Martin HÃ¼lskamp

List of Publications by Year
in descending order

105 papers	9,492 citations	36271 51 h-index	39638 94 g-index
116 all docs	116 docs citations	116 times ranked	7010 citing authors

#	Article	IF	Citations
1	Genetic dissection of trichome cell development in Arabidopsis. Cell, 1994, 76, 555-566.	13.5	626
2	A morphogenetic gradient of hunchback protein organizes the expression of the gap genes KrÃ¼ppel and knirps in the early Drosophila embryo. Nature, 1990, 346, 577-580.	13.7	479
3	Wild-type ovule development in Arabidopsis thaliana: a light microscope study of cleared whole-mount tissue. Plant Journal, 1995, 7, 731-749.	2.8	407
4	Light and the E3 ubiquitin ligase <scp>COP</scp>1/<scp>SPA</scp> control the protein stability of the <scp>MYB</scp> transcription factors <scp>PAP</scp>1 and <scp>PAP</scp>2 involved in anthocyanin accumulation in Arabidopsis. Plant Journal, 2013, 74, 638-651.	2.8	323
5	Plant trichomes: a model for cell differentiation. Nature Reviews Molecular Cell Biology, 2004, 5, 471-480.	16.1	281
6	Mutations in Actin-Related Proteins 2 and 3 Affect Cell Shape Development in Arabidopsis. Plant Cell, 2003, 15, 1632-1645.	3.1	250
7	SIAMESE, a Plant-Specific Cell Cycle Regulator, Controls Endoreplication Onset in Arabidopsis thaliana. Plant Cell, 2006, 18, 3145-3157.	3.1	234
8	Identification of genes required for pollen-stigma recognition in Arabidopsis thaliana. Plant Journal, 1995, 8, 703-714.	2.8	206
9	ENHANCER of TRYand CPC 2(ETC2) reveals redundancy in the region-specific control of trichome development of Arabidopsis. Plant Molecular Biology, 2004, 55, 389-398.	2.0	206
10	Transcriptional Profiling of Mature Arabidopsis Trichomes Reveals That <i>NOECK</i> Encodes the MIXTA-Like Transcriptional Regulator MYB106 Â Â. Plant Physiology, 2008, 148, 1583-1602.	2.3	205
11	Posterior segmentation of the Drosophila embryo in the absence of a maternal posterior organizer gene. Nature, 1989, 338, 629-632.	13.7	191
12	Misexpression of the Cyclin-Dependent Kinase Inhibitor ICK1/KRP1 in Single-Celled Arabidopsis Trichomes Reduces Endoreduplication and Cell Size and Induces Cell Death. Plant Cell, 2003, 15, 303-315.	3.1	191
13	Arabidopsis CROOKEDencodes for the smallest subunit of the ARP2/3 complex and controls cell shape by region specific fine F-actin formation. Development (Cambridge), 2003, 130, 3137-3146.	1.2	188
14	Simultaneous Visualization of Peroxisomes and Cytoskeletal Elements Reveals Actin and Not Microtubule-Based Peroxisome Motility in Plants. Plant Physiology, 2002, 128, 1031-1045.	2.3	187
15	Endoreduplication and development: rule without dividing?. Current Opinion in Plant Biology, 1998, 1, 498-503.	3.5	186
16	Functional diversification of MYB23 and GL1 genes in trichome morphogenesis and initiation. Development (Cambridge), 2005, 132, 1477-1485.	1.2	186
17	Generation of a Spacing Pattern: The Role of TRIPTYCHON in Trichome Patterning in Arabidopsis. Plant Cell, 1999, 11, 1105-1116.	3.1	184
18	Novel Functions of Plant Cyclin-Dependent Kinase Inhibitors, ICK1/KRP1, Can Act Non-Cell-Autonomously and Inhibit Entry into Mitosis. Plant Cell, 2005, 17, 1704-1722.	3.1	167

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19	One, two, threeâ€¦models for trichome patterning in Arabidopsis?. Current Opinion in Plant Biology, 2009, 12, 587-592.	3.5	164
20	The Arabidopsis elch mutant reveals functions of an ESCRT component in cytokinesis. Development (Cambridge), 2006, 133, 4679-4689.	1.2	160
21	Functional diversity of R3 single-repeat genes in trichome development. Development (Cambridge), 2009, 136, 1487-1496.	1.2	156
22	Ectopic B-Type Cyclin Expression Induces Mitotic Cycles in Endoreduplicating Arabidopsis Trichomes. Current Biology, 2002, 12, 415-420.	1.8	144
23	Genetic Evidence for a Long-Range Activity That Directs Pollen Tube Guidance in Arabidopsis. Plant Cell, 1995, 7, 57.	3.1	139
24	Ectopic D-type cyclin expression induces not only DNA replication but also cell division in Arabidopsis trichomes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6410-6415.	3.3	136
25	Two-Dimensional Patterning by a Trapping/Depletion Mechanism: The Role of TTG1 and GL3 in Arabidopsis Trichome Formation. PLoS Biology, 2008, 6, e141.	2.6	135
26	Epidermal differentiation: trichomes in Arabidopsis as a model system. International Journal of Developmental Biology, 2005, 49, 579-584.	0.3	131
27	The<i>MYB23</i>Gene Provides a Positive Feedback Loop for Cell Fate Specification in the<i>Arabidopsis</i>Root Epidermis Â. Plant Cell, 2009, 21, 1080-1094.	3.1	130
28	A Novel Localization Pattern for an EB1-like Protein Links Microtubule Dynamics to Endomembrane Organization. Current Biology, 2003, 13, 1991-1997.	1.8	127
29	Trichome Cell Growth in Arabidopsis thaliana Can Be Derepressed by Mutations in at Least Five Genes. Genetics, 1999, 152, 461-476.	1.2	125
30	Creating a two-dimensional pattern de novo during Arabidopsis trichome and root hair initiation. Current Opinion in Genetics and Development, 2004, 14, 422-427.	1.5	124
31	CLASP localizes in two discrete patterns on cortical microtubules and is required for cell morphogenesis and cell division in <i>Arabidopsis</i>. Journal of Cell Science, 2007, 120, 4416-4425.	1.2	121
32	Pattern Formation and Cell Differentiation: Trichomes in Arabidopsis as a Genetic Model System. International Review of Cytology, 1998, 186, 147-178.	6.2	118
33	TheSTUDGene Is Required for Male-Specific Cytokinesis after Telophase II of Meiosis inArabidopsis thaliana. Developmental Biology, 1997, 187, 114-124.	0.9	116
34	Trichome Patterning in Arabidopsis thaliana. Current Topics in Developmental Biology, 2010, 91, 299-321.	1.0	112
35	Microtubules and Microfilaments in Cell Morphogenesis in Higher Plants. Current Biology, 2002, 12, R669-R676.	1.8	103
36	Endoreplication Controls Cell Fate Maintenance. PLoS Genetics, 2010, 6, e1000996.	1.5	102

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37	Ectopic Expression of the Arabidopsis AtMYB23 Gene Induces Differentiation of Trichome Cells. Developmental Biology, 2001, 235, 366-377.	0.9	95
38	The role of Arabidopsis SCAR genes in ARP2-ARP3-dependent cell morphogenesis. Development (Cambridge), 2007, 134, 967-977.	1.2	91
39	Gap genes and gradients - The logic behind the gaps. BioEssays, 1991, 13, 261-268.	1.2	90
40	A competitive complex formation mechanism underlies trichome patterning on <i>Arabidopsis</i> leaves. Molecular Systems Biology, 2008, 4, 217.	3.2	89
41	Actin Control Over Microtubules Suggested by DISTORTED2 Encoding the Arabidopsis ARPC2 Subunit Homolog. Plant and Cell Physiology, 2004, 45, 813-822.	1.5	74
42	TRANSPARENT TESTA GLABRA1 and GLABRA1 Compete for Binding to GLABRA3 in Arabidopsis. Plant Physiology, 2015, 168, 584-597.	2.3	74
43	The Arabidopsis TUBULIN-FOLDING COFACTOR A Gene Is Involved in the Control of the Î±/Î²-Tubulin Monomer Balance. Plant Cell, 2002, 14, 2265-2276.	3.1	71
44	Isolation of Ethyl Methanesulfonate-Induced Gametophytic Mutants in Arabidopsis thaliana by a Segregation Distortion Assay Using the Multimarker Chromosome 1. Genetics, 1999, 151, 849-863.	1.2	69
45	Mutual control of intracellular localisation of the patterning proteins AtMYC1, GL1 and TRY/CPC in<i>Arabidopsis</i>. Development (Cambridge), 2013, 140, 3456-3467.	1.2	68
46	Embryo and Endosperm Development Is Disrupted in the Female Gametophytic <i>capulet</i> Mutants of Arabidopsis. Genetics, 2002, 162, 1911-1925.	1.2	66
47	The Arabidopsis STICHEL Gene Is a Regulator of Trichome Branch Number and Encodes a Novel Protein. Plant Physiology, 2003, 131, 643-655.	2.3	63
48	Spatial regulation of trichome formation inArabidopsis thaliana. Seminars in Cell and Developmental Biology, 1998, 9, 213-220.	2.3	60
49	The AAA-type ATPase AtSKD1 contributes to vacuolar maintenance of Arabidopsis thaliana. Plant Journal, 2010, 64, no-no.	2.8	59
50	Non-Cell-Autonomous Regulation of Root Hair Patterning Genes by<i>WRKY75</i>in Arabidopsis Â. Plant Physiology, 2014, 165, 186-195.	2.3	58
51	Role of TRIPTYCHON in trichome patterning in Arabidopsis. BMC Plant Biology, 2011, 11, 130.	1.6	55
52	<i>Arabidopsis</i>TTG2 Regulates<i>TRY</i>Expression through Enhancement of Activator Complex-Triggered Activation Â. Plant Cell, 2014, 26, 4067-4083.	3.1	55
53	<i>MIDGET</i>Unravels Functions of the<i>Arabidopsis</i>Topoisomerase VI Complex in DNA Endoreduplication, Chromatin Condensation, and Transcriptional Silencing. Plant Cell, 2007, 19, 3100-3110.	3.1	54
54	Stochastic gene expression in Arabidopsis thaliana. Nature Communications, 2017, 8, 2132.	5.8	54

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55	Trichome morphogenesis inArabidopsis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 879-883.	1.8	53
56	Regulatory and coding regions of the segmentation gene hunchback are functionally conserved between Drosophila virilis and Drosophila melanogaster. Mechanisms of Development, 1994, 45, 105-115.	1.7	52
57	Evolutionary comparison of competitive protein-complex formation of MYB, bHLH, and WDR proteins in plants. Journal of Experimental Botany, 2019, 70, 3197-3209.	2.4	50
58	Functional Analysis of the Tubulin-Folding Cofactor C in Arabidopsis thaliana. Current Biology, 2002, 12, 1519-1523.	1.8	49
59	Nuclear trapping by GL3 controls intercellular transport and redistribution of TTG1 protein in<i>Arabidopsis</i>. Development (Cambridge), 2011, 138, 5039-5048.	1.2	47
60	Processing-Body Movement in Arabidopsis Depends on an Interaction between Myosins and DECAPPING PROTEIN1. Plant Physiology, 2014, 164, 1879-1892.	2.3	45
61	Constitutive Expressor of Pathogenesis-Related Genes5affects cell wall biogenesis and trichome development. BMC Plant Biology, 2008, 8, 58.	1.6	43
62	The BEACH Domain Protein SPIRRIG Is Essential for Arabidopsis Salt Stress Tolerance and Functions as a Regulator of Transcript Stabilization and Localization. PLoS Biology, 2015, 13, e1002188.	2.6	41
63	The Arabidopsis KLUNKER gene controls cell shape changes and encodes the AtSRA1 homolog. Plant Molecular Biology, 2004, 56, 775-782.	2.0	39
64	The Arabidopsis ESCRT proteinâ€“protein interaction network. Plant Molecular Biology, 2011, 76, 85-96.	2.0	39
65	<i>BRANCHLESS TRICHOMES</i>links cell shape and cell cycle control in<i>Arabidopsis</i>trichomes. Development (Cambridge), 2011, 138, 2379-2388.	1.2	38
66	Artificial ubiquitylation is sufficient for sorting of a plasma membrane ATPase to the vacuolar lumen of Arabidopsis cells. Planta, 2012, 236, 63-77.	1.6	38
67	phenoVein - A tool for leaf vein segmentation and analysis. Plant Physiology, 2015, 169, pp.00974.2015.	2.3	37
68	The cell morphogenesis gene <i>SPIRRIG</i> in Arabidopsis encodes a WD/BEACH domain protein. Plant Journal, 2009, 59, 612-621.	2.8	36
69	Cell morphogenesis: How plants split hairs. Current Biology, 2000, 10, R308-R310.	1.8	33
70	ANGUSTIFOLIA, a Plant Homolog of CtBP/BARS Localizes to Stress Granules and Regulates Their Formation. Frontiers in Plant Science, 2017, 8, 1004.	1.7	33
71	Epidermal Fate Map of theArabidopsisShoot Meristem. Developmental Biology, 1996, 175, 248-255.	0.9	32
72	Tissue layer specific regulation of leaf length and width in Arabidopsis as revealed by the cell autonomous action of ANGUSTIFOLIA. Plant Journal, 2010, 61, 191-199.	2.8	31

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73	ANGUSTIFOLIA is a central component of tissue morphogenesis mediated by the atypical receptor-like kinase STRUBBELIG. BMC Plant Biology, 2013, 13, 16.	1.6	30
74	Evolutionary Analysis of MBW Function by Phenotypic Rescue in Arabidopsis thaliana. Frontiers in Plant Science, 2019, 10, 375.	1.7	30
75	Cell morphogenesis in Arabidopsis. BioEssays, 1998, 20, 20-29.	1.2	28
76	Genetic and molecular analysis of trichome development in <i>Arabis alpina</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12078-12083.	3.3	28
77	Analysis of TTG1 function in Arabis alpina. BMC Plant Biology, 2014, 14, 16.	1.6	25
78	Disruption of the plant-specific CFS1 gene impairs autophagosome turnover and triggers EDS1-dependent cell death. Scientific Reports, 2017, 7, 8677.	1.6	25
79	Generation of a Spacing Pattern: The Role of TRIPTYCHON in Trichome Patterning in Arabidopsis. Plant Cell, 1999, 11, 1105.	3.1	20
80	A role for ABIL3 in plant cell morphogenesis. Plant Journal, 2010, 62, no-no.	2.8	20
81	Semi-automated 3D Leaf Reconstruction and Analysis of Trichome Patterning from Light Microscopic Images. PLoS Computational Biology, 2013, 9, e1003029.	1.5	20
82	Signal Transduction: Rho-like Proteins in Plants. Current Biology, 2002, 12, R526-R528.	1.8	17
83	Physical, Functional and Genetic Interactions between the BEACH Domain Protein SPIRRIG and LIP5 and SKD1 and Its Role in Endosomal Trafficking to the Vacuole in Arabidopsis. Frontiers in Plant Science, 2017, 8, 1969.	1.7	17
84	Trichomes. Current Biology, 2019, 29, R273-R274.	1.8	17
85	Selection and validation of reference genes for quantitative Real-Time PCR in Arabis alpina. PLoS ONE, 2019, 14, e0211172.	1.1	17
86	Tissue patterning ofArabidopsiscotyledons. New Phytologist, 2002, 153, 461-467.	3.5	14
87	Ectopic B-Type Cyclin Expression Induces Mitotic Cycles in Endoreduplicating Arabidopsis Trichomes. Current Biology, 2005, 15, 980.	1.8	13
88	Plant GTPases: Regulation of Morphogenesis by ROPs and ROS. Current Biology, 2006, 16, R211-R213.	1.8	12
89	Seeds of Arabidopsis plants expressing dominant-negative AtSKD1 under control of the GL2 promoter show atransparent testaphenotype and a mucilage defect. Plant Signaling and Behavior, 2010, 5, 1308-1310.	1.2	12
90	Rapid Identification of a Natural Knockout Allele of ARMADILLO REPEAT-CONTAINING KINESIN1 That Causes Root Hair Branching by Mapping-By-Sequencing Â Â. Plant Physiology, 2014, 166, 1280-1287.	2.3	12

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91	A fast and simple LC-MS-based characterization of the flavonoid biosynthesis pathway for few seed(ling)s. BMC Plant Biology, 2016, 16, 190.	1.6	12
92	Quantitative trait loci controlling leaf venation in <i>Arabidopsis</i>. Plant, Cell and Environment, 2017, 40, 1429-1441.	2.8	11
93	A Comprehensive Toolkit for Quick and Easy Visualization of Marker Proteins, Proteinâ€“Protein Interactions and Cell Morphology in Marchantia polymorpha. Frontiers in Plant Science, 2020, 11, 569194.	1.7	11
94	<scp>MIDGET</scp> connects <scp>COP</scp>1â€dependent development with endoreduplication in <i><scp>A</scp>rabidopsis thaliana</i>. Plant Journal, 2013, 75, 67-79.	2.8	10
95	Quantification of variability in trichome patterns. Frontiers in Plant Science, 2014, 5, 596.	1.7	10
96	The Second Intron Is Essential for the Transcriptional Control of the Arabidopsis thaliana GLABRA3 Gene in Leaves. Frontiers in Plant Science, 2017, 8, 1382.	1.7	9
97	Identification of the Trichome Patterning Core Network Using Data from Weak ttg1 Alleles to Constrain the Model Space. Cell Reports, 2020, 33, 108497.	2.9	9
98	Trichome Development in Arabidopsis. Methods in Molecular Biology, 2010, 655, 77-88.	0.4	8
99	Whole-Mount DAPI Staining and Measurement of DNA Content in Plant Cells. Cold Spring Harbor Protocols, 2007, 2007, pdb.prot4684-pdb.prot4684.	0.2	8
100	Sub-epidermal Expression of ENHANCER OF TRIPTYCHON AND CAPRICE1 and Its Role in Root Hair Formation Upon Pi Starvation. Frontiers in Plant Science, 2018, 9, 1411.	1.7	5
101	Evolutionary Comparison of the Developmental/Physiological Phenotype and the Molecular Behavior of SPIRRIG Between Arabidopsis thaliana and Arabis alpina. Frontiers in Plant Science, 2020, 11, 596065.	1.7	4
102	Unravelling the molecular basis of the dominant negative effect of myosin XI tails on P-bodies. PLoS ONE, 2021, 16, e0252327.	1.1	3
103	Heat Stress-Dependent Association of Membrane Trafficking Proteins With mRNPs Is Selective. Frontiers in Plant Science, 2021, 12, 670499.	1.7	3
104	Genetic and Molecular Analysis of Root Hair Development in Arabis alpina. Frontiers in Plant Science, 2021, 12, 767772.	1.7	2
105	Plant cells â€" young at heart?. Current Opinion in Plant Biology, 1999, 2, 508-512.	3.5	1