Paramutation and related phenomena in diverse specie

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Citation Report

#	Article	IF	CITATIONS
1	Small non-coding RNAs as regulators of structural evolution and carcinogenesis. Non-coding RNA Research, 2017, 2, 88-92.	2.4	16
2	The sources of adaptive variation. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162864.	1.2	174
3	Genome Regulation by Polycomb and Trithorax: 70 Years and Counting. Cell, 2017, 171, 34-57.	13.5	842
4	Chromatinâ€associated noncoding <scp>RNAs</scp> in development and inheritance. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1435.	3.2	10
5	Utf1 contributes to intergenerational epigenetic inheritance of pluripotency. Scientific Reports, 2017, 7, 14612.	1.6	7
6	Exploiting induced and natural epigenetic variation for crop improvement. Nature Reviews Genetics, 2017, 18, 563-575.	7.7	183
7	Assessing and Exploiting Functional Diversity in Germplasm Pools to Enhance Abiotic Stress Adaptation and Yield in Cereals and Food Legumes. Frontiers in Plant Science, 2017, 8, 1461.	1.7	60
8	A new paramutation-like example at the Delta gene of Drosophila. PLoS ONE, 2017, 12, e0172780.	1.1	2
9	Transposable elements, genome evolution and transgenerational epigenetic variation. Current Opinion in Genetics and Development, 2018, 49, 43-48.	1.5	37
10	Replicating and Cycling Stores of Information Perpetuate Life. BioEssays, 2018, 40, e1700161.	1.2	7
11	piRNA-like small RNAs are responsible for the maternal-specific knockdown in the ascidian Ciona intestinalis Type A. Scientific Reports, 2018, 8, 5869.	1.6	1
12	A Kinesin-14 Motor Activates Neocentromeres to Promote Meiotic Drive in Maize. Cell, 2018, 173, 839-850.e18.	13.5	104
13	Subtle Perturbations of the Maize Methylome Reveal Genes and Transposons Silenced by Chromomethylase or RNA-Directed DNA Methylation Pathways. G3: Genes, Genomes, Genetics, 2018, 8, 1921-1932.	0.8	19
14	Dad's Snoring May Have Left Molecular Scars in Your DNA: the Emerging Role of Epigenetics in Sleep Disorders. Molecular Neurobiology, 2018, 55, 2713-2724.	1.9	9
15	Uniparental and transgressive expression of $\hat{l}_{\pm}$ -zeins in maize endosperm of o2 hybrid lines. PLoS ONE, 2018, 13, e0206993.	1.1	5
16	Functions and mechanisms of epigenetic inheritance in animals. Nature Reviews Molecular Cell Biology, 2018, 19, 774-790.	16.1	335
17	Trans-allelic mutational effects at the Peg3 imprinted locus. PLoS ONE, 2018, 13, e0206112.	1.1	2
18	Maize Small RNAs as Seeds of Change and Stability in Gene Expression and Genome Stability. Compendium of Plant Genomes, 2018, , 113-127.	0.3	1

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19	The Maize Methylome. Compendium of Plant Genomes, 2018, , 81-96.	0.3	3
20	Aspects of Epigenetic Regulation in Cereals. Advances in Botanical Research, 2018, , 361-386.	0.5	0
21	Evolution and Diversification of Small RNA Pathways in Flowering Plants. Plant and Cell Physiology, 2018, 59, 2169-2187.	1.5	26
22	jaw-1D: a gain-of-function mutation responsive to paramutation-like induction of epigenetic silencing. Journal of Experimental Botany, 2018, 70, 459-468.	2.4	4
23	The mechanisms of epigenetic inheritance: how diverse are they?. Biological Reviews, 2018, 93, 1987-2005.	4.7	25
24	Profiling of Human Molecular Pathways Affected by Retrotransposons at the Level of Regulation by Transcription Factor Proteins. Frontiers in Immunology, 2018, 9, 30.	2.2	38
25	Environmental Temperature Controls Accumulation of Transacting siRNAs Involved in Heterochromatin Formation. Genes, 2018, 9, 117.	1.0	7
26	Loss of RNA-Directed DNA Methylation in Maize Chromomethylase and DDM1-Type Nucleosome Remodeler Mutants. Plant Cell, 2018, 30, 1617-1627.	3.1	41
27	Prospects for economical natural colorants: insights from maize. Theoretical and Applied Genetics, 2019, 132, 2927-2946.	1.8	32
28	The virtuous cycle of human genetics and mouse models in drug discovery. Nature Reviews Drug Discovery, 2019, 18, 255-272.	21.5	44
29	Historical perspective of transgenerational epigenetics. , 2019, , 25-40.		1
30	Transgenerational epigenetics of endocrine-disrupting chemicals in mammals., 2019,, 369-388.		0
31	Heritable generational epigenetic effects through small noncoding RNA., 2019,, 185-212.		1
32	Invasive DNA elements modify the nuclear architecture of their insertion site by KNOT-linked silencing in Arabidopsis thaliana. Genome Biology, 2019, 20, 120.	3.8	26
33	Combining a Simple Method for DNA/RNA/Protein Co-Purification and Arabidopsis Protoplast Assay to Facilitate Viroid Research. Viruses, 2019, 11, 324.	1.5	5
34	Exposure of low-dose fipronil enantioselectively induced anxiety-like behavior associated with DNA methylation changes in embryonic and larval zebrafish. Environmental Pollution, 2019, 249, 362-371.	3.7	32
35	Small RNA Function in Plants: From Chromatin to the Next Generation. Cold Spring Harbor Symposia on Quantitative Biology, 2019, 84, 133-140.	2.0	0
36	New Breeding Techniques: Detection and Identification of the Techniques andÂDerived Products. , 2019, , 320-336.		3

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38	A novel maize dwarf mutant generated by Ty1-copia LTR-retrotransposon insertion in Brachytic2 after spaceflight. Plant Cell Reports, 2020, 39, 393-408.	2.8	16
39	Non-coding RNA polymerases that silence transposable elements and reprogram gene expression in plants. Transcription, 2020, 11, 172-191.	1.7	19
40	Principles of Epigenetic Homeostasis Shared Between Flowering Plants and Mammals. Trends in Genetics, 2020, 36, 751-763.	2.9	24
41	Using asexual vertebrates to study genome evolution and animal physiology: Banded (Fundulus) Tj ETQq1 1 0.78 Applications, 2020, 13, 1214-1239.	34314 rgBT 1.5	/Overlock 8
42	Genetic control of non-genetic inheritance in mammals: state-of-the-art and perspectives. Mammalian Genome, 2020, 31, 146-156.	1.0	4
43	Epigenetic memory marks determine epiallele stability at loci targeted by de novo DNA methylation. Nature Plants, 2020, 6, 661-674.	4.7	52
44	Does variable epigenetic inheritance fuel plant evolution?. Genome, 2020, 63, 253-262.	0.9	6
45	Physicochemical Foundations of Life that Direct Evolution: Chance and Natural Selection are not Evolutionary Driving Forces. Life, 2020, 10, 7.	1.1	14
46	Three-dimensional nuclear organization in Arabidopsis thaliana. Journal of Plant Research, 2020, 133, 479-488.	1.2	18
47	Proteome profiling of repeated drought stress reveals genotype-specific responses and memory effects in maize. Plant Physiology and Biochemistry, 2021, 159, 67-79.	2.8	16
48	Natural Selection, Morphoprocess and a Logical Field of Evolutionary Concepts. Evolutionary Biology, 2021, , 391-418.	0.6	2
49	Novel insights of maize structural feature in China. Euphytica, 2021, 217, 1.	0.6	4
50	Gametes deficient for Pot1 telomere binding proteins alter levels of telomeric foci for multiple generations. Communications Biology, 2021, 4, 158.	2.0	4
51	Polyploidy-associated paramutation in Arabidopsis is determined by small RNAs, temperature, and allele structure. PLoS Genetics, 2021, 17, e1009444.	1.5	10
52	The effects of endocrine disruptors on the male germline: an intergenerational health risk. Biological Reviews, 2021, 96, 1243-1262.	4.7	17
54	The epiallelic potential of transposable elements and its evolutionary significance in plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200123.	1.8	37
55	The Epigenome and Beyond: How Does Non-genetic Inheritance Change Our View of Evolution?. Integrative and Comparative Biology, 2021, , .	0.9	5
56	Stories that can't be told by SNPs; DNA methylation variation in plant populations. Current Opinion in Plant Biology, 2021, 61, 101989.	3.5	17

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57	RNA-directed DNA methylation prevents rapid and heritable reversal of transposon silencing under heat stress in Zea mays. PLoS Genetics, 2021, 17, e1009326.	1.5	24
58	Epigenome plasticity in plants. Nature Reviews Genetics, 2022, 23, 55-68.	7.7	73
59	Linking anthocyanin diversity, hue, and genetics in purple corn. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	27
64	Locus-specific paramutation in Zea mays is maintained by a PICKLE-like chromodomain helicase DNA-binding 3 protein controlling development and male gametophyte function. PLoS Genetics, 2020, 16, e1009243.	1.5	7
65	Overlapping RdDM and non-RdDM mechanisms work together to maintain somatic repression of a paramutagenic epiallele of maize pericarp color1. PLoS ONE, 2017, 12, e0187157.	1.1	8
66	Do Gametes Woo? Evidence for Their Nonrandom Union at Fertilization. Genetics, 2017, 207, 369-387.	1.2	23
72	Epigenetik. , 2020, , 361-422.		0
73	Involvement of transposable elements in neurogenesis. Vavilovskii Zhurnal Genetiki I Selektsii, 2020, 24, 209-218.	0.4	9
74	Two Piwis with Ago-like functions silence somatic genes at the chromatin level. RNA Biology, 2021, 18, 757-769.	1.5	5
76	Epigenome and Epitranscriptome: Potential Resources for Crop Improvement. International Journal of Molecular Sciences, 2021, 22, 12912.	1.8	15
77	Molecular mechanisms of transgenerational epigenetic inheritance. Nature Reviews Genetics, 2022, 23, 325-341.	7.7	182
78	Small RNAs mediate transgenerational inheritance of genome-wide trans-acting epialleles in maize. Genome Biology, 2022, 23, 53.	3.8	19
79	Mendelian and non-Mendelian genetics in model plants. Plant Cell, 2022, 34, 2455-2461.	3.1	6
80	CHROMOMETHYLTRANSFERASE3/KRYPTONITE maintains the <i>sulfurea</i> paramutation in <i>Solanum lycopersicum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112240119.	3.3	4
81	Prions as Non-Canonical Hereditary Factors. Russian Journal of Genetics, 2022, 58, 626-637.	0.2	0
84	Maize Flavonoid Biosynthesis, Regulation, and Human Health Relevance: A Review. Molecules, 2022, 27, 5166.	1.7	16
85	Plant Epigenomics. , 2023, , 263-286.		3
86	AGO104 is a RdDM effector of paramutation at the maize b1 locus. PLoS ONE, 2022, 17, e0273695.	1.1	3

## CITATION REPORT

#	Article	IF	CITATIONS
87	Will epigenetics be a key player in crop breeding?. Frontiers in Plant Science, 0, 13, .	1.7	4
88	Paramutation-like Epigenetic Conversion by piRNA at the Telomere of Drosophila virilis. Biology, 2022, 11, 1480.	1.3	2
89	Frequent spontaneous structural rearrangements promote rapid genome diversification in a Brassica napus F1 generation. Frontiers in Plant Science, $0,13,.$	1.7	6
90	Parental mutations influence wild-type offspring via transcriptional adaptation. Science Advances, 2022, 8, .	4.7	3
91	Epigenetic management of self and non-self: lessons from 40 years of transgenic plants. Comptes Rendus - Biologies, 2022, 345, 149-174.	0.1	0
93	Small RNA-mediated DNA methylation during plant reproduction. Plant Cell, 2023, 35, 1787-1800.	3.1	14
94	Genetic and epigenetic control of the plant metabolome. Proteomics, 0, , 2200104.	1.3	3
97	Novel insights into maize (Zea mays) development and organogenesis for agricultural optimization. Planta, 2023, 257, .	1.6	1