Jeffery L Dangl

List of Publications by Year in Descending Order

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	Con-Ca -tenating plant immune responses via calcium-permeable cation channels.. *New Phytologist*, **2022**,	9.8	2
100	Plant immune system activation is necessary for efficient root colonization by auxin-secreting beneficial bacteria. *Cell Host and Microbe*, **2021**, 29, 1507-1520.e4	23.4	10
99	Arabidopsis ADR1 helper NLR immune receptors localize and function at the plasma membrane in a phospholipid dependent manner. *New Phytologist*, **2021**, 232, 2440-2456	9.8	4
98	Signatures of antagonistic pleiotropy in a bacterial flagellin epitope. *Cell Host and Microbe*, **2021**, 29, 620-634.e9	23.4	12
97	A complex immune response to flagellin epitope variation in commensal communities. *Cell Host and Microbe*, **2021**, 29, 635-649.e9	23.4	21
96	Specific modulation of the root immune system by a community of commensal bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	17
95	Plant "helper" immune receptors are Ca-permeable nonselective cation channels. *Science*, **2021**, 373, 420-425	33.3	41
94	Coordination between microbiota and root endodermis supports plant mineral nutrient homeostasis. *Science*, **2021**, 371,	33.3	43
93	The EDS1-PAD4-ADR1 node mediates Arabidopsis pattern-triggered immunity. *Nature*, **2021**, 598, 495-499	50.4	28
92	The Plant Microbiome: From Ecology to Reductionism and Beyond. *Annual Review of Microbiology*, **2020**, 74, 81-100	17.5	83
91	A host target of a bacterial cysteine protease virulence effector plays a key role in convergent evolution of plant innate immune system receptors. *New Phytologist*, **2020**, 225, 1327-1342	9.8	18
90	A single bacterial genus maintains root growth in a complex microbiome. *Nature*, **2020**, 587, 103-108	50.4	70
89	CRAGE-Duet Facilitates Modular Assembly of Biological Systems for Studying Plant-Microbe Interactions. *ACS Synthetic Biology*, **2020**, 9, 2610-2615	5.7	5
88	Root Microbiome Modulates Plant Growth Promotion Induced by Low Doses of Glyphosate. *MSphere*, **2020**, 5,	5	8
87	Two unequally redundant "helper" immune receptor families mediate Arabidopsis thaliana intracellular "sensor"□immune receptor functions. *PLoS Biology*, **2020**, 18, e3000783	9.7	41
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81	Two unequally redundant "helper" immune receptor families mediate Arabidopsis thaliana intracellular "sensor" immune receptor functions **2020**, 18, e3000783		
80	TIR domains of plant immune receptors are NAD-cleaving enzymes that promote cell death. *Science* , **2019**, 365, 799-803	33.3	162
79	AvrRpm1 Functions as an ADP-Ribosyl Transferase to Modify NOI Domain-Containing Proteins, Including Arabidopsis and Soybean RPM1-Interacting Protein4. *Plant Cell*, **2019**, 31, 2664-2681	11.6	21
78	Beyond pathogens: microbiota interactions with the plant immune system. *Current Opinion in Microbiology*, **2019**, 49, 7-17	7.9	77
77	Help wanted: helper NLRs and plant immune responses. *Current Opinion in Plant Biology*, **2019**, 50, 82-94	9.9	107
76	A pentangular plant inflammasome. *Science*, **2019**, 364, 31-32	33.3	16
75	A Species-Wide Inventory of NLR Genes and Alleles in Arabidopsis thaliana. *Cell*, **2019**, 178, 1260-1272.e14	36.2	125
74	The effects of soil phosphorus content on plant microbiota are driven by the plant phosphate starvation response. *PLoS Biology*, **2019**, 17, e3000534	9.7	58
73	Multilab EcoFAB study shows highly reproducible physiology and depletion of soil metabolites by a model grass. *New Phytologist*, **2019**, 222, 1149-1160	9.8	22
72	Concerted Action of Evolutionarily Ancient and Novel SNARE Complexes in Flowering-Plant Cytokinesis. *Developmental Cell*, **2018**, 44, 500-511.e4	10.2	18
71	An integrated workflow for phenazine-modifying enzyme characterization. *Journal of Industrial Microbiology and Biotechnology*, **2018**, 45, 567-577	4.2	4
70	AtSERPIN1 is an inhibitor of the metacaspase AtMC1-mediated cell death and autocatalytic processing in planta. *New Phytologist*, **2018**, 218, 1156-1166	9.8	29
69	Design of synthetic bacterial communities for predictable plant phenotypes. *PLoS Biology*, **2018**, 16, e2003962	9.7	106
68	Elucidating Bacterial Gene Functions in the Plant Microbiome. *Cell Host and Microbe*, **2018**, 24, 475-485	23.4	71
67	Phevamine A, a small molecule that suppresses plant immune responses. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E9514-E9522	11.5	18

66	Large-scale replicated field study of maize rhizosphere identifies heritable microbes. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7368-7373	11.5	230
65	TIR-only protein RBA1 recognizes a pathogen effector to regulate cell death in. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2053-E2062	11.5	83
64	Pseudomonas syringae Type III Effector HopBB1 Promotes Host Transcriptional Repressor Degradation to Regulate Phytohormone Responses and Virulence. *Cell Host and Microbe*, **2017**, 21, 156-168	23.4	74
63	Activation of a Plant NLR Complex through Heteromeric Association with an Autoimmune Risk Variant of Another NLR. *Current Biology*, **2017**, 27, 1148-1160	6.3	53
62	Tradict enables accurate prediction of eukaryotic transcriptional states from 100 marker genes. *Nature Communications*, **2017**, 8, 15309	17.4	8
61	Understanding and exploiting plant beneficial microbes. *Current Opinion in Plant Biology*, **2017**, 38, 155-163	9.9	344
60	Root microbiota drive direct integration of phosphate stress and immunity. *Nature*, **2017**, 543, 513-518	50.4	369
59	Research priorities for harnessing plant microbiomes in sustainable agriculture. *PLoS Biology*, **2017**, 15, e2001793	9.7	402
58	Genomic features of bacterial adaptation to plants. *Nature Genetics*, **2017**, 50, 138-150	36.3	253
57	A gene encoding maize caffeoyl-CoA O-methyltransferase confers quantitative resistance to multiple pathogens. *Nature Genetics*, **2017**, 49, 1364-1372	36.3	112
56	Signaling from the plasma-membrane localized plant immune receptor RPM1 requires self-association of the full-length protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7385-E7394	11.5	63
55	Genome-wide identification of bacterial plant colonization genes. *PLoS Biology*, **2017**, 15, e2002860	9.7	101
54	Effector-Triggered Immune Response in Arabidopsis thaliana Is a Quantitative Trait. *Genetics*, **2016**, 204, 337-53	4	29
53	Host genotype and age shape the leaf and root microbiomes of a wild perennial plant. *Nature Communications*, **2016**, 7, 12151	17.4	420
52	Learning Microbial Interaction Networks from Metagenomic Count Data. *Journal of Computational Biology*, **2016**, 23, 526-35	1.7	31
51	Pseudomonas syringae type III effector HopAF1 suppresses plant immunity by targeting methionine recycling to block ethylene induction. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E3577-86	11.5	29
50	Arabidopsis AtMORC4 and AtMORC7 Form Nuclear Bodies and Repress a Large Number of Protein-Coding Genes. *PLoS Genetics*, **2016**, 12, e1005998	6	27
49	Genome-Wide Assessment of Efficiency and Specificity in CRISPR/Cas9 Mediated Multiple Site Targeting in Arabidopsis. *PLoS ONE*, **2016**, 11, e0162169	3.7	112

48	TNL-mediated immunity in Arabidopsis requires complex regulation of the redundant ADR1 gene family. *New Phytologist*, **2016**, 210, 960-73	9.8	63
47	Intracellular innate immune surveillance devices in plants and animals. *Science*, **2016**, 354,	33.3	493
46	PLANT MICROBIOME. Salicylic acid modulates colonization of the root microbiome by specific bacterial taxa. *Science*, **2015**, 349, 860-4	33.3	620
45	A truncated NLR protein, TIR-NBS2, is required for activated defense responses in the exo70B1 mutant. *PLoS Genetics*, **2015**, 11, e1004945	6	91
44	Molecular and functional analyses of a maize autoactive NB-LRR protein identify precise structural requirements for activity. *PLoS Pathogens*, **2015**, 11, e1004674	7.6	80
43	Corrigendum to Wagner et al.: Natural soil microbes alter flowering phenology and the intensity of selection on flowering time in a wild Arabidopsis relative. *Ecology Letters*, **2015**, 18, 218-220	10	7
42	Primer and platform effects on 16S rRNA tag sequencing. *Frontiers in Microbiology*, **2015**, 6, 771	5.7	314
41	Treasure your exceptions: unusual domains in immune receptors reveal host virulence targets. *Cell*, **2015**, 161, 957-960	56.2	22
40	Retromer contributes to immunity-associated cell death in Arabidopsis. *Plant Cell*, **2015**, 27, 463-79	11.6	51
39	The growth-defense pivot: crisis management in plants mediated by LRR-RK surface receptors. *Trends in Biochemical Sciences*, **2014**, 39, 447-56	10.3	100
38	MT-Toolbox: improved amplicon sequencing using molecule tags. *BMC Bioinformatics*, **2014**, 15, 284	3.6	17
37	Convergent targeting of a common host protein-network by pathogen effectors from three kingdoms of life. *Cell Host and Microbe*, **2014**, 16, 364-75	23.4	242
36	A plant phosphoswitch platform repeatedly targeted by type III effector proteins regulates the output of both tiers of plant immune receptors. *Cell Host and Microbe*, **2014**, 16, 484-94	23.4	71
35	Variable suites of non-effector genes are co-regulated in the type III secretion virulence regulon across the Pseudomonas syringae phylogeny. *PLoS Pathogens*, **2014**, 10, e1003807	7.6	20
34	Practical innovations for high-throughput amplicon sequencing. *Nature Methods*, **2013**, 10, 999-1002	21.6	461
33	Pivoting the plant immune system from dissection to deployment. *Science*, **2013**, 341, 746-51	33.3	737
32	Diversity and heritability of the maize rhizosphere microbiome under field conditions. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6548-53	11.5	1067
31	Genetic requirements for signaling from an autoactive plant NB-LRR intracellular innate immune receptor. *PLoS Genetics*, **2013**, 9, e1003465	6	74

30	Defining the core Arabidopsis thaliana root microbiome. *Nature*, **2012**, 488, 86-90	50.4	1613
29	AvrRpm1 missense mutations weakly activate RPS2-mediated immune response in Arabidopsis thaliana. *PLoS ONE*, **2012**, 7, e42633	3.7	19
28	Specific threonine phosphorylation of a host target by two unrelated type III effectors activates a host innate immune receptor in plants. *Cell Host and Microbe*, **2011**, 9, 125-36	23.4	139
27	Independently evolved virulence effectors converge onto hubs in a plant immune system network. *Science*, **2011**, 333, 596-601	33.3	601
26	Plant intracellular innate immune receptor Resistance to Pseudomonas syringae pv. maculicola 1 (RPM1) is activated at, and functions on, the plasma membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 7619-24	11.5	132
25	Expanded functions for a family of plant intracellular immune receptors beyond specific recognition of pathogen effectors. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16463-8	11.5	246
24	Extracellular leucine-rich repeats as a platform for receptor/coreceptor complex formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8503-7	11.5	120
23	Plant science. Nibbling at the plant cell nucleus. *Science*, **2007**, 315, 1088-9	33.3	12
22	Type III effector activation via nucleotide binding, phosphorylation, and host target interaction. *PLoS Pathogens*, **2007**, 3, e48	7.6	75
21	Two modes of pathogen recognition by plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 8575-6	11.5	77
20	The plant immune system. *Nature*, **2006**, 444, 323-9	50.4	8067
19	Phospholipase-dependent signalling during the AvrRpm1- and AvrRpt2-induced disease resistance responses in Arabidopsis thaliana. *Plant Journal*, **2006**, 47, 947-59	6.9	129
18	The Pseudomonas syringae effector AvrRpt2 cleaves its C-terminally acylated target, RIN4, from Arabidopsis membranes to block RPM1 activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 6496-501	11.5	197
17	Arabidopsis 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. *Plant Cell*, **2004**, 16, 2822-35	11.6	188
16	Crystal structures of the type III effector protein AvrPphF and its chaperone reveal residues required for plant pathogenesis. *Structure*, **2004**, 12, 1669-81	5.2	60
15	Arabidopsis RIN4 is a target of the type III virulence effector AvrRpt2 and modulates RPS2-mediated resistance. *Cell*, **2003**, 112, 379-89	56.2	731
14	Molecular call-and-response: how Salmonella learns the gospel from its host. *Trends in Microbiology* , **2003**, 11, 245-6; discussion 247-8	12.4	2
13	RIN4 interacts with Pseudomonas syringae type III effector molecules and is required for RPM1-mediated resistance in Arabidopsis. *Cell*, **2002**, 108, 743-54	56.2	883

12	Plant pathogens and integrated defence responses to infection. *Nature*, **2001**, 411, 826-33	50.4	2989
11	The disease resistance signaling components EDS1 and PAD4 are essential regulators of the cell death pathway controlled by LSD1 in Arabidopsis. *Plant Cell*, **2001**, 13, 2211-24	11.6	224
10	Eukaryotic fatty acylation drives plasma membrane targeting and enhances function of several type III effector proteins from Pseudomonas syringae. *Cell*, **2000**, 101, 353-63	56.2	284
9	Suppressors of the arabidopsis lsd5 cell death mutation identify genes involved in regulating disease resistance responses. *Genetics*, **1999**, 151, 305-19	4	36
8	Intragenic recombination and diversifying selection contribute to the evolution of downy mildew resistance at the RPP8 locus of Arabidopsis. *Plant Cell*, **1998**, 10, 1861-74	11.6	381
7	The hypersensitive response and the induction of cell death in plants. *Cell Death and Differentiation* , **1997**, 4, 671-83	12.7	331
6	Coiled-coil and RPW8-type immune receptors function at the plasma membrane in a phospholipid dependent manner		4
5	Arabidopsis cell surface LRR immune receptor signaling through the EDS1-PAD4-ADR1 node		12
4	The Arabidopsis thaliana pan-NLRome		6
3	The effects of soil phosphorous content on microbiota are driven by the plant phosphate starvation response		4
2	A single bacterial genus maintains root development in a complex microbiome		8
1	The plant immune receptors NRG1.1 and ADR1 are calcium influx channels		3