Mary Gehring

List of Publications by Year
in descending order

39 papers	6,693 citations	218662 26 h-index	315719 38 g-index
46 all docs	46 docs citations	46 times ranked	5784 citing authors

#	Article	IF	Citations
1	Maternal-filial transfer structures in endosperm: A nexus of nutritional dynamics and seed development. Current Opinion in Plant Biology, 2022, 65, 102121.	7.1	13
2	RNA Pol IV induces antagonistic parent-of-origin effects on Arabidopsis endosperm. PLoS Biology, 2022, 20, e3001602.	5.6	9
3	Somatic DNA demethylation generates tissue-specific methylation states and impacts flowering time. Plant Cell, 2022, 34, 1189-1206.	6.6	24
4	Transcriptional and imprinting complexity in Arabidopsis seeds at single-nucleus resolution. Nature Plants, 2021, 7, 730-738.	9.3	53
5	Principles of Epigenetic Homeostasis Shared Between Flowering Plants and Mammals. Trends in Genetics, 2020, 36, 751-763.	6.7	24
6	Water lily (Nymphaea thermarum) genome reveals variable genomic signatures of ancient vascular cambium losses. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8649-8656.	7.1	33
7	Identification and Comparison of Imprinted Genes Across Plant Species. Methods in Molecular Biology, 2020, 2093, 173-201.	0.9	14
8	Paternally Acting Canonical RNA-Directed DNA Methylation Pathway Genes Sensitize Arabidopsis Endosperm to Paternal Genome Dosage. Plant Cell, 2019, 31, 1563-1578.	6.6	59
9	Epigenetic dynamics during flowering plant reproduction: evidence for reprogramming?. New Phytologist, 2019, 224, 91-96.	7.3	70
10	Low-input chromatin profiling in Arabidopsis endosperm using CUT&RUN. Plant Reproduction, 2019, 32, 63-75.	2.2	46
11	A variably imprinted epiallele impacts seed development. PLoS Genetics, 2018, 14, e1007469.	3.5	57
12	Ten things you should know about transposable elements. Genome Biology, 2018, 19, 199.	8.8	817
13	DNA methylation and imprinting in plants: machinery and mechanisms. Critical Reviews in Biochemistry and Molecular Biology, 2017, 52, 163-175.	5.2	66
14	Proximal methylation features associated with nonrandom changes in gene body methylation. Genome Biology, 2017, 18, 73.	8.8	31
15	Endosperm and Imprinting, Inextricably Linked. Plant Physiology, 2017, 173, 143-154.	4.8	110
16	Molecular movement in the Arabidopsis thaliana female gametophyte. Plant Reproduction, 2017, 30, 141-146.	2.2	23
17	Stable transgenerational epigenetic inheritance requires a DNA methylation-sensing circuit. Nature Communications, 2017, 8, 2124.	12.8	69
18	A Small RNA Pathway Mediates Allelic Dosage in Endosperm. Cell Reports, 2017, 21, 3364-3372.	6.4	73

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19	Prodigious plant methylomes. Genome Biology, 2016, 17, 197.	8.8	4
20	Conserved imprinting associated with unique epigenetic signatures in the Arabidopsis genus. Nature Plants, 2016, 2, 16145.	9.3	90
21	5-Hydroxymethylcytosine Is Not Present in Appreciable Quantities in Arabidopsis DNA. G3: Genes, Genomes, Genetics, 2015, 5, 1-8.	1.8	37
22	Methylation-Sensitive Expression of a DNA Demethylase Gene Serves As an Epigenetic Rheostat. PLoS Genetics, 2015, 11, e1005142.	3.5	150
23	Whole Genome Bisulfite Sequencing and DNA Methylation Analysis from Plant Tissue. Bio-protocol, 2015, 5, .	0.4	6
24	Natural epigenetic polymorphisms lead to intraspecific variation in Arabidopsis gene imprinting. ELife, 2014, 3, e03198.	6.0	183
25	Genomic Imprinting: Insights From Plants. Annual Review of Genetics, 2013, 47, 187-208.	7.6	150
26	Comprehensive analysis of imprinted genes in maize reveals allelic variation for imprinting and limited conservation with other species. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19639-19644.	7.1	131
27	Imprinting meets genomics: new insights and new challenges. Current Opinion in Plant Biology, 2012, 15, 530-535.	7.1	17
28	Genomic Analysis of Parent-of-Origin Allelic Expression in Arabidopsis thaliana Seeds. PLoS ONE, 2011, 6, e23687.	2.5	178
29	Parent-of-Origin Effects on Gene Expression and DNA Methylation in the Maize Endosperm. Plant Cell, 2011, 23, 4221-4233.	6.6	189
30	DNA demethylation by DNA repair. Trends in Genetics, 2009, 25, 82-90.	6.7	232
31	Extensive Demethylation of Repetitive Elements During Seed Development Underlies Gene Imprinting. Science, 2009, 324, 1447-1451.	12.6	530
32	DNA Methylation and Demethylation in Arabidopsis. The Arabidopsis Book, 2008, 6, e0102.	0.5	27
33	Genome-wide analysis of Arabidopsis thaliana DNA methylation uncovers an interdependence between methylation and transcription. Nature Genetics, 2007, 39, 61-69.	21.4	1,257
34	DNA methylation dynamics in plant genomes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2007, 1769, 276-286.	2.4	152
35	DNA demethylation by the baseâ€excision DNA repair pathway in Arabidopsis. FASEB Journal, 2007, 21, .	0.5	0
36	DEMETER DNA Glycosylase Establishes MEDEA Polycomb Gene Self-Imprinting by Allele-Specific Demethylation. Cell, 2006, 124, 495-506.	28.9	665

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37	Imprinting and Seed Development. Plant Cell, 2004, 16, S203-S213.	6.6	155
38	Imprinting of the MEA Polycomb Gene Is Controlled by Antagonism between MET1 Methyltransferase and DME Glycosylase. Developmental Cell, 2003, 5, 891-901.	7.0	204
39	DEMETER, a DNA Glycosylase Domain Protein, Is Required for Endosperm Gene Imprinting and Seed Viability in Arabidopsis. Cell, 2002, 110, 33-42.	28.9	729