Mark J Guiltinan

List of Publications by Year
in descending order

86	4,804	71061	102432
papers	citations	41 h-index	66 g-index

89	89	89	5046
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inter-species functional compatibility of the Theobroma cacao and Arabidopsis FT orthologs: 90 million years of functional conservation of meristem identity genes. BMC Plant Biology, 2021, 21, 218.	1.6	3
2	Transcriptomic analyses of cacao flavonoids produced in photobioreactors. BMC Genomics, 2021, 22, 551.	1.2	3
3	Genomic structural variants constrain and facilitate adaptation in natural populations of Theobroma cacao , the chocolate tree. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	50
4	Gene Expression Modularity Reveals Footprints of Polygenic Adaptation in Theobroma cacao. Molecular Biology and Evolution, 2020, 37, 110-123.	3.5	22
5	Widely distributed variation in tolerance to Phytophthora palmivora in four genetic groups of cacao. Tree Genetics and Genomes, 2020, 16, 1.	0.6	15
6	Clovamide, a Hydroxycinnamic Acid Amide, Is a Resistance Factor Against Phytophthora spp. in Theobroma cacao. Frontiers in Plant Science, 2020, 11, 617520.	1.7	15
7	Resistant and susceptible cacao genotypes exhibit defense gene polymorphism and unique early responses to Phytophthora megakarya inoculation. Plant Molecular Biology, 2019, 99, 499-516.	2.0	24
8	Glucocorticoid receptor-regulated TcLEC2 expression triggers somatic embryogenesis in Theobroma cacao leaf tissue. PLoS ONE, 2018, 13, e0207666.	1.1	10
9	Transcriptomic analyses of cacao cell suspensions in light and dark provide target genes for controlled flavonoid production. Scientific Reports, 2018, 8, 13575.	1.6	14
10	Transient Expression of CRISPR/Cas9 Machinery Targeting TcNPR3 Enhances Defense Response in Theobroma cacao. Frontiers in Plant Science, 2018, 9, 268.	1.7	192
11	Phytophthora megakarya and Phytophthora palmivora, Closely Related Causal Agents of Cacao Black Pod Rot, Underwent Increases in Genome Sizes and Gene Numbers by Different Mechanisms. Genome Biology and Evolution, 2017, 9, 536-557.	1.1	71
12	Enhanced resistance in <scp>T</scp>heobroma cacao against oomycete and fungal pathogens by secretion of phosphatidylinositolâ€3â€phosphateâ€binding proteins. Plant Biotechnology Journal, 2016, 14, 875-886.	4.1	45
13	Theobroma cacao L. pathogenesis-related gene tandem array members show diverse expression dynamics in response to pathogen colonization. BMC Genomics, 2016, 17, 363.	1.2	45
14	Protocol: transient expression system for functional genomics in the tropical tree Theobroma cacao L.. Plant Methods, 2016, 12, 19.	1.9	38
15	TwoTheobroma cacaogenotypes with contrasting pathogen tolerance show aberrant transcriptional and ROS responses after salicylic acid treatment. Journal of Experimental Botany, 2015, 66, 6245-6258.	2.4	29
16	Application of glycerol as a foliar spray activates the defence response and enhances disease resistance of <scp>T</scp>heobroma cacao. Molecular Plant Pathology, 2015, 16, 27-37.	2.0	32
17	Proteome analysis during pod, zygotic and somatic embryo maturation of Theobroma cacao. Journal of Plant Physiology, 2015, 180, 49-60.	1.6	19
18	Characterization of a stearoyl-acyl carrier protein desaturase gene family from chocolate tree, Theobroma cacao L. Frontiers in Plant Science, 2015, 6, 239.	1.7	62

#	Article	IF	Citations
19	Tc-MYBPA is an Arabidopsis TT2-like transcription factor and functions in the regulation of proanthocyanidin synthesis in Theobroma cacao. BMC Plant Biology, 2015, 15, 160.	1.6	31
20	Enhanced somatic embryogenesis in Theobroma cacao using the homologous BABY BOOM transcription factor. BMC Plant Biology, 2015, 15, 121.	1.6	123
21	Yield Performance and Bean Quality Traits of Cacao Propagated by Grafting and Somatic Embryo-derived Cuttings. Hortscience: A Publication of the American Society for Hortcultural Science, 2015, 50, 358-362.	0.5	17
22	Pervasive effects of a dominant foliar endophytic fungus on host genetic and phenotypic expression in a tropical tree. Frontiers in Microbiology, 2014, 5, 479.	1.5	135
23	Genome-wide analysis reveals divergent patterns of gene expression during zygotic and somatic embryo maturation of Theobroma cacao L., the chocolate tree. BMC Plant Biology, 2014, 14, 185.	1.6	27
24	The Theobroma cacao B3 domain transcription factor TcLEC2plays a duel role in control of embryo development and maturation. BMC Plant Biology, 2014, 14, 106.	1.6	46
25	TcNPR3 from Theobroma cacao functions as a repressor of the pathogen defense response. BMC Plant Biology, 2013, 13, 204.	1.6	31
26	Proanthocyanidin synthesis in Theobroma cacao: genes encoding anthocyanidin synthase, anthocyanidin reductase, and leucoanthocyanidin reductase. BMC Plant Biology, 2013, 13, 202.	1.6	94
27	Dynamic changes in pod and fungal physiology associated with the shift from biotrophy to necrotrophy during the infection of Theobroma cacao by Moniliophthora roreri. Physiological and Molecular Plant Pathology, 2013, 81, 84-96.	1.3	33
28	Biodegradable polyphosphazenes containing antibiotics: synthesis, characterization, and hydrolytic release behavior. Polymer Chemistry, 2013, 4, 1826.	1.9	43
29	The Salicylic Acid Receptor NPR3 Is a Negative Regulator of the Transcriptional Defense Response during Early Flower Development in Arabidopsis. Molecular Plant, 2013, 6, 802-816.	3.9	58
30	Expression of Designed Antimicrobial Peptides inTheobroma cacaoL. Trees Reduces Leaf Necrosis Caused byPhytophthoraspp.. ACS Symposium Series, 2012, , 379-395.	0.5	13
31	Starch-Branching Enzyme IIa Is Required for Proper Diurnal Cycling of Starch in Leaves of Maize Â. Plant Physiology, 2011, 156, 479-490.	2.3	36
32	The genome of Theobroma cacao. Nature Genetics, 2011, 43, 101-108.	9.4	656
33	Genes Acquired by Horizontal Transfer Are Potentially Involved in the Evolution of Phytopathogenicity in Moniliophthora perniciosa and Moniliophthora roreri, Two of the Major Pathogens of Cacao. Journal of Molecular Evolution, 2010, 70, 85-97.	0.8	34
34	Deciphering the genome structure and paleohistory of Theobroma cacao. Nature Precedings, 2010, , .	0.1	1
35	Functional analysis of the Theobroma cacao NPR1 gene in arabidopsis. BMC Plant Biology, 2010, 10, 248.	1.6	63
36	Functional Genomics of Cacao. Advances in Botanical Research, 2010, 55, 119-177.	0.5	17

#	Article	IF	Citations
37	Infection Biology of Moniliophthora perniciosa on Theobroma cacao and Alternate Solanaceous Hosts. Tropical Plant Biology, 2009, 2, 149-160.	1.0	30
38	Hydrogen production by Clostridium acetobutylicum ATCC 824Âand megaplasmid-deficient mutant M5 evaluated using a large headspace volume technique. International Journal of Hydrogen Energy, 2009, 34, 9347-9353.	3.8	51
39	Field performance of Theobroma cacao L. plants propagated via somatic embryogenesis. In Vitro Cellular and Developmental Biology - Plant, 2008, 44, 487-493.	0.9	19
40	Towards the understanding of the cocoa transcriptome: Production and analysis of an exhaustive dataset of ESTs of Theobroma cacao L. generated from various tissues and under various conditions. BMC Genomics, 2008, 9, 512.	1.2	112
41	A genome survey of Moniliophthora perniciosa gives new insights into Witches' Broom Disease of cacao. BMC Genomics, 2008, 9, 548.	1.2	120
42	Bacterial endophytes: Bacillus spp. from annual crops as potential biological control agents of black pod rot of cacao. Biological Control, 2008, 46, 46-56.	1.4	119
43	Genomics of Theobroma cacao, â€œthe Food of the Godsâ€•, 2008, , 145-170.		15
44	Mutation of the maize sbe1a and ae genes alters morphology and physical behavior of wx-type endosperm starch granules. Carbohydrate Research, 2007, 342, 2619-2627.	1.1	24
45	The Use of Laser Differential Interference Contrast Microscopy for the Characterization of Starch Granule Ring Structure. Starch/Staerke, 2006, 58, 1-5.	1.1	11
46	Over-expression of a cacao class I chitinase gene in Theobroma cacao L. enhances resistance against the pathogen, Colletotrichum gloeosporioides. Planta, 2006, 224, 740-749.	1.6	79
47	Effects of Carbon Source and Explant Type on Somatic Embryogenesis of Four Cacao Genotypes. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 753-758.	0.5	17
48	High-performance size-exclusion chromatography (HPSEC) and fluorophore-assisted carbohydrate electrophoresis (FACE) to describe the chain-length distribution of debranched starch. Carbohydrate Research, 2005, 340, 701-710.	1.1	22
49	Developmental expression of stress response genes in Theobroma cacao leaves and their response to Nep1 treatment and a compatible infection by Phytophthora megakarya. Plant Physiology and Biochemistry, 2005, 43, 611-622.	2.8	48
50	Gene expression in leaves of Theobroma cacao in response to mechanical wounding, ethylene, and/or methyl jasmonate. Plant Science, 2005, 168, 1247-1258.	1.7	65
51	Phosphatase Under-Producer Mutants Have Altered Phosphorus Relations. Plant Physiology, 2004, 135, 334-345.	2.3	58
52	Maize Starch-Branching Enzyme Isoforms and Amylopectin Structure. In the Absence of Starch-Branching Enzyme IIb, the Further Absence of Starch-Branching Enzyme Ia Leads to Increased Branching. Plant Physiology, 2004, 136, 3515-3523.	2.3	99
53	Isolation of ESTs from cacao (Theobroma cacao L.) leaves treated with inducers of the defense response. Plant Cell Reports, 2004, 23, 404-413.	2.8	65
54	Micropropagation of Theobroma cacao L. using somatic embryo-derived plants. In Vitro Cellular and Developmental Biology - Plant, 2003, 39, 332-337.	0.9	32

#	Article	IF	Citations
55	Stable transformation of Theobroma cacao L. and influence of matrix attachment regions on GFP expression. Plant Cell Reports, 2003, 21, 872-883.	2.8	67
56	Moxalactam as a counter-selection antibiotic for Agrobacterium-mediated transformation and its positive effects on Theobroma cacao somatic embryogenesis. Plant Science, 2003, 164, 607-615.	1.7	24
57	Single Kernel Sampling Method for Maize Starch Analysis While Maintaining Kernel Vitality. Cereal Chemistry, 2002, 79, 757-762.	1.1	9
58	Identification of Mutator insertional mutants of starch-branching enzyme 1 (sbe1) in Zea mays L. Plant Molecular Biology, 2002, 48, 287-297.	2.0	129
59	Efficiency, genotypic variability, and cellular origin of primary and secondary somatic embryogenesis of Theobroma cacao L.. In Vitro Cellular and Developmental Biology - Plant, 2002, 38, 252-259.	0.9	98
60	Identification of Mutator Insertional Mutants of Starch-Branching Enzyme 2a in Corn. Plant Physiology, 2001, 125, 1396-1405.	2.3	116
61	Identification of cis-Acting Elements Important for Expression of the Starch-Branching Enzyme I Gene in Maize Endosperm. Plant Physiology, 1999, 121, 225-236.	2.3	47
62	Bipartite determinants of DNA-binding specificity of plant basic leucine zipper proteins. Plant Molecular Biology, 1999, 41, 1-13.	2.0	49
63	The maize EmBP-1 orthologue differentially regulates opaque2-dependent gene expression in yeast and cultured maize endosperm cells. Plant Molecular Biology, 1999, 41, 339-349.	2.0	15
64	Investigation of Agrobacterium-mediated transformation of apple using green fluorescent protein: high transient expression and low stable transformation suggest that factors other than T-DNA transfer are rate-limiting. Plant Molecular Biology, 1998, 37, 549-559.	2.0	97
65	Molecular cloning and characterization of the Amylose-Extender gene encoding starch branching enzyme IIB in maize. Plant Molecular Biology, 1998, 38, 945-956.	2.0	56
66	Overexpression of deltaEmBP, a truncated dominant negative version of the wheat G-box binding protein EmBP-1, alters vegetative development in transgenic tobacco. Plant Molecular Biology, 1998, 38, 539-549.	2.0	6
67	Somatic embryogenesis and plant regeneration from floral explants of cacao (Theobroma cacao L.) using thidiazuron. In Vitro Cellular and Developmental Biology - Plant, 1998, 34, 293-299.	0.9	104
68	Genomic organization and promoter activity of the maize starch branching enzyme I gene. Gene, 1998, 216, 233-243.	1.0	24
69	Two closely related cDNAs encoding starch branching enzyme from Arabidopsis thaliana. Plant Molecular Biology, 1996, 30, 97-108.	2.0	50
70	Evolutionary conservation and expression patterns of maize starch branching enzyme I and IIb genes suggests isoform specialization. Plant Molecular Biology, 1996, 30, 1223-1232.	2.0	85
71	cDNA encoding a wheat (Triticum aestivum cv. Chinese Spring) glycine-rich RNA-binding protein. Plant Molecular Biology, 1996, 30, 1301-1306.	2.0	10
72	In vitro plantlet regeneration from cotyledon, hypocotyl and root explants of hybrid seed geranium. Plant Cell, Tissue and Organ Culture, 1996, 45, 61-66.	1.2	14

#	Article	IF	Citations
73	Binding of the Wheat Basic Leucine Zipper Protein EmBP-1 to Nucleosomal Binding Sites Is Modulated by Nucleosome Positioning. Plant Cell, 1996, 8, 1569.	3.1	3
74	Rapid, efficient production of homozygous transgenic tobacco plants withagrobacterium tumefaciens: A seed-to-seed protocol. Plant Molecular Biology Reporter, 1995, 13, 278-289.	1.0	54
75	DNA binding specificity of the wheat bZIP protein EmBP-1. Nucleic Acids Research, 1994, 22, 4969-4978.	6.5	64
76	Molecular characterization of the DNA-binding and dimerization domains of the bZIP transcription factor, EmBP-1. Plant Molecular Biology, 1994, 26, 1041-1053.	2.0	21
77	Hypocotyl expression and light downregulation of the soybean tubulin gene, tubB1. Plant Journal, 1994, 5, 343-351.	2.8	22
78	The cis-regulatory element CCACGTGG is involved in ABA and water-stress responses of the maize gene rab28. Plant Molecular Biology, 1993, 21, 259-266.	2.0	130
79	ABA-regulated gene expression: cis-acting sequences and trans-acting factors. Biochemical Society Transactions, 1992, 20, 93-97.	1.6	19
80	High mobility group chromosomal proteins bind to AT-rich tracts flanking plant genes. Plant Molecular Biology, 1991, 16, 95-104.	2.0	94
81	Light Regulation of Î²-Tubulin Gene Expression during Internode Development in Soybean (Glycine max) Tj ETQq1 1 0.784314 rgBT /Ov	2.3	26
82	Regulation of b-Glucuronidase Expression in Transgenic Tobacco Plants by an A/T-Rich, cis-Acting Sequence Found Upstream of a French Bean b-Phaseolin Gene. Plant Cell, 1989, 1, 839.	3.1	114
83	Carrot (Daucus carota) hypocotyl transformation usingAgrobacterium tumefaciens. Plant Cell Reports, 1989, 8, 354-357.	2.8	43
84	Expression of DNA binding proteins in carrot somatic embryos that specifically interact with a cis regulatory element of the French bean phaseolin gene. Plant Molecular Biology, 1989, 13, 605-610.	2.0	7
85	The expression of a chimeric soybean beta-tubulin gene in tobacco. Molecular Genetics and Genomics, 1987, 207, 328-334.	2.4	12
86	The isolation, characterization and sequence of two divergent ?-tubulin genes from soybean (Glycine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	57