

Claudia Kohler

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3649972/claudia-kohler-publications-by-year.pdf>

Version: 2024-04-26

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.

116
papers

6,839
citations

49
h-index

81
g-index

138
ext. papers

8,398
ext. citations

9.9
avg, IF

6.27
L-index

#	Paper	IF	Citations
116	Bypassing reproductive barriers in hybrid seeds using chemically induced epimutagenesis. <i>Plant Cell</i> , 2021 ,	11.6	1
115	The miRNome function transitions from regulating developmental genes to transposable elements during pollen maturation. <i>Plant Cell</i> , 2021 ,	11.6	2
114	INT-Hi-C reveals distinct chromatin architecture in endosperm and leaf tissues of Arabidopsis. <i>Nucleic Acids Research</i> , 2021 , 49, 4371-4385	20.1	5
113	On the origin of the widespread self-compatible allotetraploid <i>Capsella bursa-pastoris</i> (Brassicaceae). <i>Heredity</i> , 2021 , 127, 124-134	3.6	1
112	Postzygotic reproductive isolation established in the endosperm: mechanisms, drivers and relevance. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200118	5.8	6
111	Transgenerational effect of mutants in the RNA-directed DNA methylation pathway on the triploid block in Arabidopsis. <i>Genome Biology</i> , 2021 , 22, 141	18.3	2
110	Role of H1 and DNA methylation in selective regulation of transposable elements during heat stress. <i>New Phytologist</i> , 2021 , 229, 2238-2250	9.8	14
109	Hybrid seed incompatibility in <i>Capsella</i> is connected to chromatin condensation defects in the endosperm. <i>PLoS Genetics</i> , 2021 , 17, e1009370	6	2
108	Polycomb Repressive Complex 2 and KRYPTONITE regulate pathogen-induced programmed cell death in Arabidopsis. <i>Plant Physiology</i> , 2021 , 185, 2003-2021	6.6	2
107	Combinations of maternal-specific repressive epigenetic marks in the endosperm control seed dormancy. <i>ELife</i> , 2021 , 10,	8.9	2
106	H2A ubiquitination is essential for Polycomb Repressive Complex 1-mediated gene regulation in <i>Marchantia polymorpha</i> . <i>Genome Biology</i> , 2021 , 22, 253	18.3	2
105	Removal of H2Aub1 by ubiquitin-specific proteases 12 and 13 is required for stable Polycomb-mediated gene repression in Arabidopsis. <i>Genome Biology</i> , 2020 , 21, 144	18.3	12
104	Polymerase IV Plays a Crucial Role in Pollen Development in. <i>Plant Cell</i> , 2020 , 32, 950-966	11.6	23
103	Mobility connects: transposable elements wire new transcriptional networks by transferring transcription factor binding motifs. <i>Biochemical Society Transactions</i> , 2020 , 48, 1005-1017	5.1	11
102	Genomic imprinting in plants-revisiting existing models. <i>Genes and Development</i> , 2020 , 34, 24-36	12.6	45
101	Dark-Induced Senescence Causes Localized Changes in DNA Methylation. <i>Plant Physiology</i> , 2020 , 182, 949-961	6.6	2
100	Polycomb Repressive Complex 2-mediated histone modification H3K27me3 is associated with embryogenic potential in Norway spruce. <i>Journal of Experimental Botany</i> , 2020 , 71, 6366-6378	7	3

99	Auxin regulates endosperm cellularization in. <i>Genes and Development</i> , 2019 , 33, 466-476	12.6	37
98	Epigenetic signatures associated with imprinted paternally expressed genes in the Arabidopsis endosperm. <i>Genome Biology</i> , 2019 , 20, 41	18.3	21
97	Genetic basis and timing of a major mating system shift in <i>Capsella</i> . <i>New Phytologist</i> , 2019 , 224, 505-517	9.8	8
96	The MADS-box transcription factor PHERES1 controls imprinting in the endosperm by binding to domesticated transposons. <i>ELife</i> , 2019 , 8,	8.9	30
95	Tissue-specific transposon-associated small RNAs in the gymnosperm tree, Norway spruce. <i>BMC Genomics</i> , 2019 , 20, 997	4.5	8
94	Endosperm-specific transcriptome analysis by applying the INTACT system. <i>Plant Reproduction</i> , 2019 , 32, 55-61	3.9	12
93	Auxin: a molecular trigger of seed development. <i>Genes and Development</i> , 2018 , 32, 479-490	12.6	68
92	Transgenerational phenotype aggravation in CAF-1 mutants reveals parent-of-origin specific epigenetic inheritance. <i>New Phytologist</i> , 2018 , 220, 908-921	9.8	10
91	Transposon-derived small RNAs triggered by miR845 mediate genome dosage response in Arabidopsis. <i>Nature Genetics</i> , 2018 , 50, 186-192	36.3	80
90	Paternal easiRNAs regulate parental genome dosage in Arabidopsis. <i>Nature Genetics</i> , 2018 , 50, 193-198	36.3	72
89	Arabidopsis SWC4 Binds DNA and Recruits the SWR1 Complex to Modulate Histone H2A.Z Deposition at Key Regulatory Genes. <i>Molecular Plant</i> , 2018 , 11, 815-832	14.4	32
88	Sequestration of a Transposon-Derived siRNA by a Target Mimic Imprinted Gene Induces Postzygotic Reproductive Isolation in Arabidopsis. <i>Developmental Cell</i> , 2018 , 46, 696-705.e4	10.2	26
87	Paternally expressed imprinted genes associate with hybridization barriers in <i>Capsella</i> . <i>Nature Plants</i> , 2018 , 4, 352-357	11.5	36
86	Endosperm-based hybridization barriers explain the pattern of gene flow between <i>Arabidopsis lyrata</i> and <i>Arabidopsis arenosa</i> in Central Europe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1027-E1035	11.5	61
85	Epigenetic processes in flowering plant reproduction. <i>Journal of Experimental Botany</i> , 2017 , 68, 797-807	7	42
84	Role of small RNAs in epigenetic reprogramming during plant sexual reproduction. <i>Current Opinion in Plant Biology</i> , 2017 , 36, 22-28	9.9	39
83	H3K23me1 is an evolutionarily conserved histone modification associated with CG DNA methylation in Arabidopsis. <i>Plant Journal</i> , 2017 , 90, 293-303	6.9	10
82	Applying the INTACT method to purify endosperm nuclei and to generate parental-specific epigenome profiles. <i>Nature Protocols</i> , 2017 , 12, 238-254	18.8	36

81	The meiotic regulator JASON utilizes alternative translation initiation sites to produce differentially localized forms. <i>Journal of Experimental Botany</i> , 2017 , 68, 4205-4217	7	2
80	Ectopic application of the repressive histone modification H3K9me2 establishes post-zygotic reproductive isolation in. <i>Genes and Development</i> , 2017 , 31, 1272-1287	12.6	29
79	Auxin production in the endosperm drives seed coat development in. <i>ELife</i> , 2016 , 5,	8.9	102
78	Rapid Evolution of Genomic Imprinting in Two Species of the Brassicaceae. <i>Plant Cell</i> , 2016 , 28, 1815-27	11.6	53
77	Silencing in sperm cells is directed by RNA movement from the surrounding nurse cell. <i>Nature Plants</i> , 2016 , 2, 16030	11.5	132
76	H2A deubiquitinases UBP12/13 are part of the Arabidopsis polycomb group protein system. <i>Nature Plants</i> , 2016 , 2, 16126	11.5	36
75	Bridging the generation gap: communication between maternal sporophyte, female gametophyte and fertilization products. <i>Current Opinion in Plant Biology</i> , 2016 , 29, 16-20	9.9	15
74	BRR2a Affects Flowering Time via FLC Splicing. <i>PLoS Genetics</i> , 2016 , 12, e1005924	6	35
73	Endosperm-based postzygotic hybridization barriers: developmental mechanisms and evolutionary drivers. <i>Molecular Ecology</i> , 2016 , 25, 2620-9	5.7	75
72	H3K36ac Is an Evolutionary Conserved Plant Histone Modification That Marks Active Genes. <i>Plant Physiology</i> , 2016 , 170, 1566-77	6.6	55
71	DNA-sequence-specific erasers of epigenetic memory. <i>Nature Genetics</i> , 2016 , 48, 591-2	36.3	4
70	Parental epigenetic asymmetry of PRC2-mediated histone modifications in the Arabidopsis endosperm. <i>EMBO Journal</i> , 2016 , 35, 1298-311	13	74
69	Organelles maintain spindle position in plant meiosis. <i>Nature Communications</i> , 2015 , 6, 6492	17.4	26
68	Evolution and function of epigenetic processes in the endosperm. <i>Frontiers in Plant Science</i> , 2015 , 6, 1306.2		12
67	Keeping the gate closed: functions of the polycomb repressive complex PRC2 in development. <i>Plant Journal</i> , 2015 , 83, 121-32	6.9	93
66	Intercellular communication in Arabidopsis thaliana pollen discovered via AHG3 transcript movement from the vegetative cell to sperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13378-83	11.5	17
65	Epigenetic mechanisms of postzygotic reproductive isolation in plants. <i>Current Opinion in Plant Biology</i> , 2015 , 23, 39-44	9.9	37
64	Auxin production couples endosperm development to fertilization. <i>Nature Plants</i> , 2015 , 1, 15184	11.5	79

63	SYBR Green-activated sorting of Arabidopsis pollen nuclei based on different DNA/RNA content. <i>Plant Reproduction</i> , 2015 , 28, 61-72	3.9	14
62	Non-reciprocal Interspecies Hybridization Barriers in the Capsella Genus Are Established in the Endosperm. <i>PLoS Genetics</i> , 2015 , 11, e1005295	6	53
61	Paternally expressed imprinted genes establish postzygotic hybridization barriers in Arabidopsis thaliana. <i>ELife</i> , 2015 , 4,	8.9	68
60	Signalling events regulating seed coat development. <i>Biochemical Society Transactions</i> , 2014 , 42, 358-63	5.1	42
59	Embryo and endosperm, partners in seed development. <i>Current Opinion in Plant Biology</i> , 2014 , 17, 64-9	9.9	95
58	Hypomethylated pollen bypasses the interploidy hybridization barrier in Arabidopsis. <i>Plant Cell</i> , 2014 , 26, 3556-68	11.6	33
57	Endosperm-specific chromatin profiling by fluorescence-activated nuclei sorting and CHIP-on-chip. <i>Methods in Molecular Biology</i> , 2014 , 1112, 105-15	1.4	8
56	An imprinted gene underlies postzygotic reproductive isolation in Arabidopsis thaliana. <i>Developmental Cell</i> , 2013 , 26, 525-35	10.2	89
55	Increased maternal genome dosage bypasses the requirement of the FIS polycomb repressive complex 2 in Arabidopsis seed development. <i>PLoS Genetics</i> , 2013 , 9, e1003163	6	43
54	Tearing down barriers: understanding the molecular mechanisms of interploidy hybridizations. <i>Journal of Experimental Botany</i> , 2012 , 63, 6059-67	7	33
53	Evolution, function, and regulation of genomic imprinting in plant seed development. <i>Journal of Experimental Botany</i> , 2012 , 63, 4713-22	7	54
52	Epigenetic mechanisms underlying genomic imprinting in plants. <i>Annual Review of Plant Biology</i> , 2012 , 63, 331-52	30.7	149
51	Endosperm cellularization defines an important developmental transition for embryo development. <i>Development (Cambridge)</i> , 2012 , 139, 2031-9	6.6	132
50	Epigenetic mechanisms in the endosperm and their consequences for the evolution of flowering plants. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2011 , 1809, 438-43	6	19
49	Unreduced gamete formation in plants: mechanisms and prospects. <i>Journal of Experimental Botany</i> , 2011 , 62, 1659-68	7	114
48	Identification of imprinted genes subject to parent-of-origin specific expression in Arabidopsis thaliana seeds. <i>BMC Plant Biology</i> , 2011 , 11, 113	5.3	42
47	Polycomb group proteins are required to couple seed coat initiation to fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20826-31	11.5	74
46	High-resolution analysis of parent-of-origin allelic expression in the Arabidopsis Endosperm. <i>PLoS Genetics</i> , 2011 , 7, e1002126	6	184

45	The CHD3 chromatin remodeler PICKLE and polycomb group proteins antagonistically regulate meristem activity in the Arabidopsis root. <i>Plant Cell</i> , 2011 , 23, 1047-60	11.6	117
44	Mechanisms and evolution of genomic imprinting in plants. <i>Heredity</i> , 2010 , 105, 57-63	3.6	57
43	H3K27me3 profiling of the endosperm implies exclusion of polycomb group protein targeting by DNA methylation. <i>PLoS Genetics</i> , 2010 , 6, e1001152	6	147
42	Antagonizing Polycomb group-mediated gene repression by chromatin remodelers. <i>Epigenetics</i> , 2010 , 5, 20-3	5.7	5
41	Bisulphite sequencing of plant genomic DNA. <i>Methods in Molecular Biology</i> , 2010 , 655, 433-43	1.4	8
40	Regulation of cell identity by plant Polycomb and trithorax group proteins. <i>Current Opinion in Genetics and Development</i> , 2010 , 20, 541-7	4.9	57
39	Plant chromatin immunoprecipitation. <i>Methods in Molecular Biology</i> , 2010 , 655, 401-11	1.4	16
38	The impact of the triploid block on the origin and evolution of polyploid plants. <i>Trends in Genetics</i> , 2010 , 26, 142-8	8.5	150
37	Imprinting of the polycomb group gene MEDEA serves as a ploidy sensor in Arabidopsis. <i>PLoS Genetics</i> , 2009 , 5, e1000663	6	105
36	CHD3 proteins and polycomb group proteins antagonistically determine cell identity in Arabidopsis. <i>PLoS Genetics</i> , 2009 , 5, e1000605	6	124
35	Control of PHERES1 imprinting in Arabidopsis by direct tandem repeats. <i>Molecular Plant</i> , 2009 , 2, 654-660	1.4	56
34	The chromodomain of LIKE HETEROCHROMATIN PROTEIN 1 is essential for H3K27me3 binding and function during Arabidopsis development. <i>PLoS ONE</i> , 2009 , 4, e5335	3.7	99
33	Programming of gene expression by Polycomb group proteins. <i>Trends in Cell Biology</i> , 2008 , 18, 236-43	18.3	141
32	Mechanism of PHERES1 imprinting in Arabidopsis. <i>Journal of Cell Science</i> , 2008 , 121, 906-12	5.3	122
31	Polycomb group proteins function in the female gametophyte to determine seed development in plants. <i>Development (Cambridge)</i> , 2007 , 134, 3639-48	6.6	33
30	Case studies for transcriptional profiling. <i>Exs</i> , 2007 , 97, 87-97		
29	Epigenetic Regulation of Seed Development 2007 , 309-311		
28	Polycomb-group proteins repress the floral activator AGL19 in the FLC-independent vernalization pathway. <i>Genes and Development</i> , 2006 , 20, 1667-78	12.6	146

27	Different Polycomb group complexes regulate common target genes in Arabidopsis. <i>EMBO Reports</i> , 2006 , 7, 947-52	6.5	218
26	Epigenetic mechanisms governing seed development in plants. <i>EMBO Reports</i> , 2006 , 7, 1223-7	6.5	92
25	Seed development and genomic imprinting in plants. <i>Progress in Molecular and Subcellular Biology</i> , 2005 , 38, 237-62	3	21
24	The Arabidopsis thaliana MEDEA Polycomb group protein controls expression of PHERES1 by parental imprinting. <i>Nature Genetics</i> , 2005 , 37, 28-30	36.3	226
23	Transcriptional programs of early reproductive stages in Arabidopsis. <i>Plant Physiology</i> , 2004 , 135, 1765-75	6.6	110
22	Intrachromosomal excision of a hybrid Ds element induces large genomic deletions in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 2969-74	11.5	34
21	Genetic interaction of an origin recognition complex subunit and the Polycomb group gene MEDEA during seed development. <i>Plant Cell</i> , 2004 , 16, 1035-46	11.6	46
20	HLM1, an essential signaling component in the hypersensitive response, is a member of the cyclic nucleotide-gated channel ion channel family. <i>Plant Cell</i> , 2003 , 15, 365-79	11.6	279
19	Arabidopsis MSI1 is a component of the MEA/FIE Polycomb group complex and required for seed development. <i>EMBO Journal</i> , 2003 , 22, 4804-14	13	322
18	The Polycomb-group protein MEDEA regulates seed development by controlling expression of the MADS-box gene PHERES1. <i>Genes and Development</i> , 2003 , 17, 1540-53	12.6	316
17	Epigenetics: the flowers that come in from the cold. <i>Current Biology</i> , 2002 , 12, R129-31	6.3	15
16	Epigenetic inheritance of expression states in plant development: the role of Polycomb group proteins. <i>Current Opinion in Cell Biology</i> , 2002 , 14, 773-9	9	55
15	Genomic imprinting and seed development: endosperm formation with and without sex. <i>Current Opinion in Plant Biology</i> , 2001 , 4, 21-7	9.9	110
14	Interaction of the Arabidopsis polycomb group proteins FIE and MEA mediates their common phenotypes. <i>Current Biology</i> , 2000 , 10, 1535-8	6.3	125
13	Characterisation of calmodulin binding to cyclic nucleotide-gated ion channels from Arabidopsis thaliana. <i>FEBS Letters</i> , 2000 , 471, 133-6	3.8	95
12	Characterisation of a novel gene family of putative cyclic nucleotide- and calmodulin-regulated ion channels in Arabidopsis thaliana. <i>Plant Journal</i> , 1999 , 18, 97-104	6.9	157
11	Nuclear export of proteins in plants: AtXPO1 is the export receptor for leucine-rich nuclear export signals in Arabidopsis thaliana. <i>Plant Journal</i> , 1999 , 20, 695-705	6.9	141
10	Age Mutants of Arabidopsis exhibit altered auxin-regulated gene expression. <i>Plant Cell</i> , 1998 , 10, 1649-62	21.6	108

9	Age Mutants of Arabidopsis Exhibit Altered Auxin-Regulated Gene Expression. <i>Plant Cell</i> , 1998 , 10, 1649-1660	11.6	2
8	Characterization of two members (ACS1 and ACS3) of the 1-aminocyclopropane-1-carboxylate synthase gene family of Arabidopsis thaliana. <i>Gene</i> , 1995 , 167, 17-24	3.8	55
7	The role of transposable elements for gene expression in Capsella hybrids and allopolyploids		2
6	Transgenerational effect of mutants in the RNA-directed DNA methylation pathway on the triploid block		1
5	Epigenetic signatures associated with imprinted paternally-expressed genes in the Arabidopsis endosperm		1
4	Genetic basis and timing of a major mating system shift in Capsella		4
3	The MADS-box transcription factor PHERES1 controls imprinting in the endosperm by binding to domesticated transposons		1
2	Functional role of Polymerase IV during pollen development in Capsella		1
1	H2A ubiquitination is essential for Polycomb Repressive Complex 1-mediated gene regulation in Marchantia polymorpha		1