

# Heribert Hirt

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8674605/heribert-hirt-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

231  
papers

28,395  
citations

78  
h-index

167  
g-index

240  
ext. papers

32,715  
ext. citations

8.7  
avg, IF

7.37  
L-index

#	Paper	IF	Citations
231	In vivo identification of putative CPK5 substrates in Arabidopsis thaliana.. <i>Plant Science</i> , <b>2022</b> , 314, 111123	3.1	1
230	Beat the heat: plant- and microbe-mediated strategies for crop thermotolerance.. <i>Trends in Plant Science</i> , <b>2022</b> ,	13.1	1
229	ROS homeostasis mediated by MPK4 and SUMM2 determines synergid cell death.. <i>Nature Communications</i> , <b>2022</b> , 13, 1746	17.4	1
228	Coordinated bacterial and plant sulfur metabolism in sp. SA187-induced plant salt stress tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
227	Development, validation, and application of an HPLC-MS/MS method for quantification of oxidized fatty acids in plants. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2021</b> , 1186, 123006	3.2	2
226	The Seed Development Factors and Regulate Heat Stress Response in. <i>Genes</i> , <b>2021</b> , 12,	4.2	3
225	G3BPs in Plant Stress. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 680710	6.2	0
224	Stomatal regulation: Role of HS-induced persulfidation in ABA signaling. <i>Molecular Plant</i> , <b>2021</b> , 14, 858-864	8.4	3
223	Polycomb-dependent differential chromatin compartmentalization determines gene coregulation in. <i>Genome Research</i> , <b>2021</b> ,	9.7	6
222	Root endophyte induced plant thermotolerance by constitutive chromatin modification at heat stress memory gene loci. <i>EMBO Reports</i> , <b>2021</b> , 22, e51049	6.5	27
221	Complete Genome Sequence of Cellulomonas sp. JZ18, a Root Endophytic Bacterium Isolated from the Perennial Desert Tussock-Grass Panicum turgidum. <i>Current Microbiology</i> , <b>2021</b> , 78, 1135-1141	2.4	1
220	Multiple strategies of plant colonization by beneficial endophytic Enterobacter sp. SA187. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 6223-6240	5.2	0
219	Chromatin phosphoproteomics unravels a function for AT-hook motif nuclear localized protein AHL13 in PAMP-triggered immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	7
218	GCN5 modulates salicylic acid homeostasis by regulating H3K14ac levels at the 5P and 3R ends of its target genes. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 5953-5966	20.1	18
217	Tailoring plant-associated microbial inoculants in agriculture: a roadmap for successful application. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 3878-3901	7	61
216	Complete genome sequence of the endophytic bacterium Cellulosimicrobium sp. JZ28 isolated from the root endosphere of the perennial desert tussock grass Panicum turgidum. <i>Archives of Microbiology</i> , <b>2020</b> , 202, 1563-1569	3	6
215	Complete Genome Sequence of Paenibacillus sp. JZ16, a Plant Growth Promoting Root Endophytic Bacterium of the Desert Halophyte Zygophyllum Simplex. <i>Current Microbiology</i> , <b>2020</b> , 77, 1097-1103	2.4	8

214	Wheat chromatin architecture is organized in genome territories and transcription factories. <i>Genome Biology</i> , <b>2020</b> , 21, 104	18.3	44
213	Nanofabrication of Isoporous Membranes for Cell Fractionation. <i>Scientific Reports</i> , <b>2020</b> , 10, 6138	4.9	13
212	Wounding and Insect Feeding Trigger Two Independent MAPK Pathways with Distinct Regulation and Kinetics. <i>Plant Cell</i> , <b>2020</b> , 32, 1988-2003	11.6	18
211	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008401	7.6	16
210	Healthy soils for healthy plants for healthy humans: How beneficial microbes in the soil, food and gut are interconnected and how agriculture can contribute to human health. <i>EMBO Reports</i> , <b>2020</b> , 21, e51069	6.5	21
209	CATION-CHLORIDE CO-TRANSPORTER 1 (CCC1) Mediates Plant Resistance against. <i>Plant Physiology</i> , <b>2020</b> , 182, 1052-1065	6.6	4
208	Desert Microbes for Boosting Sustainable Agriculture in Extreme Environments. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1666	5.7	25
207	Genome Insights of the Plant-Growth Promoting Bacterium JZ38 With Volatile-Mediated Antagonistic Activity Against. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 369	5.7	17
206	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis <b>2020</b> , 16, e1008401		
205	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis <b>2020</b> , 16, e1008401		
204	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis <b>2020</b> , 16, e1008401		
203	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis <b>2020</b> , 16, e1008401		
202	Role of MPK4 in pathogen-associated molecular pattern-triggered alternative splicing in Arabidopsis <b>2020</b> , 16, e1008401		
201	The Polycomb protein LHP1 regulates Arabidopsis thaliana stress responses through the repression of the MYC2-dependent branch of immunity. <i>Plant Journal</i> , <b>2019</b> , 100, 1118-1131	6.9	23
200	Mining biosynthetic gene clusters in Virgibacillus genomes. <i>BMC Genomics</i> , <b>2019</b> , 20, 696	4.5	3
199	INDETERMINATE-DOMAIN 4 (IDD4) coordinates immune responses with plant-growth in Arabidopsis thaliana. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007499	7.6	8
198	OXI1 and DAD Regulate Light-Induced Cell Death Antagonistically through Jasmonate and Salicylate Levels. <i>Plant Physiology</i> , <b>2019</b> , 180, 1691-1708	6.6	16
197	A Chimeric IDD4 Repressor Constitutively Induces Immunity in Arabidopsis via the Modulation of Salicylic Acid and Jasmonic Acid Homeostasis. <i>Plant and Cell Physiology</i> , <b>2019</b> , 60, 1536-1555	4.9	13

196	Phosphorylation regulates the activity of INDETERMINATE-DOMAIN (IDD/BIRD) proteins in response to diverse environmental conditions. <i>Plant Signaling and Behavior</i> , <b>2019</b> , 14, e1642037	2.5	5
195	Piriformospora indica alters Na <sup>+</sup> /K <sup>+</sup> homeostasis, antioxidant enzymes and LeNHX1 expression of greenhouse tomato grown under salt stress. <i>Scientia Horticulturae</i> , <b>2019</b> , 256, 108532	4.1	46
194	Plant Immunity: The MTI-ETI Model and Beyond. <i>Current Issues in Molecular Biology</i> , <b>2019</b> , 30, 39-58	2.9	10
193	The Lamin-Like LITTLE NUCLEI 1 (LINC1) Regulates Pattern-Triggered Immunity and Jasmonic Acid Signaling. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1639	6.2	12
192	MAP4K4 associates with BIK1 to regulate plant innate immunity. <i>EMBO Reports</i> , <b>2019</b> , 20, e47965	6.5	14
191	Comparative genomics study reveals Red Sea Bacillus with characteristics associated with potential microbial cell factories (MCFs). <i>Scientific Reports</i> , <b>2019</b> , 9, 19254	4.9	4
190	Bioprospecting desert plant Bacillus endophytic strains for their potential to enhance plant stress tolerance. <i>Scientific Reports</i> , <b>2019</b> , 9, 18154	4.9	26
189	Phylogenetically diverse endophytic bacteria from desert plants induce transcriptional changes of tissue-specific ion transporters and salinity stress in Arabidopsis thaliana. <i>Plant Science</i> , <b>2019</b> , 280, 228-240	5.3	19
188	Metaorganisms in extreme environments: do microbes play a role in organismal adaptation?. <i>Zoology</i> , <b>2018</b> , 127, 1-19	1.7	94
187	Plant Immunity: From Signaling to Epigenetic Control of Defense. <i>Trends in Plant Science</i> , <b>2018</b> , 23, 833-841	3.4	111
186	Modify the Histone to Win the Battle: Chromatin Dynamics in Plant-Pathogen Interactions. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 355	6.2	52
185	Nuclear Signaling of Plant MAPKs. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 469	6.2	84
184	Boosting Alfalfa (L.) Production With Rhizobacteria From Various Plants in Saudi Arabia. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 477	5.7	24
183	In silico exploration of Red Sea Bacillus genomes for natural product biosynthetic gene clusters. <i>BMC Genomics</i> , <b>2018</b> , 19, 382	4.5	11
182	Ethylene induced plant stress tolerance by Enterobacter sp. SA187 is mediated by 2-keto-4-methylthiobutyric acid production. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007273	6	51
181	Quantification of Root Colonizing Bacteria. <i>Bio-protocol</i> , <b>2018</b> , 8,	0.9	3
180	The homolog of human G3BP1 is a key regulator of stomatal and apoplastic immunity. <i>Life Science Alliance</i> , <b>2018</b> , 1, e201800046	5.8	6
179	Quantitative Phosphoproteomic Analysis Reveals Shared and Specific Targets of Mitogen-Activated Protein Kinases (MAPKs) MPK3, MPK4, and MPK6. <i>Molecular and Cellular Proteomics</i> , <b>2018</b> , 17, 61-80	7.6	51

178	Desert plant bacteria reveal host influence and beneficial plant growth properties. <i>PLoS ONE</i> , <b>2018</b> , 13, e0208223	3.7	46
177	Cytoplasmatic Protein Kinases in Signal Transduction <b>2018</b> , 249-268		
176	The Trihelix transcription factor GT2-like 1 (GTL1) promotes salicylic acid metabolism, and regulates bacterial-triggered immunity. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007708	6	18
175	Draft Genome Sequence of the Plant Growth-Promoting Rhizobacterium Strain SA188 Isolated from the Desert Plant. <i>Genome Announcements</i> , <b>2017</b> , 5,		3
174	Draft Genome Sequence of the Plant Growth-Promoting <i>Pseudomonas punonensis</i> Strain D1-6 Isolated from the Desert Plant <i>Erodium hirtum</i> in Jordan. <i>Genome Announcements</i> , <b>2017</b> , 5,		9
173	Constitutively Active Arabidopsis MAP Kinase 3 Triggers Defense Responses Involving Salicylic Acid and SUMM2 Resistance Protein. <i>Plant Physiology</i> , <b>2017</b> , 174, 1238-1249	6.6	36
172	A high quality Arabidopsis transcriptome for accurate transcript-level analysis of alternative splicing. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 5061-5073	20.1	138
171	Draft Genome Sequence of Plant Growth-Promoting <i>Micrococcus luteus</i> Strain K39 Isolated from <i>Cyperus conglomeratus</i> in Saudi Arabia. <i>Genome Announcements</i> , <b>2017</b> , 5,		8
170	Review: Mitogen-Activated Protein Kinases in nutritional signaling in Arabidopsis. <i>Plant Science</i> , <b>2017</b> , 260, 101-108	5.3	34
169	MAPK-triggered chromatin reprogramming by histone deacetylase in plant innate immunity. <i>Genome Biology</i> , <b>2017</b> , 18, 131	18.3	50
168	Plant-Specific Histone Deacetylases HDT1/2 Regulate Expression to Control Arabidopsis Root Meristem Cell Number. <i>Plant Cell</i> , <b>2017</b> , 29, 2183-2196	11.6	38
167	Constitutive activity of the Arabidopsis MAP Kinase 3 confers resistance to <i>Pseudomonas syringae</i> and drives robust immune responses. <i>Plant Signaling and Behavior</i> , <b>2017</b> , 12, e1356533	2.5	8
166	Challenges Faced in Field Application of Phosphate-Solubilizing Bacteria <b>2017</b> , 125-143		6
165	The Arabidopsis SWI/SNF protein BAF60 mediates seedling growth control by modulating DNA accessibility. <i>Genome Biology</i> , <b>2017</b> , 18, 114	18.3	30
164	The heat-shock protein/chaperone network and multiple stress resistance. <i>Plant Biotechnology Journal</i> , <b>2017</b> , 15, 405-414	11.6	285
163	Draft Genome Sequence of Strain SA148, a Plant Growth-Promoting Desert Rhizobacterium. <i>Genome Announcements</i> , <b>2017</b> , 5,		2
162	Draft Genome Sequence of sp. Sa187, an Endophytic Bacterium Isolated from the Desert Plant. <i>Genome Announcements</i> , <b>2017</b> , 5,		4
161	Complete Genome Sequence Analysis of sp. SA187, a Plant Multi-Stress Tolerance Promoting Endophytic Bacterium. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 2023	5.7	42

160	Aquaporins Link ROS Signaling to Plant Immunity. <i>Plant Physiology</i> , <b>2016</b> , 171, 1540	6.6	10
159	Interview with Heribert Hirt. <i>Trends in Plant Science</i> , <b>2016</b> , 21, 1-2	13.1	3
158	LHP1 Regulates H3K27me3 Spreading and Shapes the Three-Dimensional Conformation of the Arabidopsis Genome. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158936	3.7	68
157	Bacterial Rhizosphere Biodiversity from Several Pioneer Desert Sand Plants Near Jizan, Saudi Arabia. <i>The Open Conference Proceedings Journal</i> , <b>2016</b> , 7, 70-79		2
156	Draft Genome Sequence of Halomonas elongata Strain K4, an Endophytic Growth-Promoting Bacterium Enhancing Salinity Tolerance In Planta. <i>Genome Announcements</i> , <b>2016</b> , 4,		13
155	Plant Growth Promoting Rhizobacteria and Silicon Synergistically Enhance Salinity Tolerance of Mung Bean. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 876	6.2	131
154	Convergence of Multiple MAP3Ks on MKK3 Identifies a Set of Novel Stress MAPK Modules. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1941	6.2	16
153	Draft Genome Sequence of the Phosphate-Solubilizing Bacterium Pseudomonas argentinensis Strain SA190 Isolated from the Desert Plant Indigofera argentea. <i>Genome Announcements</i> , <b>2016</b> , 4,		6
152	Draft Genome Sequence of the Plant Growth-Promoting Cupriavidus gilardii Strain JZ4 Isolated from the Desert Plant Tribulus terrestris. <i>Genome Announcements</i> , <b>2016</b> , 4,		15
151	The Role of MAPK Modules and ABA during Abiotic Stress Signaling. <i>Trends in Plant Science</i> , <b>2016</b> , 21, 677-685	13.1	214
150	Signaling mechanisms in pattern-triggered immunity (PTI). <i>Molecular Plant</i> , <b>2015</b> , 8, 521-39	14.4	450
149	Identification and characterization of an ABA-activated MAP kinase cascade in Arabidopsis thaliana. <i>Plant Journal</i> , <b>2015</b> , 82, 232-44	6.9	100
148	Plant MAPK cascades: Just rapid signaling modules?. <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e1062197	2.5	18
147	A SWI/SNF Chromatin Remodelling Protein Controls Cytokinin Production through the Regulation of Chromatin Architecture. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138276	3.7	23
146	Plant-Microbe Interactions and Water Management in Arid and Saline Soils <b>2015</b> , 265-276		8
145	The role of ABA and MAPK signaling pathways in plant abiotic stress responses. <i>Biotechnology Advances</i> , <b>2014</b> , 32, 40-52	17.8	339
144	The BAF60 subunit of the SWI/SNF chromatin-remodeling complex directly controls the formation of a gene loop at FLOWERING LOCUS C in Arabidopsis. <i>Plant Cell</i> , <b>2014</b> , 26, 538-51	11.6	64
143	Phosphorylation-dependent regulation of plant chromatin and chromatin-associated proteins. <i>Proteomics</i> , <b>2014</b> , 14, 2127-40	4.8	19

142	Identification of novel PAMP-triggered phosphorylation and dephosphorylation events in <i>Arabidopsis thaliana</i> by quantitative phosphoproteomic analysis. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 2137-51	5.6	32
141	Auxin efflux by PIN-FORMED proteins is activated by two different protein kinases, D6 PROTEIN KINASE and PINOID. <i>ELife</i> , <b>2014</b> , 3,	8.9	146
140	Functional analysis of <i>Arabidopsis</i> immune-related MAPKs uncovers a role for MPK3 as negative regulator of inducible defences. <i>Genome Biology</i> , <b>2014</b> , 15, R87	18.3	85
139	<i>Salmonella enterica</i> induces and subverts the plant immune system. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 141	5.7	22
138	<i>Salmonella enterica</i> flagellin is recognized via FLS2 and activates PAMP-triggered immunity in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , <b>2014</b> , 7, 657-74	14.4	42
137	The <i>Salmonella</i> effector protein SpvC, a phosphothreonine lyase is functional in plant cells. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 548	5.7	18
136	Proteomic and phosphoproteomic analyses of chromatin-associated proteins from <i>Arabidopsis thaliana</i> . <i>Proteomics</i> , <b>2014</b> , 14, 2141-55	4.8	16
135	Salt-induced subcellular kinase relocation and seedling susceptibility caused by overexpression of <i>Medicago</i> SIMKK in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 2335-50	7	29
134	Protein complexes characterization in <i>Arabidopsis thaliana</i> by tandem affinity purification coupled to mass spectrometry analysis. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1171, 237-50	1.4	2
133	The role of the kinase OXI1 in cadmium- and copper-induced molecular responses in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 1228-38	8.4	40
132	Rhizosphere microbes as essential partners for plant stress tolerance. <i>Molecular Plant</i> , <b>2013</b> , 6, 242-5	14.4	162
131	Improvement of stress tolerance in plants by genetic manipulation of mitogen-activated protein kinases. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 118-28	17.8	96
130	New checkpoints in stomatal defense. <i>Trends in Plant Science</i> , <b>2013</b> , 18, 295-7	13.1	44
129	Constitutively active MPK4 helps to clarify its role in plant immunity. <i>Plant Signaling and Behavior</i> , <b>2013</b> , 8, e22991	2.5	7
128	An abscisic acid-independent oxylipin pathway controls stomatal closure and immune defense in <i>Arabidopsis</i> . <i>PLoS Biology</i> , <b>2013</b> , 11, e1001513	9.7	189
127	Brassinosteroid-regulated GSK3/Shaggy-like kinases phosphorylate mitogen-activated protein (MAP) kinase kinases, which control stomata development in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 7519-7527	5.4	120
126	Dual function of MIPS1 as a metabolic enzyme and transcriptional regulator. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 2907-17	20.1	29
125	Regulation of the heat stress response in <i>Arabidopsis</i> by MPK6-targeted phosphorylation of the heat stress factor HsfA2. <i>PeerJ</i> , <b>2013</b> , 1, e59	3.1	66



124	Constitutively active mitogen-activated protein kinase versions reveal functions of Arabidopsis MPK4 in pathogen defense signaling. <i>Plant Cell</i> , <b>2012</b> , 24, 4281-93	11.6	124
123	Automated phosphopeptide identification using multiple MS/MS fragmentation modes. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 5695-703	5.6	14
122	Plants as alternative hosts for Salmonella. <i>Trends in Plant Science</i> , <b>2012</b> , 17, 245-9	13.1	67
121	Role of AGC kinases in plant growth and stress responses. <i>Cellular and Molecular Life Sciences</i> , <b>2012</b> , 69, 3259-67	10.3	34
120	The Arabidopsis protein kinase Pto-interacting 1-4 is a common target of the oxidative signal-inducible 1 and mitogen-activated protein kinases. <i>FEBS Journal</i> , <b>2011</b> , 278, 1126-36	5.7	37
119	Isolation and characterization of plant protein complexes by mass spectrometry. <i>Proteomics</i> , <b>2011</b> , 11, 1824-33	4.8	20
118	Linking the proteins--elucidation of proteome-scale networks using mass spectrometry. <i>Mass Spectrometry Reviews</i> , <b>2011</b> , 30, 268-97	11	21
117	Conservation of Salmonella infection mechanisms in plants and animals. <i>PLoS ONE</i> , <b>2011</b> , 6, e24112	3.7	86
116	The OXI1 kinase pathway mediates Piriformospora indica-induced growth promotion in Arabidopsis. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002051	7.6	98
115	AGC kinases in plant development and defense. <i>Plant Signaling and Behavior</i> , <b>2011</b> , 6, 1030-3	2.5	21
114	New insights into an old story: Agrobacterium-induced tumour formation in plants by plant transformation. <i>EMBO Journal</i> , <b>2010</b> , 29, 1021-32	13	193
113	Bioinformatic and systems biology tools to generate testable models of signaling pathways and their targets. <i>Plant Physiology</i> , <b>2010</b> , 152, 460-9	6.6	14
112	The MAP kinase MPK4 is required for cytokinesis in Arabidopsis thaliana. <i>Plant Cell</i> , <b>2010</b> , 22, 3778-90	11.6	138
111	Transgenerational stress memory is not a general response in Arabidopsis. <i>PLoS ONE</i> , <b>2009</b> , 4, e5202	3.7	117
110	VIP1 response elements mediate mitogen-activated protein kinase 3-induced stress gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 18414-9	11.5	100
109	A major role of the MEKK1-MKK1/2-MPK4 pathway in ROS signalling. <i>Molecular Plant</i> , <b>2009</b> , 2, 120-37	14.4	194
108	Disentangling the complexity of mitogen-activated protein kinases and reactive oxygen species signaling. <i>Plant Physiology</i> , <b>2009</b> , 149, 606-15	6.6	105
107	MAP kinase phosphatase1 and protein tyrosine phosphatase1 are repressors of salicylic acid synthesis and SNC1-mediated responses in Arabidopsis. <i>Plant Cell</i> , <b>2009</b> , 21, 2884-97	11.6	170



106	MAPK cascade signalling networks in plant defence. <i>Current Opinion in Plant Biology</i> , <b>2009</b> , 12, 421-6	9.9	515
105	Protein tyrosine phosphorylation in plants: More abundant than expected?. <i>Trends in Plant Science</i> , <b>2009</b> , 14, 71-6	13.1	75
104	Site-specific phosphorylation profiling of Arabidopsis proteins by mass spectrometry and peptide chip analysis. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 2458-70	5.6	122
103	Arabidopsis MAPKs: a complex signalling network involved in multiple biological processes. <i>Biochemical Journal</i> , <b>2008</b> , 413, 217-26	3.8	534
102	Possible involvement of MAP kinase pathways in acquired metal-tolerance induced by heat in plants. <i>Planta</i> , <b>2008</b> , 228, 499-509	4.7	20
101	Protein networking: insights into global functional organization of proteomes. <i>Proteomics</i> , <b>2008</b> , 8, 799-815	8.15	62
100	Towards functional phosphoproteomics by mapping differential phosphorylation events in signaling networks. <i>Proteomics</i> , <b>2008</b> , 8, 4453-65	4.8	49
99	The dark side of the salad: Salmonella typhimurium overcomes the innate immune response of Arabidopsis thaliana and shows an endopathogenic lifestyle. <i>PLoS ONE</i> , <b>2008</b> , 3, e2279	3.7	110
98	A plastid-localized glycogen synthase kinase 3 modulates stress tolerance and carbohydrate metabolism. <i>Plant Journal</i> , <b>2007</b> , 49, 1076-90	6.9	62
97	The BRI1-associated kinase 1, BAK1, has a brassinolide-independent role in plant cell-death control. <i>Current Biology</i> , <b>2007</b> , 17, 1116-22	6.3	308
96	Activation of members of a MAPK module in beta-glucan elicitor-mediated non-host resistance of soybean. <i>Planta</i> , <b>2007</b> , 225, 1559-71	4.7	26
95	The PP2C-type phosphatase AP2C1, which negatively regulates MPK4 and MPK6, modulates innate immunity, jasmonic acid, and ethylene levels in Arabidopsis. <i>Plant Cell</i> , <b>2007</b> , 19, 2213-24	11.6	238
94	The Arabidopsis mitogen-activated protein kinase kinase MKK3 is upstream of group C mitogen-activated protein kinases and participates in pathogen signaling. <i>Plant Cell</i> , <b>2007</b> , 19, 3266-79	11.6	189
93	The MAP kinase kinase MKK2 affects disease resistance in Arabidopsis. <i>Molecular Plant-Microbe Interactions</i> , <b>2007</b> , 20, 589-96	3.6	89
92	Using phosphoproteomics to reveal signalling dynamics in plants. <i>Trends in Plant Science</i> , <b>2007</b> , 12, 404-11	13.1	60
91	Trojan horse strategy in Agrobacterium transformation: abusing MAPK defense signaling. <i>Science</i> , <b>2007</b> , 318, 453-6	33.3	211
90	Phosphoproteomics reveals extensive in vivo phosphorylation of Arabidopsis proteins involved in RNA metabolism. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 3267-78	20.1	104
89	Mitogen-activated protein kinases and reactive oxygen species signaling in plants. <i>Plant Physiology</i> , <b>2006</b> , 141, 351-6	6.6	181

88	Involvement of mitogen-activated protein kinases in the symbiosis <i>Bradyrhizobium-Lupinus</i> . <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 2735-42	7	20
87	A Mitogen-activated protein kinase kinase kinase mediates reactive oxygen species homeostasis in <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 38697-704	5.4	282
86	Reactive oxygen species signaling in plants. <i>Antioxidants and Redox Signaling</i> , <b>2006</b> , 8, 1757-64	8.4	242
85	Phosphoproteomics as a tool to unravel plant regulatory mechanisms. <i>Physiologia Plantarum</i> , <b>2006</b> , 126, 110-119	4.6	36
84	The membrane-anchored BOTRYTIS-INDUCED KINASE1 plays distinct roles in <i>Arabidopsis</i> resistance to necrotrophic and biotrophic pathogens. <i>Plant Cell</i> , <b>2006</b> , 18, 257-73	11.6	315
83	Emerging MAP kinase pathways in plant stress signalling. <i>Trends in Plant Science</i> , <b>2005</b> , 10, 339-46	13.1	535
82	The MAP kinase substrate MKS1 is a regulator of plant defense responses. <i>EMBO Journal</i> , <b>2005</b> , 24, 2579-89	13.9	388
81	From signal to cell polarity: mitogen-activated protein kinases as sensors and effectors of cytoskeleton dynamicity. <i>Journal of Experimental Botany</i> , <b>2004</b> , 55, 189-98	7	66
80	Heavy metal stress. Activation of distinct mitogen-activated protein kinase pathways by copper and cadmium. <i>Plant Physiology</i> , <b>2004</b> , 136, 3276-83	6.6	328
79	OMTK1, a novel MAPKKK, channels oxidative stress signaling through direct MAPK interaction. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 26959-66	5.4	125
78	OXI1 kinase is necessary for oxidative burst-mediated signalling in <i>Arabidopsis</i> . <i>Nature</i> , <b>2004</b> , 427, 858-61	10.4	482
77	Reactive oxygen species: metabolism, oxidative stress, and signal transduction. <i>Annual Review of Plant Biology</i> , <b>2004</b> , 55, 373-99	30.7	7573
76	Plant PP2C phosphatases: emerging functions in stress signaling. <i>Trends in Plant Science</i> , <b>2004</b> , 9, 236-43	13.1	497
75	The MKK2 pathway mediates cold and salt stress signaling in <i>Arabidopsis</i> . <i>Molecular Cell</i> , <b>2004</b> , 15, 141-52	17.6	713
74	A MAPK pathway mediates ethylene signaling in plants. <i>EMBO Journal</i> , <b>2003</b> , 22, 1282-8	13	232
73	Protein Phosphorylation and Cellular Information Transfer: Signaling by MAP Kinase Cascades. <i>Monatshefte für Chemie</i> , <b>2003</b> , 134, 1481-1487	1.4	
72	Involvement of MAP kinase SIMK and actin cytoskeleton in the regulation of root hair tip growth. <i>Cell Biology International</i> , <b>2003</b> , 27, 257-9	4.5	6
71	Stress-induced protein phosphatase 2C is a negative regulator of a mitogen-activated protein kinase. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 18945-52	5.4	128

70	Complexity, cross talk and integration of plant MAP kinase signalling. <i>Current Opinion in Plant Biology</i> , <b>2002</b> , 5, 415-24	9.9	537
69	Opposite changes in membrane fluidity mimic cold and heat stress activation of distinct plant MAP kinase pathways. <i>Plant Journal</i> , <b>2002</b> , 31, 629-38	6.9	263
68	Involvement of the mitogen-activated protein kinase SIMK in regulation of root hair tip growth. <i>EMBO Journal</i> , <b>2002</b> , 21, 3296-306	13	136
67	Mitogen-activated protein kinase cascades in plants: a new nomenclature. <i>Trends in Plant Science</i> , <b>2002</b> , 7, 301-8	13.1	891
66	Glycogen synthase kinase 3/SHAGGY-like kinases in plants: an emerging family with novel functions. <i>Trends in Plant Science</i> , <b>2002</b> , 7, 457-61	13.1	104
65	Convergence and divergence of stress-induced mitogen-activated protein kinase signaling pathways at the level of two distinct mitogen-activated protein kinase kinases. <i>Plant Cell</i> , <b>2002</b> , 14, 703-11	11.6	75
64	Phosphatidic acid activates a wound-activated MAPK in <i>Glycine max</i> . <i>Plant Journal</i> , <b>2001</b> , 26, 479-86	6.9	114
63	Plant MAP kinase pathways: how many and what for?. <i>Biology of the Cell</i> , <b>2001</b> , 93, 81-7	3.5	66
62	Hyperosmotic stress stimulates phospholipase D activity and elevates the levels of phosphatidic acid and diacylglycerol pyrophosphate. <i>Plant Journal</i> , <b>2000</b> , 22, 147-54	6.9	208
61	Stressing the role of MAP kinases in mitogenic stimulation. <i>Plant Molecular Biology</i> , <b>2000</b> , 43, 705-18	4.6	37
60	MAP kinase pathways: molecular plug-and-play chips for the cell. <i>Plant Molecular Biology</i> , <b>2000</b> , 42, 791-806	4.6	58
59	Salt stress induces changes in amounts and localization of the mitogen-activated protein kinase SIMK in alfalfa roots. <i>Protoplasma</i> , <b>2000</b> , 212, 262-267	3.4	10
58	Connecting oxidative stress, auxin, and cell cycle regulation through a plant mitogen-activated protein kinase pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 2405-7	11.5	93
57	Differential activation of four specific MAPK pathways by distinct elicitors. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 36734-40	5.4	115
56	<i>Phytophthora parasitica</i> elicitor-induced reactions in cells of <i>Petroselinum crispum</i> . <i>Plant and Cell Physiology</i> , <b>2000</b> , 41, 692-701	4.9	43
55	Microbial elicitors induce activation and dual phosphorylation of the <i>Arabidopsis thaliana</i> MAPK 6. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 7521-6	5.4	248
54	SIMKK, a mitogen-activated protein kinase (MAPK) kinase, is a specific activator of the salt stress-induced MAPK, SIMK. <i>Plant Cell</i> , <b>2000</b> , 12, 2247-58	11.6	174
53	Wound-induced expression and activation of WIG, a novel glycogen synthase kinase 3. <i>Plant Cell</i> , <b>2000</b> , 12, 1467-75	11.6	45

52	Rapid Avr9- and Cf-9 -dependent activation of MAP kinases in tobacco cell cultures and leaves: convergence of resistance gene, elicitor, wound, and salicylate responses. <i>Plant Cell</i> , <b>1999</b> , 11, 273-87	11.6	423
51	<i>Vicia faba</i> germination: Synchronized cell growth and localization of nucleolin and Tubulin.. <i>Seed Science Research</i> , <b>1999</b> , 9, 297-304	1.3	7
50	Short communication: unsaturated fatty acids inhibit MP2C, a protein phosphatase 2C involved in the wound-induced MAP kinase pathway regulation. <i>Plant Journal</i> , <b>1999</b> , 20, 343-8	6.9	42
49	Distinct osmo-sensing protein kinase pathways are involved in signalling moderate and severe hyper-osmotic stress. <i>Plant Journal</i> , <b>1999</b> , 20, 381-8	6.9	169
48	Transcriptional upregulation of signaling pathways: more complex than anticipated?. <i>Trends in Plant Science</i> , <b>1999</b> , 4, 7-8	13.1	18
47	A MAP Kinase Is Activated Late in Plant Mitosis and Becomes Localized to the Plane of Cell Division. <i>Plant Cell</i> , <b>1999</b> , 11, 101-113	11.6	163
46	A MAP kinase is activated late in plant mitosis and becomes localized to the plane of cell division. <i>Plant Cell</i> , <b>1999</b> , 11, 101-13	11.6	48
45	The SAM kinase pathway: An integrated circuit for stress signaling in plants. <i>Journal of Plant Research</i> , <b>1998</b> , 111, 339-344	2.6	13
44	Evidence for the activation of a MAP kinase upon phosphate-induced cell cycle re-entry in tobacco cells. <i>Physiologia Plantarum</i> , <b>1998</b> , 102, 532-538	4.6	20
43	MP2C, a plant protein phosphatase 2C, functions as a negative regulator of mitogen-activated protein kinase pathways in yeast and plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 1938-43	11.5	161
42	Wounding Induces the Rapid and Transient Activation of a Specific MAP Kinase Pathway. <i>Plant Cell</i> , <b>1997</b> , 9, 75-83	11.6	171
41	Receptor-mediated activation of a MAP kinase in pathogen defense of plants. <i>Science</i> , <b>1997</b> , 276, 2054-733.3	11.5	341
40	Multiple roles of MAP kinases in plant signal transduction. <i>Trends in Plant Science</i> , <b>1997</b> , 2, 11-15	13.1	248
39	The cdc2Ms Kinase Is Differently Regulated in the Cytoplasm and in the Nucleus. <i>Plant Physiology</i> , <b>1997</b> , 113, 841-852	6.6	57
38	Developmental and cell cycle regulation of alfalfa nucMs1, a plant homolog of the yeast Nsr1 and mammalian nucleolin.. <i>Plant Cell</i> , <b>1996</b> , 8, 417-428	11.6	57
37	Stress signaling in plants: a mitogen-activated protein kinase pathway is activated by cold and drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 11274-9	11.5	433
36	Plant cyclins: a unified nomenclature for plant A-, B- and D-type cyclins based on sequence organization. <i>Plant Molecular Biology</i> , <b>1996</b> , 32, 1003-18	4.6	213
35	In and out of the plant cell cycle. <i>Plant Molecular Biology</i> , <b>1996</b> , 31, 459-64	4.6	17

34	Mechanosensors in plants. <i>Nature</i> , <b>1996</b> , 383, 489-90	50.4	101
33	Developmental and cell cycle regulation of alfalfa nucMs1, a plant homolog of the yeast Nsr1 and mammalian nucleolin. <i>Plant Cell</i> , <b>1996</b> , 8, 417-28	11.6	25
32	Tyrosine phosphatase signalling in a lower plant: cell-cycle and oxidative stress-regulated expression of the <i>Chlamydomonas eugametos</i> VH-PTP13 gene. <i>Plant Journal</i> , <b>1995</b> , 7, 981-8	6.9	24
31	Inflorescence-specific expression of AtK-1, a novel <i>Arabidopsis thaliana</i> homologue of shaggy/glycogen synthase kinase-3. <i>Plant Molecular Biology</i> , <b>1995</b> , 27, 217-21	4.6	19
30	A cDNA from <i>Medicago sativa</i> encodes a protein homologous to small GTP-binding proteins. <i>Plant Physiology</i> , <b>1995</b> , 107, 263-4	6.6	6
29	The D-type alfalfa cyclin gene <i>cycMs4</i> complements G1 cyclin-deficient yeast and is induced in the G1 phase of the cell cycle. <i>Plant Cell</i> , <b>1995</b> , 7, 1847-57	11.6	118
28	<i>cycMs3</i> , a Novel B-Type Alfalfa Cyclin Gene, Is Induced in the G <sub>0</sub> -to-G <sub>1</sub> Transition of the Cell Cycle. <i>Plant Cell</i> , <b>1995</b> , 7, 759	11.6	29
27	MMK2, a novel alfalfa MAP kinase, specifically complements the yeast MPK1 function. <i>Molecular Genetics and Genomics</i> , <b>1995</b> , 248, 686-94		50
26	The cDNA sequence encoding an annexin from <i>Medicago sativa</i> . <i>Plant Physiology</i> , <b>1994</b> , 104, 1463-4	6.6	17
25	Rhizobium nod factors reactivate the cell cycle during infection and nodule primordium formation, but the cycle is only completed in primordium formation. <i>Plant Cell</i> , <b>1994</b> , 6, 1415-26	11.6	178
24	The function of the hypusine-containing proteins of yeast and other eukaryotes is well conserved. <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 244, 646-52		35
23	Isolation and characterization of phosphoprotein phosphatase 1 from alfalfa. <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 244, 176-82		11
22	The plant transcription factor TGA1 stimulates expression of the CaMV 35S promoter in <i>Saccharomyces cerevisiae</i> . <i>Plant Molecular Biology</i> , <b>1994</b> , 25, 323-8	4.6	15
21	MAP kinases: universal multi-purpose signaling tools. <i>Plant Molecular Biology</i> , <b>1994</b> , 24, 407-16	4.6	68
20	Cell cycle regulation in higher plants. <i>Seminars in Developmental Biology</i> , <b>1994</b> , 5, 147-154		15
19	The plant homologue of MAP kinase is expressed in a cell cycle-dependent and organ-specific manner. <i>Plant Journal</i> , <b>1993</b> , 3, 611-7	6.9	90
18	<i>cdc2MsB</i> , a cognate <i>cdc2</i> gene from alfalfa, complements the G <sub>1</sub> /S but not the G <sub>2</sub> /M transition of budding yeast <i>cdc28</i> mutants. <i>Plant Journal</i> , <b>1993</b> , 4, 61-9	6.9	61
17	Isolation and characterization of a phosphoprotein phosphatase type 2A gene from alfalfa. <i>Molecular Genetics and Genomics</i> , <b>1993</b> , 240, 126-31		22

16	The MsK family of alfalfa protein kinase genes encodes homologues of shaggy/glycogen synthase kinase-3 and shows differential expression patterns in plant organs and development. <i>Plant Journal</i> , <b>1993</b> , 3, 847-56	6.9	28
15	An alfalfa cDNA encodes a protein with similarity to human snRNP-E. <i>Nucleic Acids Research</i> , <b>1992</b> , 20, 613	20.1	6
14	Alfalfa cyclins: differential expression during the cell cycle and in plant organs. <i>Plant Cell</i> , <b>1992</b> , 4, 1531-8	1.6	127
13	The cauliflower mosaic virus 35S promoter is regulated by cAMP in <i>Saccharomyces cerevisiae</i> . <i>Molecular Genetics and Genomics</i> , <b>1992</b> , 235, 365-72		14
12	An alfalfa cDNA encodes a protein with homology to translationally controlled human tumor protein. <i>Plant Molecular Biology</i> , <b>1992</b> , 19, 501-3	4.6	71
11	Complementation of a yeast cell cycle mutant by an alfalfa cDNA encoding a protein kinase homologous to p34cdc2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 1636-40	11.5	186
10	Alfalfa heat shock genes are differentially expressed during somatic embryogenesis. <i>Plant Molecular Biology</i> , <b>1991</b> , 16, 999-1007	4.6	122
9	Isolation and sequence determination of the plant homologue of the eukaryotic initiation factor 4D cDNA from alfalfa, <i>Medicago sativa</i> . <i>Plant Molecular Biology</i> , <b>1991</b> , 17, 927-9	4.6	20
8	A novel method for in situ screening of yeast colonies with the beta-glucuronidase reporter gene. <i>Current Genetics</i> , <b>1991</b> , 20, 437-9	2.9	11
7	Effects of Cadmium on Tobacco: Synthesis and Regulation of Cadmium-binding Peptides. <i>Biochemie Und Physiologie Der Pflanzen</i> , <b>1990</b> , 186, 153-163		8
6	Evolutionary conservation of transcriptional machinery between yeast and plants as shown by the efficient expression from the CaMV 35S promoter and 35S terminator. <i>Current Genetics</i> , <b>1990</b> , 17, 473-9	2.9	28
5	Cadmium-enhanced gene expression in suspension-culture cells of tobacco. <i>Planta</i> , <b>1989</b> , 179, 414-20	4.7	33
4	The human growth hormone gene locus: structure, evolution, and allelic variations. <i>DNA and Cell Biology</i> , <b>1987</b> , 6, 59-70		119
3	Differential distribution of microtubule-associated proteins MAP-1 and MAP-2 in neurons of rat brain and association of MAP-1 with microtubules of neuroblastoma cells (clone N2A). <i>EMBO Journal</i> , <b>1983</b> , 2, 1915-20	13	22
2	<i>Enterobacter</i> sp. SA187 mediates plant thermotolerance by chromatin modification of heat stress genes		2
1	AtRTD2: A Reference Transcript Dataset for accurate quantification of alternative splicing and expression changes in <i>Arabidopsis thaliana</i> RNA-seq data		6