Wilhelm Gruissem

List of Publications by Year in Descending Order

272 papers	24,900 citations	83 h-index	152 g-index
284 ext. papers	27,987 ext. citations	8.9 avg, IF	6.89 L-index

#	Paper	IF	Citations
272	The haplotype-resolved chromosome pairs of a heterozygous diploid African cassava cultivar reveal novel pan-genome and allele-specific transcriptome features.. *GigaScience*, **2022**, 11,	7.6	1
271	Natural Variation in Vitamin B and Vitamin B Contents in Rice Germplasm.. *Frontiers in Plant Science* , **2022**, 13, 856880	6.2	0
270	Efficient Genetic Transformation and Regeneration of a Farmer-Preferred Cassava Cultivar From Ghana. *Frontiers in Plant Science*, **2021**, 12, 668042	6.2	5
269	Current progress and challenges in crop genetic transformation. *Journal of Plant Physiology*, **2021**, 261, 153411	3.6	7
268	Diurnal dynamics of the Arabidopsis rosette proteome and phosphoproteome. *Plant, Cell and Environment*, **2021**, 44, 821-841	8.4	14
267	The Cassava Source-Sink project: opportunities and challenges for crop improvement by metabolic engineering. *Plant Journal*, **2020**, 103, 1655-1665	6.9	11
266	Morpho-physiological and molecular evaluation of drought tolerance in cassava (Manihot esculenta Crantz). *Field Crops Research*, **2020**, 255, 107861	5.5	7
265	Genome Wide Analysis of the Transcriptional Profiles in Different Regions of the Developing Rice Grains. *Rice*, **2020**, 13, 62	5.8	6
264	Multiplying the efficiency and impact of biofortification through metabolic engineering. *Nature Communications*, **2020**, 11, 5203	17.4	40
263	Screening for Resistance in Farmer-Preferred Cassava Cultivars from Ghana to a Mixed Infection of CBSV and UCBSV. *Plants*, **2020**, 9,	4.5	3
262	Haplotype-resolved genomes of geminivirus-resistant and geminivirus-susceptible African cassava cultivars. *BMC Biology*, **2019**, 17, 75	7.3	25
261	Enhancement of vitamin B levels in rice expressing Arabidopsis vitamin B biosynthesis de novo genes. *Plant Journal*, **2019**, 99, 1047-1065	6.9	14
260	Linking CRISPR-Cas9 interference in cassava to the evolution of editing-resistant geminiviruses. *Genome Biology*, **2019**, 20, 80	18.3	83
259	Diurnal changes in concerted plant protein phosphorylation and acetylation in Arabidopsis organs and seedlings. *Plant Journal*, **2019**, 99, 176-194	6.9	37
258	Targeting intracellular transport combined with efficient uptake and storage significantly increases grain iron and zinc levels in rice. *Plant Biotechnology Journal*, **2019**, 17, 9-20	11.6	38
257	Symplasmic phloem unloading and radial post-phloem transport via vascular rays in tuberous roots of Manihot esculenta. *Journal of Experimental Botany*, **2019**, 70, 5559-5573	7	15
256	A new full-length circular DNA sequencing method for viral-sized genomes reveals that RNAi transgenic plants provoke a shift in geminivirus populations in the field. *Nucleic Acids Research*, **2019**, 47, e9	20.1	12

255	Photoperiodic control of the proteome reveals a translational coincidence mechanism. *Molecular Systems Biology*, **2018**, 14, e7962	12.2	44
254	Facilitated citrate-dependent iron translocation increases rice endosperm iron and zinc concentrations. *Plant Science*, **2018**, 270, 13-22	5.3	29
253	Molecular insights into Cassava brown streak virus susceptibility and resistance by profiling of the early host response. *Molecular Plant Pathology*, **2018**, 19, 476-489	5.7	29
252	Cassava post-harvest physiological deterioration: From triggers to symptoms. *Postharvest Biology and Technology*, **2018**, 142, 115-123	6.2	24
251	Genetic Transformation of Recalcitrant Cassava by Embryo Selection and Increased Hormone Levels. *Methods and Protocols*, **2018**, 1,	2.5	5
250	A tribute to Lars Hennig (1970-2018). *Journal of Experimental Botany*, **2018**,	7	1
249	Function of the Retinoblastoma-Related Protein in Plants **2018**, 164-186		
248	Accelerated ex situ breeding of - and -edited cassava for modified starch. *Science Advances*, **2018**, 4, eaat6086	4.9	71
247	Cassava geminivirus agroclones for virus-induced gene silencing in cassava leaves and roots. *Plant Methods*, **2018**, 14, 73	5.8	12
246	Rationalising vitamin B biofortification in crop plants. *Current Opinion in Biotechnology*, **2017**, 44, 130-137	11.4	23
245	Parallel analysis of circadian clock mutants reveals different scales of transcriptome and proteome regulation. *Open Biology*, **2017**, 7,	7	36
244	Tackling agriculturally relevant diseases in the staple crop cassava (Manihot esculenta). *Current Opinion in Plant Biology*, **2017**, 38, 50-58	9.9	40
243	Vitamin B1 diversity and characterization of biosynthesis genes in cassava. *Journal of Experimental Botany*, **2017**, 68, 3351-3363	7	13
242	Genome-scale analysis of regulatory protein acetylation enzymes from photosynthetic eukaryotes. *BMC Genomics*, **2017**, 18, 514	4.5	5
241	Alpha-Glucan, Water Dikinase 1 Affects Starch Metabolism and Storage Root Growth in Cassava (Manihot esculenta Crantz). *Scientific Reports*, **2017**, 7, 9863	4.9	12
240	Single genetic locus improvement of iron, zinc and -carotene content in rice grains. *Scientific Reports*, **2017**, 7, 6883	4.9	41
239	Iron biofortification in the 21st century: setting realistic targets, overcoming obstacles, and new strategies for healthy nutrition. *Current Opinion in Biotechnology*, **2017**, 44, 8-15	11.4	73
238	Rice NICOTIANAMINE SYNTHASE 2 expression improves dietary iron and zinc levels in wheat. *Theoretical and Applied Genetics*, **2017**, 130, 283-292	6	61

237	Enhanced Grain Iron Levels in Rice Expressing an , and Gene Cassette. *Frontiers in Plant Science*, **2017**, 8, 130	6.2	62
236	FLOWERING LOCUS T Triggers Early and Fertile Flowering in Glasshouse Cassava (Manihot esculenta Crantz). *Plants*, **2017**, 6,	4.5	18
235	Cracking the Interorganellar Communication Codes. *FASEB Journal*, **2017**, 31, 617.2	0.9	
234	NOD promoter-controlled AtIRT1 expression functions synergistically with NAS and FERRITIN genes to increase iron in rice grains. *Plant Molecular Biology*, **2016**, 90, 207-15	4.6	54
233	Arabidopsis GERANYLGERANYL DIPHOSPHATE SYNTHASE 11 is a hub isozyme required for the production of most photosynthesis-related isoprenoids. *New Phytologist*, **2016**, 209, 252-64	9.8	73
232	BRR2a Affects Flowering Time via FLC Splicing. *PLoS Genetics*, **2016**, 12, e1005924	6	35
231	Geographically Distinct and Domain-Specific Sequence Variations in the Alleles of Rice Blast Resistance Gene Pib. *Frontiers in Plant Science*, **2016**, 7, 915	6.2	9
230	Meselect - A Rapid and Effective Method for the Separation of the Main Leaf Tissue Types. *Frontiers in Plant Science*, **2016**, 7, 1701	6.2	9
229	The Arabidopsis leaf transcriptome reveals distinct but also overlapping responses to colonization by phyllosphere commensals and pathogen infection with impact on plant health. *New Phytologist*, **2016**, 212, 192-207	9.8	82
228	Characterization of Brown Streak Virus-Resistant Cassava. *Molecular Plant-Microbe Interactions*, **2016**, 29, 527-34	3.6	13
227	H3K36ac Is an Evolutionary Conserved Plant Histone Modification That Marks Active Genes. *Plant Physiology*, **2016**, 170, 1566-77	6.6	55
226	Diurnal changes in the histone H3 signature H3K9ac|H3K27ac|H3S28p are associated with diurnal gene expression in Arabidopsis. *Plant, Cell and Environment*, **2016**, 39, 2557-2569	8.4	23
225	A long photoperiod relaxes energy management in Arabidopsis leaf six. *Current Plant Biology*, **2015**, 2, 34-45	3.3	19
224	The environment exerts a greater influence than the transgene on the transcriptome of field-grown wheat expressing the Pm3b allele. *Transgenic Research*, **2015**, 24, 87-97	3.3	5
223	Genetically modified crops: the truth unveiled. *Agriculture and Food Security*, **2015**, 4,	3.1	5
222	Increased bioavailable vitamin B6 in field-grown transgenic cassava for dietary sufficiency. *Nature Biotechnology*, **2015**, 33, 1029-32	44.5	42
221	Identification and characterization of chloroplast casein kinase II from Oryza sativa (rice). *Journal of Experimental Botany*, **2015**, 66, 175-87	7	13
220	Chromatin assembly factor CAF-1 represses priming of plant defence response genes. *Nature Plants*, **2015**, 1, 15127	11.5	43

219	Identification of novel alleles of the rice blast resistance gene Pi54. *Scientific Reports*, **2015**, 5, 15678	4.9	34
218	Proteasome targeting of proteins in Arabidopsis leaf mesophyll, epidermal and vascular tissues. *Frontiers in Plant Science*, **2015**, 6, 376	6.2	31
217	The KnownLeaf literature curation system captures knowledge about Arabidopsis leaf growth and development and facilitates integrated data mining. *Current Plant Biology*, **2015**, 2, 1-11	3.3	5
216	Arabidopsis RETINOBLASTOMA-RELATED and Polycomb group proteins: cooperation during plant cell differentiation and development. *Journal of Experimental Botany*, **2014**, 65, 2667-76	7	41
215	Protein abundance changes and ubiquitylation targets identified after inhibition of the proteasome with syringolin A. *Molecular and Cellular Proteomics*, **2014**, 13, 1523-36	7.6	26
214	Arabidopsis replacement histone variant H3.3 occupies promoters of regulated genes. *Genome Biology*, **2014**, 15, R62	18.3	46
213	ExpressionData - A public resource of high quality curated datasets representing gene expression across anatomy, development and experimental conditions. *BioData Mining*, **2014**, 7, 18	4.3	19
212	Large-Scale Proteomics of the Cassava Storage Root and Identification of a Target Gene to Reduce Postharvest Deterioration. *Plant Cell*, **2014**, 26, 1913-1924	11.6	56
211	Large scale germplasm screening for identification of novel rice blast resistance sources. *Frontiers in Plant Science*, **2014**, 5, 505	6.2	51
210	Glucan, Water Dikinase Exerts Little Control over Starch Degradation in Arabidopsis Leaves at Night. *Plant Physiology*, **2014**, 165, 866-879	6.6	61
209	Distinct evolutionary strategies in the GGPPS family from plants. *Frontiers in Plant Science*, **2014**, 5, 230	6.2	27
208	A flexible protocol for targeted gene co-expression network analysis. *Methods in Molecular Biology*, **2014**, 1153, 285-99	1.4	7
207	Proteomics of model and crop plant species: status, current limitations and strategic advances for crop improvement. *Journal of Proteomics*, **2013**, 93, 5-19	3.9	68
206	Transcript profiling in Arabidopsis with genome tiling microarrays. *Methods in Molecular Biology*, **2013**, 1067, 35-49	1.4	3
205	Controlled vocabularies for plant anatomical parts optimized for use in data analysis tools and for cross-species studies. *Plant Methods*, **2013**, 9, 33	5.8	1
204	Nutritional enhancement of rice for human health: the contribution of biotechnology. *Biotechnology Advances*, **2013**, 31, 50-7	17.8	129
203	The Arabidopsis Rho of plants GTPase AtROP6 functions in developmental and pathogen response pathways. *Plant Physiology*, **2013**, 161, 1172-88	6.6	61
202	Network analysis of the MVA and MEP pathways for isoprenoid synthesis. *Annual Review of Plant Biology*, **2013**, 64, 665-700	30.7	511

201	Characterization of the GGPP synthase gene family in Arabidopsis thaliana. *Plant Molecular Biology*, **2013**, 82, 393-416	4.6	84
200	Arabidopsis MSI1 connects LHP1 to PRC2 complexes. *EMBO Journal*, **2013**, 32, 2073-85	13	159
199	Measuring Arabidopsis chromatin accessibility using DNase I-polymerase chain reaction and DNase I-chip assays. *Plant Physiology*, **2013**, 162, 1794-801	6.6	19
198	Nicotianamine synthase overexpression positively modulates iron homeostasis-related genes in high iron rice. *Frontiers in Plant Science*, **2013**, 4, 156	6.2	37
197	Strategies for vitamin B6 biofortification of plants: a dual role as a micronutrient and a stress protectant. *Frontiers in Plant Science*, **2013**, 4, 143	6.2	49
196	Unlocking the potential of tropical root crop biotechnology in east Africa by establishing a genetic transformation platform for local farmer-preferred cassava cultivars. *Frontiers in Plant Science*, **2013**, 4, 526	6.2	31
195	Global regulatory architecture of human, mouse and rat tissue transcriptomes. *BMC Genomics*, **2013** , 14, 716	4.5	14
194	Structure and dynamics of the isoprenoid pathway network. *Molecular Plant*, **2012**, 5, 318-33	14.4	203
193	Distinct modes of DNA accessibility in plant chromatin. *Nature Communications*, **2012**, 3, 1281	17.4	40
192	Proteomics and its application in plant biotechnology **2012**, 55-65		
191	Systems-based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. *Molecular Systems Biology*, **2012**, 8, 606	12.2	163
190	Emerging roles of RETINOBLASTOMA-RELATED proteins in evolution and plant development. *Trends in Plant Science*, **2012**, 17, 139-48	13.1	74
189	Integrative genome-wide expression profiling identifies three distinct molecular subgroups of renal cell carcinoma with different patient outcome. *BMC Cancer*, **2012**, 12, 310	4.8	23
188	Evaluation of alternative RNA labeling protocols for transcript profiling with Arabidopsis AGRONOMICS1 tiling arrays. *Plant Methods*, **2012**, 8, 18	5.8	7
187	Robust transformation procedure for the production of transgenic farmer-preferred cassava landraces. *Plant Methods*, **2012**, 8, 24	5.8	35
186	The global plant council: Increasing the impact of plant research to meet global challenges **2012**, 55, 343-348		9
185	Exact biclustering algorithm for the analysis of large gene expression data sets. *BMC Bioinformatics* , **2012**, 13,	3.6	9
184	Exploiting the combination of natural and genetically engineered resistance to cassava mosaic and cassava brown streak viruses impacting cassava production in Africa. *PLoS ONE*, **2012**, 7, e45277	3.7	71

183	pep2pro: the high-throughput proteomics data processing, analysis, and visualization tool. *Frontiers in Plant Science*, **2012**, 3, 123	6.2	25
182	High-throughput genomic sequencing of cassava bacterial blight strains identifies conserved effectors to target for durable resistance. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E1972-9	11.5	97
181	AtIPD: a curated database of Arabidopsis isoprenoid pathway models and genes for isoprenoid network analysis. *Plant Physiology*, **2011**, 156, 1655-60	6.6	28
180	Plastid proteome assembly without Toc159: photosynthetic protein import and accumulation of N-acetylated plastid precursor proteins. *Plant Cell*, **2011**, 23, 3911-28	11.6	68
179	iTRAQ-based analysis of changes in the cassava root proteome reveals pathways associated with post-harvest physiological deterioration. *Plant Journal*, **2011**, 67, 145-56	6.9	82
178	Reference genes for reliable potyvirus quantitation in cassava and analysis of Cassava brown streak virus load in host varieties. *Journal of Virological Methods*, **2011**, 177, 49-54	2.6	45
177	Efficient transformation and regeneration of transgenic cassava using the neomycin phosphotransferase gene as aminoglycoside resistance marker gene. *GM Crops*, **2011**, 2, 193-200		11
176	The BioCassava plus program: biofortification of cassava for sub-Saharan Africa. *Annual Review of Plant Biology*, **2011**, 62, 251-72	30.7	190
175	Cassava: constraints to production and the transfer of biotechnology to African laboratories. *Plant Cell Reports*, **2011**, 30, 779-87	5.1	49
174	RefGenes: identification of reliable and condition specific reference genes for RT-qPCR data normalization. *BMC Genomics*, **2011**, 12, 156	4.5	206
173	Integrated proteome and metabolite analysis of the de-etiolation process in plastids from rice (Oryza sativa L.). *Proteomics*, **2011**, 11, 1751-63	4.8	19
172	pep2pro: a new tool for comprehensive proteome data analysis to reveal information about organ-specific proteomes in Arabidopsis thaliana. *Integrative Biology (United Kingdom)*, **2011**, 3, 225-37	3.7	60
171	RETINOBLASTOMA-RELATED PROTEIN controls the transition to autotrophic plant development. *Development (Cambridge)*, **2011**, 138, 2977-86	6.6	41
170	Ectopic gene expression and organogenesis in Arabidopsis mutants missing BRU1 required for genome maintenance. *Genetics*, **2011**, 189, 83-95	4	13
169	Comparative phosphoproteome profiling reveals a function of the STN8 kinase in fine-tuning of cyclic electron flow (CEF). *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 12955-60	11.5	122
168	MASCP Gator: an aggregation portal for the visualization of Arabidopsis proteomics data. *Plant Physiology*, **2011**, 155, 259-70	6.6	83
167	Senescence-inducible expression of isopentenyl transferase extends leaf life, increases drought stress resistance and alters cytokinin metabolism in cassava. *Journal of Integrative Plant Biology*, **2010**, 52, 653-69	8.3	102
166	The Arabidopsis thaliana FPP synthase isozymes have overlapping and specific functions in isoprenoid biosynthesis, and complete loss of FPP synthase activity causes early developmental arrest. *Plant Journal*, **2010**, 63, 512-25	6.9	64

165	Probing the reproducibility of leaf growth and molecular phenotypes: a comparison of three Arabidopsis accessions cultivated in ten laboratories. *Plant Physiology*, **2010**, 152, 2142-57	6.6	110
164	Gene expression analysis, proteomics, and network discovery. *Plant Physiology*, **2010**, 152, 402-10	6.6	85
163	Arabidopsis RETINOBLASTOMA-RELATED is required for stem cell maintenance, cell differentiation, and lateral organ production. *Plant Cell*, **2010**, 22, 1792-811	11.6	126
162	Dosage-sensitive function of retinoblastoma related and convergent epigenetic control are required during the Arabidopsis life cycle. *PLoS Genetics*, **2010**, 6, e1000988	6	41
161	AGRONOMICS1: a new resource for Arabidopsis transcriptome profiling. *Plant Physiology*, **2010**, 152, 487-99	6.6	56
160	A gain-of-function mutation of Arabidopsis cryptochrome1 promotes flowering. *Plant Physiology*, **2010**, 154, 1633-45	6.6	37
159	Large-scale Arabidopsis phosphoproteome profiling reveals novel chloroplast kinase substrates and phosphorylation networks. *Plant Physiology*, **2009**, 150, 889-903	6.6	357
158	Gametophyte differentiation and imprinting control in plants: Crosstalk between RBR and chromatin. *Communicative and Integrative Biology*, **2009**, 2, 144-6	1.7	11
157	Arabidopsis MSI1 is required for negative regulation of the response to drought stress. *Molecular Plant*, **2009**, 2, 675-687	14.4	83
156	The chloroplast kinase network: new insights from large-scale phosphoproteome profiling. *Molecular Plant*, **2009**, 2, 1141-53	14.4	47
155	Dose-dependent RNAi-mediated geminivirus resistance in the tropical root crop cassava. *Plant Molecular Biology*, **2009**, 70, 265-72	4.6	116
154	Agrobacterium-mediated transformation of friable embryogenic calli and regeneration of transgenic cassava. *Nature Protocols*, **2009**, 4, 1845-54	18.8	88
153	Rice endosperm iron biofortification by targeted and synergistic action of nicotianamine synthase and ferritin. *Plant Biotechnology Journal*, **2009**, 7, 631-44	11.6	219
152	The chromodomain of LIKE HETEROCHROMATIN PROTEIN 1 is essential for H3K27me3 binding and function during Arabidopsis development. *PLoS ONE*, **2009**, 4, e5335	3.7	99
151	Preparation and analysis of plant and plastid proteomes by 2DE. *Methods in Molecular Biology*, **2009** , 519, 205-20	1.4	4
150	Carboxyl-methylation of prenylated calmodulin CaM53 is required for efficient plasma membrane targeting of the protein. *Plant Journal*, **2008**, 24, 775-784	6.9	5
149	Genome-scale Arabidopsis promoter array identifies targets of the histone acetyltransferase GCN5. *Plant Journal*, **2008**, 56, 493-504	6.9	92
148	Control of trichome branching by chromatin assembly factor-1. *BMC Plant Biology*, **2008**, 8, 54	5.3	22

147	Annotating novel genes by integrating synthetic lethals and genomic information. *BMC Systems Biology*, **2008**, 2, 3	3.5	6
146	A dynamic reciprocal RBR-PRC2 regulatory circuit controls Arabidopsis gametophyte development. *Current Biology*, **2008**, 18, 1680-6	6.3	87
145	PlantDB - a versatile database for managing plant research. *Plant Methods*, **2008**, 4, 1	5.8	49
144	Genevestigator transcriptome meta-analysis and biomarker search using rice and barley gene expression databases. *Molecular Plant*, **2008**, 1, 851-7	14.4	85
143	Farnesylation directs AtIPT3 subcellular localization and modulates cytokinin biosynthesis in Arabidopsis. *Plant Physiology*, **2008**, 146, 1155-64	6.6	53
142	Genevestigator v3: a reference expression database for the meta-analysis of transcriptomes. *Advances in Bioinformatics*, **2008**, 2008, 420747	5.5	1382
141	Genome-scale proteomics reveals Arabidopsis thaliana gene models and proteome dynamics. *Science*, **2008**, 320, 938-41	33.3	419
140	Characterization of post-translational modifications of histone H2B-variants isolated from Arabidopsis thaliana. *Journal of Proteome Research*, **2007**, 6, 3655-68	5.6	57
139	A workflow to increase the detection rate of proteins from unsequenced organisms in high-throughput proteomics experiments. *Proteomics*, **2007**, 7, 4245-54	4.8	42
138	EVE (external variance estimation) increases statistical power for detecting differentially expressed genes. *Plant Journal*, **2007**, 52, 561-9	6.9	5
137	Engineering resistance to geminiviruses--review and perspectives. *Plant Biotechnology Journal*, **2007**, 5, 207-20	11.6	94
136	Transgenic cassava resistance to African cassava mosaic virus is enhanced by viral DNA-A bidirectional promoter-derived siRNAs. *Plant Molecular Biology*, **2007**, 64, 549-57	4.6	80
135	Flavonoid profiling among wild type and related GM wheat varieties. *Plant Molecular Biology*, **2007**, 65, 645-54	4.6	50
134	PepSplice: cache-efficient search algorithms for comprehensive identification of tandem mass spectra. *Bioinformatics*, **2007**, 23, 3016-23	7.2	28
133	Proteome dynamics during plastid differentiation in rice. *Plant Physiology*, **2007**, 143, 912-23	6.6	109
132	Proteome analysis of chloroplast mRNA processing and degradation. *Journal of Proteome Research*, **2007**, 6, 809-20	5.6	20
131	Network analysis of systems elements. *Exs*, **2007**, 97, 331-51		4
130	RNA-Mediated Resistance to Cassava Geminiviruses in Transgenic Cassava **2007**, 201-203		

129	Web-based analysis of the mouse transcriptome using Genevestigator. *BMC Bioinformatics*, **2006**, 7, 311	3.6	24
128	Molecular characterization of geminivirus-derived small RNAs in different plant species. *Nucleic Acids Research*, **2006**, 34, 462-71	20.1	220
127	Semi-supervised LC/MS alignment for differential proteomics. *Bioinformatics*, **2006**, 22, e132-40	7.2	57
126	Arabidopsis thaliana proteomics: from proteome to genome. *Journal of Experimental Botany*, **2006**, 57, 1485-91	7	43
125	Proteome analysis of bell pepper (Capsicum annuum L.) chromoplasts. *Plant and Cell Physiology*, **2006**, 47, 1663-73	4.9	86
124	A systematic comparison and evaluation of biclustering methods for gene expression data. *Bioinformatics*, **2006**, 22, 1122-9	7.2	626
123	Dynamic spectrum quality assessment and iterative computational analysis of shotgun proteomic data: toward more efficient identification of post-translational modifications, sequence polymorphisms, and novel peptides. *Molecular and Cellular Proteomics*, **2006**, 5, 652-70	7.6	143
122	Chromatin assembly factor CAF-1 is required for cellular differentiation during plant development. *Development (Cambridge)*, **2006**, 133, 4163-72	6.6	94
121	Regulation of flowering time by Arabidopsis MSI1. *Development (Cambridge)*, **2006**, 133, 1693-702	6.6	76
120	Polycomb-group proteins repress the floral activator AGL19 in the FLC-independent vernalization pathway. *Genes and Development*, **2006**, 20, 1667-78	12.6	146
119	plprot: a comprehensive proteome database for different plastid types. *Plant and Cell Physiology*, **2006**, 47, 432-6	4.9	96
118	Functional genomic analysis of CAF-1 mutants in Arabidopsis thaliana. *Journal of Biological Chemistry*, **2006**, 281, 9560-8	5.4	101
117	Developmentally controlled farnesylation modulates AtNAP1;1 function in cell proliferation and cell expansion during Arabidopsis leaf development. *Plant Physiology*, **2006**, 142, 1412-26	6.6	51
116	Induction of differentiation in the shoot apical meristem by transient overexpression of a retinoblastoma-related protein. *Plant Physiology*, **2006**, 141, 1338-48	6.6	52
115	Biotechnological approaches to cassava protein improvement. *Trends in Food Science and Technology*, **2006**, 17, 634-641	15.3	28
114	Genome-wide analysis of gene expression profiles associated with cell cycle transitions in growing organs of Arabidopsis. *Plant Physiology*, **2005**, 138, 734-43	6.6	219
113	AUDENS: a tool for automated peptide de novo sequencing. *Journal of Proteome Research*, **2005**, 4, 1768-74	5.4	60
112	Genome-wide identification of potential plant E2F target genes. *Plant Physiology*, **2005**, 139, 316-28	6.6	187

111	Genome-wide analysis of hydrogen peroxide-regulated gene expression in Arabidopsis reveals a high light-induced transcriptional cluster involved in anthocyanin biosynthesis. *Plant Physiology*, **2005**, 139, 806-21	6.6	428
110	Proteome analysis of the rice etioplast: metabolic and regulatory networks and novel protein functions. *Molecular and Cellular Proteomics*, **2005**, 4, 1072-84	7.6	93
109	The RETINOBLASTOMA-RELATED gene regulates stem cell maintenance in Arabidopsis roots. *Cell*, **2005**, 123, 1337-49	56.2	289
108	Gene-expression analysis and network discovery using Genevestigator. *Trends in Plant Science*, **2005**, 10, 407-9	13.1	225
107	Analysis of shotgun proteomics and RNA profiling data from Arabidopsis thaliana chloroplasts. *Journal of Proteome Research*, **2005**, 4, 637-40	5.6	39
106	NovoHMM: a hidden Markov model for de novo peptide sequencing. *Analytical Chemistry*, **2005**, 77, 7265-73	7.3	140
105	Resistance to cassava mosaic disease in transgenic cassava expressing antisense RNAs targeting virus replication genes. *Plant Biotechnology Journal*, **2005**, 3, 385-97	11.6	94
104	Global analysis of the core cell cycle regulators of Arabidopsis identifies novel genes, reveals multiple and highly specific profiles of expression and provides a coherent model for plant cell cycle control. *Plant Journal*, **2005**, 41, 546-66	6.9	371
103	MSI1-like proteins: an escort service for chromatin assembly and remodeling complexes. *Trends in Cell Biology*, **2005**, 15, 295-302	18.3	132
102	Frequency and character of alternative somatic recombination fates of paralogous genes during T-DNA integration. *Molecular Genetics and Genomics*, **2005**, 274, 91-102	3.1	2
101	Cell cycle progression in the pericycle is not sufficient for SOLITARY ROOT/IAA14-mediated lateral root initiation in Arabidopsis thaliana. *Plant Cell*, **2005**, 17, 3035-50	11.6	253
100	Meiotic recombination between paralogous RBCSB genes on sister chromatids of Arabidopsis thaliana. *Genetics*, **2004**, 166, 947-57	4	24
99	Chloroplast proteomics: potentials and challenges. *Journal of Experimental Botany*, **2004**, 55, 1213-20	7	68
98	Transcriptional programs of early reproductive stages in Arabidopsis. *Plant Physiology*, **2004**, 135, 1765-75	6.6	110
97	Enlarged meristems and delayed growth in plp mutants result from lack of CaaX prenyltransferases. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 7815-20	11.5	89
96	Plant retinoblastoma homologues control nuclear proliferation in the female gametophyte. *Nature*, **2004**, 429, 776-80	50.4	219
95	The Arabidopsis thaliana chloroplast proteome reveals pathway abundance and novel protein functions. *Current Biology*, **2004**, 14, 354-62	6.3	483
94	Altered expression of the Arabidopsis ortholog of DCL affects normal plant development. *Planta*, **2004**, 219, 819-26	4.7	33

93	The nutritional fortification of cereals. *Current Opinion in Biotechnology*, **2004**, 15, 162-5	11.4	70
92	Mass spectrometric identification of RNA binding proteins from dried EMSA gels. *Journal of Proteome Research*, **2004**, 3, 662-4	5.6	10
91	GENEVESTIGATOR. Arabidopsis microarray database and analysis toolbox. *Plant Physiology*, **2004**, 136, 2621-32	6.6	2091
90	Proteome analysis of tobacco bright yellow-2 (BY-2) cell culture plastids as a model for undifferentiated heterotrophic plastids. *Journal of Proteome Research*, **2004**, 3, 1128-37	5.6	61
89	Sparse graphical Gaussian modeling of the isoprenoid gene network in Arabidopsis thaliana. *Genome Biology*, **2004**, 5, R92	18.3	229
88	Crosstalk between cytosolic and plastidial pathways of isoprenoid biosynthesis in Arabidopsis thaliana. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 6866-71	11.5	538
87	Genome-wide gene expression in an Arabidopsis cell suspension. *Plant Molecular Biology*, **2003**, 53, 423-42	4.6	198
86	DCL is a plant-specific protein required for plastid ribosomal RNA processing and embryo development. *Plant Molecular Biology*, **2003**, 53, 531-43	4.6	59
85	Arabidopsis transcript profiling on Affymetrix GeneChip arrays. *Plant Molecular Biology*, **2003**, 53, 457-65	4.6	49
84	Transfer and expression of an artificial storage protein (ASP1) gene in cassava (Manihot esculenta Crantz). *Transgenic Research*, **2003**, 12, 243-50	3.3	48
83	Two cassava promoters related to vascular expression and storage root formation. *Planta*, **2003**, 218, 192-203	4.7	42
82	Protein farnesylation in plants--conserved mechanisms but different targets. *Current Opinion in Plant Biology*, **2003**, 6, 530-5	9.9	61
81	Arabidopsis MSI1 is a component of the MEA/FIE Polycomb group complex and required for seed development. *EMBO Journal*, **2003**, 22, 4804-14	13	322
80	Efficient replication of cloned African cassava mosaic virus in cassava leaf disks. *Virus Research*, **2003**, 92, 47-54	6.4	12
79	Arabidopsis MSI1 is required for epigenetic maintenance of reproductive development. *Development (Cambridge)*, **2003**, 130, 2555-65	6.6	180
78	The Polycomb-group protein MEDEA regulates seed development by controlling expression of the MADS-box gene PHERES1. *Genes and Development*, **2003**, 17, 1540-53	12.6	316
77	Engineering Virus-Induced African Cassava Mosaic Virus Resistance by Mimicking a Hypersensitive Reaction in Transgenic Cassava **2003**, 143-145		7
76	Calmodulins and calcineurin B-like proteins: calcium sensors for specific signal response coupling in plants. *Plant Cell*, **2002**, 14 Suppl, S389-400	11.6	517

75	Endonucleolytic activation directs dark-induced chloroplast mRNA degradation. *Nucleic Acids Research*, **2002**, 30, 4527-33	20.1	23
74	Chromatin-remodeling and memory factors. New regulators of plant development. *Plant Physiology*, **2002**, 130, 1090-101	6.6	96
73	Cell cycle-regulated gene expression in Arabidopsis. *Journal of Biological Chemistry*, **2002**, 277, 41987-2002	5.4	182
72	Chloroplast mRNA 3Rend nuclease complex. *Methods in Enzymology*, **2001**, 342, 408-19	1.7	7
71	Li+ Induces Hypertrophy and Down Regulation of Myo-Inositol Monophosphatase in Tomato. *Journal of Plant Growth Regulation*, **2001**, 20, 78-86	4.7	9
70	Dual interaction of a geminivirus replication accessory factor with a viral replication protein and a plant cell cycle regulator. *Virology*, **2001**, 279, 570-6	3.6	62
69	Efficient prenylation by a plant geranylgeranyltransferase-I requires a functional CaaL box motif and a proximal polybasic domain. *Plant Physiology*, **2001**, 126, 1416-29	6.6	58
68	Molecular characterization of At5PTase1, an inositol phosphatase capable of terminating inositol trisphosphate signaling. *Plant Physiology*, **2001**, 126, 801-10	6.6	74
67	Substrate recognition by ADAR1 and ADAR2. *Rna*, **2001**, 7, 846-58	5.8	160
66	Retinoblastoma-related proteins in plants: homologues or orthologues of their metazoan counterparts?. *Plant Molecular Biology*, **2000**, 43, 635-42	4.6	49
65	Functional requirement of plant farnesyltransferase during development in Arabidopsis. *Plant Cell*, **2000**, 12, 1267-78	11.6	91
64	Prenylation of the Floral Transcription Factor APETALA1 Modulates Its Function. *Plant Cell*, **2000**, 12, 1257	11.6	1
63	Prenylation of the floral transcription factor APETALA1 modulates its function. *Plant Cell*, **2000**, 12, 1257-66	11.6	97
62	Carboxyl-methylation of prenylated calmodulin CaM53 is required for efficient plasma membrane targeting of the protein. *Plant Journal*, **2000**, 24, 775-84	6.9	46
61	Arachidonic acid alters tomato HMG expression and fruit growth and induces 3-hydroxy-3-methylglutaryl coenzyme A reductase-independent lycopene accumulation. *Plant Physiology*, **1999**, 119, 41-8	6.6	53
60	Genes for calcineurin B-like proteins in Arabidopsis are differentially regulated by stress signals. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 4718-23	11.5	369
59	Protein prenylation in plants: old friends and new targets. *Plant Molecular Biology*, **1999**, 39, 865-70	4.6	52
58	Regulation of tomato HMG1 during cell proliferation and growth. *Planta*, **1999**, 208, 310-318	4.7	33

57	Degrading chloroplast mRNA: the role of polyadenylation. *Trends in Biochemical Sciences*, **1999**, 24, 199-202	12.3	95
56	Lipid modifications of proteins - slipping in and out of membranes. *Trends in Plant Science*, **1999**, 4, 439-445	13.1	83
55	Transposon tagging of the Defective embryo and meristems gene of tomato. *Plant Cell*, **1998**, 10, 877-88	11.6	31
54	RRB1 and RRB2 encode maize retinoblastoma-related proteins that interact with a plant D-type cyclin and geminivirus replication protein. *Molecular and Cellular Biology*, **1997**, 17, 5077-86	4.8	213
53	A Conserved Family of WD-40 Proteins Binds to the Retinoblastoma Protein in Both Plants and Animals. *Plant Cell*, **1997**, 9, 1595	11.6	3
52	MFP1, a Novel Plant Filament-Like Protein with Affinity for Matrix Attachment Region DNA. *Plant Cell*, **1996**, 8, 2105	11.6	4
51	Fluorescent imaging of GUS activity and RT-PCR analysis of gene expression in the shoot apical meristem. *Plant Journal*, **1996**, 10, 745-54	6.9	35
50	Chloroplast Gene Expression: Regulation at Multiple Levels **1996**, 565-587		
49	A 43 kD light-regulated chloroplast RNA-binding protein interacts with the psbA 5R non-translated leader RNA. *Photosynthesis Research*, **1995**, 46, 235-48	3.7	23
48	Plant inositol monophosphatase is a lithium-sensitive enzyme encoded by a multigene family. *Plant Cell*, **1995**, 7, 2175-85	11.6	115
47	Novel conserved sequence motifs in plant G-box binding proteins and implications for interactive domains. *Nucleic Acids Research*, **1994**, 22, 470-8	20.1	59
46	A small nuclear GTP-binding protein from tomato suppresses a Schizosaccharomyces pombe cell-cycle mutant. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 5863-7	11.5	79
45	Regulation of Plastid Gene Expression **1994**, 361-370		
44	Control mechanisms of plastid gene expression. *Critical Reviews in Plant Sciences*, **1993**, 12, 19-55	5.6	122
43	Fruits: A Developmental Perspective. *Plant Cell*, **1993**, 5, 1439	11.6	199
42	Fruits: A Developmental Perspective. *Plant Cell*, **1993**, 5, 1439-1451	11.6	658
41	Differential expression of the partially duplicated chloroplast S10 ribosomal protein operon. *Molecular Genetics and Genomics*, **1993**, 241, 141-52		11
40	Developmental and organ-specific changes in DNA-protein interactions in the tomato rbcS3B and rbcS3C promoter regions. *Plant Molecular Biology*, **1993**, 21, 1-15	4.6	17

39	Developmental and organ-specific changes in DNA-protein interactions in the tomato rbcS1, rbcS2 and rbcS3A promoter regions. *Plant Molecular Biology*, **1993**, 21, 69-88	4.6	25
38	Control of mRNA Degradation in Organelles **1993**, 329-365		25
37	Regulation of Plastid Gene Expression during Photooxidative Stress. *Plant Physiology*, **1992**, 99, 1406-156.6		33
36	DNA sequence of the tomato fruit expressed proline-rich protein gene TPRP-F1 reveals an intron within the 3 untranslated transcript. *Plant Molecular Biology*, **1992**, 18, 407-9	4.6	21
35	Changes in Chloroplast mRNA Stability during Leaf Development. *Plant Cell*, **1991**, 3, 517	11.6	25
34	Sequence coding for a novel proline-rich protein preferentially expressed in young tomato fruit. *Plant Molecular Biology*, **1991**, 17, 149-50	4.6	55
33	Expression Dynamics of the Tomato rbcS Gene Family during Development. *Plant Cell*, **1991**, 3, 1289	11.6	12
32	Developmental and Organ-Specific Changes in Promoter DNA-Protein Interactions in the Tomato rbcS Gene Family. *Plant Cell*, **1991**, 3, 1305	11.6	5
31	Tomato Hydroxymethylglutaryl-CoA Reductase Is Required Early in Fruit Development but Not during Ripening. *Plant Cell*, **1989**, 1, 181	11.6	11
30	Chloroplast gene expression: how plants turn their plastids on. *Cell*, **1989**, 56, 161-70	56.2	254
29	Post-Transcriptional Control of Plastid mRNA Accumulation during Adaptation of Chloroplasts to Different Light Quality Environments. *Plant Cell*, **1989**, 1, 645	11.6	4
28	Organization and expression of the genes encoding ribulose-1,5-bisphosphate carboxylase in higher plants. *Photosynthesis Research*, **1988**, 16, 117-39	3.7	114
27	Transcriptional and post-transcriptional control of plastid mRNA levels in higher plants. *Trends in Genetics*, **1988**, 4, 258-63	8.5	83
26	Constitutive transcription and regulation of gene expression in non-photosynthetic plastids of higher plants. *EMBO Journal*, **1988**, 7, 3301-3308	13	85
25	Organization and expression of the genes encoding ribulose-1,5-bisphosphate carboxylase in higher plants **1988**, 621-643		1
24	Changes in Photosynthetic Capacity and Photosynthetic Protein Pattern during Tomato Fruit Ripening. *Plant Physiology*, **1987**, 84, 911-7	6.6	105
23	Developmental, organ-specific, and light-dependent expression of the tomato ribulose-1,5-bisphosphate carboxylase small subunit gene family. *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 7104-8	11.5	108
22	Control of plastid gene expression: 3Rinverted repeats act as mRNA processing and stabilizing elements, but do not terminate transcription. *Cell*, **1987**, 51, 1145-57	56.2	389

21	Control of plastid gene expression during development: the limited role of transcriptional regulation. *Cell*, **1987**, 49, 379-87	56.2	348
20	Genomic organization, sequence analysis and expression of all five genes encoding the small subunit of ribulose-1,5-bisphosphate carboxylase/oxygenase from tomato. *Molecular Genetics and Genomics*, **1987**, 209, 247-56		132
19	Transcriptional and Post-Transcriptional Regulation of Chloroplast Gene Expression **1987**, 135-148		4
18	Expression of nuclear and plastid genes for photosynthesis-specific proteins during tomato fruit development and ripening. *Plant Molecular Biology*, **1986**, 7, 367-76	4.6	88
17	Chloroplast gene expression and promoter identification in chloroplast extracts. *Methods in Enzymology*, **1986**, 118, 253-70	1.7	98
16	Plastid gene expression during fruit ripening in tomato. *Plant Molecular Biology*, **1985**, 5, 373-84	4.6	70
15	A chloroplast transcription system from higher plants. *Plant Molecular Biology Reporter*, **1984**, 2, 15-23	1.7	5
14	Accurate processing and pseudouridylation of chloroplast transfer RNA in a chloroplast transcription system. *Plant Molecular Biology*, **1984**, 3, 97-109	4.6	40
13	Selective in vitro transcription of chloroplast genes. *Journal of Cellular Biochemistry*, **1983**, 22, 31-46	4.7	49
12	Biosynthesis of chloroplast transfer RNA in a spinach chloroplast transcription system. *Cell*, **1983**, 35, 815-28	56.2	120
11	Organization and Expression of the Chloroplast Genome of Euglena gracilis **1983**, 155-166		14
10	Transcription of the cloned genes for ribosomal 5-S RNA in a system reconstituted in vitro from HeLa cells. *FEBS Journal*, **1981**, 117, 407-15		12
9	Differences in pattern of a DNA protein complex isolated from vegetative cells and spores of Bacillus subtilis. *Molecular Genetics and Genomics*, **1978**, 159, 213-8		
8	Mass Spectrometry-Based Proteomics: Identifying Plant Proteins33-45		3
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