

Matthieu H A J Joosten

List of Publications by Year in descending order

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102
papers

9,501
citations

44069

48
h-index

39675

94
g-index

107
all docs

107
docs citations

107
times ranked

6847
citing authors

#	ARTICLE	IF	CITATIONS
1	Of PAMPs and Effectors: The Blurred PTI-ETI Dichotomy. <i>Plant Cell</i> , 2011, 23, 4-15.	6.6	896
2	Conserved Fungal LysM Effector Ecp6 Prevents Chitin-Triggered Immunity in Plants. <i>Science</i> , 2010, 329, 953-955.	12.6	696
3	Cladosporium Avr2 Inhibits Tomato Rcr3 Protease Required for Cf-2-Dependent Disease Resistance. <i>Science</i> , 2005, 308, 1783-1786.	12.6	415
4	Host resistance to a fungal tomato pathogen lost by a single base-pair change in an avirulence gene. <i>Nature</i> , 1994, 367, 384-386.	27.8	406
5	Cladosporium fulvum Avr4 Protects Fungal Cell Walls Against Hydrolysis by Plant Chitinases Accumulating During Infection. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 1420-1430.	2.6	363
6	The novel <i>Cladosporium fulvum</i> lysin motif effector Ecp6 is a virulence factor with orthologues in other fungal species. <i>Molecular Microbiology</i> , 2008, 69, 119-136.	2.5	275
7	Receptor-like kinase SOBIR1/EVR interacts with receptor-like proteins in plant immunity against fungal infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10010-10015.	7.1	272
8	Two for all: receptor-associated kinases SOBIR1 and BAK1. <i>Trends in Plant Science</i> , 2014, 19, 123-132.	8.8	263
9	Interfamily Transfer of Tomato <i>Ve1</i> Mediates <i>Verticillium</i> Resistance in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 156, 2255-2265.	4.8	250
10	Identification of Several Pathogenesis-Related Proteins in Tomato Leaves Inoculated with <i>Cladosporium fulvum</i> (syn. <i>Fulvia fulva</i>) as 1,3- β -Glucanases and Chitinases. <i>Plant Physiology</i> , 1989, 89, 945-951.	4.8	245
11	Title is missing!. <i>European Journal of Plant Pathology</i> , 2000, 106, 493-506.	1.7	227
12	The EDS1-PAD4-ADR1 node mediates Arabidopsis pattern-triggered immunity. <i>Nature</i> , 2021, 598, 495-499.	27.8	223
13	Differential accumulation of mRNAs encoding extracellular and intracellular PR proteins in tomato induced by virulent and avirulent races of <i>Cladosporium fulvum</i> . <i>Plant Molecular Biology</i> , 1992, 20, 513-527.	3.9	211
14	Phosphatidic acid accumulation is an early response in the Cf-4/Avr4 interaction. <i>Plant Journal</i> , 2004, 39, 1-12.	5.7	199
15	An NB-LRR protein required for HR signalling mediated by both extra- and intracellular resistance proteins. <i>Plant Journal</i> , 2007, 50, 14-28.	5.7	175
16	Balancing selection favors guarding resistance proteins. <i>Trends in Plant Science</i> , 2002, 7, 67-71.	8.8	154
17	<i>Cladosporium fulvum</i> overcomes Cf-2-mediated resistance by producing truncated AVR2 elicitor proteins. <i>Molecular Microbiology</i> , 2002, 45, 875-884.	2.5	153
18	Avr4 promotes Cf-4 receptor-like protein association with the BAK1/SERK3 receptor-like kinase to initiate receptor endocytosis and plant immunity. <i>New Phytologist</i> , 2016, 210, 627-642.	7.3	146

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19	Nucleocytoplasmic Distribution Is Required for Activation of Resistance by the Potato NB-LRR Receptor Rx1 and Is Balanced by Its Functional Domains. <i>Plant Cell</i> , 2011, 22, 4195-4215.	6.6	140
20	Subcellular Localization of Chitinase and of Its Potential Substrate in Tomato Root Tissues Infected by <i>Fusarium oxysporum</i> f. sp. <i>radicis-lycopersici</i> . <i>Plant Physiology</i> , 1990, 92, 1108-1120.	4.8	139
21	Activity Profiling of Papain-Like Cysteine Proteases in Plants. <i>Plant Physiology</i> , 2004, 135, 1170-1178.	4.8	135
22	RanGAP2 Mediates Nucleocytoplasmic Partitioning of the NB-LRR Immune Receptor Rx in the Solanaceae, Thereby Dictating Rx Function. <i>Plant Cell</i> , 2011, 22, 4176-4194.	6.6	133
23	A functional cloning strategy, based on a binary PVX-expression vector, to isolate HR-inducing cDNAs of plant pathogens. <i>Plant Journal</i> , 2000, 24, 275-283.	5.7	130
24	Identification of tomato phosphatidylinositol-specific phospholipase-C (PI-PLC) family members and the role of PLC4 and PLC6 in HR and disease resistance. <i>Plant Journal</i> , 2010, 62, 224-239.	5.7	127
25	Specific HR-associated recognition of secreted proteins from <i>Cladosporium fulvum</i> occurs in both host and non-host plants. <i>Plant Journal</i> , 2000, 23, 735-745.	5.7	113
26	The In Planta-Produced Extracellular Proteins ECP1 and ECP2 of <i>Cladosporium fulvum</i> Are Virulence Factors. <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 725-734.	2.6	112
27	Plant Immunity: Thinking Outside and Inside the Box. <i>Trends in Plant Science</i> , 2019, 24, 587-601.	8.8	111
28	cDNA-AFLP Combined with Functional Analysis Reveals Novel Genes Involved in the Hypersensitive Response. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 567-576.	2.6	107
29	Tomato Mitogen-Activated Protein Kinases LeMPK1, LeMPK2, and LeMPK3 Are Activated during the Cf-4/Avr4-Induced Hypersensitive Response and Have Distinct Phosphorylation Specificities. <i>Plant Physiology</i> , 2007, 144, 1481-1494.	4.8	106
30	Plant Resistance Genes: Their Structure, Function and Evolution. <i>European Journal of Plant Pathology</i> , 2000, 106, 699-713.	1.7	102
31	Natural Disulfide Bond-disrupted Mutants of AVR4 of the Tomato Pathogen <i>Cladosporium fulvum</i> Are Sensitive to Proteolysis, Circumvent Cf-4-mediated Resistance, but Retain Their Chitin Binding Ability. <i>Journal of Biological Chemistry</i> , 2003, 278, 27340-27346.	3.4	102
32	Detoxification of ϵ -tomatine by <i>Cladosporium fulvum</i> is required for full virulence on tomato. <i>New Phytologist</i> , 2013, 198, 1203-1214.	7.3	99
33	<i>Cladosporium fulvum</i> circumvents the second functional resistance gene homologue at the Cf-4 locus (Hcr9-4E) by secretion of a stable avr4E isoform. <i>Molecular Microbiology</i> , 2004, 54, 533-545.	2.5	98
34	No Evidence for Binding Between Resistance Gene Product Cf-9 of Tomato and Avirulence Gene Product AVR9 of <i>Cladosporium fulvum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 867-876.	2.6	78
35	Attenuation of Cf-Mediated Defense Responses at Elevated Temperatures Correlates With a Decrease in Elicitor-Binding Sites. <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 1040-1049.	2.6	75
36	The race-specific elicitor AVR9 of the tomato pathogen <i>Cladosporium fulvum</i> : a cystine knot protein. <i>FEBS Letters</i> , 1997, 404, 153-158.	2.8	73

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37	A second gene at the tomato Cf-4 locus confers resistance to <i>Cladosporium fulvum</i> through recognition of a novel avirulence determinant. <i>Plant Journal</i> , 1999, 20, 279-288.	5.7	73
38	Functional Divergence of Two Secreted Immune Proteases of Tomato. <i>Current Biology</i> , 2015, 25, 2300-2306.	3.9	72
39	Expression of the Avirulence Gene <i>Avr9</i> of the Fungal Tomato Pathogen <i>Cladosporium fulvum</i> Is Regulated by the Global Nitrogen Response Factor <i>NRF1</i> . <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 316-325.	2.6	71
40	Kinase activity of <i>SOBIR1</i> and <i>BAK1</i> is required for immune signalling. <i>Molecular Plant Pathology</i> , 2019, 20, 410-422.	4.2	71
41	Post-translational modification of host proteins in pathogen-triggered defence signalling in plants. <i>Molecular Plant Pathology</i> , 2008, 9, 545-560.	4.2	70
42	Carbohydrate composition of apoplastic fluids isolated from tomato leaves inoculated with virulent or avirulent races of <i>Cladosporium fulvum</i> (syn. <i>Fulvia fulva</i>). <i>European Journal of Plant Pathology</i> , 1990, 96, 103-112.	0.5	64
43	Endoplasmic Reticulum-Quality Control Chaperones Facilitate the Biogenesis of Cf Receptor-Like Proteins Involved in Pathogen Resistance of Tomato. <i>Plant Physiology</i> , 2012, 159, 1819-1833.	4.8	63
44	Transcriptome Sequencing Uncovers the <i>Avr5</i> Avirulence Gene of the Tomato Leaf Mold Pathogen <i>Cladosporium fulvum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 846-857.	2.6	59
45	Purification and Serological Characterization of Three Basic 15-Kilodalton Pathogenesis-Related Proteins from Tomato. <i>Plant Physiology</i> , 1990, 94, 585-591.	4.8	56
46	Subcellular localization of plant chitinases and 1,3- β -glucanases in <i>Cladosporium fulvum</i> (syn. <i>Fulvia</i>) Tj ETQq0 0 0 rBT / Overlock 10 Tf	2.5	54
47	Separable roles of the <i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> accessory protein <i>HrpZ1</i> in ion-conducting pore formation and activation of plant immunity. <i>Plant Journal</i> , 2009, 57, 706-717.	5.7	52
48	Spatially Resolved Plant Metabolomics: Some Potentials and Limitations of Laser-Ablation Electrospray Ionization Mass Spectrometry Metabolite Imaging. <i>Plant Physiology</i> , 2015, 169, 1424-1435.	4.8	50
49	The Cf-4 and Cf-9 Resistance Genes Against <i>Cladosporium fulvum</i> are Conserved in Wild Tomato Species. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 1011-1021.	2.6	46
50	Functional Analysis of the Tomato Immune Receptor <i>Ve1</i> through Domain Swaps with Its Non-Functional Homolog <i>Ve2</i> . <i>PLoS ONE</i> , 2014, 9, e88208.	2.5	46
51	The ELR-SOBIR1 Complex Functions as a Two-Component Receptor-Like Kinase to Mount Defense Against <i>Phytophthora infestans</i> . <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 795-802.	2.6	46
52	Avirulence proteins of plant pathogens: determinants of victory and defeat. <i>Molecular Plant Pathology</i> , 2001, 2, 355-364.	4.2	44
53	Quantitative Phosphoproteomics of Tomato Mounting a Hypersensitive Response Reveals a Swift Suppression of Photosynthetic Activity and a Differential Role for <i>Hsp90</i> Isoforms. <i>Journal of Proteome Research</i> , 2009, 8, 1168-1182.	3.7	43
54	<i>SOBIR1</i> requires the GxxxG dimerization motif in its transmembrane domain to form constitutive complexes with receptor-like proteins. <i>Molecular Plant Pathology</i> , 2016, 17, 96-107.	4.2	43

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55	Additional Resistance Gene(s) Against <i>Cladosporium fulvum</i> Present on the Cf-9 Introgression Segment Are Associated with Strong PR Protein Accumulation. <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 301-308.	2.6	41
56	System-Wide Hypersensitive Response-Associated Transcriptome and Metabolome Reprogramming in Tomato. <i>Plant Physiology</i> , 2013, 162, 1599-1617.	4.8	41
57	Functional analysis of cysteine residues of ECP elicitor proteins of the fungal tomato pathogen <i>Cladosporium fulvum</i> . <i>Molecular Plant Pathology</i> , 2002, 3, 91-95.	4.2	37
58	Random mutagenesis of the nucleotide-binding domain of <i>NRC1</i> (<i>NB-LRR</i> Required for Hypersensitive Response-Associated Cell Death), a downstream signalling nucleotide-binding, leucine-rich repeat (<i>NB-LRR</i>) protein, identifies gain-of-function mutations in the nucleotide-binding pocket. <i>New Phytologist</i> , 2015, 208, 210-223.	7.3	37
59	Isolation of Apoplastic Fluid from Leaf Tissue by the Vacuum Infiltration-Centrifugation Technique. <i>Methods in Molecular Biology</i> , 2012, 835, 603-610.	0.9	37
60	<i>Arabidopsis thaliana</i> receptor-like protein <i>AtRLP23</i> associates with the receptor-like kinase <i>AtSOBIR1</i> . <i>Plant Signaling and Behavior</i> , 2014, 9, e27937.	2.4	35
61	Isolation, purification and preliminary characterization of a protein specific for compatible <i>Cladosporium fulvum</i> (syn. <i>Fulvia fulva</i>)-tomato interactions. <i>Physiological and Molecular Plant Pathology</i> , 1988, 33, 241-253.	2.5	33
62	Rapid migration in gel filtration of the Cf-4 and Cf-9 resistance proteins is an intrinsic property of Cf proteins and not because of their association with high-molecular-weight proteins. <i>Plant Journal</i> , 2003, 35, 305-315.	5.7	33
63	Chaperones of the endoplasmic reticulum are required for Ve1-mediated resistance to <i>V. dactylophora</i> . <i>Molecular Plant Pathology</i> , 2014, 15, 109-117.	4.2	33
64	Specific recognition of AVR4 and AVR9 results in distinct patterns of hypersensitive cell death in tomato, but similar patterns of defence-related gene expression. <i>Molecular Plant Pathology</i> , 2001, 2, 77-86.	4.2	32
65	Biochemical characterization of the tomato phosphatidylinositol-specific phospholipase C (PI-PLC) family and its role in plant immunity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1365-1378.	2.4	30
66	Plant phosphatidylinositol-specific phospholipase C at the center of plant innate immunity. <i>Journal of Integrative Plant Biology</i> , 2017, 59, 164-179.	8.5	30
67	Avirulence and resistance genes in the <i>Cladosporium fulvum</i> -tomato interaction. <i>Current Opinion in Microbiology</i> , 1999, 2, 368-373.	5.1	27
68	The diverse roles of NB-LRR proteins in plants. <i>Physiological and Molecular Plant Pathology</i> , 2007, 71, 126-134.	2.5	26
69	The tomato phosphatidylinositol-phospholipase C2 (SIPLC2) is required for defense gene induction by the fungal elicitor xylanase. <i>Journal of Plant Physiology</i> , 2014, 171, 959-965.	3.5	26
70	Dynamic hydrolase activities precede hypersensitive tissue collapse in tomato seedlings. <i>New Phytologist</i> , 2014, 203, 913-925.	7.3	26
71	Early defence responses induced by AVR9 and mutant analogues in tobacco cell suspensions expressing the Cf-9 resistance gene. <i>Physiological and Molecular Plant Pathology</i> , 2000, 56, 169-177.	2.5	25
72	The C-terminal Dilysine Motif for Targeting to the Endoplasmic Reticulum Is Not Required for Cf-9 Function. <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 412-415.	2.6	24

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73	Affinity of Avr2 for tomato cysteine protease Rcr3 correlates with the Avr2-triggered Cf2-mediated hypersensitive response. <i>Molecular Plant Pathology</i> , 2011, 12, 21-30.	4.2	23
74	Silencing of the tomato phosphatidylinositol-3-phospholipase C2 (SIPLC2) reduces plant susceptibility to <i>Botrytis cinerea</i> . <i>Molecular Plant Pathology</i> , 2016, 17, 1354-1363.	4.2	22
75	Transcriptional regulation of receptor-like protein genes by environmental stresses and hormones and their overexpression activities in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 3339-3351.	4.8	22
76	The AVR4 Elicitor Protein of <i>Cladosporium fulvum</i> Binds to Fungal Components with High Affinity. <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 1219-1227.	2.6	21
77	Red light imaging for programmed cell death visualization and quantification in plant-pathogen interactions. <i>Molecular Plant Pathology</i> , 2021, 22, 361-372.	4.2	21
78	<i>Cladosporium fulvum</i> CfHNN1 induces hypersensitive necrosis, defence gene expression and disease resistance in both host and nonhost plants. <i>Plant Molecular Biology</i> , 2007, 64, 89-101.	3.9	20
79	Molecular and biochemical basis of the interaction between tomato and its fungal pathogen <i>Cladosporium fulvum</i> . <i>Antonie Van Leeuwenhoek</i> , 1997, 71, 137-141.	1.7	19
80	An EFR-Cf9 chimera confers enhanced resistance to bacterial pathogens by SOBIR1- and BAK1-dependent recognition of elf18. <i>Molecular Plant Pathology</i> , 2019, 20, 751-764.	4.2	19
81	Distinct Roles of Non-Overlapping Surface Regions of the Coiled-Coil Domain in the Potato Immune Receptor Rx1. <i>Plant Physiology</i> , 2018, 178, 1310-1331.	4.8	18
82	Gene for Gene Models and Beyond: the <i>Cladosporium fulvum</i> Tomato Pathosystem. , 2009, , 135-156.		15
83	Potato StMPK7 is a downstream component of StMKK1 and promotes resistance to the oomycete pathogen <i>Phytophthora infestans</i> . <i>Molecular Plant Pathology</i> , 2021, 22, 644-657.	4.2	15
84	Defense activation triggers differential expression of phospholipase-C (<i>PLC</i>) genes and elevated temperature induces phosphatidic acid (PA) accumulation in tomato. <i>Plant Signaling and Behavior</i> , 2012, 7, 1073-1078.	2.4	14
85	The Bacterial Effector AvrPto Targets the Regulatory Coreceptor SOBIR1 and Suppresses Defense Signaling Mediated by the Receptor-Like Protein Cf-4. <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 75-85.	2.6	13
86	Population studies of the wild tomato species <i>Solanum chilense</i> reveal geographically structured major gene-mediated pathogen resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202723.	2.6	13
87	Knocking out <i>SOBIR1</i> in <i>Nicotiana benthamiana</i> abolishes functionality of transgenic receptor-like protein Cf-4. <i>Plant Physiology</i> , 2021, 185, 290-294.	4.8	12
88	Molecular characterization of the interaction between the fungal pathogen <i>Cladosporium fulvum</i> and tomato. <i>Euphytica</i> , 1994, 79, 219-225.	1.2	10
89	Molecular communication between host plant and the fungal tomato pathogen <i>Cladosporium fulvum</i> . <i>Antonie Van Leeuwenhoek</i> , 1994, 65, 257-262.	1.7	10
90	Knocking down expression of the auxin-amidohydrolase IAR3 alters defense responses in Solanaceae family plants. <i>Plant Science</i> , 2016, 253, 31-39.	3.6	7

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91	Molecular Characterization of the Interaction Between the Fungal Pathogen <i>Cladosporium Fulvum</i> and Tomato. <i>Current Plant Science and Biotechnology in Agriculture</i> , 1994, , 199-206.	0.0	6
92	Members of the ribosomal protein S6 (RPS6) family act as pro-viral factor for tomato spotted wilt orthotospovirus infectivity in <i>Nicotiana benthamiana</i> . <i>Molecular Plant Pathology</i> , 2022, 23, 431-446.	4.2	6
93	Molecular aspects of avirulence genes of the tomato pathogen <i>Cladosporium fulvum</i> . <i>Canadian Journal of Botany</i> , 1995, 73, 490-494.	1.1	4
94	Diversity and distribution of pathotypes of the soybean rust fungus <i>Phakopsora pachyrhizi</i> in East Africa. <i>Plant Pathology</i> , 2021, 70, 655-666.	2.4	4
95	Appearance of Pathogen-Related Proteins in Plant Hosts. , 1991, , 247-265.		4
96	An Outlook on the Localisation and Structure-Function Relationships of R Proteins in <i>Solanum</i> . <i>Potato Research</i> , 2009, 52, 229-235.	2.7	3
97	Apoplastic Proteins Involved in Communication Between Tomato and the Fungal Pathogen <i>Cladosporium Fulvum</i> . <i>NATO ASI Series Series H, Cell Biology</i> , 1989, , 273-280.	0.5	3
98	Avirulence Genes of the Tomato Pathogen <i>Cladosporium Fulvum</i> and their Exploitation in Molecular Breeding for Disease-Resistant Plants. <i>Developments in Plant Pathology</i> , 1993, , 24-32.	0.1	3
99	An Isoform of the Eukaryotic Translation Elongation Factor 1A (eEF1a) Acts as a Pro-Viral Factor Required for Tomato Spotted Wilt Virus Disease in <i>Nicotiana benthamiana</i> . <i>Viruses</i> , 2021, 13, 2190.	3.3	3
100	The Biotrophic Fungus <i>Cladosporium fulvum</i> Circumvents Cf-4-Mediated Resistance by Producing Unstable AVR4 Elicitors. <i>Plant Cell</i> , 1997, 9, 367.	6.6	2
101	Evaluation of soybean genotypes for resistance against the rust-causing fungus <i>Phakopsora pachyrhizi</i> in East Africa. <i>Plant Pathology</i> , 2021, 70, 841-852.	2.4	2
102	Molecular Cloning and Functions of Avirulence and Pathogenicity Genes of the Tomato Pathogen <i>Cladosporium Fulvum</i> . <i>Current Plant Science and Biotechnology in Agriculture</i> , 1993, , 289-298.	0.0	0