

Sambasivam Periyannan

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,971
citations

430874

18
h-index

526287

27
g-index

29
all docs

29
docs citations

29
times ranked

2487
citing authors

#	ARTICLE	IF	CITATIONS
1	A recently evolved hexose transporter variant confers resistance to multiple pathogens in wheat. <i>Nature Genetics</i> , 2015, 47, 1494-1498.	21.4	575
2	Rapid cloning of disease-resistance genes in plants using mutagenesis and sequence capture. <i>Nature Biotechnology</i> , 2016, 34, 652-655.	17.5	383
3	The Gene <i>Sr33</i> , an Ortholog of Barley <i>Mla</i> Genes, Encodes Resistance to Wheat Stem Rust Race Ug99. <i>Science</i> , 2013, 341, 786-788.	12.6	370
4	Resistance gene cloning from a wild crop relative by sequence capture and association genetics. <i>Nature Biotechnology</i> , 2019, 37, 139-143.	17.5	280
5	Lr68: a new gene conferring slow rusting resistance to leaf rust in wheat. <i>Theoretical and Applied Genetics</i> , 2012, 124, 1475-1486.	3.6	248
6	The wheat Sr50 gene reveals rich diversity at a cereal disease resistance locus. <i>Nature Plants</i> , 2015, 1, 15186.	9.3	209
7	Cytosolic activation of cell death and stem rust resistance by cereal MLA-family NLR proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10204-10209.	7.1	97
8	A five-transgene cassette confers broad-spectrum resistance to a fungal rust pathogen in wheat. <i>Nature Biotechnology</i> , 2021, 39, 561-566.	17.5	94
9	A rapid phenotyping method for adult plant resistance to leaf rust in wheat. <i>Plant Methods</i> , 2016, 12, 17.	4.3	86
10	An overview of genetic rust resistance: From broad to specific mechanisms. <i>PLoS Pathogens</i> , 2017, 13, e1006380.	4.7	81
11	A highly differentiated region of wheat chromosome 7AL encodes a <i>Pm1a</i> immune receptor that recognizes its corresponding <i>AvrPm1a</i> effector from <i>Blumeria graminis</i> . <i>New Phytologist</i> , 2021, 229, 2812-2826.	7.3	72
12	Identification of a robust molecular marker for the detection of the stem rust resistance gene Sr45 in common wheat. <i>Theoretical and Applied Genetics</i> , 2014, 127, 947-955.	3.6	62
13	A Simple Method for Comparing Fungal Biomass in Infected Plant Tissues. <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 658-667.	2.6	54
14	A robust molecular marker for the detection of shortened introgressed segment carrying the stem rust resistance gene Sr22 in common wheat. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1-7.	3.6	48
15	Molecular genetics of leaf rust resistance in wheat and barley. <i>Theoretical and Applied Genetics</i> , 2020, 133, 2035-2050.	3.6	46
16	A recombined Sr26 and Sr61 disease resistance gene stack in wheat encodes unrelated NLR genes. <i>Nature Communications</i> , 2021, 12, 3378.	12.8	39
17	Physical separation of haplotypes in dikaryons allows benchmarking of phasing accuracy in Nanopore and HiFi assemblies with Hi-C data. <i>Genome Biology</i> , 2022, 23, 84.	8.8	31
18	Mining Vavilov's Treasure Chest of Wheat Diversity for Adult Plant Resistance to <i>Puccinia triticina</i> . <i>Plant Disease</i> , 2017, 101, 317-323.	1.4	28

#	ARTICLE	IF	CITATIONS
19	Sustaining global agriculture through rapid detection and deployment of genetic resistance to deadly crop diseases. <i>New Phytologist</i> , 2018, 219, 45-51.	7.3	25
20	BED domain-containing NLR from wild barley confers resistance to leaf rust. <i>Plant Biotechnology Journal</i> , 2021, 19, 1206-1215.	8.3	24
21	Isolation of Wheat Genomic DNA for Gene Mapping and Cloning. <i>Methods in Molecular Biology</i> , 2017, 1659, 207-213.	0.9	21
22	<i>Aegilops tauschii</i> Introgressions in Wheat. , 2015, , 245-271.		19
23	The wheat <i>Sr22</i> , <i>Sr33</i> , <i>Sr35</i> and <i>Sr45</i> genes confer resistance against stem rust in barley. <i>Plant Biotechnology Journal</i> , 2021, 19, 273-284.	8.3	14
24	Generation of Loss-of-Function Mutants for Wheat Rust Disease Resistance Gene Cloning. <i>Methods in Molecular Biology</i> , 2017, 1659, 199-205.	0.9	12
25	A Chromosome Scale Assembly of an Australian <i>Puccinia striiformis</i> f. sp. <i>tritici</i> Isolate of the <i>PstS1</i> Lineage. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 293-296.	2.6	12
26	Development and validation of molecular markers linked with stem rust resistance gene <i>Sr13</i> in durum wheat. <i>Crop and Pasture Science</i> , 2014, 65, 74.	1.5	11
27	Simple Quantification of In Planta Fungal Biomass. <i>Methods in Molecular Biology</i> , 2014, 1127, 159-172.	0.9	6
28	Haplotype variants of <i>Sr46</i> in <i>Aegilops tauschii</i> , the diploid D genome progenitor of wheat. <i>Theoretical and Applied Genetics</i> , 2022, 135, 2627-2639.	3.6	2