Aline V Probst

List of Publications by Year
in descending order

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44 papers	4,509 citations	201674 27 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	5415 citing authors

#	Article	IF	Citations
1	Epigenetic inheritance during the cell cycle. Nature Reviews Molecular Cell Biology, 2009, 10, 192-206.	37.0	707
2	Chromatin techniques for plant cells. Plant Journal, 2004, 39, 776-789.	5.7	359
3	Erasure of CpG methylation in Arabidopsis alters patterns of histone H3 methylation in heterochromatin. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8823-8827.	7.1	290
4	A Strand-Specific Burst in Transcription of Pericentric Satellites Is Required for Chromocenter Formation and Early Mouse Development. Developmental Cell, 2010, 19, 625-638.	7.0	273
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	Distinct regulation of histone H3 methylation at lysines 27 and 9 by CpG methylation in Arabidopsis. EMBO Journal, 2005, 24, 2783-2791.	7.8	213
7	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
8	SUMOylation promotes de novo targeting of HP1Î± to pericentric heterochromatin. Nature Genetics, 2011, 43, 220-227.	21.4	191
9	Stress-induced structural changes in plant chromatin. Current Opinion in Plant Biology, 2015, 27, 8-16.	7.1	154
10	CAF-1 Is Essential for Heterochromatin Organization in Pluripotent Embryonic Cells. PLoS Genetics, 2006, 2, e181.	3.5	149
11	Structural differences in centromeric heterochromatin are spatially reconciled on fertilisation in the mouse zygote. Chromosoma, 2007, 116, 403-415.	2.2	143
12	Two means of transcriptional reactivation within heterochromatin. Plant Journal, 2003, 33, 743-749.	5.7	134
13	Functional Genomic Analysis of CAF-1 Mutants in Arabidopsis thaliana. Journal of Biological Chemistry, 2006, 281, 9560-9568.	3.4	119
14	Heterochromatin establishment in the context of genome-wide epigenetic reprogramming. Trends in Genetics, 2011, 27, 177-185.	6.7	114
15	Pericentric heterochromatin: dynamic organization during early development in mammals. Differentiation, 2008, 76, 15-23.	1.9	95
16	Heterochromatin Reorganization during Early Mouse Development Requires a Single-Stranded Noncoding Transcript. Cell Reports, 2013, 4, 1156-1167.	6.4	86
17	Heterochromatin maintenance and establishment: Lessons from the mouse pericentromere. Nucleus, 2011, 2, 332-338.	2.2	81
18	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

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19	Characterization of two distinct subfamilies of SUN-domain proteins in Arabidopsis and their interactions with the novel KASH-domain protein AtTIK. Journal of Experimental Botany, 2014, 65, 6499-6512.	4.8	66
20	The LINC complex contributes to heterochromatin organisation and transcriptional gene silencing in plants. Journal of Cell Science, 2017, 130, 590-601.	2.0	65
21	Genetic and epigenetic variation in 5S ribosomal RNA genes reveals genome dynamics in Arabidopsis thaliana. Nucleic Acids Research, 2018, 46, 3019-3033.	14.5	65
22	Epigenetic regulation of transcription in intermediate heterochromatin. EMBO Reports, 2006, 7, 1279-1284.	4.5	62
23	Tandem repetitive transgenes and fluorescent chromatin tags alter local interphase chromosome arrangement in Arabidopsis thaliana. Journal of Cell Science, 2005, 118, 3751-3758.	2.0	59
24	Structure and Function of Centromeric and Pericentromeric Heterochromatin in Arabidopsis thaliana. Frontiers in Plant Science, 2015, 6, 1049.	3.6	56
25	NucleusJ: an ImageJ plugin for quantifying 3D images of interphase nuclei. Bioinformatics, 2015, 31, 1144-1146.	4.1	48
26	The histone chaperone complex <scp>HIR</scp> maintains nucleosome occupancy and counterbalances impaired histone deposition in <scp>CAF</scp>â€1 complex mutants. Plant Journal, 2015, 81, 707-722.	5.7	46
27	Exploring the evolution of the proteins of the plant nuclear envelope. Nucleus, 2017, 8, 46-59.	2.2	46
28	Similar yet critically different: the distribution, dynamics and function of histone variants. Journal of Experimental Botany, 2020, 71, 5191-5204.	4.8	39
29	The H3 histone chaperone NASP^{SIM3} escorts CenH3 in Arabidopsis. Plant Journal, 2020, 101, 71-86.	5.7	37
30	Arabidopsis ATRX Modulates H3.3 Occupancy and Fine-Tunes Gene Expression. Plant Cell, 2017, 29, 1773-1793.	6.6	35
31	Replicationâ€coupled histone H3.1 deposition determines nucleosome composition and heterochromatin dynamics during Arabidopsis seedling development. New Phytologist, 2019, 221, 385-398.	7.3	32
32	The plant LINC complex at the nuclear envelope. Chromosome Research, 2014, 22, 241-252.	2.2	29
33	Heterochromatin at Mouse Pericentromeres: A Model for De Novo Heterochromatin Formation and Duplication during Replication. Cold Spring Harbor Symposia on Quantitative Biology, 2010, 75, 155-165.	1.1	29
34	Gene dosage compensation of rRNA transcript levels inArabidopsis thalianalines with reduced ribosomal gene copy number. Plant Cell, 2021, 33, 1135-1150.	6.6	28
35	Structure, function and regulation of Transcription Factor IIIA: From Xenopus to Arabidopsis. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 274-282.	1.9	26
36	Heterochromatin dynamics during developmental transitions in Arabidopsis â€" a focus on ribosomal DNA loci. Gene, 2013, 526, 39-45.	2.2	23

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37	Automated 3D bio-imaging analysis of nuclear organization by NucleusJ 2.0. Nucleus, 2020, 11, 315-329.	2.2	18
38	Evolutionary history of Methyltransferase 1 genes in hexaploid wheat. BMC Genomics, 2014, 15, 922.	2.8	12
39	The Histone Chaperone HIRA Is a Positive Regulator of Seed Germination. International Journal of Molecular Sciences, 2021, 22, 4031.	4.1	9
40	A Compendium of Methods to Analyze the Spatial Organization of Plant Chromatin. Methods in Molecular Biology, 2018, 1675, 397-418.	0.9	7
41	High-Affinity LNAâ€“DNA Mixmer Probes for Detection of Chromosome-Specific Polymorphisms of 5S rDNA Repeats in Arabidopsis thaliana. Methods in Molecular Biology, 2018, 1675, 481-491.	0.9	7
42	Meeting report â€“ INDEPTH kick-off meeting. Journal of Cell Science, 2018, 131, jcs220558.	2.0	4
43	Untangling chromatin interactions. Journal of Experimental Botany, 2020, 71, 5115-5118.	4.8	1
44	Looking At the Past and Heading to the Future: Meeting Summary of the 6th European Workshop on Plant Chromatin 2019 in Cologne, Germany. Frontiers in Plant Science, 2020, 10, 1795.	3.6	0