

Adam J Bogdanove

List of Publications by Year in descending order

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66
papers

11,953
citations

109137

35
h-index

110170

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. <i>Nucleic Acids Research</i> , 2011, 39, e82-e82.	6.5	1,793
2	A Simple Cipher Governs DNA Recognition by TAL Effectors. <i>Science</i> , 2009, 326, 1501-1501.	6.0	1,710
3	Targeting DNA Double-Strand Breaks with TAL Effector Nucleases. <i>Genetics</i> , 2010, 186, 757-761.	1.2	1,618
4	TAL Effectors: Customizable Proteins for DNA Targeting. <i>Science</i> , 2011, 333, 1843-1846.	6.0	884
5	<i>Xanthomonas oryzae</i> pathovars: model pathogens of a model crop. <i>Molecular Plant Pathology</i> , 2006, 7, 303-324.	2.0	741
6	TAL Effector-Nucleotide Targeter (TALE-NT) 2.0: tools for TAL effector design and target prediction. <i>Nucleic Acids Research</i> , 2012, 40, W117-W122.	6.5	549
7	The Crystal Structure of TAL Effector PthXo1 Bound to Its DNA Target. <i>Science</i> , 2012, 335, 716-719.	6.0	505
8	Transcription Activator-Like Effector Nucleases Enable Efficient Plant Genome Engineering. <i>Plant Physiology</i> , 2012, 161, 20-27.	2.3	407
9	TAL effectors: finding plant genes for disease and defense. <i>Current Opinion in Plant Biology</i> , 2010, 13, 394-401.	3.5	383
10	Genome sequence and rapid evolution of the rice pathogen <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> PXO99A. <i>BMC Genomics</i> , 2008, 9, 204.	1.2	327
11	Unified nomenclature for broadly conserved hrp genes of phytopathogenic bacteria. <i>Molecular Microbiology</i> , 1996, 20, 681-683.	1.2	232
12	Host-Induced Gene Silencing in Barley Powdery Mildew Reveals a Class of Ribonuclease-Like Effectors. <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 633-642.	1.4	190
13	Two New Complete Genome Sequences Offer Insight into Host and Tissue Specificity of Plant Pathogenic <i>Xanthomonas</i> spp. <i>Journal of Bacteriology</i> , 2011, 193, 5450-5464.	1.0	189
14	TAL effector driven induction of a SWEET gene confers susceptibility to bacterial blight of cotton. <i>Nature Communications</i> , 2017, 8, 15588.	5.8	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. <i>PLoS Pathogens</i> , 2014, 10, e1003972.	2.1	137
16	<i>Erwinia amylovora</i> Secretes DspE, a Pathogenicity Factor and Functional AvrE Homolog, through the Hrp (Type III Secretion) Pathway. <i>Journal of Bacteriology</i> , 1998, 180, 2244-2247.	1.0	128
17	TAL effectors: highly adaptable phytobacterial virulence factors and readily engineered DNA-targeting proteins. <i>Trends in Cell Biology</i> , 2013, 23, 390-398.	3.6	120
18	Genome assembly and characterization of a complex zfBED-NLR gene-containing disease resistance locus in Carolina Gold Select rice with Nanopore sequencing. <i>PLoS Genetics</i> , 2020, 16, e1008571.	1.5	112

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19	TAL effectors: function, structure, engineering and applications. <i>Current Opinion in Structural Biology</i> , 2013, 23, 93-99.	2.6	105
20	TAL effectors and activation of predicted host targets distinguish Asian from African strains of the rice pathogen <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> while strict conservation suggests universal importance of five TAL effectors. <i>Frontiers in Plant Science</i> , 2015, 6, 536.	1.7	105
21	Addition of transcription activator-like effector binding sites to a pathogen strain-specific rice bacterial blight resistance gene makes it effective against additional strains and against bacterial leaf streak. <i>New Phytologist</i> , 2012, 195, 883-893.	3.5	103
22	Transcription activator-like (TAL) effectors targeting <i>Oryza sativa</i> SWEET genes enhance virulence on diverse rice (<i>Oryza sativa</i>) varieties when expressed individually in a TAL effector-deficient strain of <i>Xanthomonas oryzae</i> . <i>New Phytologist</i> , 2012, 196, 1197-1207.	3.5	91
23	Suppression of Xo1-Mediated Disease Resistance in Rice by a Truncated, Non-DNA-Binding TAL Effector of <i>Xanthomonas oryzae</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1516.	1.7	88
24	Single molecule real-time sequencing of <i>Xanthomonas oryzae</i> genomes reveals a dynamic structure and complex TAL (transcription activator-like) effector gene relationships. <i>Microbial Genomics</i> , 2015, 1, .	1.0	86
25	Functional analysis of African <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> TALomes reveals a new susceptibility gene in bacterial leaf blight of rice. <i>PLoS Pathogens</i> , 2018, 14, e1007092.	2.1	86
26	Novel Candidate Virulence Factors in Rice Pathogen <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> as Revealed by Mutational Analysis. <i>Applied and Environmental Microbiology</i> , 2007, 73, 8023-8027.	1.4	82
27	Effector Diversification Contributes to <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> Phenotypic Adaptation in a Semi-Isolated Environment. <i>Scientific Reports</i> , 2016, 6, 34137.	1.6	76
28	A resistance locus in the American heirloom rice variety Carolina Gold Select is triggered by TAL effectors with diverse predicted targets and is effective against African strains of <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> . <i>Plant Journal</i> , 2016, 87, 472-483.	2.8	76
29	A Reference Genome Sequence for Giant Sequoia. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 3907-3919.	0.8	67
30	Counting on Crossovers: Controlled Recombination for Plant Breeding. <i>Trends in Plant Science</i> , 2020, 25, 455-465.	4.3	65
31	Inhibition of Resistance Gene-Mediated Defense in Rice by <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> . <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 240-249.	1.4	58
32	Convergent Evolution of Effector Protease Recognition by <i>Arabidopsis</i> and Barley. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 550-565.	1.4	47
33	The effect of increasing numbers of repeats on TAL effector DNA binding specificity. <i>Nucleic Acids Research</i> , 2017, 45, 6960-6970.	6.5	41
34	Protein-protein interactions in pathogen recognition by plants. <i>Plant Molecular Biology</i> , 2002, 50, 981-989.	2.0	40
35	TAL Effector Specificity for base 0 of the DNA Target Is Altered in a Complex, Effector- and Assay-Dependent Manner by Substitutions for the Tryptophan in Cryptic Repeat "1. <i>PLoS ONE</i> , 2013, 8, e82120.	1.1	37
36	Complete Genome Sequencing and Targeted Mutagenesis Reveal Virulence Contributions of Tal2 and Tal4b of <i>Xanthomonas translucens</i> pv. <i>undulosa</i> ICMP11055 in Bacterial Leaf Streak of Wheat. <i>Frontiers in Microbiology</i> , 2017, 8, 1488.	1.5	37

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37	Engineering altered proteinâ€œDNA recognition specificity. <i>Nucleic Acids Research</i> , 2018, 46, 4845-4871.	6.5	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). <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 968-983.	1.4	33
39	Spelling Changes and Fluorescent Tagging With Prime Editing Vectors for Plants. <i>Frontiers in Genome Editing</i> , 2021, 3, 617553.	2.7	30
40	A TAL effector-like protein of an endofungal bacterium increases the stress tolerance and alters the transcriptome of the host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17122-17129.	3.3	29
41	Tools for TAL effector design and target prediction. <i>Methods</i> , 2014, 69, 121-127.	1.9	28
42	An entkaureneâ€œderived diterpenoid virulence factor from <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> . <i>New Phytologist</i> , 2015, 206, 295-302.	3.5	28
43	TAL Effectors Drive Transcription Bidirectionally in Plants. <i>Molecular Plant</i> , 2017, 10, 285-296.	3.9	28
44	Two ancestral genes shaped the <i>Xanthomonas campestris</i> TAL effector gene repertoire. <i>New Phytologist</i> , 2018, 219, 391-407.	3.5	26
45	The I-TevI Nuclease and Linker Domains Contribute to the Specificity of Monomeric TALENs. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1155-1165.	0.8	23
46	Genetic mapping of a major gene in triticale conferring resistance to bacterial leaf streak. <i>Theoretical and Applied Genetics</i> , 2018, 131, 649-658.	1.8	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. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 1189-1195.	1.4	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.. <i>Phytopathology</i> , 2020, 110, 1153-1160.	1.1	23
49	daTALbase: A Database for Genomic and Transcriptomic Data Related to TAL Effectors. <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 471-480.	1.4	22
50	A transcription activatorâ€œlike effector from <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> elicits doseâ€œdependent resistance in rice. <i>Molecular Plant Pathology</i> , 2017, 18, 55-66.	2.0	20
51	<i>Xanthomonas campestris</i> Pathovars. <i>Trends in Microbiology</i> , 2021, 29, 182-183.	3.5	18
52	Principles and applications of TAL effectors for plant physiology and metabolism. <i>Current Opinion in Plant Biology</i> , 2014, 19, 99-104.	3.5	17
53	A Strain of an Emerging Indian <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> 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. <i>Frontiers in Microbiology</i> , 2018, 9, 2703.	1.5	17
54	Pto update: recent progress on an ancient plant defence response signalling pathway. <i>Molecular Plant Pathology</i> , 2002, 3, 283-288.	2.0	12

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55	Complete Genome Sequences of <i>Xanthomonas axonopodis</i> pv. <i>glycines</i> Isolates from the United States and Thailand Reveal Conserved Transcription Activator-Like Effectors. <i>Genome Biology and Evolution</i> , 2019, 11, 1380-1384.	1.1	11
56	An xa5 Resistance Gene-Breaking Indian Strain of the Rice Bacterial Blight Pathogen <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> Is Nearly Identical to a Thai Strain. <i>Frontiers in Microbiology</i> , 2020, 11, 579504.	1.5	8
57	Genomic insights advance the fight against black rot of crucifers. <i>Journal of General Plant Pathology</i> , 2021, 87, 127-136.	0.6	3
58	Online Tools for TALEN Design. <i>Methods in Molecular Biology</i> , 2016, 1338, 43-47.	0.4	3
59	An atypical class of non-coding small RNAs is produced in rice leaves upon bacterial infection. <i>Scientific Reports</i> , 2021, 11, 24141.	1.6	3
60	Complete Genome Resource of <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> GX01 Isolated in South China. <i>Molecular Plant-Microbe Interactions</i> , 2022, , MPMI10210259A.	1.4	3
61	Achieving Controlled Recombination with Targeted Cleavage and Epigenetic Modifiers. <i>Trends in Plant Science</i> , 2020, 25, 513-514.	4.3	2
62	A Confounding Effect of Bacterial Titer in a Type III Delivery-Based Assay of Eukaryotic Effector Function. <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 1115-1116.	1.4	1
63	TAL Effectors with Avirulence Activity in African Strains of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> . <i>Rice</i> , 2022, 15, 9.	1.7	1
64	Cruciferous Weed Isolates of <i>Xanthomonas campestris</i> Yield Insight into Pathovar Genomic Relationships and Genetic Determinants of Host and Tissue Specificity. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 791-802.	1.4	1
65	Development of a Web Course on Gene Therapy by the International Consortium of Gene Therapy. <i>Molecular Therapy</i> , 2014, 22, 482.	3.7	0
66	Genome Sequence of <i>Xanthomonas campestris</i> Strain FDWSRU 18048, an Emerging Pathogen of Nonnative, Invasive Garlic Mustard (<i>Alliaria petiolata</i>). <i>Microbiology Resource Announcements</i> , 2022, 11, e0094221.	0.3	0