Gregory B Martin

List of Publications by Citations

193 papers	20,563 citations	74 h-index	142 g-index
205 ext. papers	23,040 ext. citations	9.3 avg, IF	6.59 L-index

#	Paper	IF	Citations
193	Map-based cloning of a protein kinase gene conferring disease resistance in tomato. *Science*, **1993**, 262, 1432-6	33.3	1242
192	High density molecular linkage maps of the tomato and potato genomes. *Genetics*, **1992**, 132, 1141-60	4	1160
191	Understanding the functions of plant disease resistance proteins. *Annual Review of Plant Biology*, **2003**, 54, 23-61	30.7	731
190	The complete genome sequence of the Arabidopsis and tomato pathogen Pseudomonas syringae pv. tomato DC3000. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 10181-6	11.5	695
189	Initiation of Plant Disease Resistance by Physical Interaction of AvrPto and Pto Kinase. *Science*, **1996**, 274, 2060-3	33.3	575
188	Applications and advantages of virus-induced gene silencing for gene function studies in plants. *Plant Journal*, **2004**, 39, 734-46	6.9	530
187	Bacterial effectors target the common signaling partner BAK1 to disrupt multiple MAMP receptor-signaling complexes and impede plant immunity. *Cell Host and Microbe*, **2008**, 4, 17-27	23.4	410
186	Transcriptome and selected metabolite analyses reveal multiple points of ethylene control during tomato fruit development. *Plant Cell*, **2005**, 17, 2954-65	11.6	400
185	Rapid identification of markers linked to a Pseudomonas resistance gene in tomato by using random primers and near-isogenic lines. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 2336-40	11.5	383
184	The Pto kinase conferring resistance to tomato bacterial speck disease interacts with proteins that bind a cis-element of pathogenesis-related genes. *EMBO Journal*, **1997**, 16, 3207-18	13	374
183	iTAK: A Program for Genome-wide Prediction and Classification of Plant Transcription Factors, Transcriptional Regulators, and Protein Kinases. *Molecular Plant*, **2016**, 9, 1667-1670	14.4	352
182	Chromosome landing: a paradigm for map-based gene cloning in plants with large genomes. *Trends in Genetics*, **1995**, 11, 63-8	8.5	350
181	The tomato gene Pti1 encodes a serine/threonine kinase that is phosphorylated by Pto and is involved in the hypersensitive response. *Cell*, **1995**, 83, 925-35	56.2	346
180	Specific bacterial suppressors of MAMP signaling upstream of MAPKKK in Arabidopsis innate immunity. *Cell*, **2006**, 125, 563-75	56.2	341
179	Pseudomonas type III effector AvrPtoB induces plant disease susceptibility by inhibition of host programmed cell death. *EMBO Journal*, **2003**, 22, 60-9	13	316
178	Bacterial elicitation and evasion of plant innate immunity. *Nature Reviews Molecular Cell Biology*, **2006**, 7, 601-11	48.7	315
177	A draft genome sequence of Nicotiana benthamiana to enhance molecular plant-microbe biology research. *Molecular Plant-Microbe Interactions*, **2012**, 25, 1523-30	3.6	311

176	Tomato transcription factors pti4, pti5, and pti6 activate defense responses when expressed in Arabidopsis. *Plant Cell*, **2002**, 14, 817-31	11.6	297
175	The tobacco salicylic acid-binding protein 3 (SABP3) is the chloroplast carbonic anhydrase, which exhibits antioxidant activity and plays a role in the hypersensitive defense response. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 11640-5	11.5	285
174	A bacterial inhibitor of host programmed cell death defenses is an E3 ubiquitin ligase. *Science*, **2006** , 311, 222-6	33.3	273
173	Two MAPK cascades, NPR1, and TGA transcription factors play a role in Pto-mediated disease resistance in tomato. *Plant Journal*, **2003**, 36, 905-17	6.9	263
172	MAPKKKalpha is a positive regulator of cell death associated with both plant immunity and disease. *EMBO Journal*, **2004**, 23, 3072-82	13	262
171	Deductions about the number, organization, and evolution of genes in the tomato genome based on analysis of a large expressed sequence tag collection and selective genomic sequencing. *Plant Cell*, **2002**, 14, 1441-56	11.6	259
170	Genomewide identification of Pseudomonas syringae pv. tomato DC3000 promoters controlled by the HrpL alternative sigma factor. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 2275-80	11.5	256
169	Pti4 is induced by ethylene and salicylic acid, and its product is phosphorylated by the Pto kinase. *Plant Cell*, **2000**, 12, 771-86	11.6	253
168	Molecular basis of Pto-mediated resistance to bacterial speck disease in tomato. *Annual Review of Phytopathology*, **2003**, 41, 215-43	10.8	252
167	A bacterial E3 ubiquitin ligase targets a host protein kinase to disrupt plant immunity. *Nature*, **2007**, 448, 370-4	50.4	248
166	Role of mitogen-activated protein kinases in plant immunity. *Current Opinion in Plant Biology*, **2005**, 8, 541-7	9.9	237
165	Two distinct Pseudomonas effector proteins interact with the Pto kinase and activate plant immunity. *Cell*, **2002**, 109, 589-98	56.2	233
164	Overexpression of Pto activates defense responses and confers broad resistance. *Plant Cell*, **1999**, 11, 15-29	11.6	229
163	A Pseudomonas syringae pv. tomato DC3000 mutant lacking the type III effector HopQ1-1 is able to cause disease in the model plant Nicotiana benthamiana. *Plant Journal*, **2007**, 51, 32-46	6.9	205
162	The tomato transcription factor Pti4 regulates defense-related gene expression via GCC box and non-GCC box cis elements. *Plant Cell*, **2003**, 15, 3033-50	11.6	204
161	Comprehensive EST analysis of tomato and comparative genomics of fruit ripening. *Plant Journal*, **2004**, 40, 47-59	6.9	196
160	Deletions in the repertoire of Pseudomonas syringae pv. tomato DC3000 type III secretion effector genes reveal functional overlap among effectors. *PLoS Pathogens*, **2009**, 5, e1000388	7.6	192
159	Strategies used by bacterial pathogens to suppress plant defenses. *Current Opinion in Plant Biology*, **2004**, 7, 356-64	9.9	180

158	Type III effector AvrPtoB requires intrinsic E3 ubiquitin ligase activity to suppress plant cell death and immunity. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 2851-6	11.5	178
157	A member of the tomato Pto gene family confers sensitivity to fenthion resulting in rapid cell death. *Plant Cell*, **1994**, 6, 1543-52	11.6	176
156	Genetic disassembly and combinatorial reassembly identify a minimal functional repertoire of type III effectors in Pseudomonas syringae. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2975-80	11.5	152
155	Functional analysis of plant disease resistance genes and their downstream effectors. *Current Opinion in Plant Biology*, **1999**, 2, 273-9	9.9	148
154	The pseudomonas AvrPto protein is differentially recognized by tomato and tobacco and is localized to the plant plasma membrane. *Plant Cell*, **2000**, 12, 2323-2338	11.6	144
153	An NB-LRR protein required for HR signalling mediated by both extra- and intracellular resistance proteins. *Plant Journal*, **2007**, 50, 14-28	6.9	137
152	Xanthomonas T3S Effector XopN Suppresses PAMP-Triggered Immunity and Interacts with a Tomato Atypical Receptor-Like Kinase and TFT1. *Plant Cell*, **2009**, 21, 1305-23	11.6	133
151	Gene profiling of a compatible interaction between Phytophthora infestans and Solanum tuberosum suggests a role for carbonic anhydrase. *Molecular Plant-Microbe Interactions*, **2005**, 18, 913-22	3.6	132
150	Comprehensive transcript profiling of Pto- and Prf-mediated host defense responses to infection by Pseudomonas syringae pv. tomato. *Plant Journal*, **2002**, 32, 299-315	6.9	122
149	Methods to study PAMP-triggered immunity using tomato and Nicotiana benthamiana. *Molecular Plant-Microbe Interactions*, **2010**, 23, 991-9	3.6	117
148	Comparative genomics of host-specific virulence in Pseudomonas syringae. *Genetics*, **2006**, 174, 1041-56	4	117
147	Expression of the Tomato Pto Gene in Tobacco Enhances Resistance to Pseudomonas syringae pv tabaci Expressing avrPto. *Plant Cell*, **1995**, 7, 1529-1536	11.6	115
146	Recognition specificity for the bacterial avirulence protein AvrPto is determined by Thr-204 in the activation loop of the tomato Pto kinase. *Molecular Cell*, **1998**, 2, 241-5	17.6	111
145	Tomato 14-3-3 protein 7 positively regulates immunity-associated programmed cell death by enhancing protein abundance and signaling ability of MAPKKK {alpha}. *Plant Cell*, **2010**, 22, 260-72	11.6	110
144	Tomato receptor FLAGELLIN-SENSING 3 binds flgII-28 and activates the plant immune system. *Nature Plants*, **2016**, 2, 16128	11.5	109
143	A draft genome sequence of Pseudomonas syringae pv. tomato T1 reveals a type III effector repertoire significantly divergent from that of Pseudomonas syringae pv. tomato DC3000. *Molecular Plant-Microbe Interactions*, **2009**, 22, 52-62	3.6	109
142	An avrPto/avrPtoB mutant of Pseudomonas syringae pv. tomato DC3000 does not elicit Pto-mediated resistance and is less virulent on tomato. *Molecular Plant-Microbe Interactions*, **2005**, 18, 43-51	3.6	109
141	Innate immunity in plants. *Current Opinion in Immunology*, **2001**, 13, 55-62	7.8	109

140	Aconitase plays a role in regulating resistance to oxidative stress and cell death in Arabidopsis and Nicotiana benthamiana. *Plant Molecular Biology*, **2007**, 63, 273-87	4.6	108
139	AvrPto-dependent Pto-interacting proteins and AvrPto-interacting proteins in tomato. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 8836-40	11.5	108
138	Construction of a yeast artificial chromosome library of tomato and identification of cloned segments linked to two disease resistance loci. *Molecular Genetics and Genomics*, **1992**, 233, 25-32		101
137	Structural analysis of Pseudomonas syringae AvrPtoB bound to host BAK1 reveals two similar kinase-interacting domains in a type III Effector. *Cell Host and Microbe*, **2011**, 10, 616-26	23.4	99
136	Silencing of subfamily I of protein phosphatase 2A catalytic subunits results in activation of plant defense responses and localized cell death. *Plant Journal*, **2004**, 38, 563-77	6.9	98
135	Calmodulin-like proteins from Arabidopsis and tomato are involved in host defense against Pseudomonas syringae pv. tomato. *Plant Molecular Biology*, **2005**, 58, 887-897	4.6	94
134	Whole-genome expression profiling defines the HrpL regulon of Pseudomonas syringae pv. tomato DC3000, allows de novo reconstruction of the Hrp cis clement, and identifies novel coregulated genes. *Molecular Plant-Microbe Interactions*, **2006**, 19, 1167-79	3.6	93
133	Pseudomonas syringae pv. tomato type III effectors AvrPto and AvrPtoB promote ethylene-dependent cell death in tomato. *Plant Journal*, **2005**, 44, 139-54	6.9	93
132	Transcriptomics-based screen for genes induced by flagellin and repressed by pathogen effectors identifies a cell wall-associated kinase involved in plant immunity. *Genome Biology*, **2013**, 14, R139	18.3	92
131	A secreted effector protein (SNE1) from Phytophthora infestans is a broadly acting suppressor of programmed cell death. *Plant Journal*, **2010**, 62, 357-66	6.9	92
130	Allelic variation in two distinct Pseudomonas syringae flagellin epitopes modulates the strength of plant immune responses but not bacterial motility. *New Phytologist*, **2013**, 200, 847-860	9.8	91
129	A tomato LysM receptor-like kinase promotes immunity and its kinase activity is inhibited by AvrPtoB. *Plant Journal*, **2012**, 69, 92-103	6.9	90
128	Identification of MAPKs and their possible MAPK kinase activators involved in the Pto-mediated defense response of tomato. *Journal of Biological Chemistry*, **2004**, 279, 49229-35	5.4	90
127	Thr38 and Ser198 are Pto autophosphorylation sites required for the AvrPto-Pto-mediated hypersensitive response. *EMBO Journal*, **2000**, 19, 2257-69	13	90
126	Effector-triggered immunity mediated by the Pto kinase. *Trends in Plant Science*, **2011**, 16, 132-40	13.1	88
125	The Pto bacterial resistance gene and the Fen insecticide sensitivity gene encode functional protein kinases with serine/threonine specificity. *Plant Physiology*, **1995**, 108, 1735-9	6.6	88
124	The SGN VIGS tool: user-friendly software to design virus-induced gene silencing (VIGS) constructs for functional genomics. *Molecular Plant*, **2015**, 8, 486-8	14.4	86
123	Pre-germination genotypic screening using PCR amplification of half-seeds. *Theoretical and Applied Genetics*, **1993**, 86, 694-8	6	86

122	Pseudomonas syringae pv tomato induces the expression of tomato EREBP-like genes pti4 and pti5 independent of ethylene, salicylate and jasmonate. *Plant Journal*, **1999**, 20, 475-83	6.9	85
121	The tomato calcium sensor Cbl10 and its interacting protein kinase Cipk6 define a signaling pathway in plant immunity. *Plant Cell*, **2013**, 25, 2748-64	11.6	84
120	The Pto kinase mediates a signaling pathway leading to the oxidative burst in tomato. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 13393-7	11.5	74
119	Virus-induced gene silencing (VIGS) in Nicotiana benthamiana and tomato. *Journal of Visualized Experiments*, **2009**,	1.6	71
118	Identification and characterization of plant genes involved in Agrobacterium-mediated plant transformation by virus-induced gene silencing. *Molecular Plant-Microbe Interactions*, **2007**, 20, 41-52	3.6	70
117	A novel link between tomato GRAS genes, plant disease resistance and mechanical stress response. *Molecular Plant Pathology*, **2006**, 7, 593-604	5.7	70
116	The N-terminal region of Pseudomonas type III effector AvrPtoB elicits Pto-dependent immunity and has two distinct virulence determinants. *Plant Journal*, **2007**, 52, 595-614	6.9	69
115	Adi3 is a Pdk1-interacting AGC kinase that negatively regulates plant cell death. *EMBO Journal*, **2006**, 25, 255-65	13	68
114	Crystal structure of the complex between Pseudomonas effector AvrPtoB and the tomato Pto kinase reveals both a shared and a unique interface compared with AvrPto-Pto. *Plant Cell*, **2009**, 21, 1846-59	11.6	67
113	Alleles of Pto and Fen occur in bacterial speck-susceptible and fenthion-insensitive tomato cultivars and encode active protein kinases. *Plant Cell*, **1997**, 9, 61-73	11.6	67
112	Pseudomonas syringae pv. tomato DC3000 Type III Secretion Effector Polymutants Reveal an Interplay between HopAD1 and AvrPtoB. *Cell Host and Microbe*, **2015**, 17, 752-62	23.4	66
111	Chromosome 2-specific DNA clones from flow-sorted chromosomes of tomato. *Molecular Genetics and Genomics*, **1994**, 242, 551-8		63
110	Identification of Nicotiana benthamiana genes involved in pathogen-associated molecular pattern-triggered immunity. *Molecular Plant-Microbe Interactions*, **2010**, 23, 715-26	3.6	62
109	Ancient origin of pathogen recognition specificity conferred by the tomato disease resistance gene Pto. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 2059-64	11.5	61
108	Tomato 14-3-3 protein TFT7 interacts with a MAP kinase kinase to regulate immunity-associated programmed cell death mediated by diverse disease resistance proteins. *Journal of Biological Chemistry*, **2011**, 286, 14129-36	5.4	58
107	Host-mediated phosphorylation of type III effector AvrPto promotes Pseudomonas virulence and avirulence in tomato. *Plant Cell*, **2006**, 18, 502-14	11.6	58
106	Differential transcription of the two glutamine synthetase genes of Bradyrhizobium japonicum. *Journal of Bacteriology*, **1987**, 169, 5861-6	3.5	57
105	Role of the Bradyrhizobium japonicum ntrC gene product in differential regulation of the glutamine synthetase II gene (glnII). *Journal of Bacteriology*, **1988**, 170, 5452-9	3.5	57

104	Pto- and Prf-mediated recognition of AvrPto and AvrPtoB restricts the ability of diverse pseudomonas syringae pathovars to infect tomato. *Molecular Plant-Microbe Interactions*, **2007**, 20, 806-15	3.6	56
103	AvrPtoB: a bacterial type III effector that both elicits and suppresses programmed cell death associated with plant immunity. *FEMS Microbiology Letters*, **2005**, 245, 1-8	2.9	56
102	Bradyrhizobium japonicum glnB, a putative nitrogen-regulatory gene, is regulated by NtrC at tandem promoters. *Journal of Bacteriology*, **1989**, 171, 5638-45	3.5	56
101	High-Resolution Linkage Analysis and Physical Characterization of thePtoBacterial Resistance Locus in Tomato. *Molecular Plant-Microbe Interactions*, **1993**, 6, 26	3.6	56
100	Generation of a Collection of Mutant Tomato Lines Using Pooled CRISPR Libraries. *Plant Physiology*, **2017**, 174, 2023-2037	6.6	55
99	Diverse AvrPtoB homologs from several Pseudomonas syringae pathovars elicit Pto-dependent resistance and have similar virulence activities. *Applied and Environmental Microbiology*, **2006**, 72, 702-12	4.8	55
98	Partial resistance of tomato to Phytophthora infestans is not dependent upon ethylene, jasmonic acid, or salicylic acid signaling pathways. *Molecular Plant-Microbe Interactions*, **2003**, 16, 141-8	3.6	54
97	Transcriptomic analysis reveals tomato genes whose expression is induced specifically during effector-triggered immunity and identifies the Epk1 protein kinase which is required for the host response to three bacterial effector proteins. *Genome Biology*, **2014**, 15, 492	18.3	52
96	Endosome-associated CRT1 functions early in resistance gene-mediated defense signaling in Arabidopsis and tobacco. *Plant Cell*, **2010**, 22, 918-36	11.6	51
95	Rapid transcript accumulation of pathogenesis-related genes during an incompatible interaction in bacterial speck disease-resistant tomato plants. *Plant Molecular Biology*, **1999**, 40, 455-65	4.6	50
94	The disease-resistance gene Pto and the fenthion-sensitivity gene fen encode closely related functional protein kinases. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 4181-4	11.5	50
93	Type III secretion and effectors shape the survival and growth pattern of Pseudomonas syringae on leaf surfaces. *Plant Physiology*, **2012**, 158, 1803-18	6.6	48
92	Identification and expression profiling of tomato genes differentially regulated during a resistance response to Xanthomonas campestris pv. vesicatoria. *Molecular Plant-Microbe Interactions*, **2004**, 17, 1212-22	3.6	47
91	A nitrilase-like protein interacts with GCC box DNA-binding proteins involved in ethylene and defense responses. *Plant Physiology*, **1998**, 118, 867-74	6.6	46
90	Salmonella colonization activates the plant immune system and benefits from association with plant pathogenic bacteria. *Environmental Microbiology*, **2013**, 15, 2418-30	5.2	44
89	Pto kinase binds two domains of AvrPtoB and its proximity to the effector E3 ligase determines if it evades degradation and activates plant immunity. *PLoS Pathogens*, **2014**, 10, e1004227	7.6	44
88	Overexpression of the disease resistance gene Pto in tomato induces gene expression changes similar to immune responses in human and fruitfly. *Plant Physiology*, **2003**, 132, 1901-12	6.6	44
87	The solution structure of type III effector protein AvrPto reveals conformational and dynamic features important for plant pathogenesis. *Structure*, **2004**, 12, 1257-68	5.2	43

86	Molecular genetic analysis of the ripening-inhibitor and non-ripening loci of tomato: a first step in genetic map-based cloning of fruit ripening genes. *Molecular Genetics and Genomics*, **1995**, 248, 195-206		43
85	Landraces ofPhaseolus vulgaris (Fabaceae) in Northern Malawi. I. Regional variation. *Economic Botany*, **1987**, 41, 190-203	1.7	41
84	Use of RNA-seq data to identify and validate RT-qPCR reference genes for studying the tomato-Pseudomonas pathosystem. *Scientific Reports*, **2017**, 7, 44905	4.9	39
83	The tomato Fni3 lysine-63-specific ubiquitin-conjugating enzyme and suv ubiquitin E2 variant positively regulate plant immunity. *Plant Cell*, **2013**, 25, 3615-31	11.6	39
82	Location and activity of members of a family of virPphA homologues in pathovars of Pseudomonas syringae and P. savastanoi. *Molecular Plant Pathology*, **2002**, 3, 205-16	5.7	37
81	The myristylation motif of Pto is not required for disease resistance. *Molecular Plant-Microbe Interactions*, **1998**, 11, 572-6	3.6	36
80	High-resolution linkage analysis and physical characterization of the EIX-responding locus in tomato. *Theoretical and Applied Genetics*, **2000**, 100, 184-189	6	34
79	Biochemical properties of two protein kinases involved in disease resistance signaling in tomato. *Journal of Biological Chemistry*, **1998**, 273, 15860-5	5.4	34
78	Landraces of Phaseolus vulgaris (Fabaceae) in Northern Malawi. II. Generation and maintenance of variability. *Economic Botany*, **1987**, 41, 204-215	1.7	34
77	A Subset of Ubiquitin-Conjugating Enzymes Is Essential for Plant Immunity. *Plant Physiology*, **2017**, 173, 1371-1390	6.6	32
76	Phosphorylation of the Pseudomonas syringae effector AvrPto is required for FLS2/BAK1-independent virulence activity and recognition by tobacco. *Plant Journal*, **2010**, 61, 16-24	6.9	32
75	DspA/E, a type III effector of Erwinia amylovora, is required for early rapid growth in Nicotiana benthamiana and causes NbSGT1-dependent cell death. *Molecular Plant Pathology*, **2007**, 8, 255-65	5.7	31
74	Pseudomonas syringae type III effector AvrPtoB is phosphorylated in plant cells on serine 258, promoting its virulence activity. *Journal of Biological Chemistry*, **2007**, 282, 30737-44	5.4	31
73	The major site of the pti1 kinase phosphorylated by the pto kinase is located in the activation domain and is required for pto-pti1 physical interaction. *FEBS Journal*, **2000**, 267, 171-8		31
72	The β subunit of the SnRK1 complex is phosphorylated by the plant cell death suppressor Adi3. *Plant Physiology*, **2012**, 159, 1277-90	6.6	30
71	Signal recognition and transduction mediated by the tomato Pto kinase: a paradigm of innate immunity in plants. *Microbes and Infection*, **2000**, 2, 1591-7	9.3	27
70	Map-based cloning in crop plants: tomato as a model system II. Isolation and characterization of a set of overlapping yeast artificial chromosomes encompassing the jointless locus. *Molecular Genetics and Genomics*, **1994**, 244, 613-21		27
69	The T-loop extension of the tomato protein kinase AvrPto-dependent Pto-interacting protein 3 (Adi3) directs nuclear localization for suppression of plant cell death. *Journal of Biological Chemistry* , **2010**, 285, 17584-94	5.4	26

68	Natural variation for responsiveness to flg22, flgII-28, and csp22 and Pseudomonas syringae pv. tomato in heirloom tomatoes. *PLoS ONE*, **2014**, 9, e106119	3.7	25
67	Genome of Solanum pimpinellifolium provides insights into structural variants during tomato breeding. *Nature Communications*, **2020**, 11, 5817	17.4	24
66	Expression of the Tomato Pto Gene in Tobacco Enhances Resistance to Pseudomonas syringae pv tabaci Expressing avrPto. *Plant Cell*, **1995**, 7, 1529	11.6	21
65	Tomato Wall-Associated Kinase SlWak1 Depends on Fls2/Fls3 to Promote Apoplastic Immune Responses to. *Plant Physiology*, **2020**, 183, 1869-1882	6.6	20
64	Generation and Molecular Characterization of CRISPR/Cas9-Induced Mutations in 63 Immunity-Associated Genes in Tomato Reveals Specificity and a Range of Gene Modifications. *Frontiers in Plant Science*, **2020**, 11, 10	6.2	20
63	Analysis of wild-species introgressions in tomato inbreds uncovers ancestral origins. *BMC Plant Biology*, **2014**, 14, 287	5.3	19
62	Transcriptome-based identification and validation of reference genes for plant-bacteria interaction studies using Nicotiana benthamiana. *Scientific Reports*, **2019**, 9, 1632	4.9	18
61	Advances in experimental methods for the elucidation of Pseudomonas syringae effector function with a focus on AvrPtoB. *Molecular Plant Pathology*, **2009**, 10, 777-93	5.7	18
60	Comparative genomics and phylogenetic discordance of cultivated tomato and close wild relatives. *PeerJ*, **2015**, 3, e793	3.1	18
59	High-throughput CRISPR Vector Construction and Characterization of DNA Modifications by Generation of Tomato Hairy Roots. *Journal of Visualized Experiments*, **2016**,	1.6	17
58	Two virulence determinants of type III effector AvrPto are functionally conserved in diverse Pseudomonas syringae pathovars. *New Phytologist*, **2010**, 187, 969-982	9.8	17
57	Gene discovery for crop improvement. *Current Opinion in Biotechnology*, **1998**, 9, 220-6	11.4	17
56	Suppression of pathogen-inducible NO synthase (iNOS) activity in tomato increases susceptibility to Pseudomonas syringae. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 8239-44	11.5	17
55	Arabidopsis genome sequence as a tool for functional genomics in tomato. *Genome Biology*, **2001**, 2, REVIEWS1003	18.3	17
54	A Member of the Tomato Pto Gene Family Confers Sensitivity to Fenthion Resulting in Rapid Cell Death. *Plant Cell*, **1994**, 6, 1543	11.6	17
53	The Locus of Confers Resistance to Race 1 Strains of pv. and to by Recognizing the Type III Effectors AvrRpt2 and RipBN. *Molecular Plant-Microbe Interactions*, **2019**, 32, 949-960	3.6	17
52	Greasy tactics in the plant-pathogen molecular arms race. *Journal of Experimental Botany*, **2015**, 66, 1607-16	7	16
51	Molecular mechanisms involved in bacterial speck disease resistance of tomato. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1998**, 353, 1455-1461	5.8	16

50	Five Xanthomonas type III effectors suppress cell death induced by components of immunity-associated MAP kinase cascades. *Plant Signaling and Behavior*, **2015**, 10, e1064573	2.5	15
49	Plant programmed cell death caused by an autoactive form of Prf is suppressed by co-expression of the Prf LRR domain. *Molecular Plant*, **2012**, 5, 1058-67	14.4	15
48	Molecular Mechanisms Involved in Bacterial Speck Disease Resistance of Tomato. *Plant Pathology Journal*, **2004**, 20, 7-12	2.5	15
47	Detecting N-myristoylation and S-acylation of host and pathogen proteins in plants using click chemistry. *Plant Methods*, **2016**, 12, 38	5.8	15
46	The Tomato Kinase Pti1 Contributes to Production of Reactive Oxygen Species in Response to Two Flagellin-Derived Peptides and Promotes Resistance to Pseudomonas syringae Infection. *Molecular Plant-Microbe Interactions*, **2017**, 30, 725-738	3.6	14
45	Protein kinases in the plant defense response. *Advances in Botanical Research*, **2000**, 32, 379-404	2.2	13
44	Natural variation for unusual host responses and flagellin-mediated immunity against Pseudomonas syringae in genetically diverse tomato accessions. *New Phytologist*, **2019**, 223, 447-461	9.8	12
43	Functional genomics of tomato for the study of plant immunity. *Briefings in Functional Genomics*, **2015**, 14, 291-301	4.9	12
42	PeerGAD: a peer-review-based and community-centric web application for viewing and annotating prokaryotic genome sequences. *Nucleic Acids Research*, **2004**, 32, 3124-35	20.1	12
41	Plant Genome Editing Database (PGED): A Call for Submission of Information about Genome-Edited Plant Mutants. *Molecular Plant*, **2019**, 12, 127-129	14.4	11
40	Virus-induced gene silencing database for phenomics and functional genomics in. *Plant Direct*, **2018** , 2, e00055	3.3	11
39	The Bacterial Effector AvrPto Targets the Regulatory Coreceptor SOBIR1 and Suppresses Defense Signaling Mediated by the Receptor-Like Protein Cf-4. *Molecular Plant-Microbe Interactions*, **2018**, 31, 75-85	3.6	10
38	Natural Variation in Tomato Reveals Differences in the Recognition of AvrPto and AvrPtoB Effectors from Pseudomonas syringae. *Molecular Plant*, **2016**, 9, 639-649	14.4	10
37	Nonhost resistance of tomato to the bean pathogen Pseudomonas syringae pv. syringae B728a is due to a defective E3 ubiquitin ligase domain in avrptobb728a. *Molecular Plant-Microbe Interactions* , **2013**, 26, 387-97	3.6	10
36	Alleles of Pto and Fen Occur in Bacterial Speck-Susceptible and Fenthion-Insensitive Tomato Cultivars and Encode Active Protein Kinases. *Plant Cell*, **1997**, 9, 61	11.6	10
35	Manipulation of plant programmed cell death pathways during plant-pathogen interactions. *Plant Signaling and Behavior*, **2007**, 2, 188-9	2.5	10
34	Ptr1 evolved convergently with RPS2 and Mr5 to mediate recognition of AvrRpt2 in diverse solanaceous species. *Plant Journal*, **2020**, 103, 1433-1445	6.9	9
33	Identification of a Candidate Gene in Solanum habrochaites for Resistance to a Race 1 Strain of Pseudomonas syringae pv. tomato. *Plant Genome*, **2015**, 8, eplantgenome2015.02.0006	4.4	9

32	Spelling Changes and Fluorescent Tagging With Prime Editing Vectors for Plants. *Frontiers in Genome Editing*, **2021**, 3, 617553	2.5	9
31	Acquisition of Iron Is Required for Growth of Salmonella spp. in Tomato Fruit. *Applied and Environmental Microbiology*, **2015**, 81, 3663-70	4.8	8
30	Two leucines in the N-terminal MAPK-docking site of tomato SlMKK2 are critical for interaction with a downstream MAPK to elicit programmed cell death associated with plant immunity. *FEBS Letters*, **2013**, 587, 1460-5	3.8	8
29	Assay for pathogen-associated molecular pattern (PAMP)-triggered immunity (PTI) in plants. *Journal of Visualized Experiments*, **2009**,	1.6	8
28	WRKY22 and WRKY25 transcription factors are positive regulators of defense responses in Nicotiana benthamiana. *Plant Molecular Biology*, **2021**, 105, 65-82	4.6	8
27	Mai1 Protein Acts Between Host Recognition of Pathogen Effectors and Mitogen-Activated Protein Kinase Signaling. *Molecular Plant-Microbe Interactions*, **2019**, 32, 1496-1507	3.6	7
26	Complete Genome Sequence of a Tomato-Infecting Tomato Mottle Mosaic Virus in New York. *Genome Announcements*, **2015**, 3,		7
25	Pti4 Is Induced by Ethylene and Salicylic Acid, and Its Product Is Phosphorylated by the Pto Kinase. *Plant Cell*, **2000**, 12, 771	11.6	7
24	Overexpression of Pto Activates Defense Responses and Confers Broad Resistance. *Plant Cell*, **1999** , 11, 15	11.6	7
23	PP2C phosphatase Pic1 negatively regulates the phosphorylation status of Pti1b kinase, a regulator of flagellin-triggered immunity in tomato. *Biochemical Journal*, **2019**, 476, 1621-1635	3.8	6
22	Spelling changes and fluorescent tagging with prime editing vectors for plants		6
21	Pseudomonas syringae pv. tomato Strains from New York Exhibit Virulence Attributes Intermediate Between Typical Race 0 and Race 1 Strains. *Plant Disease*, **2017**, 101, 1442-1448	1.5	5
20	Molecular Characterization of Differences between the Tomato Immune Receptors Flagellin Sensing 3 and Flagellin Sensing 2. *Plant Physiology*, **2020**, 183, 1825-1837	6.6	5
19	A novel method of transcriptome interpretation reveals a quantitative suppressive effect on tomato immune signaling by two domains in a single pathogen effector protein. *BMC Genomics*, **2016**, 17, 229	4.5	5
18	Bradyrhizobium japonicum ntrBC/glnAandnifA/glnAMutants: Further Evidence that Separate Regulatory Pathways GovernglnllExpression in Free-Living and Symbiotic Cells. *Molecular Plant-Microbe Interactions*, **1991**, 4, 254	3.6	4
17	Molecular Cloning of Plant Disease Resistance Genes **1996**, 1-32		4
16	Thymoquinone causes multiple effects, including cell death, on dividing plant cells. *Comptes Rendus - Biologies*, **2013**, 336, 546-56	1.4	3
15	1H, 15N and 13C chemical shift assignments of the structured core of the pseudomonas effector protein AvrPto. *Journal of Biomolecular NMR*, **2002**, 23, 247-8	3	3

14	Analysis of the molecular basis of Pseudomonas syringae pv. tomato resistance in tomato. *Euphytica*, **1994**, 79, 187-193	2.1	3
13	Ser360 and Ser364 in the Kinase Domain of Tomato SlMAPKKK are Critical for Programmed Cell Death Associated with Plant Immunity. *Plant Pathology Journal*, **2017**, 33, 163-169	2.5	3
12	A Solanum lycopersicoides reference genome facilitates biological discovery in tomato		3
11	The tomato Pto gene confers resistance to Pseudomonas floridensis, an emergent plant pathogen with just nine type III effectors. *Plant Pathology*, **2019**, 68, 977-984	2.8	2
10	Ptr1 evolved convergently with RPS2 and Mr5 to mediate recognition of AvrRpt2 in diverse solanaceous species		2
9	Integrative Proteomic and Phosphoproteomic Analyses of Pattern- and Effector-Triggered Immunity in Tomato.. *Frontiers in Plant Science*, **2021**, 12, 768693	6.2	2
8	The Pseudomonas AvrPto Protein Is Differentially Recognized by Tomato and Tobacco and Is Localized to the Plant Plasma Membrane. *Plant Cell*, **2000**, 12, 2323	11.6	1
7	Generation and molecular characterization of CRISPR/Cas9-induced mutations in 63 immunity-associated genes in tomato reveals specificity and a range of gene modifications		1
6	Genome of Solanum pimpinellifolium provides insights into structural variants during tomato breeding		1
5	Detecting the interaction of peptide ligands with plant membrane receptors. *Current Protocols in Plant Biology*, **2017**, 2, 240-269	2.8	0
4	Molecular Mechanisms Involved in the Interaction Between Tomato and Pseudomonas syringae pv. tomato **2012**, 187-209		
3	Strategies used by bacterial pathogens to suppress plant defenses. *Current Opinion in Plant Biology*, **2004**, 7, 356-356	9.9	
2	Construction of plant yeast artificial chromosome libraries **1994**, 383-399		
1	Biochemical characterization of the Pto protein kinase conferring speck disease resistance in tomato. *Current Plant Science and Biotechnology in Agriculture*, **1999**, 541-544		