Sebastian Schornack

List of Publications by Year
in descending order

73 papers	10,535 citations	61984 43 h-index	88630 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. Science, 2009, 326, 1509-1512.	12.6	2,358
2	Genome sequence and analysis of the Irish potato famine pathogen Phytophthora infestans. Nature, 2009, 461, 393-398.	27.8	1,405
3	TAL effectors: finding plant genes for disease and defense. Current Opinion in Plant Biology, 2010, 13, 394-401.	7.1	383
4	Effector Biology of Plant-Associated Organisms: Concepts and Perspectives. Cold Spring Harbor Symposia on Quantitative Biology, 2012, 77, 235-247.	1.1	355
5	Ancient class of translocated oomycete effectors targets the host nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17421-17426.	7.1	326
6	A Common Signaling Process that Promotes Mycorrhizal and Oomycete Colonization of Plants. Current Biology, 2012, 22, 2242-2246.	3.9	291
7	<i>Phytophthora infestans</i> effector AVRblb2 prevents secretion of a plant immune protease at the haustorial interface. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20832-20837.	7.1	285
8	Standards for plant synthetic biology: a common syntax for exchange of <scp>DNA</scp> parts. New Phytologist, 2015, 208, 13-19.	7.3	263
9	Apoplastic effectors secreted by two unrelated eukaryotic plant pathogens target the tomato defense protease Rcr3. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1654-1659.	7.1	260
10	A Novel Nuclear Protein Interacts With the Symbiotic DMI3 Calcium- and Calmodulin-Dependent Protein Kinase of <i>Medicago truncatula</i>. Molecular Plant-Microbe Interactions, 2007, 20, 912-921.	2.6	245
11	Oomycetes, effectors, and all that jazz. Current Opinion in Plant Biology, 2012, 15, 483-492.	7.1	232
12	Oomycete Interactions with Plants: Infection Strategies and Resistance Principles. Microbiology and Molecular Biology Reviews, 2015, 79, 263-280.	6.6	204
13	Ten things to know about oomycete effectors. Molecular Plant Pathology, 2009, 10, 795-803.	4.2	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. Plant Journal, 2004, 37, 46-60.	5.7	177
15	The Receptor-Like Kinase SERK3/BAK1 Is Required for Basal Resistance against the Late Blight Pathogen Phytophthora infestans in Nicotiana benthamiana. PLoS ONE, 2011, 6, e16608.	2.5	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>. New Phytologist, 2010, 187, 1048-1057.	7.3	169
17	An Effector-Targeted Protease Contributes to Defense against <i>Phytophthora infestans</i> and Is under Diversifying Selection in Natural Hosts. Plant Physiology, 2010, 154, 1794-1804.	4.8	166
18	Plant evolution driven by interactions with symbiotic and pathogenic microbes. Science, 2021, 371, .	12.6	162

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19	Gene-for-gene-mediated recognition of nuclear-targeted AvrBs3-like bacterial effector proteins. Journal of Plant Physiology, 2006, 163, 256-272.	3.5	142
20	Phosphatidylinositol monophosphate-binding interface in the oomycete RXLR effector AVR3a is required for its stability in host cells to modulate plant immunity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14682-14687.	7.1	141
21	Genome analyses of the sunflower pathogen Plasmopara halstedii provide insights into effector evolution in downy mildews and Phytophthora. BMC Genomics, 2015, 16, 741.	2.8	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. Plant Cell, 2012, 24, 3420-3434.	6.6	130
23	Patterns of plant subcellular responses to successful oomycete infections reveal differences in host cell reprogramming and endocytic trafficking. Cellular Microbiology, 2012, 14, 682-697.	2.1	111
24	Arabidopsis VIRE2 INTERACTING PROTEIN2 Is Required for Agrobacterium T-DNA Integration in Plants. Plant Cell, 2007, 19, 1695-1708.	6.6	109
25	Recent developments in effector biology of filamentous plant pathogens. Cellular Microbiology, 2010, 12, 705-715.	2.1	108
26	Enhanced resistance to bacterial and oomycete pathogens by short tandem target mimic RNAs in tomato. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2755-2760.	7.1	101
27	The <i><scp>P</scp>seudomonas</i> type <scp>III</scp> effector HopQ1 activates cytokinin signaling and interferes with plant innate immunity. New Phytologist, 2014, 201, 585-598.	7.3	99
28	Engineering Plant Disease Resistance Based on TAL Effectors. Annual Review of Phytopathology, 2013, 51, 383-406.	7.8	95
29	p-Coumaroylnoradrenaline, a Novel Plant Metabolite Implicated in Tomato Defense against Pathogens. Journal of Biological Chemistry, 2003, 278, 43373-43383.	3.4	88
30	<i>Medicago truncatula</i> symbiosis mutants affected in the interaction with a biotrophic root pathogen. New Phytologist, 2015, 206, 497-500.	7.3	87
31	Alternative splicing of transcripts encoding Toll-like plant resistance proteins â€“ what's the functional relevance to innate immunity?. Trends in Plant Science, 2002, 7, 392-398.	8.8	85
32	Genetic Mapping and Functional Analysis of the Tomato Bs4 Locus Governing Recognition of the Xanthomonas campestris pv. vesicatoria AvrBs4 Protein. Molecular Plant-Microbe Interactions, 2001, 14, 629-638.	2.6	82
33	Characterization of AvrHah1, a novel AvrBs3â€like effector from <i>Xanthomonas gardneri </i>with virulence and avirulence activity. New Phytologist, 2008, 179, 546-556.	7.3	81
34	Phytophthora infestans RXLR-WY Effector AVR3a Associates with Dynamin-Related Protein 2 Required for Endocytosis of the Plant Pattern Recognition Receptor FLS2. PLoS ONE, 2015, 10, e0137071.	2.5	78
35	The Irish Potato Famine Pathogen Phytophthora infestans Translocates the CRN8 Kinase into Host Plant Cells. PLoS Pathogens, 2012, 8, e1002875.	4.7	77
36	Conserved Biochemical Defenses Underpin Host Responses to Oomycete Infection in an Early-Divergent Land Plant Lineage. Current Biology, 2019, 29, 2282-2294.e5.	3.9	77

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37	Time-resolved dual transcriptomics reveal early induced Nicotiana benthamiana root genes and conserved infection-promoting Phytophthora palmivora effectors. BMC Biology, 2017, 15, 39.	3.8	68
38	Interactions of beneficial and detrimental root-colonizing filamentous microbes with plant hosts. Genome Biology, 2013, 14, 121.	8.8	59
39	<i>Phytophthora palmivora</i> establishes tissue-specific intracellular infection structures in the earliest divergent land plant lineage. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3846-E3855.	7.1	59
40	Genome-wide sequencing data reveals virulence factors implicated in banana Xanthomonasâ€ƒwilt. FEMS Microbiology Letters, 2010, 310, 182-192.	1.8	57
41	Protein mislocalization in plant cells using a GFPâ€binding chromobody. Plant Journal, 2009, 60, 744-754.	5.7	51
42	Mucoromycotina Fine Root Endophyte Fungi Form Nutritional Mutualisms with Vascular Plants. Plant Physiology, 2019, 181, 565-577.	4.8	51
43	Cross-interference of plant development and plantâ€“microbe interactions. Current Opinion in Plant Biology, 2014, 20, 118-126.	7.1	49
44	Albugo-imposed changes to tryptophan-derived antimicrobial metabolite biosynthesis may contribute to suppression of non-host resistance to Phytophthora infestans in Arabidopsis thaliana. BMC Biology, 2017, 15, 20.	3.8	48
45	Host-interactor screens of <i>Phytophthora infestans</i> RXLR proteins reveal vesicle trafficking as a major effector-targeted process. Plant Cell, 2021, 33, 1447-1471.	6.6	46
46	Arabidopsis late blight: infection of a nonhost plant by<i>Albugo laibachii</i>enables full colonization by<i>Phytophthora infestans</i>. Cellular Microbiology, 2017, 19, e12628.	2.1	44
47	Modulation of Host Cell Biology by Plant Pathogenic Microbes. Annual Review of Cell and Developmental Biology, 2015, 31, 201-229.	9.4	42
48	The Medicago truncatula GRAS protein RAD1 supports arbuscular mycorrhiza symbiosis and Phytophthora palmivora susceptibility. Journal of Experimental Botany, 2017, 68, 5871-5881.	4.8	42
49	Colonization of Barley by the Broad-Host Hemibiotrophic Pathogen <i>Phytophthora palmivora</i> Uncovers a Leaf Developmentâ€“Dependent Involvement of <i>Mlo</i>. Molecular Plant-Microbe Interactions, 2016, 29, 385-395.	2.6	39
50	Expression Levels of avrBs3-Like Genes Affect Recognition Specificity in Tomato Bs4- But Not in Pepper Bs3-Mediated Perception. Molecular Plant-Microbe Interactions, 2005, 18, 1215-1225.	2.6	36
51	An oomycete effector subverts host vesicle trafficking to channel starvation-induced autophagy to the pathogen interface. ELife, 2021, 10, .	6.0	33
52	Manipulation of Bryophyte Hosts by Pathogenic and Symbiotic Microbes. Plant and Cell Physiology, 2018, 59, 656-665.	3.1	29
53	LYS12 LysM receptor deceleratesPhytophthora palmivoradisease progression inLotus japonicus. Plant Journal, 2018, 93, 297-310.	5.7	26
54	Sticking to it: phytopathogen effector molecules may converge on evolutionarily conserved host targets in green plants. Current Opinion in Plant Biology, 2018, 44, 175-180.	7.1	26

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55	A secreted WY-domain-containing protein present in European isolates of the oomycete Plasmopara viticola induces cell death in grapevine and tobacco species. PLoS ONE, 2019, 14, e0220184.	2.5	25
56	The plant defense and pathogen counterdefense mediated by Hevea brasiliensis serine protease HbSPA and Phytophthora palmivora extracellular protease inhibitor PpEPI10. PLoS ONE, 2017, 12, e0175795.	2.5	22
57	Variation in Capsidiol Sensitivity between Phytophthora infestans and Phytophthora capsici Is Consistent with Their Host Range. PLoS ONE, 2014, 9, e107462.	2.5	19
58	Transcriptional activity and epigenetic regulation of transposable elements in the symbiotic fungus <i>Rhizophagus irregularis</i>. Genome Research, 2021, 31, 2290-2302.	5.5	19
59	Chromosome landing at the tomato Bs4 locus. Molecular Genetics and Genomics, 2001, 266, 639-645.	2.1	18
60	SecretSanta: flexible pipelines for functional secretome prediction. Bioinformatics, 2018, 34, 2295-2296.	4.1	18
61	Glycerolâ€3â€phosphate acyltransferase 6 controls filamentous pathogen interactions and cell wall properties of the tomato and <i>Nicotiana benthamiana</i> leaf epidermis. New Phytologist, 2019, 223, 1547-1559.	7.3	17
62	Developmental Modulation of Root Cell Wall Architecture Confers Resistance to an Oomycete Pathogen. Current Biology, 2020, 30, 4165-4176.e5.	3.9	17
63	The Genome of <i>Peronospora belbahrii</i> Reveals High Heterozygosity, a Low Number of Canonical Effectors, and TC-Rich Promoters. Molecular Plant-Microbe Interactions, 2020, 33, 742-753.	2.6	15
64	Deep learningâ€based quantification of arbuscular mycorrhizal fungi in plant roots. New Phytologist, 2021, 232, 2207-2219.	7.3	15
65	A secreted protein of 15â€‰kDa plays an important role in Phytophthora palmivora development and pathogenicity. Scientific Reports, 2020, 10, 2319.	3.3	13
66	Recent developments in effector biology of filamentous plant pathogens. Cellular Microbiology, 2010, 12, 1015-1015.	2.1	11
67	MycoRed: Betalain pigments enable in vivo real-time visualisation of arbuscular mycorrhizal colonisation. PLoS Biology, 2021, 19, e3001326.	5.6	11
68	Hydrodynamic Shape Changes Underpin Nuclear Rerouting in Branched Hyphae of an Oomycete Pathogen. MBio, 2019, 10, .	4.1	6
69	Belowground Defence Strategies in Plants: Parallels Between Root Responses to Beneficial and Detrimental Microbes. Signaling and Communication in Plants, 2016, , 7-43.	0.7	5
70	N-acetyltransferase AAC(3)-I confers gentamicin resistance to Phytophthora palmivora and Phytophthora infestans. BMC Microbiology, 2019, 19, 265.	3.3	4
71	Interactions betweenPhytophthora infestans andSolanum. , 0, , 287-302.		1
72	Editorial overview: Nothing in plantâ€“biotic interactions makes senseâ€¦. Current Opinion in Plant Biology, 2018, 44, iii-vi.	7.1	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