

# Mitinori Saitou

## List of Publications by Year in descending order

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86  
papers

14,231  
citations

53660

45  
h-index

53109

85  
g-index

89  
all docs

89  
docs citations

89  
times ranked

9380  
citing authors

#	ARTICLE	IF	CITATIONS
1	The developmental origin and the specification of the adrenal cortex in humans and cynomolgus monkeys. <i>Science Advances</i> , 2022, 8, eabn8485.	4.7	18
2	Controlled X-chromosome dynamics defines meiotic potential of female mouse <i>in vitro</i> germ cells. <i>EMBO Journal</i> , 2022, 41, .	3.5	13
3	Nucleome programming is required for the foundation of totipotency in mammalian germline development. <i>EMBO Journal</i> , 2022, 41, .	3.5	9
4	Optimized protocol to derive germline stem-cell-like cells from mouse pluripotent stem cells. <i>STAR Protocols</i> , 2022, 3, 101544.	0.5	4
5	Cyclosporin A and FGF signaling support the proliferation/survival of mouse primordial germ cell-like cells <i>in vitro</i> . <i>Biology of Reproduction</i> , 2021, 104, 344-360.	1.2	12
6	GATA transcription factors, SOX17 and TFAP2C, drive the human germ-cell specification program. <i>Life Science Alliance</i> , 2021, 4, e202000974.	1.3	37
7	Mammalian Germ Cell Development: From Mechanism to <i>In Vitro</i> Reconstitution. <i>Stem Cell Reports</i> , 2021, 16, 669-680.	2.3	20
8	Oxygen tension modulates the mitochondrial genetic bottleneck and influences the segregation of a heteroplasmic mtDNA variant <i>in vitro</i> . <i>Communications Biology</i> , 2021, 4, 584.	2.0	7
9	The embryonic ontogeny of the gonadal somatic cells in mice and monkeys. <i>Cell Reports</i> , 2021, 35, 109075.	2.9	25
10	Non-human primates as a model for human development. <i>Stem Cell Reports</i> , 2021, 16, 1093-1103.	2.3	33
11	Reconstituting oogenesis <i>in vitro</i> : Recent progress and future prospects. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2021, 18, 145-151.	0.6	2
12	Capturing human trophoblast development with naive pluripotent stem cells <i>in vitro</i> . <i>Cell Stem Cell</i> , 2021, 28, 1023-1039.e13.	5.2	164
13	Human embryo research, stem cell-derived embryo models and <i>in vitro</i> gametogenesis: Considerations leading to the revised ISSCR guidelines. <i>Stem Cell Reports</i> , 2021, 16, 1416-1424.	2.3	59
14	The CD44/COL17A1 pathway promotes the formation of multilayered, transformed epithelia. <i>Current Biology</i> , 2021, 31, 3086-3097.e7.	1.8	18
15	DMRT1-mediated reprogramming drives development of cancer resembling human germ cell tumors with features of totipotency. <i>Nature Communications</i> , 2021, 12, 5041.	5.8	17
16	<i>In vitro</i> reconstitution of the whole male germ-cell development from mouse pluripotent stem cells. <i>Cell Stem Cell</i> , 2021, 28, 2167-2179.e9.	5.2	75
17	Mammalian <i>in vitro</i> gametogenesis. <i>Science</i> , 2021, 374, eaaz6830.	6.0	77
18	Inherent genomic properties underlie the epigenomic heterogeneity of human induced pluripotent stem cells. <i>Cell Reports</i> , 2021, 37, 109909.	2.9	14

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19	The X chromosome dosage compensation program during the development of cynomolgus monkeys. <i>Science</i> , 2021, 374, eabd8887.	6.0	33
20	Mitochondrial DNA heteroplasmy is modulated during oocyte development propagating mutation transmission. <i>Science Advances</i> , 2021, 7, eabi5657.	4.7	22
21	Induction of the germ cell fate from pluripotent stem cells in cynomolgus monkeys. <i>Biology of Reproduction</i> , 2020, 102, 620-638.	1.2	40
22	Long-term expansion with germline potential of human primordial germ cell-like cells <i>in vitro</i> . <i>EMBO Journal</i> , 2020, 39, e104929.	3.5	43
23	ZGLP1 is a determinant for the oogenic fate in mice. <i>Science</i> , 2020, 367, .	6.0	69
24	Generation of human oogonia from induced pluripotent stem cells in culture. <i>Nature Protocols</i> , 2020, 15, 1560-1583.	5.5	41
25	Establishment of macaque trophoblast stem cell lines derived from cynomolgus monkey blastocysts. <i>Scientific Reports</i> , 2020, 10, 6827.	1.6	10
26	Germ cell reprogramming. <i>Current Topics in Developmental Biology</i> , 2019, 135, 91-125.	1.0	36
27	A symmetric toggle switch explains the onset of random X inactivation in different mammals. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 350-360.	3.6	36
28	Segregation of mitochondrial DNA heteroplasmy through a developmental genetic bottleneck in human embryos. <i>Nature Cell Biology</i> , 2018, 20, 144-151.	4.6	182
29	Generation of human oogonia from induced pluripotent stem cells <i>in vitro</i> . <i>Science</i> , 2018, 362, 356-360.	6.0	221
30	Reconstitution of Germ Cell Development <i>In Vitro</i> . , 2018, , 1-19.		0
31	<i>In Vitro</i> Spermatogenesis. , 2018, , 134-143.		0
32	Epigenome regulation during germ cell specification and development from pluripotent stem cells. <i>Current Opinion in Genetics and Development</i> , 2018, 52, 57-64.	1.5	27
33	Induction of fetal primary oocytes and the meiotic prophase from mouse pluripotent stem cells. <i>Methods in Cell Biology</i> , 2018, 144, 409-429.	0.5	8
34	Flexible adaptation of male germ cells from female iPSCs of endangered <i>Tokudaia osimensis</i> . <i>Science Advances</i> , 2017, 3, e1602179.	4.7	28
35	Clonal variation of human induced pluripotent stem cells for induction into the germ cell fate. <i>Biology of Reproduction</i> , 2017, 96, 1154-1166.	1.2	48
36	<i>In vitro</i> expansion of mouse primordial germ cell-like cells recapitulates an epigenetic blank slate. <i>EMBO Journal</i> , 2017, 36, 1888-1907.	3.5	92

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37	Discrimination of Stem Cell Status after Subjecting Cynomolgus Monkey Pluripotent Stem Cells to Na <sup>+</sup> ve Conversion. <i>Scientific Reports</i> , 2017, 7, 45285.	1.6	17
38	Evolutionarily Distinctive Transcriptional and Signaling Programs Drive Human Germ Cell Lineage Specification from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2017, 21, 517-532.e5.	5.2	145
39	Promoting In Vitro Gametogenesis Research with a Social Understanding. <i>Trends in Molecular Medicine</i> , 2017, 23, 985-988.	3.5	18
40	Bone morphogenetic protein and retinoic acid synergistically specify female germ cell fate in mice. <i>EMBO Journal</i> , 2017, 36, 3100-3119.	3.5	105
41	Fertile offspring from sterile sex chromosome trisomic mice. <i>Science</i> , 2017, 357, 932-935.	6.0	45
42	Reconstitution of Female Germ Cell Fate Determination and Meiotic Initiation in Mammals. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2017, 82, 213-222.	2.0	12
43	Contribution of epigenetic landscapes and transcription factors to X-chromosome reactivation in the inner cell mass. <i>Nature Communications</i> , 2017, 8, 1297.	5.8	52
44	Single-cell transcriptome of early embryos and cultured embryonic stem cells of cynomolgus monkeys. <i>Scientific Data</i> , 2017, 4, 170067.	2.4	39
45	Principles for the regulation of multiple developmental pathways by a versatile transcriptional factor, BLIMP1. <i>Nucleic Acids Research</i> , 2017, 45, 12152-12169.	6.5	12
46	Software updates in the Illumina HiSeq platform affect whole-genome bisulfite sequencing. <i>BMC Genomics</i> , 2017, 18, 31.	1.2	29
47	<i>Klf5</i> maintains the balance of primitive endoderm to epiblast specification during mouse embryonic development by suppression of <i>Fgf4</i> . <i>Development (Cambridge)</i> , 2017, 144, 3706-3718.	1.2	24
48	In Vitro Derivation and Propagation of Spermatogonial Stem Cell Activity from Mouse Pluripotent Stem Cells. <i>Cell Reports</i> , 2016, 17, 2789-2804.	2.9	136
49	The Germ Cell Fate of Cynomolgus Monkeys Is Specified in the Nascent Amnion. <i>Developmental Cell</i> , 2016, 39, 169-185.	3.1	252
50	A developmental coordinate of pluripotency among mice, monkeys and humans. <i>Nature</i> , 2016, 537, 57-62.	13.7	419
51	Global Landscape and Regulatory Principles of DNA Methylation Reprogramming for Germ Cell Specification by Mouse Pluripotent Stem Cells. <i>Developmental Cell</i> , 2016, 39, 87-103.	3.1	106
52	Reconstitution in vitro of the entire cycle of the mouse female germ line. <i>Nature</i> , 2016, 539, 299-303.	13.7	470
53	Gametogenesis from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2016, 18, 721-735.	5.2	160
54	Chromosome Cohesion Established by Rec8-Cohesin in Fetal Oocytes Is Maintained without Detectable Turnover in Oocytes Arrested for Months in Mice. <i>Current Biology</i> , 2016, 26, 678-685.	1.8	92

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55	Persistent Requirement and Alteration of the Key Targets of PRDM1 During Primordial Germ Cell Development in Mice. <i>Biology of Reproduction</i> , 2016, 94, 7.	1.2	16
56	SC3-seq: a method for highly parallel and quantitative measurement of single-cell gene expression. <i>Nucleic Acids Research</i> , 2015, 43, e60-e60.	6.5	104
57	Mechanism and Reconstitution In Vitro of Germ Cell Development in Mammals. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2015, 80, 147-154.	2.0	23
58	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015, 17, 178-194.	5.2	428
59	Quantitative Dynamics of Chromatin Remodeling during Germ Cell Specification from Mouse Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2015, 16, 517-532.	5.2	166
60	PRDM14: a unique regulator for pluripotency and epigenetic reprogramming. <i>Trends in Biochemical Sciences</i> , 2014, 39, 289-298.	3.7	58
61	Cell-to-cell expression variability followed by signal reinforcement progressively segregates early mouse lineages. <i>Nature Cell Biology</i> , 2014, 16, 27-37.	4.6	262
62	Induction of Primordial Germ Cell-Like Cells From Mouse Embryonic Stem Cells by ERK Signal Inhibition. <i>Stem Cells</i> , 2014, 32, 2668-2678.	1.4	28
63	Paternal Nucleosomes: Are They Retained in Developmental Promoters or Gene Deserts?. <i>Developmental Cell</i> , 2014, 30, 6-8.	3.1	38
64	The Two Active X Chromosomes in Female ESCs Block Exit from the Pluripotent State by Modulating the ESC Signaling Network. <i>Cell Stem Cell</i> , 2014, 14, 203-216.	5.2	149
65	Induction of mouse germ-cell fate by transcription factors in vitro. <i>Nature</i> , 2013, 501, 222-226.	13.7	277
66	Generation of eggs from mouse embryonic stem cells and induced pluripotent stem cells. <i>Nature Protocols</i> , 2013, 8, 1513-1524.	5.5	188
67	A Mesodermal Factor, T, Specifies Mouse Germ Cell Fate by Directly Activating Germline Determinants. <i>Developmental Cell</i> , 2013, 27, 516-529.	3.1	206
68	Tsix RNA and the Germline Factor, PRDM14, Link X Reactivation and Stem Cell Reprogramming. <i>Molecular Cell</i> , 2013, 52, 805-818.	4.5	96
69	PRDM14 Ensures Naive Pluripotency through Dual Regulation of Signaling and Epigenetic Pathways in Mouse Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2013, 12, 368-382.	5.2	266
70	Replication-coupled passive DNA demethylation for the erasure of genome imprints in mice. <i>EMBO Journal</i> , 2012, 32, 340-353.	3.5	261
71	Offspring from Oocytes Derived from in Vitro Primordial Germ Cell-like Cells in Mice. <i>Science</i> , 2012, 338, 971-975.	6.0	645
72	Primordial Germ Cells in Mice. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a008375-a008375.	2.3	308

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73	Epigenetic reprogramming in mouse pre-implantation development and primordial germ cells. <i>Development (Cambridge)</i> , 2012, 139, 15-31.	1.2	355
74	Reconstitution of the Mouse Germ Cell Specification Pathway in Culture by Pluripotent Stem Cells. <i>Cell</i> , 2011, 146, 519-532.	13.5	1,156
75	Germ cell specification in mice: signaling, transcription regulation, and epigenetic consequences. <i>Reproduction</i> , 2010, 139, 931-942.	1.1	122
76	A Signaling Principle for the Specification of the Germ Cell Lineage in Mice. <i>Cell</i> , 2009, 137, 571-584.	13.5	471
77	Germ cell specification in mice. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 386-395.	1.5	243
78	Critical function of Prdm14 for the establishment of the germ cell lineage in mice. <i>Nature Genetics</i> , 2008, 40, 1016-1022.	9.4	516
79	A comprehensive, non-invasive visualization of primordial germ cell development in mice by the Prdm1-mVenus and Dppa3-ECFP double transgenic reporter. <i>Reproduction</i> , 2008, 136, 503-514.	1.1	110
80	Cellular dynamics associated with the genome-wide epigenetic reprogramming in migrating primordial germ cells in mice. <i>Development (Cambridge)</i> , 2007, 134, 2627-2638.	1.2	388
81	An improved single-cell cDNA amplification method for efficient high-density oligonucleotide microarray analysis. <i>Nucleic Acids Research</i> , 2006, 34, e42-e42.	6.5	341
82	Generation of stella-GFP transgenic mice: A novel tool to study germ cell development. <i>Genesis</i> , 2006, 44, 75-83.	0.8	150
83	Blimp1 is a critical determinant of the germ cell lineage in mice. <i>Nature</i> , 2005, 436, 207-213.	13.7	915
84	Extensive and orderly reprogramming of genome-wide chromatin modifications associated with specification and early development of germ cells in mice. <i>Developmental Biology</i> , 2005, 278, 440-458.	0.9	484
85	A molecular programme for the specification of germ cell fate in mice. <i>Nature</i> , 2002, 418, 293-300.	13.7	791
86	Direct Binding of Three Tight Junction-Associated Maguks, Zo-1, Zo-2, and Zo-3, with the CooH Termini of Claudins. <i>Journal of Cell Biology</i> , 1999, 147, 1351-1363.	2.3	993