

# Lars Hennig

## List of Publications by Citations

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113  
papers

10,096  
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49  
h-index

100  
g-index

121  
ext. papers

11,523  
ext. citations

7.8  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
113	GENEVESTIGATOR. Arabidopsis microarray database and analysis toolbox. <i>Plant Physiology</i> , <b>2004</b> , 136, 2621-32	6.6	2091
112	A systematic comparison and evaluation of biclustering methods for gene expression data. <i>Bioinformatics</i> , <b>2006</b> , 22, 1122-9	7.2	626
111	Arabidopsis MSI1 is a component of the MEA/FIE Polycomb group complex and required for seed development. <i>EMBO Journal</i> , <b>2003</b> , 22, 4804-14	13	322
110	The Polycomb-group protein MEDEA regulates seed development by controlling expression of the MADS-box gene PHERES1. <i>Genes and Development</i> , <b>2003</b> , 17, 1540-53	12.6	316
109	Selective inactivation of parvulin-like peptidyl-prolyl cis/trans isomerases by juglone. <i>Biochemistry</i> , <b>1998</b> , 37, 5953-60	3.2	251
108	Sparse graphical Gaussian modeling of the isoprenoid gene network in Arabidopsis thaliana. <i>Genome Biology</i> , <b>2004</b> , 5, R92	18.3	229
107	Gene-expression analysis and network discovery using Genevestigator. <i>Trends in Plant Science</i> , <b>2005</b> , 10, 407-9	13.1	225
106	Organizer-Derived WOX5 Signal Maintains Root Columella Stem Cells through Chromatin-Mediated Repression of CDF4 Expression. <i>Developmental Cell</i> , <b>2015</b> , 33, 576-88	10.2	203
105	Diversity of Polycomb group complexes in plants: same rules, different players?. <i>Trends in Genetics</i> , <b>2009</b> , 25, 414-23	8.5	203
104	Genome-wide gene expression in an Arabidopsis cell suspension. <i>Plant Molecular Biology</i> , <b>2003</b> , 53, 423-426	4.2	198
103	Genome-wide identification of potential plant E2F target genes. <i>Plant Physiology</i> , <b>2005</b> , 139, 316-28	6.6	187
102	Cell cycle-regulated gene expression in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 41987-2002	9.4	182
101	Arabidopsis MSI1 is required for epigenetic maintenance of reproductive development. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 2555-65	6.6	180
100	Systems-based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. <i>Molecular Systems Biology</i> , <b>2012</b> , 8, 606	12.2	163
99	Arabidopsis MSI1 connects LHP1 to PRC2 complexes. <i>EMBO Journal</i> , <b>2013</b> , 32, 2073-85	13	159
98	H3K27me3 profiling of the endosperm implies exclusion of polycomb group protein targeting by DNA methylation. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1001152	6	147
97	Phytochrome E Controls Light-Induced Germination of Arabidopsis. <i>Plant Physiology</i> , <b>2002</b> , 128, 194-200	6.6	147

96	Polycomb-group proteins repress the floral activator AGL19 in the FLC-independent vernalization pathway. <i>Genes and Development</i> , <b>2006</b> , 20, 1667-78	12.6	146
95	The polycomb group protein regulatory network. <i>Annual Review of Plant Biology</i> , <b>2015</b> , 66, 269-96	30.7	140
94	MSI1-like proteins: an escort service for chromatin assembly and remodeling complexes. <i>Trends in Cell Biology</i> , <b>2005</b> , 15, 295-302	18.3	132
93	Arabidopsis RETINOBLASTOMA-RELATED is required for stem cell maintenance, cell differentiation, and lateral organ production. <i>Plant Cell</i> , <b>2010</b> , 22, 1792-811	11.6	126
92	CHD3 proteins and polycomb group proteins antagonistically determine cell identity in Arabidopsis. <i>PLoS Genetics</i> , <b>2009</b> , 5, e1000605	6	124
91	Probing the reproducibility of leaf growth and molecular phenotypes: a comparison of three Arabidopsis accessions cultivated in ten laboratories. <i>Plant Physiology</i> , <b>2010</b> , 152, 2142-57	6.6	110
90	Transcriptional programs of early reproductive stages in Arabidopsis. <i>Plant Physiology</i> , <b>2004</b> , 135, 1765-756		110
89	Imprinting of the polycomb group gene MEDEA serves as a ploidy sensor in Arabidopsis. <i>PLoS Genetics</i> , <b>2009</b> , 5, e1000663	6	105
88	Auxin production in the endosperm drives seed coat development in. <i>ELife</i> , <b>2016</b> , 5,	8.9	102
87	Functional genomic analysis of CAF-1 mutants in Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 9560-8	5.4	101
86	The chromodomain of LIKE HETEROCHROMATIN PROTEIN 1 is essential for H3K27me3 binding and function during Arabidopsis development. <i>PLoS ONE</i> , <b>2009</b> , 4, e5335	3.7	99
85	Chromatin-remodeling and memory factors. New regulators of plant development. <i>Plant Physiology</i> , <b>2002</b> , 130, 1090-101	6.6	96
84	Chromatin assembly factor CAF-1 is required for cellular differentiation during plant development. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 4163-72	6.6	94
83	Keeping the gate closed: functions of the polycomb repressive complex PRC2 in development. <i>Plant Journal</i> , <b>2015</b> , 83, 121-32	6.9	93
82	FLC or not FLC: the other side of vernalization. <i>Journal of Experimental Botany</i> , <b>2008</b> , 59, 1127-35	7	93
81	Gene expression analysis, proteomics, and network discovery. <i>Plant Physiology</i> , <b>2010</b> , 152, 402-10	6.6	85
80	Natural CMT2 variation is associated with genome-wide methylation changes and temperature seasonality. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004842	6	84
79	Analysis of functional redundancies within the Arabidopsis TCP transcription factor family. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 5673-85	7	83

78	Arabidopsis MSI1 is required for negative regulation of the response to drought stress. <i>Molecular Plant</i> , <b>2009</b> , 2, 675-687	14.4	83
77	Inactivation of the phloem-specific Dof zinc finger gene DAG1 affects response to light and integrity of the testa of Arabidopsis seeds. <i>Plant Physiology</i> , <b>2002</b> , 128, 411-7	6.6	79
76	The WD40 Domain Protein MSI1 Functions in a Histone Deacetylase Complex to Fine-Tune Abscisic Acid Signaling. <i>Plant Cell</i> , <b>2016</b> , 28, 42-54	11.6	76
75	Systems analysis of plant functional, transcriptional, physical interaction, and metabolic networks. <i>Plant Cell</i> , <b>2012</b> , 24, 3859-75	11.6	76
74	Regulation of flowering time by Arabidopsis MSI1. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 1693-702	6.6	76
73	Stress-induced chromatin changes in plants: of memories, metabolites and crop improvement. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 1261-73	10.3	68
72	Plastid proteome assembly without Toc159: photosynthetic protein import and accumulation of N-acetylated plastid precursor proteins. <i>Plant Cell</i> , <b>2011</b> , 23, 3911-28	11.6	68
71	Variations on a theme: Polycomb group proteins in plants. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 2769-84	6.7	67
70	Dynamic properties of endogenous phytochrome A in Arabidopsis seedlings. <i>Plant Physiology</i> , <b>1999</b> , 121, 571-7	6.6	67
69	WinGene/WinPep: user-friendly software for the analysis of amino acid sequences. <i>BioTechniques</i> , <b>1999</b> , 26, 1170-2	2.5	59
68	PRC2 Represses Hormone-Induced Somatic Embryogenesis in Vegetative Tissue of Arabidopsis thaliana. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1006562	6	57
67	Regulation of cell identity by plant Polycomb and trithorax group proteins. <i>Current Opinion in Genetics and Development</i> , <b>2010</b> , 20, 541-7	4.9	57
66	AGRONOMICS1: a new resource for Arabidopsis transcriptome profiling. <i>Plant Physiology</i> , <b>2010</b> , 152, 487-99	6.6	56
65	H3K36ac Is an Evolutionary Conserved Plant Histone Modification That Marks Active Genes. <i>Plant Physiology</i> , <b>2016</b> , 170, 1566-77	6.6	55
64	PlantDB - a versatile database for managing plant research. <i>Plant Methods</i> , <b>2008</b> , 4, 1	5.8	49
63	Arabidopsis transcript profiling on Affymetrix GeneChip arrays. <i>Plant Molecular Biology</i> , <b>2003</b> , 53, 457-65	4.6	49
62	Global transcript profiling of transgenic plants constitutively overexpressing the RNA-binding protein AtGRP7. <i>BMC Plant Biology</i> , <b>2010</b> , 10, 221	5.3	48
61	Chromatin rearrangements in development. <i>Current Opinion in Plant Biology</i> , <b>2008</b> , 11, 64-9	9.9	48

60	Arabidopsis replacement histone variant H3.3 occupies promoters of regulated genes. <i>Genome Biology</i> , <b>2014</b> , 15, R62	18.3	46
59	Remodelling chromatin to shape development of plants. <i>Experimental Cell Research</i> , <b>2014</b> , 321, 40-6	4.2	44
58	Phytochrome E controls light-induced germination of Arabidopsis. <i>Plant Physiology</i> , <b>2002</b> , 128, 194-200	6.6	44
57	Chromatin assembly factor CAF-1 represses priming of plant defence response genes. <i>Nature Plants</i> , <b>2015</b> , 1, 15127	11.5	43
56	Increased maternal genome dosage bypasses the requirement of the FIS polycomb repressive complex 2 in Arabidopsis seed development. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003163	6	43
55	Control of hypocotyl elongation in Arabidopsis thaliana by photoreceptor interaction. <i>Planta</i> , <b>1999</b> , 208, 257-63	4.7	43
54	RETINOBLASTOMA-RELATED PROTEIN controls the transition to autotrophic plant development. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 2977-86	6.6	41
53	Distinct modes of DNA accessibility in plant chromatin. <i>Nature Communications</i> , <b>2012</b> , 3, 1281	17.4	40
52	Integration of stress-related and reactive oxygen species-mediated signals by Topoisomerase VI in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 16360-5	11.5	40
51	Negative interference of endogenous phytochrome B with phytochrome A function in Arabidopsis. <i>Plant Physiology</i> , <b>2001</b> , 125, 1036-44	6.6	39
50	Causal stability ranking. <i>Bioinformatics</i> , <b>2012</b> , 28, 2819-23	7.2	38
49	A gain-of-function mutation of Arabidopsis cryptochrome1 promotes flowering. <i>Plant Physiology</i> , <b>2010</b> , 154, 1633-45	6.6	37
48	Both subunits of the dimeric plant photoreceptor phytochrome require chromophore for stability of the far-red light-absorbing form. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 7913-8	5.4	37
47	Applying the INTACT method to purify endosperm nuclei and to generate parental-specific epigenome profiles. <i>Nature Protocols</i> , <b>2017</b> , 12, 238-254	18.8	36
46	H2A deubiquitinases UBP12/13 are part of the Arabidopsis polycomb group protein system. <i>Nature Plants</i> , <b>2016</b> , 2, 16126	11.5	36
45	BRR2a Affects Flowering Time via FLC Splicing. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1005924	6	35
44	Polycomb group proteins function in the female gametophyte to determine seed development in plants. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 3639-48	6.6	33
43	Degradation of phytochrome A and the high irradiance response in Arabidopsis: a kinetic analysis. <i>Plant, Cell and Environment</i> , <b>2000</b> , 23, 727-734	8.4	32

42	Functional interaction of cryptochrome 1 and phytochrome D. <i>Plant Journal</i> , <b>1999</b> , 20, 289-94	6.9	30
41	Patterns of beauty-omics meets plant development. <i>Trends in Plant Science</i> , <b>2007</b> , 12, 287-93	13.1	28
40	Convergent evolution of complex genomic rearrangements in two fungal meiotic drive elements. <i>Nature Communications</i> , <b>2018</b> , 9, 4242	17.4	28
39	Variation in dynamics of phytochrome A in Arabidopsis ecotypes and mutants. <i>Plant, Cell and Environment</i> , <b>2000</b> , 23, 311-319	8.4	27
38	Arabidopsis MSI1 functions in photoperiodic flowering time control. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 77	6.2	24
37	Gene regulatory variation mediates flowering responses to vernalization along an altitudinal gradient in Arabidopsis. <i>Plant Physiology</i> , <b>2014</b> , 166, 1928-42	6.6	23
36	Diurnal changes in the histone H3 signature H3K9ac H3K27ac H3S28p are associated with diurnal gene expression in Arabidopsis. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 2557-2569	8.4	23
35	Control of trichome branching by chromatin assembly factor-1. <i>BMC Plant Biology</i> , <b>2008</b> , 8, 54	5.3	22
34	A long photoperiod relaxes energy management in Arabidopsis leaf six. <i>Current Plant Biology</i> , <b>2015</b> , 2, 34-45	3.3	19
33	Measuring Arabidopsis chromatin accessibility using DNase I-polymerase chain reaction and DNase I-chip assays. <i>Plant Physiology</i> , <b>2013</b> , 162, 1794-801	6.6	19
32	FLOWERING LOCUS T Triggers Early and Fertile Flowering in Glasshouse Cassava ( <i>Manihot esculenta</i> Crantz). <i>Plants</i> , <b>2017</b> , 6,	4.5	18
31	Plant gene regulation in response to abiotic stress. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2012</b> , 1819, 85	6	18
30	Arabidopsis Chromatin Assembly Factor 1 is required for occupancy and position of a subset of nucleosomes. <i>Plant Journal</i> , <b>2017</b> , 92, 363-374	6.9	15
29	Role of H1 and DNA methylation in selective regulation of transposable elements during heat stress. <i>New Phytologist</i> , <b>2021</b> , 229, 2238-2250	9.8	14
28	Ectopic gene expression and organogenesis in Arabidopsis mutants missing BRU1 required for genome maintenance. <i>Genetics</i> , <b>2011</b> , 189, 83-95	4	13
27	Removal of H2Aub1 by ubiquitin-specific proteases 12 and 13 is required for stable Polycomb-mediated gene repression in Arabidopsis. <i>Genome Biology</i> , <b>2020</b> , 21, 144	18.3	12
26	The H3 chaperone function of NASP is conserved in Arabidopsis. <i>Plant Journal</i> , <b>2016</b> , 88, 425-436	6.9	11
25	H3K23me1 is an evolutionarily conserved histone modification associated with CG DNA methylation in Arabidopsis. <i>Plant Journal</i> , <b>2017</b> , 90, 293-303	6.9	10

24	Transgenerational phenotype aggravation in CAF-1 mutants reveals parent-of-origin specific epigenetic inheritance. <i>New Phytologist</i> , <b>2018</b> , 220, 908-921	9.8	10
23	Flowering time control. <i>Methods in Molecular Biology</i> , <b>2010</b> , 655, 229-37	1.4	9
22	Protein purification with C-terminal fusion of maltose binding protein. <i>Protein Expression and Purification</i> , <b>1998</b> , 14, 367-70	2	8
21	Tissue-specific transposon-associated small RNAs in the gymnosperm tree, Norway spruce. <i>BMC Genomics</i> , <b>2019</b> , 20, 997	4.5	8
20	Inheritance of vernalization memory at FLOWERING LOCUS C during plant regeneration. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 2813-2819	7	7
19	North European invasion by common ragweed is associated with early flowering and dominant changes in FT/TFL1 expression. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 2647-2658	7	7
18	Evaluation of alternative RNA labeling protocols for transcript profiling with Arabidopsis AGRONOMICS1 tiling arrays. <i>Plant Methods</i> , <b>2012</b> , 8, 18	5.8	7
17	EVE (external variance estimation) increases statistical power for detecting differentially expressed genes. <i>Plant Journal</i> , <b>2007</b> , 52, 561-9	6.9	5
16	A Structural Bisulfite Assay to Identify DNA Cruciforms. <i>Molecular Plant</i> , <b>2016</b> , 9, 1328-1336	14.4	5
15	Hyperactivity of the cryptochrome (cry1) L407F mutant is caused by a structural alteration close to the cry1 ATP-binding site. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 12906-12920	5.4	4
14	Salicylic acid interferes with GFP fluorescence in vivo. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 1689-1696		4
13	Recombinant phytochrome A in yeast differs by its spectroscopic and photochemical properties from the major phyA and is close to the minor phyA": evidence for posttranslational modification of the pigment in plants. <i>Photochemistry and Photobiology</i> , <b>2001</b> , 73, 692-6	3.6	4
12	Transcript profiling in Arabidopsis with genome tiling microarrays. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1067, 35-49	1.4	3
11	Polycomb Repressive Complex 2-mediated histone modification H3K27me3 is associated with embryogenic potential in Norway spruce. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 6366-6378	7	3
10	Mapping of Histone Modifications in Plants by Tandem Mass Spectrometry. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1675, 131-145	1.4	2
9	Growth protocols for model plants in developmental biology. <i>Methods in Molecular Biology</i> , <b>2010</b> , 655, 1-10	1.4	2
8	Dark-Induced Senescence Causes Localized Changes in DNA Methylation. <i>Plant Physiology</i> , <b>2020</b> , 182, 949-961	6.6	2
7	Polycomb Repressive Complex 2 and KRYPTONITE regulate pathogen-induced programmed cell death in Arabidopsis. <i>Plant Physiology</i> , <b>2021</b> , 185, 2003-2021	6.6	2

6	H2A ubiquitination is essential for Polycomb Repressive Complex 1-mediated gene regulation in <i>Marchantia polymorpha</i> . <i>Genome Biology</i> , <b>2021</b> , 22, 253	18.3	2
5	Chromatin: domestication of the monsters. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 2767-8	7	1
4	H2A ubiquitination is essential for Polycomb Repressive Complex 1-mediated gene regulation in <i>Marchantia polymorpha</i>		1
3	Lost Memories of Winter: Breaking the FLC Silence. <i>Molecular Plant</i> , <b>2017</b> , 10, 1477-1479	14.4	
2	Case studies for transcriptional profiling. <i>Exs</i> , <b>2007</b> , 97, 87-97		
1	Histone Deubiquitination Assay in. <i>Bio-protocol</i> , <b>2018</b> , 8, e2746	0.9	