

Jeffery L Dangl

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.

101
papers

26,141
citations

54
h-index

108
g-index

108
ext. papers

33,642
ext. citations

18.3
avg, IF

7.41
L-index

#	Paper	IF	Citations
101	The plant immune system. <i>Nature</i> , 2006 , 444, 323-9	50.4	8067
100	Plant pathogens and integrated defence responses to infection. <i>Nature</i> , 2001 , 411, 826-33	50.4	2989
99	Defining the core <i>Arabidopsis thaliana</i> root microbiome. <i>Nature</i> , 2012 , 488, 86-90	50.4	1613
98	Diversity and heritability of the maize rhizosphere microbiome under field conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6548-53	11.5	1067
97	RIN4 interacts with <i>Pseudomonas syringae</i> type III effector molecules and is required for RPM1-mediated resistance in <i>Arabidopsis</i> . <i>Cell</i> , 2002 , 108, 743-54	56.2	883
96	Pivoting the plant immune system from dissection to deployment. <i>Science</i> , 2013 , 341, 746-51	33.3	737
95	<i>Arabidopsis</i> RIN4 is a target of the type III virulence effector AvrRpt2 and modulates RPS2-mediated resistance. <i>Cell</i> , 2003 , 112, 379-89	56.2	731
94	PLANT MICROBIOME. Salicylic acid modulates colonization of the root microbiome by specific bacterial taxa. <i>Science</i> , 2015 , 349, 860-4	33.3	620
93	Independently evolved virulence effectors converge onto hubs in a plant immune system network. <i>Science</i> , 2011 , 333, 596-601	33.3	601
92	Intracellular innate immune surveillance devices in plants and animals. <i>Science</i> , 2016 , 354,	33.3	493
91	Practical innovations for high-throughput amplicon sequencing. <i>Nature Methods</i> , 2013 , 10, 999-1002	21.6	461
90	Host genotype and age shape the leaf and root microbiomes of a wild perennial plant. <i>Nature Communications</i> , 2016 , 7, 12151	17.4	420
89	Research priorities for harnessing plant microbiomes in sustainable agriculture. <i>PLoS Biology</i> , 2017 , 15, e2001793	9.7	402
88	Intragenic recombination and diversifying selection contribute to the evolution of downy mildew resistance at the RPP8 locus of <i>Arabidopsis</i> . <i>Plant Cell</i> , 1998 , 10, 1861-74	11.6	381
87	Root microbiota drive direct integration of phosphate stress and immunity. <i>Nature</i> , 2017 , 543, 513-518	50.4	369
86	Understanding and exploiting plant beneficial microbes. <i>Current Opinion in Plant Biology</i> , 2017 , 38, 155-163	15.3	344
85	The hypersensitive response and the induction of cell death in plants. <i>Cell Death and Differentiation</i> , 1997 , 4, 671-83	12.7	331

84	Primer and platform effects on 16S rRNA tag sequencing. <i>Frontiers in Microbiology</i> , 2015 , 6, 771	5.7	314
83	Eukaryotic fatty acylation drives plasma membrane targeting and enhances function of several type III effector proteins from <i>Pseudomonas syringae</i> . <i>Cell</i> , 2000 , 101, 353-63	56.2	284
82	Genomic features of bacterial adaptation to plants. <i>Nature Genetics</i> , 2017 , 50, 138-150	36.3	253
81	Expanded functions for a family of plant intracellular immune receptors beyond specific recognition of pathogen effectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16463-8	11.5	246
80	Convergent targeting of a common host protein-network by pathogen effectors from three kingdoms of life. <i>Cell Host and Microbe</i> , 2014 , 16, 364-75	23.4	242
79	Large-scale replicated field study of maize rhizosphere identifies heritable microbes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7368-7373	11.5	230
78	The disease resistance signaling components EDS1 and PAD4 are essential regulators of the cell death pathway controlled by LSD1 in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2001 , 13, 2211-24	11.6	224
77	The <i>Pseudomonas syringae</i> effector AvrRpt2 cleaves its C-terminally acylated target, RIN4, from <i>Arabidopsis</i> membranes to block RPM1 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 6496-501	11.5	197
76	<i>Arabidopsis</i> RIN4 negatively regulates disease resistance mediated by RPS2 and RPM1 downstream or independent of the NDR1 signal modulator and is not required for the virulence functions of bacterial type III effectors AvrRpt2 or AvrRpm1. <i>Plant Cell</i> , 2004 , 16, 2822-35	11.6	188
75	TIR domains of plant immune receptors are NAD-cleaving enzymes that promote cell death. <i>Science</i> , 2019 , 365, 799-803	33.3	162
74	Specific threonine phosphorylation of a host target by two unrelated type III effectors activates a host innate immune receptor in plants. <i>Cell Host and Microbe</i> , 2011 , 9, 125-36	23.4	139
73	Plant intracellular innate immune receptor Resistance to <i>Pseudomonas syringae</i> pv. <i>maculicola</i> 1 (RPM1) is activated at, and functions on, the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7619-24	11.5	132
72	Phospholipase-dependent signalling during the AvrRpm1- and AvrRpt2-induced disease resistance responses in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2006 , 47, 947-59	6.9	129
71	A Species-Wide Inventory of NLR Genes and Alleles in <i>Arabidopsis thaliana</i> . <i>Cell</i> , 2019 , 178, 1260-1272.e14	36.2	125
70	Extracellular leucine-rich repeats as a platform for receptor/coreceptor complex formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8503-7	11.5	120
69	A gene encoding maize caffeoyl-CoA O-methyltransferase confers quantitative resistance to multiple pathogens. <i>Nature Genetics</i> , 2017 , 49, 1364-1372	36.3	112
68	Genome-Wide Assessment of Efficiency and Specificity in CRISPR/Cas9 Mediated Multiple Site Targeting in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2016 , 11, e0162169	3.7	112
67	Help wanted: helper NLRs and plant immune responses. <i>Current Opinion in Plant Biology</i> , 2019 , 50, 82-94	9.9	107

66	Design of synthetic bacterial communities for predictable plant phenotypes. <i>PLoS Biology</i> , 2018 , 16, e2003962	10.6	106
65	Genome-wide identification of bacterial plant colonization genes. <i>PLoS Biology</i> , 2017 , 15, e2002860	9.7	101
64	The growth-defense pivot: crisis management in plants mediated by LRR-RK surface receptors. <i>Trends in Biochemical Sciences</i> , 2014 , 39, 447-56	10.3	100
63	A truncated NLR protein, TIR-NBS2, is required for activated defense responses in the exo70B1 mutant. <i>PLoS Genetics</i> , 2015 , 11, e1004945	6	91
62	TIR-only protein RBA1 recognizes a pathogen effector to regulate cell death in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2053-E2062	11.5	83
61	The Plant Microbiome: From Ecology to Reductionism and Beyond. <i>Annual Review of Microbiology</i> , 2020 , 74, 81-100	17.5	83
60	Molecular and functional analyses of a maize autoactive NB-LRR protein identify precise structural requirements for activity. <i>PLoS Pathogens</i> , 2015 , 11, e1004674	7.6	80
59	Beyond pathogens: microbiota interactions with the plant immune system. <i>Current Opinion in Microbiology</i> , 2019 , 49, 7-17	7.9	77
58	Two modes of pathogen recognition by plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8575-6	11.5	77
57	Type III effector activation via nucleotide binding, phosphorylation, and host target interaction. <i>PLoS Pathogens</i> , 2007 , 3, e48	7.6	75
56	<i>Pseudomonas syringae</i> Type III Effector HopBB1 Promotes Host Transcriptional Repressor Degradation to Regulate Phytohormone Responses and Virulence. <i>Cell Host and Microbe</i> , 2017 , 21, 156-168	23.4	74
55	Genetic requirements for signaling from an autoactive plant NB-LRR intracellular innate immune receptor. <i>PLoS Genetics</i> , 2013 , 9, e1003465	6	74
54	A plant phosphoswitch platform repeatedly targeted by type III effector proteins regulates the output of both tiers of plant immune receptors. <i>Cell Host and Microbe</i> , 2014 , 16, 484-94	23.4	71
53	Elucidating Bacterial Gene Functions in the Plant Microbiome. <i>Cell Host and Microbe</i> , 2018 , 24, 475-485	23.4	71
52	A single bacterial genus maintains root growth in a complex microbiome. <i>Nature</i> , 2020 , 587, 103-108	50.4	70
51	Signaling from the plasma-membrane localized plant immune receptor RPM1 requires self-association of the full-length protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7385-E7394	11.5	63
50	TNL-mediated immunity in Arabidopsis requires complex regulation of the redundant ADR1 gene family. <i>New Phytologist</i> , 2016 , 210, 960-73	9.8	63
49	Crystal structures of the type III effector protein AvrPphF and its chaperone reveal residues required for plant pathogenesis. <i>Structure</i> , 2004 , 12, 1669-81	5.2	60

48	The effects of soil phosphorus content on plant microbiota are driven by the plant phosphate starvation response. <i>PLoS Biology</i> , 2019 , 17, e3000534	9.7	58
47	Activation of a Plant NLR Complex through Heteromeric Association with an Autoimmune Risk Variant of Another NLR. <i>Current Biology</i> , 2017 , 27, 1148-1160	6.3	53
46	Retromer contributes to immunity-associated cell death in Arabidopsis. <i>Plant Cell</i> , 2015 , 27, 463-79	11.6	51
45	Coordination between microbiota and root endodermis supports plant mineral nutrient homeostasis. <i>Science</i> , 2021 , 371,	33.3	43
44	Two unequally redundant "helper" immune receptor families mediate Arabidopsis thaliana intracellular "sensor" immune receptor functions. <i>PLoS Biology</i> , 2020 , 18, e3000783	9.7	41
43	Plant "helper" immune receptors are Ca-permeable nonselective cation channels. <i>Science</i> , 2021 , 373, 420-425	33.3	41
42	Suppressors of the arabidopsis lsd5 cell death mutation identify genes involved in regulating disease resistance responses. <i>Genetics</i> , 1999 , 151, 305-19	4	36
41	Learning Microbial Interaction Networks from Metagenomic Count Data. <i>Journal of Computational Biology</i> , 2016 , 23, 526-35	1.7	31
40	AtSERPIN1 is an inhibitor of the metacaspase AtMC1-mediated cell death and autocatalytic processing in planta. <i>New Phytologist</i> , 2018 , 218, 1156-1166	9.8	29
39	Effector-Triggered Immune Response in Arabidopsis thaliana Is a Quantitative Trait. <i>Genetics</i> , 2016 , 204, 337-53	4	29
38	Pseudomonas syringae type III effector HopAF1 suppresses plant immunity by targeting methionine recycling to block ethylene induction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3577-86	11.5	29
37	The EDS1-PAD4-ADR1 node mediates Arabidopsis pattern-triggered immunity. <i>Nature</i> , 2021 , 598, 495-499	30.4	28
36	Arabidopsis AtMORC4 and AtMORC7 Form Nuclear Bodies and Repress a Large Number of Protein-Coding Genes. <i>PLoS Genetics</i> , 2016 , 12, e1005998	6	27
35	Treasure your exceptions: unusual domains in immune receptors reveal host virulence targets. <i>Cell</i> , 2015 , 161, 957-960	56.2	22
34	Multilab EcoFAB study shows highly reproducible physiology and depletion of soil metabolites by a model grass. <i>New Phytologist</i> , 2019 , 222, 1149-1160	9.8	22
33	AvrRpm1 Functions as an ADP-Ribosyl Transferase to Modify NOI Domain-Containing Proteins, Including Arabidopsis and Soybean RPM1-Interacting Protein4. <i>Plant Cell</i> , 2019 , 31, 2664-2681	11.6	21
32	A complex immune response to flagellin epitope variation in commensal communities. <i>Cell Host and Microbe</i> , 2021 , 29, 635-649.e9	23.4	21
31	Variable suites of non-effector genes are co-regulated in the type III secretion virulence regulon across the Pseudomonas syringae phylogeny. <i>PLoS Pathogens</i> , 2014 , 10, e1003807	7.6	20

30	AvrRpm1 missense mutations weakly activate RPS2-mediated immune response in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2012 , 7, e42633	3.7	19
29	Concerted Action of Evolutionarily Ancient and Novel SNARE Complexes in Flowering-Plant Cytokinesis. <i>Developmental Cell</i> , 2018 , 44, 500-511.e4	10.2	18
28	A host target of a bacterial cysteine protease virulence effector plays a key role in convergent evolution of plant innate immune system receptors. <i>New Phytologist</i> , 2020 , 225, 1327-1342	9.8	18
27	Phevamine A, a small molecule that suppresses plant immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E9514-E9522	11.5	18
26	MT-Toolbox: improved amplicon sequencing using molecule tags. <i>BMC Bioinformatics</i> , 2014 , 15, 284	3.6	17
25	Specific modulation of the root immune system by a community of commensal bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	17
24	A pentangular plant inflammasome. <i>Science</i> , 2019 , 364, 31-32	33.3	16
23	Plant science. Nibbling at the plant cell nucleus. <i>Science</i> , 2007 , 315, 1088-9	33.3	12
22	<i>Arabidopsis</i> cell surface LRR immune receptor signaling through the EDS1-PAD4-ADR1 node		12
21	Signatures of antagonistic pleiotropy in a bacterial flagellin epitope. <i>Cell Host and Microbe</i> , 2021 , 29, 620-634.e9	23.4	12
20	Plant immune system activation is necessary for efficient root colonization by auxin-secreting beneficial bacteria. <i>Cell Host and Microbe</i> , 2021 , 29, 1507-1520.e4	23.4	10
19	Tradict enables accurate prediction of eukaryotic transcriptional states from 100 marker genes. <i>Nature Communications</i> , 2017 , 8, 15309	17.4	8
18	A single bacterial genus maintains root development in a complex microbiome		8
17	Root Microbiome Modulates Plant Growth Promotion Induced by Low Doses of Glyphosate. <i>MSphere</i> , 2020 , 5,	5	8
16	Corrigendum to Wagner et al.: Natural soil microbes alter flowering phenology and the intensity of selection on flowering time in a wild <i>Arabidopsis</i> relative. <i>Ecology Letters</i> , 2015 , 18, 218-220	10	7
15	The <i>Arabidopsis thaliana</i> pan-NLRome		6
14	CRAGE-Duet Facilitates Modular Assembly of Biological Systems for Studying Plant-Microbe Interactions. <i>ACS Synthetic Biology</i> , 2020 , 9, 2610-2615	5.7	5
13	An integrated workflow for phenazine-modifying enzyme characterization. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 567-577	4.2	4

12	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	9.8	4
11	Coiled-coil and RPW8-type immune receptors function at the plasma membrane in a phospholipid dependent manner		4
10	The effects of soil phosphorous content on microbiota are driven by the plant phosphate starvation response		4
9	The plant immune receptors NRG1.1 and ADR1 are calcium influx channels		3
8	Molecular call-and-response: how Salmonella learns the gospel from its host. <i>Trends in Microbiology</i> , 2003 , 11, 245-6; discussion 247-8	12.4	2
7	Con-Ca ²⁺ -tenating plant immune responses via calcium-permeable cation channels.. <i>New Phytologist</i> , 2022 ,	9.8	2
6	Two unequally redundant "helper" immune receptor families mediate Arabidopsis thaliana intracellular "sensor" immune receptor functions 2020 , 18, e3000783		
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