Marisa S Bartolomei

List of Publications by Year
in descending order

101 papers	11,255 citations	66343 42 h-index	36028 97 g-index
130 all docs	130 docs citations	130 times ranked	11408 citing authors

#	Article	IF	Citations
1	Parental imprinting of the mouse H19 gene. Nature, 1991, 351, 153-155.	27.8	1,151
2	Thymine DNA Glycosylase Is Essential for Active DNA Demethylation by Linked Deamination-Base Excision Repair. Cell, 2011, 146, 67-79.	28.9	700
3	Differential Effects of Culture on Imprinted H19 Expression in the Preimplantation Mouse Embryo1. Biology of Reproduction, 2000, 62, 1526-1535.	2.7	687
4	X-Inactivation, Imprinting, and Long Noncoding RNAs in Health and Disease. Cell, 2013, 152, 1308-1323.	28.9	631
5	GENOMIC IMPRINTING IN MAMMALS. Annual Review of Genetics, 1997, 31, 493-525.	7.6	580
6	Genomic Imprinting in Mammals. Cold Spring Harbor Perspectives in Biology, 2014, 6, a018382-a018382.	5.5	573
7	Mammalian Genomic Imprinting. Cold Spring Harbor Perspectives in Biology, 2011, 3, a002592-a002592.	5.5	423
8	Gene-specific timing and epigenetic memory in oocyte imprinting. Human Molecular Genetics, 2004, 13, 839-849.	2.9	410
9	A paternalâ€"specific methylation imprint marks the alleles of the mouse H19 gene. Nature Genetics, 1995, 9, 407-413.	21.4	396
10	Selective loss of imprinting in the placenta following preimplantation development in culture. Development (Cambridge), 2004, 131, 3727-3735.	2.5	389
11	Manipulations of mouse embryos prior to implantation result in aberrant expression of imprinted genes on day 9.5 of development. Human Molecular Genetics, 2008, 17, 1-14.	2.9	303
12	Physical linkage of two mammalian imprinted genes, H19 and insulinâ€"like growth factor 2. Nature Genetics, 1992, 2, 61-65.	21.4	280
13	Bisphenol A Exposure Disrupts Genomic Imprinting in the Mouse. PLoS Genetics, 2013, 9, e1003401.	3.5	253
14	Genomic imprinting: employing and avoiding epigenetic processes. Genes and Development, 2009, 23, 2124-2133.	5.9	220
15	Genomic imprinting in development, growth, behavior and stem cells. Development (Cambridge), 2014, 141, 1805-1813.	2.5	193
16	Multigenerational and transgenerational effects of endocrine disrupting chemicals: A role for altered epigenetic regulation?. Seminars in Cell and Developmental Biology, 2015, 43, 66-75.	5.0	191
17	Genomic imprinting mechanisms in mammals. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 647, 77-85.	1.0	190
18	Wild-type microglia do not reverse pathology in mouse models of Rett syndrome. Nature, 2015, 521, E1-E4.	27.8	159

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19	In Inflamed Intestinal Tissues and Epithelial Cells, Interleukin 22ÂSignaling Increases Expression of H19 Long Noncoding RNA, Which Promotes Mucosal Regeneration. Gastroenterology, 2018, 155, 144-155.	1.3	137
20	CTCF binding sites promote transcription initiation and prevent DNA methylation on the maternal allele at the imprinted H19/Igf2 locus. Human Molecular Genetics, 2006, 15, 2945-2954.	2.9	134
21	Imprinting and epigenetic changes in the early embryo. Mammalian Genome, 2009, 20, 532-543.	2.2	132
22	Bisphenol A Exposure Disrupts Metabolic Health Across Multiple Generations in the Mouse. Endocrinology, 2015, 156, 2049-2058.	2.8	126
23	Multigenerational and transgenerational inheritance of drug exposure: The effects of alcohol, opiates, cocaine, marijuana, andÂnicotine. Progress in Biophysics and Molecular Biology, 2015, 118, 21-33.	2.9	121
24	Comprehensive analysis of histone post-translational modifications in mouse and human male germ cells. Epigenetics and Chromatin, 2016, 9, 24.	3.9	113
25	In Vitro Culture Increases the Frequency of Stochastic Epigenetic Errors at Imprinted Genes in Placental Tissues from Mouse Concepti Produced Through Assisted Reproductive Technologies1. Biology of Reproduction, 2014, 90, 22.	2.7	111
26	The cumulative effect of assisted reproduction procedures on placental development and epigenetic perturbations in a mouse model. Human Molecular Genetics, 2015, 24, ddv400.	2.9	108
27	Antagonism between DNA hypermethylation and enhancer-blocking activity at the H19 DMD is uncovered by CpG mutations. Nature Genetics, 2004, 36, 883-888.	21.4	107
28	Epigenetics and imprinting in human disease. International Journal of Developmental Biology, 2014, 58, 291-298.	0.6	103
29	Sex- and Dose-Specific Effects of Maternal Bisphenol A Exposure on Pancreatic Islets of First- and Second-Generation Adult Mice Offspring. Environmental Health Perspectives, 2017, 125, 097022.	6.0	97
30	Combined Single-Cell Profiling of lncRNAs and Functional Screening Reveals that H19 Is Pivotal for Embryonic Hematopoietic Stem Cell Development. Cell Stem Cell, 2019, 24, 285-298.e5.	11.1	96
31	CRISPR-Cas9-Mediated Genetic Screening in Mice with Haploid Embryonic Stem Cells Carrying a Guide RNA Library. Cell Stem Cell, 2015, 17, 221-232.	11.1	91
32	Peri-Implantation Hormonal Milieu: Elucidating Mechanisms of Abnormal Placentation and Fetal Growth1. Biology of Reproduction, 2014, 90, 26.	2.7	82
33	The NIEHS TaRGET II Consortium and environmental epigenomics. Nature Biotechnology, 2018, 36, 225-227.	17.5	79
34	Differential Methylation of Genes Associated with Cell Adhesion in Preeclamptic Placentas. PLoS ONE, 2014, 9, e100148.	2.5	78
35	Analysis of Sequence Upstream of the Endogenous <i>H19</i> Gene Reveals Elements Both Essential and Dispensable for Imprinting. Molecular and Cellular Biology, 2002, 22, 2450-2462.	2.3	74
36	Can assisted reproductive technologies cause adult-onset disease? Evidence from human and mouse. Reproductive Toxicology, 2017, 68, 72-84.	2.9	72

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37	Environmental Exposure to Endocrine Disrupting Chemicals Influences Genomic Imprinting, Growth, and Metabolism. Genes, 2021, 12, 1153.	2.4	65
38	Tissue-specific regulation and function of Grb10 during growth and neuronal commitment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6841-6847.	7.1	57
39	Developmental Profile of H19 Differentially Methylated Domain (DMD) Deletion Alleles Reveals Multiple Roles of the DMD in Regulating Allelic Expression and DNA Methylation at the Imprinted H19 / Igf2 Locus. Molecular and Cellular Biology, 2006, 26, 1245-1258.	2.3	55
40	Primary epimutations introduced during intracytoplasmic sperm injection (ICSI) are corrected by germline-specific epigenetic reprogramming. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4163-4168.	7.1	55
41	Allele-specific RNA imaging shows that allelic imbalances can arise in tissues through transcriptional bursting. PLoS Genetics, 2019, 15, e1007874.	3.5	52
42	Screen for reactivation of MeCP2 on the inactive X chromosome identifies the BMP/TGF-Î² superfamily as a regulator of XIST expression. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1619-1624.	7.1	51
43	Gcn5-Mediated Histone Acetylation Governs Nucleosome Dynamics in Spermiogenesis. Developmental Cell, 2019, 51, 745-758.e6.	7.0	47
44	Mice exposed to bisphenol A exhibit depressive-like behavior with neurotransmitter and neuroactive steroid dysfunction. Hormones and Behavior, 2018, 102, 93-104.	2.1	46
45	CTCF Binding to the First Intron of the Major Immediate Early (MIE) Gene of Human Cytomegalovirus (HCMV) Negatively Regulates MIE Gene Expression and HCMV Replication. Journal of Virology, 2014, 88, 7389-7401.	3.4	45
46	Nonallelic Transcriptional Roles of CTCF and Cohesins at Imprinted Loci. Molecular and Cellular Biology, 2011, 31, 3094-3104.	2.3	44
47	The superovulated environment, independent of embryo vitrification, results in low birthweight in a mouse modelâ€. Biology of Reproduction, 2017, 97, 133-142.	2.7	44
48	DNA methylation dynamics of genomic imprinting in mouse developmentâ€. Biology of Reproduction, 2018, 99, 252-262.	2.7	42
49	Domain-Specific Response of Imprinted Genes to Reduced DNMT1. Molecular and Cellular Biology, 2010, 30, 3916-3928.	2.3	41
50	Chromatin regulators of genomic imprinting. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 169-177.	1.9	40
51	TRPM7 and Ca _V 3.2 channels mediate Ca ²⁺ influx required for egg activation at fertilization. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10370-E10378.	7.1	40
52	Characterization of BRD4 during Mammalian Postmeiotic Sperm Development. Molecular and Cellular Biology, 2015, 35, 1433-1448.	2.3	38
53	Visualizing allele-specific expression in single cells reveals epigenetic mosaicism in an <i>H19</i> loss-of-imprinting mutant. Genes and Development, 2016, 30, 567-578.	5.9	38
54	Histone modification signatures in human sperm distinguish clinical abnormalities. Journal of Assisted Reproduction and Genetics, 2019, 36, 267-275.	2.5	38

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55	A Hox-Embedded Long Noncoding RNA: Is It All Hot Air?. PLoS Genetics, 2016, 12, e1006485.	3.5	38
56	DNA methylation dynamics and dysregulation delineated by high-throughput profiling in the mouse. Cell Genomics, 2022, 2, 100144.	6.5	37
57	Bile Acids and Tryptophan Metabolism Are Novel Pathways Involved in Metabolic Abnormalities in BPA-Exposed Pregnant Mice and Male Offspring. Endocrinology, 2017, 158, 2533-2542.	2.8	33
58	TEX15 associates with MILI and silences transposable elements in male germ cells. Genes and Development, 2020, 34, 745-750.	5.9	33
59	SnapShot: Imprinted Gene Clusters. Cell, 2007, 130, 958.e1-958.e2.	28.9	32
60	A DNMT3A2-HDAC2 Complex Is Essential for Genomic Imprinting and Genome Integrity in Mouse Oocytes. Cell Reports, 2015, 13, 1552-1560.	6.4	32
61	Morphologic and molecular changes in the placenta: what we can learn from environmental exposures. Fertility and Sterility, 2016, 106, 930-940.	1.0	32
62	Temple syndrome and Kagami-Ogata syndrome: clinical presentations, genotypes, models and mechanisms. Human Molecular Genetics, 2020, 29, R107-R116.	2.9	30
63	Functionally distinct roles for TET-oxidized 5-methylcytosine bases in somatic reprogramming to pluripotency. Molecular Cell, 2021, 81, 859-869.e8.	9.7	29
64	Humanized <i>H19/Igf2</i> locus reveals diverged imprinting mechanism between mouse and human and reflects Silverâ€"Russell syndrome phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10938-10943.	7.1	28
65	Evolving imprinting control regions: KRAB zinc fingers hold the key. Genes and Development, 2019, 33, 1-3.	5.9	27
66	Tissue-specific insulator function at H19/Igf2 revealed by deletions at the imprinting control region. Human Molecular Genetics, 2014, 23, 6246-6259.	2.9	26
67	Imatinib treatments have long-term impact on placentation and embryo survival. Scientific Reports, 2019, 9, 2535.	3.3	26
68	Imprinted expression and methylation of the mouseH19 gene are conserved in extraembryonic lineages. , 1998, 23, 111-118.		25
69	Tagging methyl-CpG-binding domain proteins reveals different spatiotemporal expression and supports distinct functions. Epigenomics, 2016, 8, 455-473.	2.1	25
70	A high-throughput small molecule screen identifies synergism between DNA methylation and Aurora kinase pathways for X reactivation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14366-14371.	7.1	25
71	The effects of Assisted Reproductive Technologies on genomic imprinting in the placenta. Placenta, 2019, 84, 37-43.	1.5	25
72	Assisted reproductive technologies induce temporally specific placental defects and the preeclampsia risk marker sFLT1 in mouse. Development (Cambridge), 2020, 147, .	2.5	25

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73	Modeling human epigenetic disorders in mice: Beckwith-Wiedemann Syndrome and Silver-Russell Syndrome. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	23
74	Variably methylated retrotransposons are refractory to a range of environmental perturbations. Nature Genetics, 2021, 53, 1233-1242.	21.4	23
75	The search for imprinted genes. Nature Genetics, 1994, 6, 220-221.	21.4	21
76	Epigenetics: Role of Germ Cell Imprinting. Advances in Experimental Medicine and Biology, 2003, 518, 239-245.	1.6	21
77	You are what you eat, but what about your DNA?. Science, 2014, 345, 733-734.	12.6	17
78	Histone methyltransferase DOT1L is essential for self-renewal of germline stem cells. Genes and Development, 2022, 36, 752-763.	5.9	17
79	Imprinted gene dysregulation in a <i>Tet1</i> null mouse model is stochastic and variable in the germline and offspring. Development (Cambridge), 2018, 145, .	2.5	16
80	Assisted Reproductive Technologies and the Placenta: Clinical, Morphological, and Molecular Outcomes. Seminars in Reproductive Medicine, 2018, 36, 240-248.	1.1	15
81	Morphokinetic Evaluation of Embryo Development in a Mouse Model: Functional and Molecular Correlates1. Biology of Reproduction, 2016, 94, 84.	2.7	13
82	Tissue-specific and mosaic imprinting defects underlie opposite congenital growth disorders in mice. PLoS Genetics, 2018, 14, e1007243.	3.5	13
83	Sexâ€specific effects of in vitro fertilization on adult metabolic outcomes and hepatic transcriptome and proteome in mouse. FASEB Journal, 2021, 35, e21523.	0.5	13
84	Paternal bisphenol A exposure in mice impairs glucose tolerance in female offspring. Food and Chemical Toxicology, 2020, 145, 111716.	3.6	12
85	Maintaining imprinting. Nature Genetics, 2000, 25, 4-5.	21.4	11
86	Endocrine-disrupting chemicals, epigenetics, and skeletal system dysfunction: exploration of links using bisphenol A as a model system. Environmental Epigenetics, 2018, 4, dvy002.	1.8	11
87	Genomic imprinting: An epigenetic regulatory system. PLoS Genetics, 2020, 16, e1008970.	3.5	11
88	The number of the CTCF binding sites of the <i>H19/IGF2</i>:IG-DMR correlates with DNA methylation and expression imprinting in a humanized mouse model. Human Molecular Genetics, 2021, 30, 1509-1520.	2.9	10
89	Rapamycin-independent IGF2 expression in Tsc2-null mouse embryo fibroblasts and human lymphangioleiomyomatosis cells. PLoS ONE, 2018, 13, e0197105.	2.5	8
90	Embryo cryopreservation leads to sex-specific DNA methylation perturbations in both human and mouse placentas. Human Molecular Genetics, 2022, 31, 3855-3872.	2.9	8

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91	Placental Abnormalities are Associated With Specific Windows of Embryo Culture in a Mouse Model. Frontiers in Cell and Developmental Biology, 2022, 10, 884088.	3.7	7
92	Timing of exposure to gonadotropins has differential effects on the conceptus: evidence from a mouse model. Biology of Reproduction, 2020, 103, 854-865.	2.7	6
93	Reproductive Science for High School Students: A Shared Curriculum Model to Enhance Student Success. Biology of Reproduction, 2016, 95, 28-28.	2.7	4
94	Derivation and investigation of the first human cell-based model of Beckwith-Wiedemann syndrome. Epigenetics, 2021, 16, 1295-1305.	2.7	4
95	Pooled shRNA Screen for Reactivation of MeCP2 on the Inactive X Chromosome. Journal of Visualized Experiments, 2018, , .	0.3	2
96	H19 is not hypomethylated or upregulated with age or sex in the aortic valves of mice. Physiological Reports, 2019, 7, e14244.	1.7	2
97	IFPA meeting 2018 workshop report I: Reproduction and placentation among ocean-living species; placental imaging; epigenetics and extracellular vesicles in pregnancy. Placenta, 2019, 84, 4-8.	1.5	2
98	Two sides of the Dlk1-Dio3 story in imprinting. Developmental Cell, 2021, 56, 3035-3037.	7.0	2
99	Mapping the diploid genome, one cell at a time. Nature Structural and Molecular Biology, 2018, 25, 994-995.	8.2	0
100	Maintenance of paternal methylation and repression of the imprinted H19 gene requires MBD3. PLoS Genetics, 2005, preprint, e137.	3.5	0
101	Hyperglycemia-induced TET3 insufficiency is responsible for maternal transmission of glucose intolerance. Biology of Reproduction, 0, , .	2.7	0