Pradeep Kachroo

List of Publications by Year in Descending Order

78 papers	6,933 citations	45 h-index	82 g-index
82 ext. papers	8,118 ext. citations	9 avg, IF	5.71 L-index

#	Paper	IF	Citations
78	An Emerging Role for Chloroplasts in Disease and Defense. *Annual Review of Phytopathology*, **2021**, 59, 423-445	10.8	5
77	The plant cuticle regulates apoplastic transport of salicylic acid during systemic acquired resistance. *Science Advances*, **2020**, 6, eaaz0478	14.3	28
76	Salicylic acid: transport and long-distance immune signaling. *Current Opinion in Virology*, **2020**, 42, 53-57	7.5	7
75	Lipid-Modulated Trafficking in Plants. *Molecular Plant*, **2020**, 13, 351-353	14.4	3
74	Pipecolic Acid Quantification Using Gas Chromatography-coupled Mass Spectrometry. *Bio-protocol*, **2020**, 10, e3841	0.9	0
73	JMJ14 encoded H3K4 demethylase modulates immune responses by regulating defence gene expression and pipecolic acid levels. *New Phytologist*, **2020**, 225, 2108-2121	9.8	14
72	Mobile signals in systemic acquired resistance. *Current Opinion in Plant Biology*, **2020**, 58, 41-47	9.9	14
71	The analogous and opposing roles of double-stranded RNA-binding proteins in bacterial resistance. *Journal of Experimental Botany*, **2019**, 70, 1627-1638	7	2
70	Glycerol-3-phosphate mediates rhizobia-induced systemic signaling in soybean. *Nature Communications*, **2019**, 10, 5303	17.4	16
69	Signaling mechanisms underlying systemic acquired resistance to microbial pathogens. *Plant Science*, **2019**, 279, 81-86	5.3	74
68	Plants Pack a Quiver Full of Arrows. *Cell Host and Microbe*, **2018**, 23, 573-575	23.4	8
67	COP1, a negative regulator of photomorphogenesis, positively regulates plant disease resistance via double-stranded RNA binding proteins. *PLoS Pathogens*, **2018**, 14, e1006894	7.6	13
66	Pipecolic acid confers systemic immunity by regulating free radicals. *Science Advances*, **2018**, 4, eaar4509	14.3	63
65	Signaling Mechanisms Underlying Resistance Responses: What Have We Learned, and How Is It Being Applied?. *Phytopathology*, **2017**, 107, 1452-1461	3.8	15
64	Transport of chemical signals in systemic acquired resistance. *Journal of Integrative Plant Biology*, **2017**, 59, 336-344	8.3	34
63	Fatty Acid- and Lipid-Mediated Signaling in Plant Defense. *Annual Review of Phytopathology*, **2017**, 55, 505-536	10.8	140
62	Role of plasmodesmata and plasmodesmata localizing proteins in systemic immunity. *Plant Signaling and Behavior*, **2016**, 11, e1219829	2.5	12

61	Cooperative functioning between phenylalanine ammonia lyase and isochorismate synthase activities contributes to salicylic acid biosynthesis in soybean. *New Phytologist*, **2016**, 212, 627-636	9.8	92
60	Nitric Oxide-Mediated Chemical Signaling during Systemic Acquired Resistance. *Advances in Botanical Research*, **2016**, 77, 245-261	2.2	4
59	The Potyviral P3 Protein Targets Eukaryotic Elongation Factor 1A to Promote the Unfolded Protein Response and Viral Pathogenesis. *Plant Physiology*, **2016**, 172, 221-34	6.6	39
58	Plasmodesmata Localizing Proteins Regulate Transport and Signaling during Systemic Acquired Immunity in Plants. *Cell Host and Microbe*, **2016**, 19, 541-9	23.4	94
57	Nitric oxide and reactive oxygen species are required for systemic acquired resistance in plants. *Plant Signaling and Behavior*, **2015**, 10, e998544	2.5	24
56	Signal regulators of systemic acquired resistance. *Frontiers in Plant Science*, **2015**, 6, 228	6.2	138
55	Chemical inducers of systemic immunity in plants. *Journal of Experimental Botany*, **2014**, 65, 1849-55	7	43
54	Free radicals mediate systemic acquired resistance. *Cell Reports*, **2014**, 7, 348-355	10.6	109
53	Free radical-mediated systemic immunity in plants. *Current Opinion in Plant Biology*, **2014**, 20, 127-34	9.9	85
52	Mono- and digalactosyldiacylglycerol lipids function nonredundantly to regulate systemic acquired resistance in plants. *Cell Reports*, **2014**, 9, 1681-1691	10.6	55
51	RNA silencing components mediate resistance signaling against turnip crinkle virus. *Plant Signaling and Behavior*, **2014**, 9, e28435	2.5	3
50	Double-stranded RNA-binding protein 4 is required for resistance signaling against viral and bacterial pathogens. *Cell Reports*, **2013**, 4, 1168-84	10.6	38
49	A feedback regulatory loop between G3P and lipid transfer proteins DIR1 and AZI1 mediates azelaic-acid-induced systemic immunity. *Cell Reports*, **2013**, 3, 1266-78	10.6	126
48	The plant vascular system: evolution, development and functions. *Journal of Integrative Plant Biology*, **2013**, 55, 294-388	8.3	388
47	Oleic acid-dependent modulation of NITRIC OXIDE ASSOCIATED1 protein levels regulates nitric oxide-mediated defense signaling in Arabidopsis. *Plant Cell*, **2012**, 24, 1654-74	11.6	116
46	CRT1 is a nuclear-translocated MORC endonuclease that participates in multiple levels of plant immunity. *Nature Communications*, **2012**, 3, 1297	17.4	30
45	The Roles of Salicylic Acid and Jasmonic Acid in Plant Immunity **2012**, 55-79		6
44	New insights into resistance protein-mediated signaling against turnip crinkle virus in Arabidopsis. *Journal of Plant Biochemistry and Biotechnology*, **2012**, 21, 48-51	1.6	1

43	Acyl CoA Binding Proteins are Required for Cuticle Formation and Plant Responses to Microbes. *Frontiers in Plant Science*, **2012**, 3, 224	6.2	59
42	Glycerol-3-phosphate is a critical mobile inducer of systemic immunity in plants. *Nature Genetics*, **2011**, 43, 421-7	36.3	253
41	Glycerol-3-phosphate and systemic immunity. *Plant Signaling and Behavior*, **2011**, 6, 1871-4	2.5	28
40	SAG101 forms a ternary complex with EDS1 and PAD4 and is required for resistance signaling against turnip crinkle virus. *PLoS Pathogens*, **2011**, 7, e1002318	7.6	103
39	Cryptochrome 2 and phototropin 2 regulate resistance protein-mediated viral defense by negatively regulating an E3 ubiquitin ligase. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13538-43	11.5	97
38	Blue light photoreceptors are required for the stability and function of a resistance protein mediating viral defense in Arabidopsis. *Plant Signaling and Behavior*, **2010**, 5, 1504-9	2.5	14
37	The glabra1 mutation affects cuticle formation and plant responses to microbes. *Plant Physiology*, **2010**, 154, 833-46	6.6	80
36	Endosome-associated CRT1 functions early in resistance gene-mediated defense signaling in Arabidopsis and tobacco. *Plant Cell*, **2010**, 22, 918-36	11.6	51
35	Enhanced disease susceptibility 1 and salicylic acid act redundantly to regulate resistance gene-mediated signaling. *PLoS Genetics*, **2009**, 5, e1000545	6	132
34	The common metabolite glycerol-3-phosphate is a novel regulator of plant defense signaling. *Plant Signaling and Behavior*, **2009**, 4, 746-9	2.5	30
33	Fatty Acid-derived signals in plant defense. *Annual Review of Phytopathology*, **2009**, 47, 153-76	10.8	280
32	An intact cuticle in distal tissues is essential for the induction of systemic acquired resistance in plants. *Cell Host and Microbe*, **2009**, 5, 151-65	23.4	100
31	CRT1, an Arabidopsis ATPase that interacts with diverse resistance proteins and modulates disease resistance to turnip crinkle virus. *Cell Host and Microbe*, **2008**, 3, 48-57	23.4	63
30	Glycerol-3-phosphate levels are associated with basal resistance to the hemibiotrophic fungus Colletotrichum higginsianum in Arabidopsis. *Plant Physiology*, **2008**, 147, 2017-29	6.6	66
29	An oleic acid-mediated pathway induces constitutive defense signaling and enhanced resistance to multiple pathogens in soybean. *Molecular Plant-Microbe Interactions*, **2008**, 21, 564-75	3.6	98
28	HRT-mediated hypersensitive response and resistance to Turnip crinkle virus in Arabidopsis does not require the function of TIP, the presumed guardee protein. *Molecular Plant-Microbe Interactions* , **2008**, 21, 1316-24	3.6	40
27	Salicylic acid-, jasmonic acid- and ethylene-mediated regulation of plant defense signaling. *Genetic Engineering*, **2007**, 28, 55-83		48
26	Plastidial fatty acid levels regulate resistance gene-dependent defense signaling in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 7277-82	11.5	76

25	The Arabidopsis stearoyl-acyl carrier protein-desaturase family and the contribution of leaf isoforms to oleic acid synthesis. *Plant Molecular Biology*, **2007**, 63, 257-71	4.6	167
24	The chimeric Arabidopsis CYCLIC NUCLEOTIDE-GATED ION CHANNEL11/12 activates multiple pathogen resistance responses. *Plant Cell*, **2006**, 18, 747-63	11.6	165
23	Host Gene-mediated Virus Resistance Mechanisms and Signaling in Arabidopsis **2006**, 147-164		3
22	Plant signal transduction and defense against viral pathogens. *Advances in Virus Research*, **2006**, 66, 161-91	10.7	34
21	Light-dependent hypersensitive response and resistance signaling against Turnip Crinkle Virus in Arabidopsis. *Plant Journal*, **2006**, 45, 320-34	6.9	135
20	Arabidopsis ssi2-conferred susceptibility to Botrytis cinerea is dependent on EDS5 and PAD4. *Molecular Plant-Microbe Interactions*, **2005**, 18, 363-70	3.6	46
19	Role of salicylic acid and fatty acid desaturation pathways in ssi2-mediated signaling. *Plant Physiology*, **2005**, 139, 1717-35	6.6	73
18	Oleic acid levels regulated by glycerolipid metabolism modulate defense gene expression in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5152-7	11.5	138
17	Signaling requirements and role of salicylic acid in HRT- and rrt-mediated resistance to turnip crinkle virus in Arabidopsis. *Plant Journal*, **2004**, 40, 647-59	6.9	93
16	Plastidial fatty acid signaling modulates salicylic acid- and jasmonic acid-mediated defense pathways in the Arabidopsis ssi2 mutant. *Plant Cell*, **2003**, 15, 2952-65	11.6	179
15	Restoration of defective cross talk in ssi2 mutants: role of salicylic acid, jasmonic acid, and fatty acids in SSI2-mediated signaling. *Molecular Plant-Microbe Interactions*, **2003**, 16, 1022-9	3.6	52
14	Ethylene and jasmonic acid signaling affect the NPR1-independent expression of defense genes without impacting resistance to Pseudomonas syringae and Peronospora parasitica in the Arabidopsis ssi1 mutant. *Molecular Plant-Microbe Interactions*, **2003**, 16, 588-99	3.6	52
13	A gain-of-function mutation in an Arabidopsis Toll Interleukin1 receptor-nucleotide binding site-leucine-rich repeat type R gene triggers defense responses and results in enhanced disease resistance. *Plant Cell*, **2002**, 14, 3149-62	11.6	248
12	A recessive mutation in the Arabidopsis SSI2 gene confers SA- and NPR1-independent expression of PR genes and resistance against bacterial and oomycete pathogens. *Plant Journal*, **2001**, 25, 563-74	6.9	172
11	Environmentally sensitive, SA-dependent defense responses in the cpr22 mutant of Arabidopsis. *Plant Journal*, **2001**, 26, 447-59	6.9	120
10	A fatty acid desaturase modulates the activation of defense signaling pathways in plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 9448-53	11.5	321
9	Salicylic Acid- And Nitric Oxide-Mediated Signal Transduction In Disease Resistance **2001**, 201-207		
8	Resistance to Turnip Crinkle Virus in Arabidopsis Is Regulated by Two Host Genes and Is Salicylic Acid Dependent but NPR1, Ethylene, and Jasmonate Independent. *Plant Cell*, **2000**, 12, 677	11.6	1

7	Nitric oxide and salicylic acid signaling in plant defense. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 8849-55	11.5	561
6	Resistance to turnip crinkle virus in Arabidopsis is regulated by two host genes and is salicylic acid dependent but NPR1, ethylene, and jasmonate independent. *Plant Cell*, **2000**, 12, 677-90	11.6	228
5	Members of the Arabidopsis HRT/RPP8 family of resistance genes confer resistance to both viral and oomycete pathogens. *Plant Cell*, **2000**, 12, 663-76	11.6	281
4	The Arabidopsis ssi1 mutation restores pathogenesis-related gene expression in npr1 plants and renders defensin gene expression salicylic acid dependent. *Plant Cell*, **1999**, 11, 191-206	11.6	240
3	Organisation and molecular analysis of repeated DNA sequences in the rice blast fungus Magnaporthe grisea. *Current Genetics*, **1997**, 31, 361-9	2.9	27
2	Analysis of host-induced response in the rice blast fungus Magnaporthe grisea using two-dimensional polyacrylamide gel electrophoresis. *Electrophoresis*, **1997**, 18, 163-9	3.6	8
1	Pot2, an inverted repeat transposon from the rice blast fungus Magnaporthe grisea. *Molecular Genetics and Genomics*, **1994**, 245, 339-48		132