

# Pradeep Kachroo

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nitric oxide and salicylic acid signaling in plant defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 8849-55	11.5	561
77	The plant vascular system: evolution, development and functions. <i>Journal of Integrative Plant Biology</i> , <b>2013</b> , 55, 294-388	8.3	388
76	A fatty acid desaturase modulates the activation of defense signaling pathways in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 9448-53	11.5	321
75	Members of the Arabidopsis HRT/RPP8 family of resistance genes confer resistance to both viral and oomycete pathogens. <i>Plant Cell</i> , <b>2000</b> , 12, 663-76	11.6	281
74	Fatty Acid-derived signals in plant defense. <i>Annual Review of Phytopathology</i> , <b>2009</b> , 47, 153-76	10.8	280
73	Glycerol-3-phosphate is a critical mobile inducer of systemic immunity in plants. <i>Nature Genetics</i> , <b>2011</b> , 43, 421-7	36.3	253
72	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. <i>Plant Cell</i> , <b>2002</b> , 14, 3149-62	11.6	248
71	The Arabidopsis ssi1 mutation restores pathogenesis-related gene expression in npr1 plants and renders defensin gene expression salicylic acid dependent. <i>Plant Cell</i> , <b>1999</b> , 11, 191-206	11.6	240
70	Resistance to turnip crinkle virus in Arabidopsis is regulated by two host genes and is salicylic acid dependent but NPR1, ethylene, and jasmonate independent. <i>Plant Cell</i> , <b>2000</b> , 12, 677-90	11.6	228
69	Plastidial fatty acid signaling modulates salicylic acid- and jasmonic acid-mediated defense pathways in the Arabidopsis ssi2 mutant. <i>Plant Cell</i> , <b>2003</b> , 15, 2952-65	11.6	179
68	A recessive mutation in the Arabidopsis SSI2 gene confers SA- and NPR1-independent expression of PR genes and resistance against bacterial and oomycete pathogens. <i>Plant Journal</i> , <b>2001</b> , 25, 563-74	6.9	172
67	The Arabidopsis stearyl-acyl carrier protein-desaturase family and the contribution of leaf isoforms to oleic acid synthesis. <i>Plant Molecular Biology</i> , <b>2007</b> , 63, 257-71	4.6	167
66	The chimeric Arabidopsis CYCLIC NUCLEOTIDE-GATED ION CHANNEL11/12 activates multiple pathogen resistance responses. <i>Plant Cell</i> , <b>2006</b> , 18, 747-63	11.6	165
65	Fatty Acid- and Lipid-Mediated Signaling in Plant Defense. <i>Annual Review of Phytopathology</i> , <b>2017</b> , 55, 505-536	10.8	140
64	Signal regulators of systemic acquired resistance. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 228	6.2	138
63	Oleic acid levels regulated by glycerolipid metabolism modulate defense gene expression in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 5152-7	11.5	138
62	Light-dependent hypersensitive response and resistance signaling against Turnip Crinkle Virus in Arabidopsis. <i>Plant Journal</i> , <b>2006</b> , 45, 320-34	6.9	135

61	Enhanced disease susceptibility 1 and salicylic acid act redundantly to regulate resistance gene-mediated signaling. <i>PLoS Genetics</i> , <b>2009</b> , 5, e1000545	6	132
60	Pot2, an inverted repeat transposon from the rice blast fungus <i>Magnaporthe grisea</i> . <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 245, 339-48		132
59	A feedback regulatory loop between G3P and lipid transfer proteins DIR1 and AZI1 mediates azelaic-acid-induced systemic immunity. <i>Cell Reports</i> , <b>2013</b> , 3, 1266-78	10.6	126
58	Environmentally sensitive, SA-dependent defense responses in the cpr22 mutant of Arabidopsis. <i>Plant Journal</i> , <b>2001</b> , 26, 447-59	6.9	120
57	Oleic acid-dependent modulation of NITRIC OXIDE ASSOCIATED1 protein levels regulates nitric oxide-mediated defense signaling in Arabidopsis. <i>Plant Cell</i> , <b>2012</b> , 24, 1654-74	11.6	116
56	Free radicals mediate systemic acquired resistance. <i>Cell Reports</i> , <b>2014</b> , 7, 348-355	10.6	109
55	SAG101 forms a ternary complex with EDS1 and PAD4 and is required for resistance signaling against turnip crinkle virus. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002318	7.6	103
54	An intact cuticle in distal tissues is essential for the induction of systemic acquired resistance in plants. <i>Cell Host and Microbe</i> , <b>2009</b> , 5, 151-65	23.4	100
53	An oleic acid-mediated pathway induces constitutive defense signaling and enhanced resistance to multiple pathogens in soybean. <i>Molecular Plant-Microbe Interactions</i> , <b>2008</b> , 21, 564-75	3.6	98
52	Cryptochrome 2 and phototropin 2 regulate resistance protein-mediated viral defense by negatively regulating an E3 ubiquitin ligase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 13538-43	11.5	97
51	Plasmodesmata Localizing Proteins Regulate Transport and Signaling during Systemic Acquired Immunity in Plants. <i>Cell Host and Microbe</i> , <b>2016</b> , 19, 541-9	23.4	94
50	Signaling requirements and role of salicylic acid in HRT- and rrt-mediated resistance to turnip crinkle virus in Arabidopsis. <i>Plant Journal</i> , <b>2004</b> , 40, 647-59	6.9	93
49	Cooperative functioning between phenylalanine ammonia lyase and isochorismate synthase activities contributes to salicylic acid biosynthesis in soybean. <i>New Phytologist</i> , <b>2016</b> , 212, 627-636	9.8	92
48	Free radical-mediated systemic immunity in plants. <i>Current Opinion in Plant Biology</i> , <b>2014</b> , 20, 127-34	9.9	85
47	The glabra1 mutation affects cuticle formation and plant responses to microbes. <i>Plant Physiology</i> , <b>2010</b> , 154, 833-46	6.6	80
46	Plastidial fatty acid levels regulate resistance gene-dependent defense signaling in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 7277-82	11.5	76
45	Signaling mechanisms underlying systemic acquired resistance to microbial pathogens. <i>Plant Science</i> , <b>2019</b> , 279, 81-86	5.3	74
44	Role of salicylic acid and fatty acid desaturation pathways in ssi2-mediated signaling. <i>Plant Physiology</i> , <b>2005</b> , 139, 1717-35	6.6	73

43	Glycerol-3-phosphate levels are associated with basal resistance to the hemibiotrophic fungus <i>Colletotrichum higginsianum</i> in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2008</b> , 147, 2017-29	6.6	66
42	CRT1, an <i>Arabidopsis</i> ATPase that interacts with diverse resistance proteins and modulates disease resistance to turnip crinkle virus. <i>Cell Host and Microbe</i> , <b>2008</b> , 3, 48-57	23.4	63
41	Pipecolic acid confers systemic immunity by regulating free radicals. <i>Science Advances</i> , <b>2018</b> , 4, eaar4509	14.3	63
40	Acyl CoA Binding Proteins are Required for Cuticle Formation and Plant Responses to Microbes. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 224	6.2	59
39	Mono- and digalactosyldiacylglycerol lipids function nonredundantly to regulate systemic acquired resistance in plants. <i>Cell Reports</i> , <b>2014</b> , 9, 1681-1691	10.6	55
38	Restoration of defective cross talk in <i>ssi2</i> mutants: role of salicylic acid, jasmonic acid, and fatty acids in SSI2-mediated signaling. <i>Molecular Plant-Microbe Interactions</i> , <b>2003</b> , 16, 1022-9	3.6	52
37	Ethylene and jasmonic acid signaling affect the NPR1-independent expression of defense genes without impacting resistance to <i>Pseudomonas syringae</i> and <i>Peronospora parasitica</i> in the <i>Arabidopsis ssi1</i> mutant. <i>Molecular Plant-Microbe Interactions</i> , <b>2003</b> , 16, 588-99	3.6	52
36	Endosome-associated CRT1 functions early in resistance gene-mediated defense signaling in <i>Arabidopsis</i> and tobacco. <i>Plant Cell</i> , <b>2010</b> , 22, 918-36	11.6	51
35	Salicylic acid-, jasmonic acid- and ethylene-mediated regulation of plant defense signaling. <i>Genetic Engineering</i> , <b>2007</b> , 28, 55-83		48
34	<i>Arabidopsis ssi2</i> -conferred susceptibility to <i>Botrytis cinerea</i> is dependent on EDS5 and PAD4. <i>Molecular Plant-Microbe Interactions</i> , <b>2005</b> , 18, 363-70	3.6	46
33	Chemical inducers of systemic immunity in plants. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 1849-55	7	43
32	HRT-mediated hypersensitive response and resistance to Turnip crinkle virus in <i>Arabidopsis</i> does not require the function of TIP, the presumed guard protein. <i>Molecular Plant-Microbe Interactions</i> , <b>2008</b> , 21, 1316-24	3.6	40
31	The Potyviral P3 Protein Targets Eukaryotic Elongation Factor 1A to Promote the Unfolded Protein Response and Viral Pathogenesis. <i>Plant Physiology</i> , <b>2016</b> , 172, 221-34	6.6	39
30	Double-stranded RNA-binding protein 4 is required for resistance signaling against viral and bacterial pathogens. <i>Cell Reports</i> , <b>2013</b> , 4, 1168-84	10.6	38
29	Transport of chemical signals in systemic acquired resistance. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 336-344	8.3	34
28	Plant signal transduction and defense against viral pathogens. <i>Advances in Virus Research</i> , <b>2006</b> , 66, 161-207	20.7	34
27	CRT1 is a nuclear-translocated MORC endonuclease that participates in multiple levels of plant immunity. <i>Nature Communications</i> , <b>2012</b> , 3, 1297	17.4	30
26	The common metabolite glycerol-3-phosphate is a novel regulator of plant defense signaling. <i>Plant Signaling and Behavior</i> , <b>2009</b> , 4, 746-9	2.5	30

25	The plant cuticle regulates apoplastic transport of salicylic acid during systemic acquired resistance. <i>Science Advances</i> , <b>2020</b> , 6, eaaz0478	14.3	28
24	Glycerol-3-phosphate and systemic immunity. <i>Plant Signaling and Behavior</i> , <b>2011</b> , 6, 1871-4	2.5	28
23	Organisation and molecular analysis of repeated DNA sequences in the rice blast fungus <i>Magnaporthe grisea</i> . <i>Current Genetics</i> , <b>1997</b> , 31, 361-9	2.9	27
22	Nitric oxide and reactive oxygen species are required for systemic acquired resistance in plants. <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e998544	2.5	24
21	Glycerol-3-phosphate mediates rhizobia-induced systemic signaling in soybean. <i>Nature Communications</i> , <b>2019</b> , 10, 5303	17.4	16
20	Signaling Mechanisms Underlying Resistance Responses: What Have We Learned, and How Is It Being Applied?. <i>Phytopathology</i> , <b>2017</b> , 107, 1452-1461	3.8	15
19	Blue light photoreceptors are required for the stability and function of a resistance protein mediating viral defense in Arabidopsis. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 1504-9	2.5	14
18	JMJ14 encoded H3K4 demethylase modulates immune responses by regulating defence gene expression and pipecolic acid levels. <i>New Phytologist</i> , <b>2020</b> , 225, 2108-2121	9.8	14
17	Mobile signals in systemic acquired resistance. <i>Current Opinion in Plant Biology</i> , <b>2020</b> , 58, 41-47	9.9	14
16	COP1, a negative regulator of photomorphogenesis, positively regulates plant disease resistance via double-stranded RNA binding proteins. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1006894	7.6	13
15	Role of plasmodesmata and plasmodesmata localizing proteins in systemic immunity. <i>Plant Signaling and Behavior</i> , <b>2016</b> , 11, e1219829	2.5	12
14	Plants Pack a Quiver Full of Arrows. <i>Cell Host and Microbe</i> , <b>2018</b> , 23, 573-575	23.4	8
13	Analysis of host-induced response in the rice blast fungus <i>Magnaporthe grisea</i> using two-dimensional polyacrylamide gel electrophoresis. <i>Electrophoresis</i> , <b>1997</b> , 18, 163-9	3.6	8
12	Salicylic acid: transport and long-distance immune signaling. <i>Current Opinion in Virology</i> , <b>2020</b> , 42, 53-57	7.5	7
11	The Roles of Salicylic Acid and Jasmonic Acid in Plant Immunity <b>2012</b> , 55-79		6
10	An Emerging Role for Chloroplasts in Disease and Defense. <i>Annual Review of Phytopathology</i> , <b>2021</b> , 59, 423-445	10.8	5
9	Nitric Oxide-Mediated Chemical Signaling during Systemic Acquired Resistance. <i>Advances in Botanical Research</i> , <b>2016</b> , 77, 245-261	2.2	4
8	Lipid-Modulated Trafficking in Plants. <i>Molecular Plant</i> , <b>2020</b> , 13, 351-353	14.4	3

7	RNA silencing components mediate resistance signaling against turnip crinkle virus. <i>Plant Signaling and Behavior</i> , <b>2014</b> , 9, e28435	2.5	3
6	Host Gene-mediated Virus Resistance Mechanisms and Signaling in Arabidopsis <b>2006</b> , 147-164		3
5	The analogous and opposing roles of double-stranded RNA-binding proteins in bacterial resistance. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 1627-1638	7	2
4	New insights into resistance protein-mediated signaling against turnip crinkle virus in Arabidopsis. <i>Journal of Plant Biochemistry and Biotechnology</i> , <b>2012</b> , 21, 48-51	1.6	1
3	Resistance to Turnip Crinkle Virus in Arabidopsis Is Regulated by Two Host Genes and Is Salicylic Acid Dependent but NPR1, Ethylene, and Jasmonate Independent. <i>Plant Cell</i> , <b>2000</b> , 12, 677	11.6	1
2	Pipecolic Acid Quantification Using Gas Chromatography-coupled Mass Spectrometry. <i>Bio-protocol</i> , <b>2020</b> , 10, e3841	0.9	0
1	Salicylic Acid- And Nitric Oxide-Mediated Signal Transduction In Disease Resistance <b>2001</b> , 201-207		