Yasuhisa Matsui

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Derivation of pluripotential embryonic stem cells from murine primordial germ cells in culture. Cell, 1992, 70, 841-847.	28.9	1,203
2	Epigenetic events in mammalian germ-cell development: reprogramming and beyond. Nature Reviews Genetics, 2008, 9, 129-140.	16.3	752
3	Embryonic expression of a haematopoietic growth factor encoded by the SI locus and the ligand for c-kit. Nature, 1990, 347, 667-669.	27.8	512
4	Expression and intracellular localization of mouse Vasa-homologue protein during germ cell development. Mechanisms of Development, 2000, 93, 139-149.	1.7	498
5	Extensive and orderly reprogramming of genome-wide chromatin modifications associated with specification and early development of germ cells in mice. Developmental Biology, 2005, 278, 440-458.	2.0	484
6	Effect of Steel factor and leukaemia inhibitory factor on murine primordial germ cells in culture. Nature, 1991, 353, 750-752.	27.8	447
7	A histone H3 methyltransferase controls epigenetic events required for meiotic prophase. Nature, 2005, 438, 374-378.	27.8	444
8	Development of mammary hyperplasia and neoplasia in MMTV-TGFÎ± transgenic mice. Cell, 1990, 61, 1147-1155.	28.9	426
9	Cellular dynamics associated with the genome-wide epigenetic reprogramming in migrating primordial germ cells in mice. Development (Cambridge), 2007, 134, 2627-2638.	2.5	388
10	Germline-specific expression of the Oct-4/green fluorescent protein (GFP) transgene in mice. Development Growth and Differentiation, 1999, 41, 675-684.	1.5	369
11	Impaired colonization of the gonads by primordial germ cells in mice lacking a chemokine, stromal cell-derived factor-1 (SDF-1). Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5319-5323.	7.1	295
12	High-resolution DNA methylome analysis of primordial germ cells identifies gender-specific reprogramming in mice. Genome Research, 2013, 23, 616-627.	5.5	239
13	Inhibition of mammary duct development but not alveolar outgrowth during pregnancy in transgenic mice expressing active TGF-beta 1.. Genes and Development, 1993, 7, 2308-2317.	5.9	226
14	Cloning and characterization of developmental endothelial locus-1: An embryonic endothelial cell protein that binds the Î±vÎ²3 integrinâ€‰receptor. Genes and Development, 1998, 12, 21-33.	5.9	216
15	Complementary DNA Cloning of the Murine Transforming Growth Factor-Î²3 (TGFÎ²3) Precursor and the Comparative Expression of TGFÎ²3 and TGFÎ²1 Messenger RNA in Murine Embryos and Adult Tissues. Molecular Endocrinology, 1989, 3, 1926-1934.	3.7	174
16	Canonical Wnt Signaling and Its Antagonist Regulate Anterior-Posterior Axis Polarization by Guiding Cell Migration in Mouse Visceral Endoderm. Developmental Cell, 2005, 9, 639-650.	7.0	163
17	SMAD1 signaling is critical for initial commitment of germ cell lineage from mouse epiblast. Mechanisms of Development, 2002, 118, 99-109.	1.7	144
18	Hrp48, a Drosophila hnRNPA/B Homolog, Binds and Regulates Translation of oskar mRNA. Developmental Cell, 2004, 6, 637-648.	7.0	112

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19	The isolation and characterization of a novel cDNA demonstrating an altered mRNA level in nontumorigenic Wilms' microcell hybrid cells. Nucleic Acids Research, 1991, 19, 5763-5769.	14.5	107
20	Erasure of methylation imprinting of <i>Igf2r</i> during mouse primordial germâ€cell development. Molecular Reproduction and Development, 2003, 65, 41-50.	2.0	87
21	Developmentally regulated expression of mil-1 and mil-2, mouse interferon-induced transmembrane protein like genes, during formation and differentiation of primordial germ cells. Mechanisms of Development, 2002, 119, S261-S267.	1.7	81
22	Regulation of expression of mouse interferon-induced transmembrane protein like gene-3,Ifitm3 (mil-1,) Tj ETQq0 0 0 rgBT /Overlock 10	1.8	68
23	Interallelic and Intergenic Incompatibilities of the Prdm9 (Hst1) Gene in Mouse Hybrid Sterility. PLoS Genetics, 2012, 8, e1003044.	3.5	68
24	Loss of MAX results in meiotic entry in mouse embryonic and germline stem cells. Nature Communications, 2016, 7, 11056.	12.8	68
25	Max is a repressor of germ cell-related gene expression in mouse embryonic stem cells. Nature Communications, 2013, 4, 1754.	12.8	66
26	Cadherin-mediated cell interaction regulates germ cell determination in mice. Development (Cambridge), 2003, 130, 6423-6430.	2.5	64
27	Distinct requirements for energy metabolism in mouse primordial germ cells and their reprogramming to embryonic germ cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8289-8294.	7.1	59
28	Requirement of Oct3/4 function for germ cell specification. Developmental Biology, 2008, 317, 576-584.	2.0	53
29	Birth of mice produced by germ cell nuclear transfer. Genesis, 2005, 41, 81-86.	1.6	52
30	Singleâ€Nucleotide Polymorphisms of the <i>PRDM9</i> (<i>MEISETZ</i>) Gene in Patients With Nonobstructive Azoospermia. Journal of Andrology, 2009, 30, 426-431.	2.0	51
31	Mistaken Identity of Widely Used Esophageal Adenocarcinoma Cell Line TE-7. Cancer Research, 2007, 67, 7996-8001.	0.9	46
32	Discordant developmental waves of angioblasts and hemangioblasts in the early gastrulating mouse embryo. Development (Cambridge), 2006, 133, 2771-2779.	2.5	44
33	Regulation of germ cell death in mammalian gonads. Apmis, 1998, 106, 142-148.	2.0	43
34	Meisetz, A Novel Histone Tri-Methyltransferase, Regulates Meiosis-Specific Epigenesis. Cell Cycle, 2006, 5, 615-620.	2.6	43
35	Mouse epiblasts change responsiveness to BMP4 signal required for PGC formation through functions of extraembryonic ectoderm. Molecular Reproduction and Development, 2005, 70, 20-29.	2.0	42
36	Antisense RNA of the latent period gene (MER5) inhibits the differentiation of murine erythroleukemia cells. Gene, 1990, 91, 261-265.	2.2	41

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37	Mechanisms of germ-cell specification in mouse embryos. BioEssays, 2005, 27, 136-143.	2.5	41
38	Paternal age affects offspring via an epigenetic mechanism involving REST/NRSF. EMBO Reports, 2021, 22, e51524.	4.5	38
39	Hematopoietic Development of Primordial Germ Cell-Derived Mouse Embryonic Germ Cells in Culture. Biochemical and Biophysical Research Communications, 1999, 260, 475-482.	2.1	35
40	A Receptor Tyrosine Kinase, Sky, and Its Ligand Gas 6 Are Expressed in Gonads and Support Primordial Germ Cell Growth or Survival in Culture. Developmental Biology, 1996, 180, 499-510.	2.0	33
41	A current view of the epigenome in mouse primordial germ cells. Molecular Reproduction and Development, 2014, 81, 160-170.	2.0	33
42	Molecular Cloning and Expression of Mouse Mg2+-Dependent Protein Phosphatase Î²-4 (Type 2CÎ²-4). Archives of Biochemistry and Biophysics, 1995, 318, 387-393.	3.0	32
43	Stage-specific Importin13 activity influences meiosis of germ cells in the mouse. Developmental Biology, 2006, 297, 350-360.	2.0	32
44	Sall4 Is Essential for Mouse Primordial Germ Cell Specification by Suppressing Somatic Cell Program Genes. Stem Cells, 2015, 33, 289-300.	3.2	32
45	Epigenetic profiles in primordial germ cells: Global modulation and fine tuning of the epigenome for acquisition of totipotency. Development Growth and Differentiation, 2010, 52, 517-525.	1.5	31
46	Cell cycle gene-specific control of transcription has a critical role in proliferation of primordial germ cells. Genes and Development, 2012, 26, 2477-2482.	5.9	28
47	Implication of DNA Demethylation and Bivalent Histone Modification for Selective Gene Regulation in Mouse Primordial Germ Cells. PLoS ONE, 2012, 7, e46036.	2.5	27
48	Murine polo like kinase 1 gene is expressed in meiotic testicular germ cells and oocytes. Molecular Reproduction and Development, 1995, 41, 407-415.	2.0	24
49	Members of the ErbB Receptor Tyrosine Kinases Are Involved in Germ Cell Development in Fetal Mouse Gonads. Developmental Biology, 1999, 215, 399-406.	2.0	24
50	Primordial germ cells contain subpopulations that have greater ability to develop into pluripotential stem cells. Development Growth and Differentiation, 2009, 51, 657-667.	1.5	24
51	On the fate of primordial germ cells injected into early mouse embryos. Developmental Biology, 2014, 385, 155-159.	2.0	24
52	The Molecular Mechanisms Regulating Germ Cell Development and Potential. Journal of Andrology, 2010, 31, 61-65.	2.0	23
53	The protein phosphatase 6 catalytic subunit (Ppp6c) is indispensable for proper post-implantation embryogenesis. Mechanisms of Development, 2016, 139, 1-9.	1.7	23
54	Apoptosis of fetal testicular cells is regulated by both p53-dependent and independent mechanisms. , 2000, 55, 399-405.		20

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55	Heterogeneity of mouse primordial germ cells reflecting the distinct status of their differentiation, proliferation and apoptosis can be classified by the expression of cell surface proteins integrin Î±6 and câ€Kit. Development Growth and Differentiation, 2009, 51, 567-583.	1.5	20
56	Identification of the X-linked germ cell specific miRNAs (XmiRs) and their functions. PLoS ONE, 2019, 14, e0211739.	2.5	20
57	Testis-specific expression of a novel mouse defensin-like gene, Tdl. Mechanisms of Development, 2002, 116, 217-221.	1.7	19
58	Bcl-2 inhibits apoptosis of spermatogonia and growth of spermatogonial stem cells in a cell-intrinsic manner. Molecular Reproduction and Development, 2001, 58, 30-38.	2.0	18
59	The majority of early primordial germ cells acquire pluripotency by AKT activation. Development (Cambridge), 2014, 141, 4457-4467.	2.5	18
60	Characterization of the factors binding to a PEPCK gene upstream hypersensitive site with LCR activity. Nucleic Acids Research, 1992, 20, 3427-3433.	14.5	17
61	Expression of low density lipoprotein receptor-related protein 4 (Lrp4) gene in the mouse germ cells. Gene Expression Patterns, 2006, 6, 607-612.	0.8	17
62	Sex Specification and Heterogeneity of Primordial Germ Cells in Mice. PLoS ONE, 2015, 10, e0144836.	2.5	17
63	SETDB1 is essential for mouse primordial germ cell fate determination by ensuring BMP signaling. Development (Cambridge), 2018, 145, .	2.5	17
64	Epigenetic regulation for the induction of meiosis. Cellular and Molecular Life Sciences, 2007, 64, 257-262.	5.4	16
65	The ADP-ribosylation factor 1 gene is indispensable for mouse embryonic development after implantation. Biochemical and Biophysical Research Communications, 2014, 453, 748-753.	2.1	16
66	DNMTs and SETDB1 function as co-repressors in MAX-mediated repression of germ cellâ€"related genes in mouse embryonic stem cells. PLoS ONE, 2018, 13, e0205969.	2.5	16
67	Introduction and expression of foreign genes in cultured mouse embryonic gonads by electroporation. Reproduction, Fertility and Development, 2002, 14, 259.	0.4	15
68	Dnd1-mediated epigenetic control of teratoma formation in mouse. Biology Open, 2018, 7, .	1.2	15
69	Sex-specific histone modifications in mouse fetal and neonatal germ cells. Epigenomics, 2019, 11, 543-561.	2.1	15
70	Structural Organization of the Mouse Glycophorin A Gene1. Journal of Biochemistry, 1994, 116, 1105-1110.	1.7	14
71	Repression of Somatic Genes by Selective Recruitment of HDAC3 by BLIMP1 Is Essential for Mouse Primordial Germ Cell Fate Determination. Cell Reports, 2018, 24, 2682-2693.e6.	6.4	14
72	REST and its downstream molecule Mek5 regulate survival of primordial germ cells. Developmental Biology, 2012, 372, 190-202.	2.0	13

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73	Novel sex-dependent differentially methylated regions are demethylated in adult male mouse livers. Biochemical and Biophysical Research Communications, 2015, 462, 332-338.	2.1	13
74	A comparison study in the proteomic signatures of multipotent germline stem cells, embryonic stem cells, and germline stem cells. Biochemical and Biophysical Research Communications, 2007, 353, 259-267.	2.1	12
75	Transcriptomic analysis reveals differences in the regulation of amino acid metabolism in asexual and sexual planarians. Scientific Reports, 2019, 9, 6132.	3.3	12
76	A novel serine/threonine kinase gene,Gek1, is expressed in meiotic testicular germ cells and primordial germ cells. Molecular Reproduction and Development, 1996, 45, 411-420.	2.0	11
77	Metabolic Control of Germline Formation and Differentiation in Mammals. Sexual Development, 2022, 16, 388-403.	2.0	11
78	Induction of glycophorin gene expression in cultured murine erythroleukemia cells. Differentiation, 1985, 29, 268-274.	1.9	10
79	Transgenic expression of <i>Telomerase reverse transcriptase</i> (Tert) improves cell proliferation of primary cells and enhances reprogramming efficiency into the induced pluripotent stem cell. Bioscience, Biotechnology and Biochemistry, 2016, 80, 1925-1933.	1.3	8
80	c-Myc Interferes with the Commitment to Differentiation of Murine Erythroleukemia Cells at a Reversible Point. Japanese Journal of Cancer Research, 1992, 83, 61-65.	1.7	7
81	Comprehensive Analysis of Mouse Cancer/Testis Antigen Functions in Cancer Cells and Roles of TEKT5 in Cancer Cells and Testicular Germ Cells. Molecular and Cellular Biology, 2019, 39, .	2.3	7
82	Proteomic and metabolomic analyses uncover sex-specific regulatory pathways in mouse fetal germline differentiationâ€. Biology of Reproduction, 2020, 103, 717-735.	2.7	7
83	Abnormal early folliculogenesis due to impeded pyruvate metabolism in mouse oocytes. Biology of Reproduction, 2021, 105, 64-75.	2.7	7
84	Derivation of Pluripotential Embryonic Stem Cells from Murine Primordial Germ Cells in Culture.. Proceedings of the Japanese Society of Animal Models for Human Diseases, 1993, 9, 9-14.	0.0	6
85	Mice doublyâ€deficient in the Arf GAPs SMAP1 and SMAP2 exhibit embryonic lethality. FEBS Letters, 2015, 589, 2754-2762.	2.8	6
86	Epi-mutations for spermatogenic defects by maternal exposure to di(2-ethylhexyl) phthalate. ELife, 2021, 10, .	6.0	6
87	Stage-specific gene expression in erythroid progenitor cells (CFU-E). Cell Differentiation, 1988, 22, 259-265.	0.4	4
88	Selective de-repression of germ cell-specific genes in mouse embryonic fibroblasts in a permissive epigenetic environment. Scientific Reports, 2016, 6, 32932.	3.3	4
89	Shortened G1 phase of cell cycle and decreased histone H3K27 methylation are associated with AKTâ€induced enhancement of primordial germ cell reprogramming. Development Growth and Differentiation, 2019, 61, 357-364.	1.5	4
90	DNA methylation of the Fthl17 5â€™-upstream region regulates differential Fthl17 expression in lung cancer cells and germline stem cells. PLoS ONE, 2017, 12, e0172219.	2.5	4

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91	Targeted disruption of the mouse protein phosphatase <i>ppm1l</i> gene leads to structural abnormalities in the brain. FEBS Letters, 2016, 590, 3606-3615.	2.8	3
92	Identification of KLF9 and BCL3 as transcription factors that enhance reprogramming of primordial germ cells. PLoS ONE, 2018, 13, e0205004.	2.5	3
93	Derivation of pluripotent stem cells from nascent undifferentiated teratoma. Developmental Biology, 2019, 446, 43-55.	2.0	3
94	Metabolic pathways regulating the development and non-genomic heritable traits of germ cells. Journal of Reproduction and Development, 2022, 68, 96-103.	1.4	3
95	Assignment of the Murine Protein Kinase GeneDLKto Chromosome 15 in the Vicinity of thebt/KoaLocus by Genetic Linkage Analysis. Genomics, 1997, 40, 375-376.	2.9	2
96	Metabolomic and Proteomic Analyses of Mouse Primordial Germ Cells. Methods in Molecular Biology, 2018, 2045, 259-269.	0.9	2
97	In vitro assay system for primordial germ cell development. Cell Research, 2009, 19, 1125-1126.	12.0	0
98	Different signalling pathways are used in the commitment of murine erythroleukemia cells (TSA 8) to differentiate, and in the erythropoietin action on progenitor cells.. Cell Structure and Function, 1989, 14, 231-239.	1.1	0