David Honys

List of Publications by Year
in descending order

70 papers	3,410 citations	257450 24 h-index	149698 56 g-index
74 all docs	74 docs citations	74 times ranked	3958 citing authors

#	Article	IF	Citations
1	Transcriptome analysis of haploid male gametophyte development in Arabidopsis. Genome Biology, 2004, 5, R85.	8.8	658
2	Comparative Analysis of the Arabidopsis Pollen Transcriptome Â. Plant Physiology, 2003, 132, 640-652.	4.8	477
3	ER-localized auxin transporter PIN8 regulates auxin homeostasis and male gametophyte development in Arabidopsis. Nature Communications, 2012, 3, 941.	12.8	233
4	SETH1 and SETH2, Two Components of the Glycosylphosphatidylinositol Anchor Biosynthetic Pathway, Are Required for Pollen Germination and Tube Growth in Arabidopsis Â[W]. Plant Cell, 2004, 16, 229-240.	6.6	178
5	Integrating Membrane Transport with Male Gametophyte Development and Function through Transcriptomics. Plant Physiology, 2006, 140, 1151-1168.	4.8	171
6	Enrichment techniques employed in phosphoproteomics. Amino Acids, 2012, 43, 1025-1047.	2.7	170
7	Expression Patterns of a Novel AtCHX Gene Family Highlight Potential Roles in Osmotic Adjustment and K+ Homeostasis in Pollen Development. Plant Physiology, 2004, 136, 2532-2547.	4.8	148
8	Male gametophyte development and function in angiosperms: a general concept. Plant Reproduction, 2016, 29, 31-51.	2.2	114
9	AtbZIP34 is required for Arabidopsis pollen wall patterning and the control of several metabolic pathways in developing pollen. Plant Molecular Biology, 2009, 70, 581-601.	3.9	86
10	Heat stress response mechanisms in pollen development. New Phytologist, 2021, 231, 571-585.	7.3	84
11	Comparative transcriptomic analysis reveals conserved programmes underpinning organogenesis and reproduction in land plants. Nature Plants, 2021, 7, 1143-1159.	9.3	61
12	Reproduction Multitasking: The Male Gametophyte. Annual Review of Plant Biology, 2021, 72, 581-614.	18.7	56
13	Expression of Î²-galactosidase and Î²-xylosidase genes during microspore and pollen development. Planta, 2005, 220, 931-940.	3.2	52
14	Comprehensive analysis of tobacco pollen transcriptome unveils common pathways in polar cell expansion and underlying heterochronic shift during spermatogenesis. BMC Plant Biology, 2012, 12, 24.	3.6	49
15	Identification of microspore-active promoters that allow targeted manipulation of gene expression at early stages of microgametogenesis in Arabidopsis. BMC Plant Biology, 2006, 6, 31.	3.6	48
16	Cytoskeleton-Associated Large RNP Complexes in Tobacco Male Gametophyte (EPPs) Are Associated with Ribosomes and Are Involved in Protein Synthesis, Processing, and Localization. Journal of Proteome Research, 2009, 8, 2015-2031.	3.7	46
17	Transcriptome profiling of male gametophyte development in Nicotiana tabacum. Genomics Data, 2015, 3, 106-111.	1.3	45
18	The translationally repressed pollen-specific ntp303 mRNA is stored in non-polysomal mRNPs during pollen maturation. Sexual Plant Reproduction, 2000, 13, 135-144.	2.2	42

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19	Wide-scale screening of T-DNA lines for transcription factor genes affecting male gametophyte development in Arabidopsis. Sexual Plant Reproduction, 2012, 25, 39-60.	2.2	41
20	Quantitative proteomics of the tobacco pollen tube secretome identifies novel pollen tube guidance proteins important for fertilization. Genome Biology, 2016, 17, 81.	8.8	37
21	Characterization of pollen-expressed bZIP protein interactions and the role of ATbZIP18 in the male gametophyte. Plant Reproduction, 2017, 30, 1-17.	2.2	37
22	Isoflavonoids are present inÂArabidopsisÂthaliana despite theÂabsence ofÂanyÂhomologue toÂknown isoflavonoid synthases. Plant Physiology and Biochemistry, 2006, 44, 106-114.	5.8	32
23	Evolutionary history of callose synthases in terrestrial plants with emphasis on proteins involved in male gametophyte development. PLoS ONE, 2017, 12, e0187331.	2.5	31
24	Rapid separation of Arabidopsis male gametophyte developmental stages using a Percoll gradient. Nature Protocols, 2016, 11, 1817-1832.	12.0	30
25	Pollen Development, aÂGenetic and Transcriptomic View. , 0, , 15-45.		29
26	Revealing phosphoproteins playing role in tobacco pollen activated in vitro. Proteomics, 2012, 12, 3229-3250.	2.2	26
27	A new link between stress response and nucleolar function during pollen development in <i><scp>A</scp>rabidopsis</i> mediated by <scp>AtREN</scp>1 protein. Plant, Cell and Environment, 2014, 37, 670-683.	5.7	24
28	Phosphoproteomics Profiling of Tobacco Mature Pollen and Pollen Activated in vitro. Molecular and Cellular Proteomics, 2016, 15, 1338-1350.	3.8	24
29	Dynamics of the Pollen Sequestrome Defined by Subcellular Coupled Omics. Plant Physiology, 2018, 178, 258-282.	4.8	23
30	Safe Keeping the Message: mRNP Complexes Tweaking after Transcription. Advances in Experimental Medicine and Biology, 2011, 722, 118-136.	1.6	22
31	Arabidopsis Gene Family Profiler (aGFP) â€“ user-oriented transcriptomic database with easy-to-use graphic interface. BMC Plant Biology, 2007, 7, 39.	3.6	18
32	The plant Pontin and Reptin homologues, Ruv<scp>BL</scp>1 and Ruv<scp>BL</scp>2a, colocalize with <scp>TERT</scp> and <scp>TRB</scp> proteins <i>inÂvivo</i>, and participate in telomerase biogenesis. Plant Journal, 2019, 98, 195-212.	5.7	18
33	Elimination of Viroids from Tobacco Pollen Involves a Decrease in Propagation Rate and an Increase of the Degradation Processes. International Journal of Molecular Sciences, 2020, 21, 3029.	4.1	18
34	Tandem affinity purification of AtTERT reveals putative interaction partners of plant telomerase in vivo. Protoplasma, 2017, 254, 1547-1562.	2.1	17
35	The role of eukaryotic initiation factor 3 in plant translation regulation. Plant Physiology and Biochemistry, 2019, 145, 75-83.	5.8	17
36	Arabidopsis bZIP18 and bZIP52 Accumulate in Nuclei Following Heat Stress where They Regulate the Expression of a Similar Set of Genes. International Journal of Molecular Sciences, 2021, 22, 530.	4.1	17

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37	De novo post-pollen mitosis II tobacco pollen tube transcriptome. Plant Signaling and Behavior, 2012, 7, 918-921.	2.4	16
38	Generalization of DNA microarray dispersion properties: microarray equivalent of t-distribution. Biology Direct, 2006, 1, 27.	4.6	15
39	In search of ligands and receptors of the pollen tube: the missing link in pollen tube perception. Biochemical Society Transactions, 2014, 42, 388-394.	3.4	15
40	LARP6C orchestrates posttranscriptional reprogramming of gene expression during hydration to promote pollen tube guidance. Plant Cell, 2021, 33, 2637-2661.	6.6	15
41	MYB81, a microsporeâ€specific GAMYB transcription factor, promotes pollen mitosis I and cell lineage formation in Arabidopsis. Plant Journal, 2020, 101, 590-603.	5.7	14
42	New method of plant mitochondria isolation and sub-fractionation for proteomic analyses. Plant Science, 2004, 167, 389-395.	3.6	12
43	Tissue-specific expression of telomerase reverse transcriptase gene variants in Nicotiana tabacum. Planta, 2017, 245, 549-561.	3.2	10
44	PRP8A and PRP8B spliceosome subunits act co-ordinately to control pollen tube attraction in Arabidopsis. Development (Cambridge), 2020, 147, .	2.5	10
45	Genetic diversity and hybridization in the two species Inga ingoides and Inga edulis: potential applications for agroforestry in the Peruvian Amazon. Annals of Forest Science, 2016, 73, 425-435.	2.0	9
46	An armadillo-domain protein participates in a telomerase interaction network. Plant Molecular Biology, 2018, 97, 407-420.	3.9	9
47	Temporal Changes in the RNA Distribution between Polysomes and Postpolysomal Ribonucleoprotein Particles in Tobacco Male Gametophyte. Biologia Plantarum, 2000, 43, 517-522.	1.9	7
48	Isolation of a Brassica napus L. cDNA encoding a putative high-mobility-group HMG I/Y protein. Plant Science, 2000, 159, 197-204.	3.6	7
49	Impact of homogenization and protein extraction conditions on the obtained tobacco pollen proteomic patterns. Biologia Plantarum, 2011, 55, 499-506.	1.9	7
50	Functional expression and subcellular localization of pea polymorphic isoflavone synthase CYP93C18. Biologia Plantarum, 2013, 57, 635-645.	1.9	6
51	The Beta Subunit of Nascent Polypeptide Associated Complex Plays A Role in Flowers and Siliques Development of Arabidopsis thaliana. International Journal of Molecular Sciences, 2020, 21, 2065.	4.1	6
52	Characterization of ALBA Family Expression and Localization in Arabidopsis thaliana Generative Organs. International Journal of Molecular Sciences, 2021, 22, 1652.	4.1	6
53	Transformation of Seed Non-Transmissible Hop Viroids in NicotianaÂbenthamiana Causes Distortions in Male Gametophyte Development. Plants, 2021, 10, 2398.	3.5	6
54	Expression and thermotolerance of calreticulin during pollen development in tobacco. Sexual Plant Reproduction, 2005, 18, 143-148.	2.2	5

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55	Phosphoproteomic studies in Arabidopsis and tobacco male gametophytes. Biochemical Society Transactions, 2014, 42, 383-387.	3.4	5
56	cDNA Library Screening Identifies Protein Interactors Potentially Involved in Non-Telomeric Roles of Arabidopsis Telomerase. Frontiers in Plant Science, 2015, 6, 985.	3.6	5
57	Evolutionary diversification of cytokinin-specific glucosyltransferases in angiosperms and enigma of missing cis-zeatin O-glucosyltransferase gene in Brassicaceae. Scientific Reports, 2021, 11, 7885.	3.3	5
58	When Simple Meets Complex: Pollen and the -Omics. , 2017, , 247-292.		5
59	Comparative analyses of angiosperm secretomes identify apoplastic pollen tube functions and novel secreted peptides. Plant Reproduction, 2021, 34, 47-60.	2.2	4
60	Isolation of proteins comprising native gene-specific messenger ribonucleoprotein particles using paramagnetic beads. Plant Science, 2001, 161, 605-611.	3.6	3
61	Identification of stress-induced mitochondrial proteins in cultured tobacco cells. Physiologia Plantarum, 2005, 124, 12-24.	5.2	3
62	Integrated Proteo-Transcriptomic Analyses Reveal Insights into Regulation of Pollen Development Stages and Dynamics of Cellular Response to Apple Fruit Crinkle Viroid (AFCVd)-Infection in Nicotiana tabacum. International Journal of Molecular Sciences, 2020, 21, 8700.	4.1	3
63	Phosphoprotein Enrichment from Tobacco Mature Pollen Crude Protein Extract. Methods in Molecular Biology, 2017, 1669, 265-274.	0.9	2
64	Hormonome Dynamics During Microgametogenesis in Different Nicotiana Species. Frontiers in Plant Science, 2021, 12, 735451.	3.6	2
65	Isolation of the Pistil-Stimulated Pollen Tube Secretome. Methods in Molecular Biology, 2020, 2160, 41-72.	0.9	2
66	A Plastid-Bound Ankyrin Repeat Protein Controls Gametophyte and Early Embryo Development in Arabidopsis thaliana. Frontiers in Plant Science, 2022, 13, 767339.	3.6	2
67	Editorial: Advances in Pollen Research: Biology, Biotechnology, and Plant Breeding Applications. Frontiers in Plant Science, 2022, 13, 876502.	3.6	2
68	Specificity of MOAC Enrichment Applied for Mature Pollen Phosphoproteomics Studies. , 2012, , .		1
69	Isoflavone Synthase Genes in Legumes and Non-leguminous Plants: Isoflavone Synthase. , 2012, , .		0
70	Male Gametogenesis. , 2004, , 663-668.		0