

David Honys

List of Publications by Year in descending order

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Version: 2024-02-01

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	A Plastid-Bound Ankyrin Repeat Protein Controls Gametophyte and Early Embryo Development in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 767339.	3.6	2
2	Editorial: Advances in Pollen Research: Biology, Biotechnology, and Plant Breeding Applications. <i>Frontiers in Plant Science</i> , 2022, 13, 876502.	3.6	2
3	Comparative analyses of angiosperm secretomes identify apoplastic pollen tube functions and novel secreted peptides. <i>Plant Reproduction</i> , 2021, 34, 47-60.	2.2	4
4	Characterization of ALBA Family Expression and Localization in <i>Arabidopsis thaliana</i> Generative Organs. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1652.	4.1	6
5	Evolutionary diversification of cytokinin-specific glucosyltransferases in angiosperms and enigma of missing cis-zeatin O-glucosyltransferase gene in Brassicaceae. <i>Scientific Reports</i> , 2021, 11, 7885.	3.3	5
6	Heat stress response mechanisms in pollen development. <i>New Phytologist</i> , 2021, 231, 571-585.	7.3	84
7	LARP6C orchestrates posttranscriptional reprogramming of gene expression during hydration to promote pollen tube guidance. <i>Plant Cell</i> , 2021, 33, 2637-2661.	6.6	15
8	Reproduction Multitasking: The Male Gametophyte. <i>Annual Review of Plant Biology</i> , 2021, 72, 581-614.	18.7	56
9	Comparative transcriptomic analysis reveals conserved programmes underpinning organogenesis and reproduction in land plants. <i>Nature Plants</i> , 2021, 7, 1143-1159.	9.3	61
10	<i>Arabidopsis</i> bZIP18 and bZIP52 Accumulate in Nuclei Following Heat Stress where They Regulate the Expression of a Similar Set of Genes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 530.	4.1	17
11	Hormone Dynamics During Microgametogenesis in Different <i>Nicotiana</i> Species. <i>Frontiers in Plant Science</i> , 2021, 12, 735451.	3.6	2
12	Transformation of Seed Non-Transmissible Hop Viroids in <i>Nicotiana glauca</i> Causes Distortions in Male Gametophyte Development. <i>Plants</i> , 2021, 10, 2398.	3.5	6
13	MYB81, a microspore-specific GAMYB transcription factor, promotes pollen mitosis I and cell lineage formation in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2020, 101, 590-603.	5.7	14
14	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 <i>Nicotiana glauca</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 8700.	4.1	3
15	PRP8A and PRP8B spliceosome subunits act co-ordinately to control pollen tube attraction in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2020, 147, .	2.5	10
16	The Beta Subunit of Nascent Polypeptide Associated Complex Plays A Role in Flowers and Siliques Development of <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 2065.	4.1	6
17	Elimination of Viroids from Tobacco Pollen Involves a Decrease in Propagation Rate and an Increase of the Degradation Processes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3029.	4.1	18
18	Isolation of the Pistil-Stimulated Pollen Tube Secretome. <i>Methods in Molecular Biology</i> , 2020, 2160, 41-72.	0.9	2

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19	The role of eukaryotic initiation factor 3 in plant translation regulation. <i>Plant Physiology and Biochemistry</i> , 2019, 145, 75-83.	5.8	17
20	The plant Pontin and Reptin homologues, RuvBL1 and RuvBL2a, colocalize with TERT and TRB proteins <i>in vivo</i> , and participate in telomerase biogenesis. <i>Plant Journal</i> , 2019, 98, 195-212.	5.7	18
21	Dynamics of the Pollen Sequestrome Defined by Subcellular Coupled Omics. <i>Plant Physiology</i> , 2018, 178, 258-282.	4.8	23
22	An armadillo-domain protein participates in a telomerase interaction network. <i>Plant Molecular Biology</i> , 2018, 97, 407-420.	3.9	9
23	Characterization of pollen-expressed bZIP protein interactions and the role of AtbZIP18 in the male gametophyte. <i>Plant Reproduction</i> , 2017, 30, 1-17.	2.2	37
24	Tissue-specific expression of telomerase reverse transcriptase gene variants in <i>Nicotiana tabacum</i> . <i>Planta</i> , 2017, 245, 549-561.	3.2	10
25	Phosphoprotein Enrichment from Tobacco Mature Pollen Crude Protein Extract. <i>Methods in Molecular Biology</i> , 2017, 1669, 265-274.	0.9	2
26	Tandem affinity purification of AtTERT reveals putative interaction partners of plant telomerase <i>in vivo</i> . <i>Protoplasma</i> , 2017, 254, 1547-1562.	2.1	17
27	When Simple Meets Complex: Pollen and the -Omics. , 2017, , 247-292.		5
28	Evolutionary history of callose synthases in terrestrial plants with emphasis on proteins involved in male gametophyte development. <i>PLoS ONE</i> , 2017, 12, e0187331.	2.5	31
29	Phosphoproteomics Profiling of Tobacco Mature Pollen and Pollen Activated <i>in vitro</i> . <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1338-1350.	3.8	24
30	Rapid separation of <i>Arabidopsis</i> male gametophyte developmental stages using a Percoll gradient. <i>Nature Protocols</i> , 2016, 11, 1817-1832.	12.0	30
31	Quantitative proteomics of the tobacco pollen tube secretome identifies novel pollen tube guidance proteins important for fertilization. <i>Genome Biology</i> , 2016, 17, 81.	8.8	37
32	Genetic diversity and hybridization in the two species <i>Inga ingoides</i> and <i>Inga edulis</i> : potential applications for agroforestry in the Peruvian Amazon. <i>Annals of Forest Science</i> , 2016, 73, 425-435.	2.0	9
33	Male gametophyte development and function in angiosperms: a general concept. <i>Plant Reproduction</i> , 2016, 29, 31-51.	2.2	114
34	cDNA Library Screening Identifies Protein Interactors Potentially Involved in Non-Telomeric Roles of <i>Arabidopsis</i> Telomerase. <i>Frontiers in Plant Science</i> , 2015, 6, 985.	3.6	5
35	Transcriptome profiling of male gametophyte development in <i>Nicotiana tabacum</i> . <i>Genomics Data</i> , 2015, 3, 106-111.	1.3	45
36	A new link between stress response and nucleolar function during pollen development in <i>Arabidopsis</i> mediated by AtREN1 protein. <i>Plant, Cell and Environment</i> , 2014, 37, 670-683.	5.7	24

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37	In search of ligands and receptors of the pollen tube: the missing link in pollen tube perception. <i>Biochemical Society Transactions</i> , 2014, 42, 388-394.	3.4	15
38	Phosphoproteomic studies in <i>Arabidopsis</i> and tobacco male gametophytes. <i>Biochemical Society Transactions</i> , 2014, 42, 383-387.	3.4	5
39	Functional expression and subcellular localization of pea polymorphic isoflavone synthase CYP93C18. <i>Biologia Plantarum</i> , 2013, 57, 635-645.	1.9	6
40	De novo post-pollen mitosis II tobacco pollen tube transcriptome. <i>Plant Signaling and Behavior</i> , 2012, 7, 918-921.	2.4	16
41	Revealing phosphoproteins playing role in tobacco pollen activated in vitro. <i>Proteomics</i> , 2012, 12, 3229-3250.	2.2	26
42	Specificity of MOAC Enrichment Applied for Mature Pollen Phosphoproteomics Studies. , 2012, , .		1
43	Isoflavone Synthase Genes in Legumes and Non-leguminous Plants: Isoflavone Synthase. , 2012, , .		0
44	Enrichment techniques employed in phosphoproteomics. <i>Amino Acids</i> , 2012, 43, 1025-1047.	2.7	170
45	ER-localized auxin transporter PIN8 regulates auxin homeostasis and male gametophyte development in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2012, 3, 941.	12.8	233
46	Comprehensive analysis of tobacco pollen transcriptome unveils common pathways in polar cell expansion and underlying heterochronic shift during spermatogenesis. <i>BMC Plant Biology</i> , 2012, 12, 24.	3.6	49
47	Wide-scale screening of T-DNA lines for transcription factor genes affecting male gametophyte development in <i>Arabidopsis</i> . <i>Sexual Plant Reproduction</i> , 2012, 25, 39-60.	2.2	41
48	Safe Keeping the Message: mRNP Complexes Tweaking after Transcription. <i>Advances in Experimental Medicine and Biology</i> , 2011, 722, 118-136.	1.6	22
49	Impact of homogenization and protein extraction conditions on the obtained tobacco pollen proteomic patterns. <i>Biologia Plantarum</i> , 2011, 55, 499-506.	1.9	7
50	AtbZIP34 is required for <i>Arabidopsis</i> pollen wall patterning and the control of several metabolic pathways in developing pollen. <i>Plant Molecular Biology</i> , 2009, 70, 581-601.	3.9	86
51	Cytoskeleton-Associated Large RNP Complexes in Tobacco Male Gametophyte (EPPs) Are Associated with Ribosomes and Are Involved in Protein Synthesis, Processing, and Localization. <i>Journal of Proteome Research</i> , 2009, 8, 2015-2031.	3.7	46
52	<i>Arabidopsis</i> Gene Family Profiler (aGFP) – user-oriented transcriptomic database with easy-to-use graphic interface. <i>BMC Plant Biology</i> , 2007, 7, 39.	3.6	18
53	Generalization of DNA microarray dispersion properties: microarray equivalent of t-distribution. <i>Biology Direct</i> , 2006, 1, 27.	4.6	15
54	Isoflavonoids are present in <i>Arabidopsis thaliana</i> despite the absence of any homologue to known isoflavonoid synthases. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 106-114.	5.8	32

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55	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
56	Integrating Membrane Transport with Male Gametophyte Development and Function through Transcriptomics. Plant Physiology, 2006, 140, 1151-1168.	4.8	171
57	Identification of stress-induced mitochondrial proteins in cultured tobacco cells. Physiologia Plantarum, 2005, 124, 12-24.	5.2	3
58	Expression and thermotolerance of calreticulin during pollen development in tobacco. Sexual Plant Reproduction, 2005, 18, 143-148.	2.2	5
59	Expression of Î²-galactosidase and Î²-xylosidase genes during microspore and pollen development. Planta, 2005, 220, 931-940.	3.2	52
60	SETH1 and SETH2, Two Components of the Glycosylphosphatidylinositol Anchor Biosynthetic Pathway, Are Required for Pollen Germination and Tube Growth in Arabidopsis [W]. Plant Cell, 2004, 16, 229-240.	6.6	178
61	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
62	Transcriptome analysis of haploid male gametophyte development in Arabidopsis. Genome Biology, 2004, 5, R85.	8.8	658
63	New method of plant mitochondria isolation and sub-fractionation for proteomic analyses. Plant Science, 2004, 167, 389-395.	3.6	12
64	Male Gametogenesis. , 2004, , 663-668.		0
65	Comparative Analysis of the Arabidopsis Pollen Transcriptome. Plant Physiology, 2003, 132, 640-652.	4.8	477
66	Isolation of proteins comprising native gene-specific messenger ribonucleoprotein particles using paramagnetic beads. Plant Science, 2001, 161, 605-611.	3.6	3
67	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
68	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
69	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
70	Pollen Development, a Genetic and Transcriptomic View. , 0, , 15-45.		29