Sophien Kamoun

List of Publications by Citations

313 papers	31,219 citations	98 h-index	172 g-index
355 ext. papers	39,081 ext. citations	9 avg, IF	7.22 L-index

#	Paper	IF	Citations
313	Sequence-based species delimitation for the DNA taxonomy of undescribed insects. *Systematic Biology*, **2006**, 55, 595-609	8.4	1619
312	Genome sequence and analysis of the Irish potato famine pathogen Phytophthora infestans. *Nature* , **2009**, 461, 393-8	50.4	1041
311	Phytophthora genome sequences uncover evolutionary origins and mechanisms of pathogenesis. *Science*, **2006**, 313, 1261-6	33.3	827
310	Targeted mutagenesis in the model plant Nicotiana benthamiana using Cas9 RNA-guided endonuclease. *Nature Biotechnology*, **2013**, 31, 691-3	44.5	742
309	Genome sequencing reveals agronomically important loci in rice using MutMap. *Nature Biotechnology*, **2012**, 30, 174-8	44.5	731
308	QTL-seq: rapid mapping of quantitative trait loci in rice by whole genome resequencing of DNA from two bulked populations. *Plant Journal*, **2013**, 74, 174-83	6.9	619
307	A catalogue of the effector secretome of plant pathogenic oomycetes. *Annual Review of Phytopathology*, **2006**, 44, 41-60	10.8	546
306	From Guard to Decoy: a new model for perception of plant pathogen effectors. *Plant Cell*, **2008**, 20, 2009-17	11.6	493
305	Genome evolution in filamentous plant pathogens: why bigger can be better. *Nature Reviews Microbiology*, **2012**, 10, 417-30	22.2	483
304	Emerging concepts in effector biology of plant-associated organisms. *Molecular Plant-Microbe Interactions*, **2009**, 22, 115-22	3.6	482
303	Plant genome editing made easy: targeted mutagenesis in model and crop plants using the CRISPR/Cas system. *Plant Methods*, **2013**, 9, 39	5.8	431
302	The Top 10 oomycete pathogens in molecular plant pathology. *Molecular Plant Pathology*, **2015**, 16, 413-34	3.7	417
301	Editing plant genomes with CRISPR/Cas9. *Current Opinion in Biotechnology*, **2015**, 32, 76-84	11.4	364
300	An ancestral oomycete locus contains late blight avirulence gene Avr3a, encoding a protein that is recognized in the host cytoplasm. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 7766-71	11.5	362
299	Rapid generation of a transgene-free powdery mildew resistant tomato by genome deletion. *Scientific Reports*, **2017**, 7, 482	4.9	357
298	Signatures of adaptation to obligate biotrophy in the Hyaloperonospora arabidopsidis genome. *Science*, **2010**, 330, 1549-1551	33.3	353
297	Differential recognition of highly divergent downy mildew avirulence gene alleles by RPP1 resistance genes from two Arabidopsis lines. *Plant Cell*, **2005**, 17, 1839-50	11.6	337

296	Genome evolution following host jumps in the Irish potato famine pathogen lineage. *Science*, **2010**, 330, 1540-3	33.3	319
295	Phytophthora infestans effector AVR3a is essential for virulence and manipulates plant immunity by stabilizing host E3 ligase CMPG1. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9909-14	11.5	309
294	A genomic variation map provides insights into the genetic basis of cucumber domestication and diversity. *Nature Genetics*, **2013**, 45, 1510-5	36.3	307
293	Association genetics reveals three novel avirulence genes from the rice blast fungal pathogen Magnaporthe oryzae. *Plant Cell*, **2009**, 21, 1573-91	11.6	302
292	The C-terminal half of Phytophthora infestans RXLR effector AVR3a is sufficient to trigger R3a-mediated hypersensitivity and suppress INF1-induced cell death in Nicotiana benthamiana. *Plant Journal*, **2006**, 48, 165-76	6.9	299
291	Understanding and exploiting late blight resistance in the age of effectors. *Annual Review of Phytopathology*, **2011**, 49, 507-31	10.8	298
290	Resistance of nicotiana benthamiana to phytophthora infestans is mediated by the recognition of the elicitor protein INF1. *Plant Cell*, **1998**, 10, 1413-26	11.6	295
289	The two-speed genomes of filamentous pathogens: waltz with plants. *Current Opinion in Genetics and Development*, **2015**, 35, 57-65	4.9	288
288	Effector genomics accelerates discovery and functional profiling of potato disease resistance and phytophthora infestans avirulence genes. *PLoS ONE*, **2008**, 3, e2875	3.7	287
287	EST mining and functional expression assays identify extracellular effector proteins from the plant pathogen Phytophthora. *Genome Research*, **2003**, 13, 1675-85	9.7	282
286	Genome sequence of the necrotrophic plant pathogen Pythium ultimum reveals original pathogenicity mechanisms and effector repertoire. *Genome Biology*, **2010**, 11, R73	18.3	280
285	Genome analyses of an aggressive and invasive lineage of the Irish potato famine pathogen. *PLoS Pathogens*, **2012**, 8, e1002940	7.6	260
284	Effector biology of plant-associated organisms: concepts and perspectives. *Cold Spring Harbor Symposia on Quantitative Biology*, **2012**, 77, 235-47	3.9	258
283	Molecular genetics of pathogenic oomycetes. *Eukaryotic Cell*, **2003**, 2, 191-9		253
282	The rise and fall of the Phytophthora infestans lineage that triggered the Irish potato famine. *ELife*, **2013**, 2, e00731	8.9	246
281	Adaptive evolution has targeted the C-terminal domain of the RXLR effectors of plant pathogenic oomycetes. *Plant Cell*, **2007**, 19, 2349-69	11.6	246
280	In planta expression screens of Phytophthora infestans RXLR effectors reveal diverse phenotypes, including activation of the Solanum bulbocastanum disease resistance protein Rpi-blb2. *Plant Cell*, **2009**, 21, 2928-47	11.6	245
279	Gene expression analysis of plant host-pathogen interactions by SuperSAGE. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 15718-23	11.5	242

278	Emergence of wheat blast in Bangladesh was caused by a South American lineage of Magnaporthe oryzae. *BMC Biology*, **2016**, 14, 84	7.3	242
277	Expression of a Phytophthora sojae necrosis-inducing protein occurs during transition from biotrophy to necrotrophy. *Plant Journal*, **2002**, 32, 361-73	6.9	241
276	Trafficking arms: oomycete effectors enter host plant cells. *Trends in Microbiology*, **2006**, 14, 8-11	12.4	230
275	A Phytophthora infestans cystatin-like protein targets a novel tomato papain-like apoplastic protease. *Plant Physiology*, **2007**, 143, 364-77	6.6	222
274	A Kazal-like extracellular serine protease inhibitor from Phytophthora infestans targets the tomato pathogenesis-related protease P69B. *Journal of Biological Chemistry*, **2004**, 279, 26370-7	5.4	222
273	A common signaling process that promotes mycorrhizal and oomycete colonization of plants. *Current Biology*, **2012**, 22, 2242-6	6.3	220
272	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, 17421-6	11.5	220
271	Phytophthora infestans 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, 20832-7	11.5	206
270	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, 1654-9	11.5	204
269	Groovy times: filamentous pathogen effectors revealed. *Current Opinion in Plant Biology*, **2007**, 10, 358-65	9.9	204
268	Single nucleus genome sequencing reveals high similarity among nuclei of an endomycorrhizal fungus. *PLoS Genetics*, **2014**, 10, e1004078	6	195
267	A gene encoding a protein elicitor of Phytophthora infestans is down-regulated during infection of potato. *Molecular Plant-Microbe Interactions*, **1997**, 10, 13-20	3.6	194
266	The hypersensitive response is associated with host and nonhost resistance to Phytophthora infestans. *Planta*, **2000**, 210, 853-64	4.7	191
265	Oomycetes, effectors, and all that jazz. *Current Opinion in Plant Biology*, **2012**, 15, 483-92	9.9	188
264	Fungal effector protein AVR2 targets diversifying defense-related cys proteases of tomato. *Plant Cell*, **2008**, 20, 1169-83	11.6	187
263	Cytosolic HSP90 and HSP70 are essential components of INF1-mediated hypersensitive response and non-host resistance to Pseudomonas cichorii in Nicotiana benthamiana. *Molecular Plant Pathology*, **2003**, 4, 383-91	5.7	185
262	NLR network mediates immunity to diverse plant pathogens. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 8113-8118	11.5	184
261	Genome sequencing and mapping reveal loss of heterozygosity as a mechanism for rapid adaptation in the vegetable pathogen Phytophthora capsici. *Molecular Plant-Microbe Interactions*, **2012**, 25, 1350-60	3.6	183

260	A Second Kazal-like protease inhibitor from Phytophthora infestans inhibits and interacts with the apoplastic pathogenesis-related protease P69B of tomato. *Plant Physiology*, **2005**, 138, 1785-93	6.6	179
259	MutMap accelerates breeding of a salt-tolerant rice cultivar. *Nature Biotechnology*, **2015**, 33, 445-9	44.5	175
258	MutMap+: genetic mapping and mutant identification without crossing in rice. *PLoS ONE*, **2013**, 8, e68529	3.7	171
257	Standards for plant synthetic biology: a common syntax for exchange of DNA parts. *New Phytologist*, **2015**, 208, 13-9	9.8	167
256	Resistance to oomycetes: a general role for the hypersensitive response?. *Trends in Plant Science*, **1999**, 4, 196-200	13.1	167
255	The malarial host-targeting signal is conserved in the Irish potato famine pathogen. *PLoS Pathogens* , **2006**, 2, e50	7.6	165
254	Using hierarchical clustering of secreted protein families to classify and rank candidate effectors of rust fungi. *PLoS ONE*, **2012**, 7, e29847	3.7	164
253	Systemic Modulation of Gene Expression in Tomato by Trichoderma hamatum 382. *Phytopathology*, **2007**, 97, 429-37	3.8	162
252	Genome analyses of the wheat yellow (stripe) rust pathogen Puccinia striiformis f. sp. tritici reveal polymorphic and haustorial expressed secreted proteins as candidate effectors. *BMC Genomics*, **2013**, 14, 270	4.5	159
251	How do filamentous pathogens deliver effector proteins into plant cells?. *PLoS Biology*, **2014**, 12, e1001801	9.7	156
250	Structural basis of pathogen recognition by an integrated HMA domain in a plant NLR immune receptor. *ELife*, **2015**, 4,	8.9	153
249	MutMap-Gap: whole-genome resequencing of mutant F2 progeny bulk combined with de novo assembly of gap regions identifies the rice blast resistance gene Pii. *New Phytologist*, **2013**, 200, 276-283	9.8	149
248	Initial assessment of gene diversity for the oomycete pathogen Phytophthora infestans based on expressed sequences. *Fungal Genetics and Biology*, **1999**, 28, 94-106	3.9	145
247	Elicitin recognition confers enhanced resistance to Phytophthora infestans in potato. *Nature Plants*, **2015**, 1, 15034	11.5	144
246	AY-WB phytoplasma secretes a protein that targets plant cell nuclei. *Molecular Plant-Microbe Interactions*, **2009**, 22, 18-30	3.6	144
245	Effector specialization in a lineage of the Irish potato famine pathogen. *Science*, **2014**, 343, 552-5	33.3	143
244	Analyses of genome architecture and gene expression reveal novel candidate virulence factors in the secretome of Phytophthora infestans. *BMC Genomics*, **2010**, 11, 637	4.5	141
243	Internuclear gene silencing in Phytophthora infestans. *Molecular Cell*, **1999**, 3, 339-48	17.6	141

242	CRISPR Crops: Plant Genome Editing Toward Disease Resistance. *Annual Review of Phytopathology*, **2018**, 56, 479-512	10.8	138
241	Ten things to know about oomycete effectors. *Molecular Plant Pathology*, **2009**, 10, 795-803	5.7	136
240	Nonhost resistance to Phytophthora: novel prospects for a classical problem. *Current Opinion in Plant Biology*, **2001**, 4, 295-300	9.9	136
239	Oomycete-plant coevolution: recent advances and future prospects. *Current Opinion in Plant Biology*, **2010**, 13, 427-33	9.9	135
238	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	3.7	133
237	Phytophthora infestans RXLR effector PexRD2 interacts with host MAPKKK ε to suppress plant immune signaling. *Plant Cell*, **2014**, 26, 1345-59	11.6	132
236	Independent pathways leading to apoptotic cell death, oxidative burst and defense gene expression in response to elicitin in tobacco cell suspension culture. *FEBS Journal*, **2000**, 267, 5005-13		132
235	Structures of Phytophthora RXLR effector proteins: a conserved but adaptable fold underpins functional diversity. *Journal of Biological Chemistry*, **2011**, 286, 35834-35842	5.4	131
234	Extracellular Protein Elicitors fromPhytophthora: Host-Specificity and Induction of Resistance to Bacterial and Fungal Phytopathogens. *Molecular Plant-Microbe Interactions*, **1993**, 6, 15	3.6	131
233	An effector of the Irish potato famine pathogen antagonizes a host autophagy cargo receptor. *ELife*, **2016**, 5,	8.9	127
232	Field pathogenomics reveals the emergence of a diverse wheat yellow rust population. *Genome Biology*, **2015**, 16, 23	18.3	126
231	Qualitative and quantitative late blight resistance in the potato cultivar Sarpo Mira is determined by the perception of five distinct RXLR effectors. *Molecular Plant-Microbe Interactions*, **2012**, 25, 910-9	3.6	125
230	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, 14682-7	11.5	123
229	Synergistic interactions of the plant cell death pathways induced by Phytophthora infestans Nepl-like protein PiNPP1.1 and INF1 elicitin. *Molecular Plant-Microbe Interactions*, **2006**, 19, 854-63	3.6	122
228	An effector-targeted protease contributes to defense against Phytophthora infestans and is under diversifying selection in natural hosts. *Plant Physiology*, **2010**, 154, 1794-804	6.6	121
227	Cellulose binding domains of a Phytophthora cell wall protein are novel pathogen-associated molecular patterns. *Plant Cell*, **2006**, 18, 1766-77	11.6	119
226	RXLR effectors of plant pathogenic oomycetes. *Current Opinion in Microbiology*, **2007**, 10, 332-8	7.9	119
225	Presence/absence, differential expression and sequence polymorphisms between PiAVR2 and PiAVR2-like in Phytophthora infestans determine virulence on R2 plants. *New Phytologist*, **2011**, 191, 763-776	9.8	118

224	Large-scale gene discovery in the oomycete Phytophthora infestans reveals likely components of phytopathogenicity shared with true fungi. *Molecular Plant-Microbe Interactions*, **2005**, 18, 229-43	3.6	117
223	Patterns of diversifying selection in the phytotoxin-like scr74 gene family of Phytophthora infestans. *Molecular Biology and Evolution*, **2005**, 22, 659-72	8.3	116
222	Large-scale gene disruption in Magnaporthe oryzae identifies MC69, a secreted protein required for infection by monocot and dicot fungal pathogens. *PLoS Pathogens*, **2012**, 8, e1002711	7.6	110
221	Candidate Effector Proteins of the Rust Pathogen Melampsora larici-populina Target Diverse Plant Cell Compartments. *Molecular Plant-Microbe Interactions*, **2015**, 28, 689-700	3.6	105
220	Host protein BSL1 associates with Phytophthora infestans RXLR effector AVR2 and the Solanum demissum Immune receptor R2 to mediate disease resistance. *Plant Cell*, **2012**, 24, 3420-34	11.6	105
219	Sequence divergent RXLR effectors share a structural fold conserved across plant pathogenic oomycete species. *PLoS Pathogens*, **2012**, 8, e1002400	7.6	104
218	A gene encoding a host-specific elicitor protein of Phytophthora parasitica. *Molecular Plant-Microbe Interactions*, **1993**, 6, 573-81	3.6	102
217	Effectors of Filamentous Plant Pathogens: Commonalities amid Diversity. *Microbiology and Molecular Biology Reviews*, **2017**, 81,	13.2	100
216	Host specialization of the blast fungus Magnaporthe oryzae is associated with dynamic gain and loss of genes linked to transposable elements. *BMC Genomics*, **2016**, 17, 370	4.5	98
215	Editing of the urease gene by CRISPR-Cas in the diatom. *Plant Methods*, **2016**, 12, 49	5.8	98
214	Patterns of plant subcellular responses to successful oomycete infections reveal differences in host cell reprogramming and endocytic trafficking. *Cellular Microbiology*, **2012**, 14, 682-97	3.9	97
213	Capsicum annuum WRKY protein CaWRKY1 is a negative regulator of pathogen defense. *New Phytologist*, **2008**, 177, 977-989	9.8	93
212	NbLRK1, a lectin-like receptor kinase protein of Nicotiana benthamiana, interacts with Phytophthora infestans INF1 elicitin and mediates INF1-induced cell death. *Planta*, **2008**, 228, 977-87	4.7	93
211	Recent developments in effector biology of filamentous plant pathogens. *Cellular Microbiology*, **2010**, 12, 705-15	3.9	88
210	Comparative genome analysis provides insights into the evolution and adaptation of Pseudomonas syringae pv. aesculi on Aesculus hippocastanum. *PLoS ONE*, **2010**, 5, e10224	3.7	88
209	Receptor networks underpin plant immunity. *Science*, **2018**, 360, 1300-1301	33.3	87
208	Single amino acid mutations in the potato immune receptor R3a expand response to Phytophthora effectors. *Molecular Plant-Microbe Interactions*, **2014**, 27, 624-37	3.6	87
207	Gene expression profiling during asexual development of the late blight pathogen Phytophthora infestans reveals a highly dynamic transcriptome. *Molecular Plant-Microbe Interactions*, **2008**, 21, 433-47	3.6	85

206	The genome sequence and effector complement of the flax rust pathogen Melampsora lini. *Frontiers in Plant Science*, **2014**, 5, 98	6.2	84
205	Discovery of single nucleotide polymorphisms in Lycopersicon esculentum by computer aided analysis of expressed sequence tags. *Molecular Breeding*, **2004**, 14, 21-34	3.4	84
204	ATG8 Expansion: A Driver of Selective Autophagy Diversification?. *Trends in Plant Science*, **2017**, 22, 204-214	13.1	83
203	NLR singletons, pairs, and networks: evolution, assembly, and regulation of the intracellular immunoreceptor circuitry of plants. *Current Opinion in Plant Biology*, **2019**, 50, 121-131	9.9	82
202	Active defence responses associated with non-host resistance of Arabidopsis thaliana to the oomycete pathogen Phytophthora infestans. *Molecular Plant Pathology*, **2003**, 4, 487-500	5.7	82
201	The Plant Membrane-Associated REMORIN1.3 Accumulates in Discrete Perihaustorial Domains and Enhances Susceptibility to Phytophthora infestans. *Plant Physiology*, **2014**, 165, 1005-1018	6.6	81
200	Towards understanding the virulence functions of RXLR effectors of the oomycete plant pathogen Phytophthora infestans. *Journal of Experimental Botany*, **2009**, 60, 1133-40	7	80
199	Virus-induced silencing of WIPK and SIPK genes reduces resistance to a bacterial pathogen, but has no effect on the INF1-induced hypersensitive response (HR) in Nicotiana benthamiana. *Molecular Genetics and Genomics*, **2003**, 269, 583-91	3.1	79
198	Genome analyses of the sunflower pathogen Plasmopara halstedii provide insights into effector evolution in downy mildews and Phytophthora. *BMC Genomics*, **2015**, 16, 741	4.5	78
197	A high-throughput screen of cell-death-inducing factors in Nicotiana benthamiana identifies a novel MAPKK that mediates INF1-induced cell death signaling and non-host resistance to Pseudomonas cichorii. *Plant Journal*, **2007**, 49, 1030-40	6.9	77
196	An N-terminal motif in NLR immune receptors is functionally conserved across distantly related plant species. *ELife*, **2019**, 8,	8.9	73
195	Rice Exo70 interacts with a fungal effector, AVR-Pii, and is required for AVR-Pii-triggered immunity. *Plant Journal*, **2015**, 83, 875-87	6.9	72
194	Oomycete genomics: new insights and future directions. *FEMS Microbiology Letters*, **2007**, 274, 1-8	2.9	71
193	Common infection strategies of pathogenic eukaryotes. *Nature Reviews Microbiology*, **2006**, 4, 922-31	22.2	71
192	Rerouting of plant late endocytic trafficking toward a pathogen interface. *Traffic*, **2015**, 16, 204-26	5.7	70
191	Genome sequencing of the staple food crop white Guinea yam enables the development of a molecular marker for sex determination. *BMC Biology*, **2017**, 15, 86	7.3	70
190	Expressed sequence tags from the oomycete fish pathogen Saprolegnia parasitica reveal putative virulence factors. *BMC Microbiology*, **2005**, 5, 46	4.5	70
189	Incompatible Interactions Between Crucifers andXanthomonas campestrisInvolve a Vascular Hypersensitive Response: Role of thehrpXLocus. *Molecular Plant-Microbe Interactions*, **1992**, 5, 22	3.6	69

188	Emerging oomycete threats to plants and animals. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	69
187	Lessons in Effector and NLR Biology of Plant-Microbe Systems. *Molecular Plant-Microbe Interactions* , **2018**, 31, 34-45	3.6	68
186	A novel class of elicitin-like genes from Phytophthora infestans. *Molecular Plant-Microbe Interactions*, **1997**, 10, 1028-30	3.6	67
185	Analysis of the Pythium ultimum transcriptome using Sanger and Pyrosequencing approaches. *BMC Genomics*, **2008**, 9, 542	4.5	66
184	An analysis of the Candida albicans genome database for soluble secreted proteins using computer-based prediction algorithms. *Yeast*, **2003**, 20, 595-610	3.4	64
183	Polymorphic residues in rice NLRs expand binding and response to effectors of the blast pathogen. *Nature Plants*, **2018**, 4, 576-585	11.5	63
182	The pipg1 gene of the oomycete Phytophthora infestans encodes a fungal-like endopolygalacturonase. *Current Genetics*, **2002**, 40, 385-90	2.9	61
181	Does basal PR gene expression in Solanum species contribute to non-specific resistance toPhytophthora infestans ?. *Physiological and Molecular Plant Pathology*, **2000**, 57, 35-42	2.6	61
180	The "sensor domains" of plant NLR proteins: more than decoys?. *Frontiers in Plant Science*, **2015**, 6, 134	6.2	60
179	Helper NLR proteins NRC2a/b and NRC3 but not NRC1 are required for Pto-mediated cell death and resistance in Nicotiana benthamiana. *New Phytologist*, **2016**, 209, 1344-52	9.8	60
178	Distinct amino acids of the Phytophthora infestans effector AVR3a condition activation of R3a hypersensitivity and suppression of cell death. *Molecular Plant-Microbe Interactions*, **2009**, 22, 269-81	3.6	59
177	Phenotypic Switching Affecting Chemotaxis, Xanthan Production, and Virulence in Xanthomonas campestris. *Applied and Environmental Microbiology*, **1990**, 56, 3855-60	4.8	59
176	Linking sequence to phenotype in Phytophthora-plant interactions. *Trends in Microbiology*, **2004**, 12, 193-200	12.4	58
175	High-throughput in planta expression screening identifies a class II ethylene-responsive element binding factor-like protein that regulates plant cell death and non-host resistance. *Plant Journal*, **2005**, 43, 491-505	6.9	58
174	The Irish potato famine pathogen Phytophthora infestans translocates the CRN8 kinase into host plant cells. *PLoS Pathogens*, **2012**, 8, e1002875	7.6	57
173	Computational and comparative analyses of 150 full-length cDNA sequences from the oomycete plant pathogen Phytophthora infestans. *Fungal Genetics and Biology*, **2006**, 43, 20-33	3.9	57
172	Protein engineering expands the effector recognition profile of a rice NLR immune receptor. *ELife*, **2019**, 8,	8.9	57
171	Rust fungal effectors mimic host transit peptides to translocate into chloroplasts. *Cellular Microbiology*, **2016**, 18, 453-65	3.9	57

170	Nine things to know about elicitins. *New Phytologist*, **2016**, 212, 888-895	9.8	57
169	Regulation of transcription of nucleotide-binding leucine-rich repeat-encoding genes SNC1 and RPP4 via H3K4 trimethylation. *Plant Physiology*, **2013**, 162, 1694-705	6.6	56
168	A functional genetic assay for nuclear trafficking in plants. *Plant Journal*, **2007**, 50, 149-58	6.9	56
167	Boosting plant immunity with CRISPR/Cas. *Genome Biology*, **2015**, 16, 254	18.3	54
166	Tomato I2 Immune Receptor Can Be Engineered to Confer Partial Resistance to the Oomycete Phytophthora infestans in Addition to the Fungus Fusarium oxysporum. *Molecular Plant-Microbe Interactions*, **2015**, 28, 1316-29	3.6	54
165	Potential Role of Elicitins in the Interaction between Phytophthora Species and Tobacco. *Applied and Environmental Microbiology*, **1994**, 60, 1593-8	4.8	54
164	From pathogen genomes to host plant processes: the power of plant parasitic oomycetes. *Genome Biology*, **2013**, 14, 211	18.3	53
163	Structure of the glucanase inhibitor protein (GIP) family from phytophthora species suggests coevolution with plant endo-beta-1,3-glucanases. *Molecular Plant-Microbe Interactions*, **2008**, 21, 820-30	3.6	53
162	Structural Basis of Host Autophagy-related Protein 8 (ATG8) Binding by the Irish Potato Famine Pathogen Effector Protein PexRD54. *Journal of Biological Chemistry*, **2016**, 291, 20270-20282	5.4	52
161	Mining herbaria for plant pathogen genomes: back to the future. *PLoS Pathogens*, **2014**, 10, e1004028	7.6	50
160	Purification of effector-target protein complexes via transient expression in Nicotiana benthamiana. *Methods in Molecular Biology*, **2011**, 712, 181-94	1.4	50
159	Late Blight of Potato and Tomato in the Genomics Era. *Plant Disease*, **2005**, 89, 692-699	1.5	50
158	Heterologous Expression Screens in Nicotiana benthamiana Identify a Candidate Effector of the Wheat Yellow Rust Pathogen that Associates with Processing Bodies. *PLoS ONE*, **2016**, 11, e0149035	3.7	50
157	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	3.7	49
156	Intraspecific comparative genomics to identify avirulence genes from Phytophthora. *New Phytologist*, **2003**, 159, 63-72	9.8	47
155	Functional Divergence of Two Secreted Immune Proteases of Tomato. *Current Biology*, **2015**, 25, 2300-6	6.3	46
154	The coming of age of EvoMPMI: evolutionary molecular plant-microbe interactions across multiple timescales. *Current Opinion in Plant Biology*, **2018**, 44, 108-116	9.9	46
153	Multiple recognition of RXLR effectors is associated with nonhost resistance of pepper against Phytophthora infestans. *New Phytologist*, **2014**, 203, 926-38	9.8	45

152	nQuire: a statistical framework for ploidy estimation using next generation sequencing. *BMC Bioinformatics*, **2018**, 19, 122	3.6	44
151	Green fluorescent protein (GFP) as a reporter gene for the plant pathogenic oomycete Phytophthora palmivora. *FEMS Microbiology Letters*, **1999**, 178, 71-80	2.9	44
150	Coval: improving alignment quality and variant calling accuracy for next-generation sequencing data. *PLoS ONE*, **2013**, 8, e75402	3.7	44
149	INF1 Elicitin Activates Jasmonic Acid- and Ethylene-mediated Signalling Pathways and Induces Resistance to Bacterial Wilt Disease in Tomato. *Journal of Phytopathology*, **2009**, 157, 287-297	1.8	43
148	Agroinfection-based high-throughput screening reveals specific recognition of INF elicitins in Solanum. *Molecular Plant Pathology*, **2006**, 7, 499-510	5.7	43
147	Differences in intensity and specificity of hypersensitive response induction in Nicotiana spp. by INF1, INF2A, and INF2B of Phytophthora infestans. *Molecular Plant-Microbe Interactions*, **2005**, 18, 183-93	3.6	43
146	Protein mislocalization in plant cells using a GFP-binding chromobody. *Plant Journal*, **2009**, 60, 744-54	6.9	42
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