current Opinion in Plant Biology, 2023, 73, 102364.	3.5	4

#	ARTICLE	IF	CITATIONS
212	Small family, big impact: RNL helper NLRs and their importance in plant innate immunity. PLoS Pathogens, 2023, 19, e1011315.	2.1	1
213	Toll/interleukin-1 receptor domains in bacterial and plant immunity. Current Opinion in Microbiology, 2023, 74, 102316.	2.3	4
214	The evolution of plant NLR immune receptors and downstream signal components. Current Opinion in Plant Biology, 2023, 73, 102363.	3.5	6
237	Cryo-EM structure of the ssDNA-activated SPARTA complex. Cell Research, 2023, 33, 731-734.	5.7	5
261	R gene-mediated resistance in the management of plant diseases. Journal of Plant Biochemistry and Biotechnology, 2024, 33, 5-23.	0.9	0
269	Editorial: Plant defense mechanisms in plant-pathogen interactions. Frontiers in Plant Science, 0, 14, .	1.7	0