Andrea Sanchez-Vallet

List of Publications by Year
in descending order

43 papers	4,718 citations	201674 27 h-index	345221 36 g-index
50 all docs	50 docs citations	50 times ranked	5594 citing authors

#	Article	IF	Citations
1	A Glucosinolate Metabolism Pathway in Living Plant Cells Mediates Broad-Spectrum Antifungal Defense. Science, 2009, 323, 101-106.	12.6	927
2	Disease resistance or growth: the role of plant hormones in balancing immune responses and fitness costs. Frontiers in Plant Science, 2013, 4, 155.	3.6	505
3	Impairment of Cellulose Synthases Required for Arabidopsis Secondary Cell Wall Formation Enhances Disease Resistance. Plant Cell, 2007, 19, 890-903.	6.6	380
4	The battle for chitin recognition in plant-microbe interactions. FEMS Microbiology Reviews, 2015, 39, 171-183.	8.6	238
5	Fungal effector Ecp6 outcompetes host immune receptor for chitin binding through intrachain LysM dimerization. ELife, 2013, 2, e00790.	6.0	217
6	Repression of the Auxin Response Pathway Increases Arabidopsis Susceptibility to Necrotrophic Fungi. Molecular Plant, 2008, 1, 496-509.	8.3	208
7	The Genome Biology of Effector Gene Evolution in Filamentous Plant Pathogens. Annual Review of Phytopathology, 2018, 56, 21-40.	7.8	195
8	Tryptophan-derived secondary metabolites in Arabidopsis thaliana confer non-host resistance to necrotrophic Plectosphaerella cucumerina fungi. Plant Journal, 2010, 63, no-no.	5.7	191
9	A fungal wheat pathogen evolved host specialization by extensive chromosomal rearrangements. ISME Journal, 2017, 11, 1189-1204.	9.8	166
10	Regulation of Pathogen-Triggered Tryptophan Metabolism in Arabidopsis thaliana by MYB Transcription Factors and Indole Glucosinolate Conversion Products. Molecular Plant, 2016, 9, 682-695.	8.3	149
11	Arabidopsis Heterotrimeric G-protein Regulates Cell Wall Defense and Resistance to Necrotrophic Fungi. Molecular Plant, 2012, 5, 98-114.	8.3	141
12	Disruption of Abscisic Acid Signaling Constitutively Activates Arabidopsis Resistance to the Necrotrophic Fungus<i>Plectosphaerella cucumerina</i>Â Â. Plant Physiology, 2012, 160, 2109-2124.	4.8	132
13	<i>Verticillium dahliae</i> LysM effectors differentially contribute to virulence on plant hosts. Molecular Plant Pathology, 2017, 18, 596-608.	4.2	122
14	A fungal avirulence factor encoded in a highly plastic genomic region triggers partial resistance to septoria tritici blotch. New Phytologist, 2018, 219, 1048-1061.	7.3	103
15	Is Zymoseptoria tritici a hemibiotroph?. Fungal Genetics and Biology, 2015, 79, 29-32.	2.1	95
16	The role of chitin detection in plantâ€“pathogen interactions. Microbes and Infection, 2011, 13, 1168-1176.	1.9	90
17	<i>Arabidopsis</i>cell wall composition determines disease resistance specificity and fitness. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	88
18	Quantitative trait locus mapping reveals complex genetic architecture of quantitative virulence in the wheat pathogen <i>Zymoseptoria tritici</i>. Molecular Plant Pathology, 2018, 19, 201-216.	4.2	76

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19	Transposable element insertions shape gene regulation and melanin production in a fungal pathogen of wheat. BMC Biology, 2018, 16, 78.	3.8	70
20	Glutathione Transferase U13 Functions in Pathogen-Triggered Glucosinolate Metabolism. Plant Physiology, 2018, 176, 538-551.	4.8	69
21	Cell wallâ€derived mixedâ€linked Î²â€1,3/1,4â€glucans trigger immune responses and disease resistance in plants. Plant Journal, 2021, 106, 601-615.	5.7	69
22	Alteration of cell wall xylan acetylation triggers defense responses that counterbalance the immune deficiencies of plants impaired in the Î²â€subunit of the heterotrimeric Gâ€protein. Plant Journal, 2017, 92, 386-399.	5.7	68
23	A wheat cysteine-rich receptor-like kinase confers broad-spectrum resistance against Septoria tritici blotch. Nature Communications, 2021, 12, 433.	12.8	55
24	Suppression of Plant Immunity by Fungal Chitinase-like Effectors. Current Biology, 2018, 28, 3023-3030.e5.	3.9	53
25	A secreted LysM effector protects fungal hyphae through chitin-dependent homodimer polymerization. PLoS Pathogens, 2020, 16, e1008652.	4.7	44
26	Synthetic and structural studies onPyrularia puberathionin: a single-residue mutation enhances activity against Gram-negative bacteria. FEBS Letters, 2003, 536, 215-219.	2.8	43
27	Nature's genetic screens: using genomeâ€wide association studies for effector discovery. Molecular Plant Pathology, 2018, 19, 3-6.	4.2	34
28	Structural Dissection of a Highly Knotted Peptide Reveals Minimal Motif with Antimicrobial Activity. Journal of Biological Chemistry, 2005, 280, 1661-1668.	3.4	32
29	Chromatin Dynamics Contribute to the Spatiotemporal Expression Pattern of Virulence Genes in a Fungal Plant Pathogen. MBio, 2020, 11, .	4.1	29
30	A Minimalist Design Approach to Antimicrobial Agents Based on a Thionin Template. Journal of Medicinal Chemistry, 2006, 49, 448-451.	6.4	25
31	Functional genomics tools to decipher the pathogenicity mechanisms of the necrotrophic fungus <i><scp>P</scp>lectosphaerella cucumerina</i> in <i><scp>A</scp>rabidopsis thaliana</i>. Molecular Plant Pathology, 2013, 14, 44-57.	4.2	25
32	Mixed infections alter transmission potential in a fungal plant pathogen. Environmental Microbiology, 2021, 23, 2315-2330.	3.8	25
33	Domestication of High-Copy Transposons Underlays the Wheat Small RNA Response to an Obligate Pathogen. Molecular Biology and Evolution, 2020, 37, 839-848.	8.9	21
34	Soil composition and plant genotype determine benzoxazinoidâ€mediated plantâ€“soil feedbacks in cereals. Plant, Cell and Environment, 2021, 44, 3732-3744.	5.7	8
35	Asexual reproductive potential trumps virulence as a predictor of competitive ability in mixed infections. Environmental Microbiology, 2022, , .	3.8	6
36	MAMP-triggered Medium Alkalinization of Plant Cell Cultures. Bio-protocol, 2020, 10, e3588.	0.4	2

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37	A Minimalist Approach to Antimicrobial Proteins with Thionin as a Template. , 2006, , 248-251.		0
38	A secreted LysM effector protects fungal hyphae through chitin-dependent homodimer polymerization. , 2020, 16, e1008652.		0
39	A secreted LysM effector protects fungal hyphae through chitin-dependent homodimer polymerization. , 2020, 16, e1008652.		0
40	A secreted LysM effector protects fungal hyphae through chitin-dependent homodimer polymerization. , 2020, 16, e1008652.		0
41	A secreted LysM effector protects fungal hyphae through chitin-dependent homodimer polymerization. , 2020, 16, e1008652.		0
42	A secreted LysM effector protects fungal hyphae through chitin-dependent homodimer polymerization. , 2020, 16, e1008652.		0
43	A secreted LysM effector protects fungal hyphae through chitin-dependent homodimer polymerization. , 2020, 16, e1008652.		0