Ortrun Mittelsten Scheid

List of Publications by Year
in descending order

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56 papers	5,402 citations	136950 32 h-index	155660 55 g-index
64 all docs	64 docs citations	64 times ranked	5751 citing authors

#	Article	IF	Citations
1	Maintenance of CpG methylation is essential for epigenetic inheritance during plant gametogenesis. Nature Genetics, 2003, 34, 65-69.	21.4	455
2	Epigenetic Regulation of Repetitive Elements Is Attenuated by Prolonged Heat Stress in Arabidopsis Â Â. Plant Cell, 2010, 22, 3118-3129.	6.6	397
3	Epigenetic Regulation in Plants. Cold Spring Harbor Perspectives in Biology, 2014, 6, a019315-a019315.	5.5	310
4	How a Retrotransposon Exploits the Plant's Heat Stress Response for Its Activation. PLoS Genetics, 2014, 10, e1004115.	3.5	280
5	Arabidopsis Histone Deacetylase HDA6 Is Required for Maintenance of Transcriptional Gene Silencing and Determines Nuclear Organization of rDNA Repeats. Plant Cell, 2004, 16, 1021-1034.	6.6	264
6	Disruption of the plant gene MOM releases transcriptional silencing of methylated genes. Nature, 2000, 405, 203-206.	27.8	256
7	HISTONE MONOUBIQUITINATION1 Interacts with a Subunit of the Mediator Complex and Regulates Defense against Necrotrophic Fungal Pathogens inArabidopsisÂ. Plant Cell, 2009, 21, 1000-1019.	6.6	232
8	The impact of the triploid block on the origin and evolution of polyploid plants. Trends in Genetics, 2010, 26, 142-148.	6.7	225
9	BRU1, a novel link between responses to DNA damage and epigenetic gene silencing in Arabidopsis. Genes and Development, 2004, 18, 782-793.	5.9	197
10	CyMATE: a new tool for methylation analysis of plant genomic DNA after bisulphite sequencing. Plant Journal, 2007, 51, 526-536.	5.7	183
11	Transposons: a blessing curse. Current Opinion in Plant Biology, 2018, 42, 23-29.	7.1	163
12	Stress-Induced Chromatin Changes: A Critical View on Their Heritability. Plant and Cell Physiology, 2012, 53, 801-808.	3.1	159
13	Stress-induced structural changes in plant chromatin. Current Opinion in Plant Biology, 2015, 27, 8-16.	7.1	154
14	Endogenous Targets of Transcriptional Gene Silencing in Arabidopsis. Plant Cell, 2000, 12, 1165-1178.	6.6	152
15	Transgenerational Stress Memory Is Not a General Response in Arabidopsis. PLoS ONE, 2009, 4, e5202.	2.5	142
16	Imprinting of the Polycomb Group Gene MEDEA Serves as a Ploidy Sensor in Arabidopsis. PLoS Genetics, 2009, 5, e1000663.	3.5	141
17	Two means of transcriptional reactivation within heterochromatin. Plant Journal, 2003, 33, 743-749.	5.7	134
18	Formation of stable epialleles and their paramutation-like interaction in tetraploid Arabidopsis thaliana. Nature Genetics, 2003, 34, 450-454.	21.4	125

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19	Epigenetic responses to stress: triple defense?. Current Opinion in Plant Biology, 2012, 15, 568-573.	7.1	114
20	Polyploidization increases meiotic recombination frequency in Arabidopsis. BMC Biology, 2011, 9, 24.	3.8	108
21	Effective, homogeneous and transient interference with cytosine methylation in plant genomic DNA by zebularine. Plant Journal, 2009, 57, 542-554.	5.7	102
22	The Arabidopsis SWR1 Chromatin-Remodeling Complex Is Important for DNA Repair, Somatic Recombination, and Meiosis Â. Plant Cell, 2013, 25, 1990-2001.	6.6	93
23	Cooperation of Multiple Chromatin Modifications Can Generate Unanticipated Stability of Epigenetic States inArabidopsisÂ Â Â. Plant Cell, 2010, 22, 34-47.	6.6	82
24	Chromatin assembly factor 1 ensures the stable maintenance of silent chromatin states in Arabidopsis. Genes To Cells, 2006, 11, 153-162.	1.2	81
25	Meristemâ€specific expression of epigenetic regulators safeguards transposon silencing in Arabidopsis. EMBO Reports, 2014, 15, 446-452.	4.5	81
26	Two regulatory levels of transcriptional gene silencing in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13659-13662.	7.1	80
27	Rapid quantification of global DNA methylation by isocratic cation exchange high-performance liquid chromatography. Analytical Biochemistry, 2008, 375, 354-360.	2.4	66
28	MOM1 and Pol-IV/V interactions regulate the intensity and specificity of transcriptional gene silencing. EMBO Journal, 2010, 29, 340-351.	7.8	63
29	Developmental Control and Plasticity of Fruit and Seed Dimorphism in Aethionema arabicum. Plant Physiology, 2016, 172, 1691-1707.	4.8	59
30	DNA Damage Repair in the Context of Plant Chromatin. Plant Physiology, 2015, 168, 1206-1218.	4.8	55
31	Arabidopsis shoot stem cells display dynamic transcription and <scp>DNA</scp> methylation patterns. EMBO Journal, 2020, 39, e103667.	7.8	55
32	Paramutation: an encounter leaving a lasting impression. Trends in Plant Science, 2005, 10, 283-290.	8.8	48
33	Under siege: virus control in plant meristems and progeny. Plant Cell, 2021, 33, 2523-2537.	6.6	32
34	Aethionema arabicum: a novel model plant to study the light control of seed germination. Journal of Experimental Botany, 2019, 70, 3313-3328.	4.8	31
35	Direct gene transfer to protoplasts of Arabidopsis thaliana. Plant Cell Reports, 1991, 9, 571-4.	5.6	30
36	Probing the 3D architecture of the plant nucleus with microscopy approaches: challenges and solutions. Nucleus, 2019, 10, 181-212.	2.2	30

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37	Meiosis in Polyploid Plants. , 2012, , 33-55.		23
38	Genetic Rearrangements Can Modify Chromatin Features at Epialleles. PLoS Genetics, 2011, 7, e1002331.	3.5	22
39	Aethionema arabicum genome annotation using PacBio fullâ€length transcripts provides a valuable resource for seed dormancy and Brassicaceae evolution research. Plant Journal, 2021, 106, 275-293.	5.7	20
40	Advanced Methylome Analysis after Bisulfite Deep Sequencing: An Example in Arabidopsis. PLoS ONE, 2012, 7, e41528.	2.5	19
41	Functional Characterization of SMG7 Paralogs in Arabidopsis thaliana. Frontiers in Plant Science, 2018, 9, 1602.	3.6	17
42	The Role of Noncoding RNAs in Double-Strand Break Repair. Frontiers in Plant Science, 2019, 10, 1155.	3.6	17
43	A CENH3 mutation promotes meiotic exit and restores fertility in SMG7-deficient Arabidopsis. PLoS Genetics, 2021, 17, e1009779.	3.5	15
44	Versatile in vitro assay to recognize Cas9â€induced mutations. Plant Direct, 2020, 4, e00269.	1.9	14
45	Analysis of DNA Methylation in Plants by Bisulfite Sequencing. Methods in Molecular Biology, 2010, 631, 1-11.	0.9	13
46	Polyploidy-associated paramutation in Arabidopsis is determined by small RNAs, temperature, and allele structure. PLoS Genetics, 2021, 17, e1009444.	3.5	10
47	Either/or selection markers for plant transformation. Nature Biotechnology, 2004, 22, 398-399.	17.5	9
48	DNA Damage Sensitivity Assays with Arabidopsis Seedlings. Bio-protocol, 2014, 4, .	0.4	8
49	Preparing Chromatin and RNA from Rare Cell Types with Fluorescence-Activated Nuclear Sorting (FANS). Methods in Molecular Biology, 2020, 2093, 95-105.	0.9	8
50	Mendelian and non-Mendelian genetics in model plants. Plant Cell, 2022, 34, 2455-2461.	6.6	6
51	Analysis of Bisulfite Sequencing Data from Plant DNA Using CyMATE. Methods in Molecular Biology, 2010, 631, 13-22.	0.9	5
52	Medea in full self-control. Trends in Plant Science, 2006, 11, 469-471.	8.8	4
53	Answer to Wang and Luo, "Polyploidization increases meiotic recombination frequency in Arabidopsis: a close look at statistical modelling and data analysis". BMC Biology, 2012, 10, 31.	3.8	1
54	Epigenetic contribution to diversification. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3558-3560.	7.1	1

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55	Illuminating (White and) Purple Patches. Plant Cell, 2019, 31, 1208-1209.	6.6	1
56	Measuring Homologous Recombination Frequency in Arabidopsis Seedlings. Bio-protocol, 2014, 4, .	0.4	0