Adam J Bogdanove

List of Publications by Year
in descending order

66 papers	11,953 citations	109321 35 h-index	110387 64 g-index
77 all docs	77 docs citations	77 times ranked	10290 citing authors

#	Article	IF	Citations
1	Efficient design and assembly of custom TALEN and other TAL effector-based constructs for DNA targeting. Nucleic Acids Research, 2011, 39, e82-e82.	14.5	1,793
2	A Simple Cipher Governs DNA Recognition by TAL Effectors. Science, 2009, 326, 1501-1501.	12.6	1,710
3	Targeting DNA Double-Strand Breaks with TAL Effector Nucleases. Genetics, 2010, 186, 757-761.	2.9	1,618
4	TAL Effectors: Customizable Proteins for DNA Targeting. Science, 2011, 333, 1843-1846.	12.6	884
5	Xanthomonas oryzae pathovars: model pathogens of a model crop. Molecular Plant Pathology, 2006, 7, 303-324.	4.2	741
6	TAL Effector-Nucleotide Targeter (TALE-NT) 2.0: tools for TAL effector design and target prediction. Nucleic Acids Research, 2012, 40, W117-W122.	14.5	549
7	The Crystal Structure of TAL Effector PthXo1 Bound to Its DNA Target. Science, 2012, 335, 716-719.	12.6	505
8	Transcription Activator-Like Effector Nucleases Enable Efficient Plant Genome Engineering Â Â. Plant Physiology, 2012, 161, 20-27.	4.8	407
9	TAL effectors: finding plant genes for disease and defense. Current Opinion in Plant Biology, 2010, 13, 394-401.	7.1	383
10	Genome sequence and rapid evolution of the rice pathogen Xanthomonas oryzae pv. oryzae PXO99A. BMC Genomics, 2008, 9, 204.	2.8	327
11	Unified nomenclature for broadly conserved hrp genes of phytopathogenic bacteria. Molecular Microbiology, 1996, 20, 681-683.	2.5	232
12	Host-Induced Gene Silencing in Barley Powdery Mildew Reveals a Class of Ribonuclease-Like Effectors. Molecular Plant-Microbe Interactions, 2013, 26, 633-642.	2.6	190
13	Two New Complete Genome Sequences Offer Insight into Host and Tissue Specificity of Plant Pathogenic Xanthomonas spp. Journal of Bacteriology, 2011, 193, 5450-5464.	2.2	189
14	TAL effector driven induction of a SWEET gene confers susceptibility to bacterial blight of cotton. Nature Communications, 2017, 8, 15588.	12.8	144
15	Code-Assisted Discovery of TAL Effector Targets in Bacterial Leaf Streak of Rice Reveals Contrast with Bacterial Blight and a Novel Susceptibility Gene. PLoS Pathogens, 2014, 10, e1003972.	4.7	137
16	<i>Erwinia amylovora</i> Secretes DspE, a Pathogenicity Factor and Functional AvrE Homolog, through the Hrp (Type III Secretion) Pathway. Journal of Bacteriology, 1998, 180, 2244-2247.	2.2	128
17	TAL effectors: highly adaptable phytobacterial virulence factors and readily engineered DNA-targeting proteins. Trends in Cell Biology, 2013, 23, 390-398.	7.9	120
18	Genome assembly and characterization of a complex zfBED-NLR gene-containing disease resistance locus in Carolina Gold Select rice with Nanopore sequencing. PLoS Genetics, 2020, 16, e1008571.	3.5	112

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19	TAL effectors: function, structure, engineering and applications. Current Opinion in Structural Biology, 2013, 23, 93-99.	5.7	105
20	TAL effectors and activation of predicted host targets distinguish Asian from African strains of the rice pathogen Xanthomonas oryzae pv. oryzicola while strict conservation suggests universal importance of five TAL effectors. Frontiers in Plant Science, 2015, 6, 536.	3.6	105
21	Addition of transcription activatorâ€like effector binding sites to a pathogen strainâ€specific rice bacterial blight resistance gene makes it effective against additional strains and against bacterial leaf streak. New Phytologist, 2012, 195, 883-893.	7.3	103
22	Transcription activatorâ€like (<scp>TAL</scp>) effectors targeting <i>Os<scp>SWEET</scp></i> genes enhance virulence on diverse rice (<i>Oryza sativa</i>) varieties when expressed individually in a <scp>TAL</scp> effectorâ€deficient strain of <i>Xanthomonas oryzae</i>. New Phytologist, 2012, 196, 1197-1207.	7.3	91
23	Suppression of Xo1-Mediated Disease Resistance in Rice by a Truncated, Non-DNA-Binding TAL Effector of Xanthomonas oryzae. Frontiers in Plant Science, 2016, 7, 1516.	3.6	88
24	Single molecule real-time sequencing of Xanthomonas oryzae genomes reveals a dynamic structure and complex TAL (transcription activator-like) effector gene relationships. Microbial Genomics, 2015, 1, .	2.0	86
25	Functional analysis of African Xanthomonas oryzae pv. oryzae TALomes reveals a new susceptibility gene in bacterial leaf blight of rice. PLoS Pathogens, 2018, 14, e1007092.	4.7	86
26	Novel Candidate Virulence Factors in Rice Pathogen <i>Xanthomonas oryzae</i> pv. oryzicola as Revealed by Mutational Analysis. Applied and Environmental Microbiology, 2007, 73, 8023-8027.	3.1	82
27	Effector Diversification Contributes to Xanthomonas oryzae pv. oryzae Phenotypic Adaptation in a Semi-Isolated Environment. Scientific Reports, 2016, 6, 34137.	3.3	76
28	A resistance locus in the American heirloom rice variety Carolina Gold Select is triggered by <scp>TAL</scp> effectors with diverse predicted targets and is effective against African strains of <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>. Plant Journal, 2016, 87, 472-483.	5.7	76
29	A Reference Genome Sequence for Giant Sequoia. G3: Genes, Genomes, Genetics, 2020, 10, 3907-3919.	1.8	67
30	Counting on Crossovers: Controlled Recombination for Plant Breeding. Trends in Plant Science, 2020, 25, 455-465.	8.8	65
31	Inhibition of Resistance Gene-Mediated Defense in Rice by Xanthomonas oryzae pv. oryzicola. Molecular Plant-Microbe Interactions, 2006, 19, 240-249.	2.6	58
32	Convergent Evolution of Effector Protease Recognition by<i>Arabidopsis</i>and Barley. Molecular Plant-Microbe Interactions, 2019, 32, 550-565.	2.6	47
33	The effect of increasing numbers of repeats on TAL effector DNA binding specificity. Nucleic Acids Research, 2017, 45, 6960-6970.	14.5	41
34	Protein-protein interactions in pathogen recognition by plants. Plant Molecular Biology, 2002, 50, 981-989.	3.9	40
35	TAL Effector Specificity for base 0 of the DNA Target Is AlteredÂin a Complex, Effector- and Assay-Dependent MannerÂby Substitutions forÂthe Tryptophan in Cryptic Repeat â€“1. PLoS ONE, 2013, 8, e82120.	2.5	37
36	Complete Genome Sequencing and Targeted Mutagenesis Reveal Virulence Contributions of Tal2 and Tal4b of Xanthomonas translucens pv. undulosa ICMP11055 in Bacterial Leaf Streak of Wheat. Frontiers in Microbiology, 2017, 8, 1488.	3.5	37

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37	Engineering altered proteinâ€"DNA recognition specificity. Nucleic Acids Research, 2018, 46, 4845-4871.	14.5	36
38	Broadly Conserved Fungal Effector BEC1019 Suppresses Host Cell Death and Enhances Pathogen Virulence in Powdery Mildew of Barley (<i>Hordeum vulgare</i> L.) (Retracted). Molecular Plant-Microbe Interactions, 2015, 28, 968-983.	2.6	33
39	Spelling Changes and Fluorescent Tagging With Prime Editing Vectors for Plants. Frontiers in Genome Editing, 2021, 3, 617553.	5.2	30
40	A TAL effector-like protein of an endofungal bacterium increases the stress tolerance and alters the transcriptome of the host. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17122-17129.	7.1	29
41	Tools for TAL effector design and target prediction. Methods, 2014, 69, 121-127.	3.8	28
42	An <i>ent</i>â€kaureneâ€derived diterpenoid virulence factor from <i><scp>X</scp>anthomonas oryzae</i> pv.Â<i>oryzicola</i>. New Phytologist, 2015, 206, 295-302.	7.3	28
43	TAL Effectors Drive Transcription Bidirectionally in Plants. Molecular Plant, 2017, 10, 285-296.	8.3	28
44	Two ancestral genes shaped the <i>Xanthomonas campestris </i><scp>TAL</scp> effector gene repertoire. New Phytologist, 2018, 219, 391-407.	7.3	26
45	The I-TevI Nuclease and Linker Domains Contribute to the Specificity of Monomeric TALENs. G3: Genes, Genomes, Genetics, 2014, 4, 1155-1165.	1.8	23
46	Genetic mapping of a major gene in triticale conferring resistance to bacterial leaf streak. Theoretical and Applied Genetics, 2018, 131, 649-658.	3.6	23
47	Cloning of the Rice <i>Xo1</i> Resistance Gene and Interaction of the Xo1 Protein with the Defense-Suppressing <i>Xanthomonas</i> Effector Tal2h. Molecular Plant-Microbe Interactions, 2020, 33, 1189-1195.	2.6	23
48	Transfer of <i>Xanthomonas campestris</i> pv. <i>arecae</i> and <i>X. campestris</i> pv. <i>musacearum</i> to <i>X. vasicola</i> (Vauterin) as <i>X. vasicola</i> pv. <i>arecae</i> comb. nov. and <i>X. vasicola</i> pv. <i>musacearum</i> comb. nov. and Description of <i>X. vasicola</i> pv. <i>vasculorum</i> pv. nov.. Phytopathology, 2020, 110, 1153-1160.	2.2	23
49	daTALbase: A Database for Genomic and Transcriptomic Data Related to TAL Effectors. Molecular Plant-Microbe Interactions, 2018, 31, 471-480.	2.6	22
50	A transcription activatorâ€like effector from <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> elicits doseâ€dependent resistance in rice. Molecular Plant Pathology, 2017, 18, 55-66.	4.2	20
51	Xanthomonas campestris Pathovars. Trends in Microbiology, 2021, 29, 182-183.	7.7	18
52	Principles and applications of TAL effectors for plant physiology and metabolism. Current Opinion in Plant Biology, 2014, 19, 99-104.	7.1	17
53	A Strain of an Emerging Indian Xanthomonas oryzae pv. oryzae Pathotype Defeats the Rice Bacterial Blight Resistance Gene xa13 Without Inducing a Clade III SWEET Gene and Is Nearly Identical to a Recent Thai Isolate. Frontiers in Microbiology, 2018, 9, 2703.	3.5	17
54	Pto update: recent progress on an ancient plant defence response signalling pathway. Molecular Plant Pathology, 2002, 3, 283-288.	4.2	12

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55	Complete Genome Sequences of Xanthomonas axonopodis pv. glycines Isolates from the United States and Thailand Reveal Conserved Transcription Activator-Like Effectors. Genome Biology and Evolution, 2019, 11, 1380-1384.	2.5	11
56	An xa5 Resistance Gene-Breaking Indian Strain of the Rice Bacterial Blight Pathogen Xanthomonas oryzae pv. oryzae Is Nearly Identical to a Thai Strain. Frontiers in Microbiology, 2020, 11, 579504.	3.5	8
57	Genomic insights advance the fight against black rot of crucifers. Journal of General Plant Pathology, 2021, 87, 127-136.	1.0	3
58	Online Tools for TALEN Design. Methods in Molecular Biology, 2016, 1338, 43-47.	0.9	3
59	An atypical class of non-coding small RNAs is produced in rice leaves upon bacterial infection. Scientific Reports, 2021, 11, 24141.	3.3	3
60	Complete Genome Resource of <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> GX01 Isolated in South China. Molecular Plant-Microbe Interactions, 2022, , MPMI10210259A.	2.6	3
61	Achieving Controlled Recombination with Targeted Cleavage and Epigenetic Modifiers. Trends in Plant Science, 2020, 25, 513-514.	8.8	2
62	A Confounding Effect of Bacterial Titer in a Type III Deliveryâ€œBased Assay of Eukaryotic Effector Function. Molecular Plant-Microbe Interactions, 2018, 31, 1115-1116.	2.6	1
63	TAL Effectors with Avirulence Activity in African Strains of Xanthomonas oryzae pv. oryzae. Rice, 2022, 15, 9.	4.0	1
64	Cruciferous Weed Isolates of <i>Xanthomonas campestris</i> Yield Insight into Pathovar Genomic Relationships and Genetic Determinants of Host and Tissue Specificity. Molecular Plant-Microbe Interactions, 2022, 35, 791-802.	2.6	1
65	Development of a Web Course on Gene Therapy by the International Consortium of Gene Therapy. Molecular Therapy, 2014, 22, 482.	8.2	0
66	Genome Sequence of Xanthomonas campestris Strain FDWSRU 18048, an Emerging Pathogen of Nonnative, Invasive Garlic Mustard (<i>Alliaria petiolata</i>). Microbiology Resource Announcements, 2022, 11, e0094221.	0.6	0