

Sebastian Schornack

List of Publications by Year in descending order

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73
papers

10,535
citations

61945

43
h-index

88593

70
g-index

88
all docs

88
docs citations

88
times ranked

10254
citing authors

#	ARTICLE	IF	CITATIONS
1	Breaking the Code of DNA Binding Specificity of TAL-Type III Effectors. <i>Science</i> , 2009, 326, 1509-1512.	6.0	2,358
2	Genome sequence and analysis of the Irish potato famine pathogen <i>Phytophthora infestans</i> . <i>Nature</i> , 2009, 461, 393-398.	13.7	1,405
3	TAL effectors: finding plant genes for disease and defense. <i>Current Opinion in Plant Biology</i> , 2010, 13, 394-401.	3.5	383
4	Effector Biology of Plant-Associated Organisms: Concepts and Perspectives. Cold Spring Harbor Symposia on Quantitative Biology, 2012, 77, 235-247.	2.0	355
5	Ancient class of translocated oomycete effectors targets the host nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17421-17426.	3.3	326
6	A Common Signaling Process that Promotes Mycorrhizal and Oomycete Colonization of Plants. <i>Current Biology</i> , 2012, 22, 2242-2246.	1.8	291
7	<i>Phytophthora infestans</i> effector AVRblb2 prevents secretion of a plant immune protease at the haustorial interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20832-20837.	3.3	285
8	Standards for plant synthetic biology: a common syntax for exchange of DNA parts. <i>New Phytologist</i> , 2015, 208, 13-19.	3.5	263
9	Apoplastic effectors secreted by two unrelated eukaryotic plant pathogens target the tomato defense protease Rcr3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1654-1659.	3.3	260
10	A Novel Nuclear Protein Interacts With the Symbiotic DMI3 Calcium- and Calmodulin-Dependent Protein Kinase of <i>Medicago truncatula</i> . <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 912-921.	1.4	245
11	Oomycetes, effectors, and all that jazz. <i>Current Opinion in Plant Biology</i> , 2012, 15, 483-492.	3.5	232
12	Oomycete Interactions with Plants: Infection Strategies and Resistance Principles. <i>Microbiology and Molecular Biology Reviews</i> , 2015, 79, 263-280.	2.9	204
13	Ten things to know about oomycete effectors. <i>Molecular Plant Pathology</i> , 2009, 10, 795-803.	2.0	185
14	The tomato resistance protein Bs4 is a predicted non-nuclear TIR-NB-LRR protein that mediates defense responses to severely truncated derivatives of AvrBs4 and overexpressed AvrBs3. <i>Plant Journal</i> , 2004, 37, 46-60.	2.8	177
15	The Receptor-Like Kinase SERK3/BAK1 Is Required for Basal Resistance against the Late Blight Pathogen <i>Phytophthora infestans</i> in <i>Nicotiana benthamiana</i> . <i>PLoS ONE</i> , 2011, 6, e16608.	1.1	170
16	Promoter elements of rice susceptibility genes are bound and activated by specific TAL effectors from the bacterial blight pathogen, <i>Xanthomonas oryzae</i> pv <i>oryzae</i> . <i>New Phytologist</i> , 2010, 187, 1048-1057.	3.5	169
17	An Effector-Targeted Protease Contributes to Defense against <i>Phytophthora infestans</i> and Is under Diversifying Selection in Natural Hosts. <i>Plant Physiology</i> , 2010, 154, 1794-1804.	2.3	166
18	Plant evolution driven by interactions with symbiotic and pathogenic microbes. <i>Science</i> , 2021, 371, .	6.0	162

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19	Gene-for-gene-mediated recognition of nuclear-targeted AvrBs3-like bacterial effector proteins. <i>Journal of Plant Physiology</i> , 2006, 163, 256-272.	1.6	142
20	Phosphatidylinositol monophosphate-binding interface in the oomycete RXLR effector AVR3a is required for its stability in host cells to modulate plant immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14682-14687.	3.3	141
21	Genome analyses of the sunflower pathogen <i>Plasmopara halstedii</i> provide insights into effector evolution in downy mildews and <i>Phytophthora</i> . <i>BMC Genomics</i> , 2015, 16, 741.	1.2	135
22	Host Protein BSL1 Associates with <i>Phytophthora infestans</i> RXLR Effector AVR2 and the <i>Solanum demissum</i> Immune Receptor R2 to Mediate Disease Resistance. <i>Plant Cell</i> , 2012, 24, 3420-3434.	3.1	130
23	Patterns of plant subcellular responses to successful oomycete infections reveal differences in host cell reprogramming and endocytic trafficking. <i>Cellular Microbiology</i> , 2012, 14, 682-697.	1.1	111
24	<i>Arabidopsis</i> VIRE2 INTERACTING PROTEIN2 Is Required for <i>Agrobacterium</i> T-DNA Integration in Plants. <i>Plant Cell</i> , 2007, 19, 1695-1708.	3.1	109
25	Recent developments in effector biology of filamentous plant pathogens. <i>Cellular Microbiology</i> , 2010, 12, 705-715.	1.1	108
26	Enhanced resistance to bacterial and oomycete pathogens by short tandem target mimic RNAs in tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2755-2760.	3.3	101
27	The <i>Pseudomonas</i> type III effector HopQ1 activates cytokinin signaling and interferes with plant innate immunity. <i>New Phytologist</i> , 2014, 201, 585-598.	3.5	99
28	Engineering Plant Disease Resistance Based on TAL Effectors. <i>Annual Review of Phytopathology</i> , 2013, 51, 383-406.	3.5	95
29	p-Coumaroylnoradrenaline, a Novel Plant Metabolite Implicated in Tomato Defense against Pathogens. <i>Journal of Biological Chemistry</i> , 2003, 278, 43373-43383.	1.6	88
30	<i>Medicago truncatula</i> symbiosis mutants affected in the interaction with a biotrophic root pathogen. <i>New Phytologist</i> , 2015, 206, 497-500.	3.5	87
31	Alternative splicing of transcripts encoding Toll-like plant resistance proteins – what's the functional relevance to innate immunity?. <i>Trends in Plant Science</i> , 2002, 7, 392-398.	4.3	85
32	Genetic Mapping and Functional Analysis of the Tomato Bs4 Locus Governing Recognition of the <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> AvrBs4 Protein. <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 629-638.	1.4	82
33	Characterization of AvrHah1, a novel AvrBs3-like effector from <i>Xanthomonas gardneri</i> with virulence and avirulence activity. <i>New Phytologist</i> , 2008, 179, 546-556.	3.5	81
34	<i>Phytophthora infestans</i> RXLR-WY Effector AVR3a Associates with Dynamin-Related Protein 2 Required for Endocytosis of the Plant Pattern Recognition Receptor FLS2. <i>PLoS ONE</i> , 2015, 10, e0137071.	1.1	78
35	The Irish Potato Famine Pathogen <i>Phytophthora infestans</i> Translocates the CRN8 Kinase into Host Plant Cells. <i>PLoS Pathogens</i> , 2012, 8, e1002875.	2.1	77
36	Conserved Biochemical Defenses Underpin Host Responses to Oomycete Infection in an Early-Divergent Land Plant Lineage. <i>Current Biology</i> , 2019, 29, 2282-2294.e5.	1.8	77

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37	Time-resolved dual transcriptomics reveal early induced <i>Nicotiana benthamiana</i> root genes and conserved infection-promoting <i>Phytophthora palmivora</i> effectors. <i>BMC Biology</i> , 2017, 15, 39.	1.7	68
38	Interactions of beneficial and detrimental root-colonizing filamentous microbes with plant hosts. <i>Genome Biology</i> , 2013, 14, 121.	3.8	59
39	<i>Phytophthora palmivora</i> establishes tissue-specific intracellular infection structures in the earliest divergent land plant lineage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3846-E3855.	3.3	59
40	Genome-wide sequencing data reveals virulence factors implicated in banana Xanthomonas wilt. <i>FEMS Microbiology Letters</i> , 2010, 310, 182-192.	0.7	57
41	Protein mislocalization in plant cells using a GFP-binding chromobody. <i>Plant Journal</i> , 2009, 60, 744-754.	2.8	51
42	Mucromycotina Fine Root Endophyte Fungi Form Nutritional Mutualisms with Vascular Plants. <i>Plant Physiology</i> , 2019, 181, 565-577.	2.3	51
43	Cross-interference of plant development and plant-microbe interactions. <i>Current Opinion in Plant Biology</i> , 2014, 20, 118-126.	3.5	49
44	Albugo-imposed changes to tryptophan-derived antimicrobial metabolite biosynthesis may contribute to suppression of non-host resistance to <i>Phytophthora infestans</i> in <i>Arabidopsis thaliana</i> . <i>BMC Biology</i> , 2017, 15, 20.	1.7	48
45	Host-interactor screens of <i>Phytophthora infestans</i> RXLR proteins reveal vesicle trafficking as a major effector-targeted process. <i>Plant Cell</i> , 2021, 33, 1447-1471.	3.1	46
46	<i>Arabidopsis</i> late blight: infection of a nonhost plant by <i>Albugo laibachii</i> enables full colonization by <i>Phytophthora infestans</i> . <i>Cellular Microbiology</i> , 2017, 19, e12628.	1.1	44
47	Modulation of Host Cell Biology by Plant Pathogenic Microbes. <i>Annual Review of Cell and Developmental Biology</i> , 2015, 31, 201-229.	4.0	42
48	The <i>Medicago truncatula</i> GRAS protein RAD1 supports arbuscular mycorrhiza symbiosis and <i>Phytophthora palmivora</i> susceptibility. <i>Journal of Experimental Botany</i> , 2017, 68, 5871-5881.	2.4	42
49	Colonization of Barley by the Broad-Host Hemibiotrophic Pathogen <i>Phytophthora palmivora</i> Uncovers a Leaf Development-Dependent Involvement of <i>Mlo</i> . <i>Molecular Plant-Microbe Interactions</i> , 2016, 29, 385-395.	1.4	39
50	Expression Levels of <i>avrBs3</i> -Like Genes Affect Recognition Specificity in Tomato <i>Bs4</i> - But Not in Pepper <i>Bs3</i> -Mediated Perception. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 1215-1225.	1.4	36
51	An oomycete effector subverts host vesicle trafficking to channel starvation-induced autophagy to the pathogen interface. <i>ELife</i> , 2021, 10, .	2.8	33
52	Manipulation of Bryophyte Hosts by Pathogenic and Symbiotic Microbes. <i>Plant and Cell Physiology</i> , 2018, 59, 656-665.	1.5	29
53	<i>LYS12</i> LysM receptor decelerates <i>Phytophthora palmivora</i> disease progression in <i>Lotus japonicus</i> . <i>Plant Journal</i> , 2018, 93, 297-310.	2.8	26
54	Sticking to it: phytopathogen effector molecules may converge on evolutionarily conserved host targets in green plants. <i>Current Opinion in Plant Biology</i> , 2018, 44, 175-180.	3.5	26

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55	A secreted WY-domain-containing protein present in European isolates of the oomycete <i>Plasmopara viticola</i> induces cell death in grapevine and tobacco species. <i>PLoS ONE</i> , 2019, 14, e0220184.	1.1	25
56	The plant defense and pathogen counterdefense mediated by <i>Hevea brasiliensis</i> serine protease HbSPA and <i>Phytophthora palmivora</i> extracellular protease inhibitor PpEPI10. <i>PLoS ONE</i> , 2017, 12, e0175795.	1.1	22
57	Variation in Capsidiol Sensitivity between <i>Phytophthora infestans</i> and <i>Phytophthora capsici</i> Is Consistent with Their Host Range. <i>PLoS ONE</i> , 2014, 9, e107462.	1.1	19
58	Transcriptional activity and epigenetic regulation of transposable elements in the symbiotic fungus <i>Rhizophagus irregularis</i> . <i>Genome Research</i> , 2021, 31, 2290-2302.	2.4	19
59	Chromosome landing at the tomato Bs4 locus. <i>Molecular Genetics and Genomics</i> , 2001, 266, 639-645.	1.0	18
60	SecretSanta: flexible pipelines for functional secretome prediction. <i>Bioinformatics</i> , 2018, 34, 2295-2296.	1.8	18
61	Glycerol 3-phosphate acyltransferase 6 controls filamentous pathogen interactions and cell wall properties of the tomato and <i>Nicotiana benthamiana</i> leaf epidermis. <i>New Phytologist</i> , 2019, 223, 1547-1559.	3.5	17
62	Developmental Modulation of Root Cell Wall Architecture Confers Resistance to an Oomycete Pathogen. <i>Current Biology</i> , 2020, 30, 4165-4176.e5.	1.8	17
63	The Genome of <i>Peronospora belbahrii</i> Reveals High Heterozygosity, a Low Number of Canonical Effectors, and TC-Rich Promoters. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 742-753.	1.4	15
64	Deep learning-based quantification of arbuscular mycorrhizal fungi in plant roots. <i>New Phytologist</i> , 2021, 232, 2207-2219.	3.5	15
65	A secreted protein of 15 kDa plays an important role in <i>Phytophthora palmivora</i> development and pathogenicity. <i>Scientific Reports</i> , 2020, 10, 2319.	1.6	13
66	Recent developments in effector biology of filamentous plant pathogens. <i>Cellular Microbiology</i> , 2010, 12, 1015-1015.	1.1	11
67	MycRed: Betalain pigments enable in vivo real-time visualisation of arbuscular mycorrhizal colonisation. <i>PLoS Biology</i> , 2021, 19, e3001326.	2.6	11
68	Hydrodynamic Shape Changes Underpin Nuclear Rerouting in Branched Hyphae of an Oomycete Pathogen. <i>MBio</i> , 2019, 10, .	1.8	6
69	Belowground Defence Strategies in Plants: Parallels Between Root Responses to Beneficial and Detrimental Microbes. <i>Signaling and Communication in Plants</i> , 2016, , 7-43.	0.5	5
70	N-acetyltransferase AAC(3)-I confers gentamicin resistance to <i>Phytophthora palmivora</i> and <i>Phytophthora infestans</i> . <i>BMC Microbiology</i> , 2019, 19, 265.	1.3	4
71	Interactions between <i>Phytophthora infestans</i> and <i>Solanum</i> . , 0, , 287-302.		1
72	Editorial overview: Nothing in plant-microbe interactions makes sense. <i>Current Opinion in Plant Biology</i> , 2018, 44, iii-vi.	3.5	0

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73	Pepper Bs3 and tomato Bs4 - distinct molecular principles for perception of highly-related Xanthomonas AvrBs3 and AvrBs4 proteins. , 0, 2004, .		0