Satoshi H Namekawa

List of Publications by Year
in descending order

68 papers	3,158 citations	159585 30 h-index	175258 52 g-index
73 all docs	73 docs citations	73 times ranked	3741 citing authors

#	Article	IF	Citations
1	Postmeiotic Sex Chromatin in the Male Germline of Mice. Current Biology, 2006, 16, 660-667.	3.9	370
2	The RNase III Enzyme DROSHA Is Essential for MicroRNA Production and Spermatogenesis. Journal of Biological Chemistry, 2012, 287, 25173-25190.	3.4	168
3	MDC1 directs chromosome-wide silencing of the sex chromosomes in male germ cells. Genes and Development, 2011, 25, 959-971.	5.9	156
4	Tsx Produces a Long Noncoding RNA and Has General Functions in the Germline, Stem Cells, and Brain. PLoS Genetics, 2011, 7, e1002248.	3.5	156
5	Two-Step Imprinted X Inactivation: Repeat versus Genic Silencing in the Mouse. Molecular and Cellular Biology, 2010, 30, 3187-3205.	2.3	115
6	SCML2 Establishes the Male Germline Epigenome through Regulation of Histone H2A Ubiquitination. Developmental Cell, 2015, 32, 574-588.	7.0	109
7	RNF8 regulates active epigenetic modifications and escape gene activation from inactive sex chromosomes in post-meiotic spermatids. Genes and Development, 2012, 26, 2737-2748.	5.9	108
8	Dynamic reorganization of open chromatin underlies diverse transcriptomes during spermatogenesis. Nucleic Acids Research, 2018, 46, 593-608.	14.5	100
9	Attenuated chromatin compartmentalization in meiosis and its maturation in sperm development. Nature Structural and Molecular Biology, 2019, 26, 175-184.	8.2	92
10	Sex chromosome inactivation in germ cells: emerging roles of DNA damage response pathways. Cellular and Molecular Life Sciences, 2012, 69, 2559-2572.	5.4	88
11	Sex chromosome silencing in the marsupial male germ line. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9730-9735.	7.1	83
12	MEK/ERK signaling directly and indirectly contributes to the cyclical self-renewal of spermatogonial stem cells. Stem Cells, 2013, 31, 2517-2527.	3.2	81
13	Knockdown of LIM15/DMC1 in the mushroom Coprinus cinereus by double-stranded RNA-mediated gene silencing. Microbiology (United Kingdom), 2005, 151, 3669-3678.	1.8	76
14	BRCA1 establishes DNA damage signaling and pericentric heterochromatin of the X chromosome in male meiosis. Journal of Cell Biology, 2014, 205, 663-675.	5.2	74
15	Poised chromatin and bivalent domains facilitate the mitosis-to-meiosis transition in the male germline. BMC Biology, 2015, 13, 53.	3.8	64
16	A novel DNA polymerase homologous to Escherichia coli DNA polymerase I from a higher plant, rice (Oryza sativa L.). Nucleic Acids Research, 2002, 30, 1585-1592.	14.5	63
17	Endogenous retroviruses drive species-specific germline transcriptomes in mammals. Nature Structural and Molecular Biology, 2020, 27, 967-977.	8.2	60
18	Detection of nascent RNA, single-copy DNA and protein localization by immunoFISH in mouse germ cells and preimplantation embryos. Nature Protocols, 2011, 6, 270-284.	12.0	59

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19	X-inactivation and X-reactivation: epigenetic hallmarks of mammalian reproduction and pluripotent stem cells. Human Genetics, 2011, 130, 265-280.	3.8	58
20	Polycomb protein SCML2 facilitates H3K27me3 to establish bivalent domains in the male germline. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4957-4962.	7.1	57
21	Mice Lacking Alkbh1 Display Sex-Ratio Distortion and Unilateral Eye Defects. PLoS ONE, 2010, 5, e13827.	2.5	57
22	UHRF1 suppresses retrotransposons and cooperates with PRMT5 and PIWI proteins in male germ cells. Nature Communications, 2019, 10, 4705.	12.8	56
23	A Mammal-Specific Doublesex Homolog Associates with Male Sex Chromatin and Is Required for Male Meiosis. PLoS Genetics, 2007, 3, e62.	3.5	54
24	FANCB is essential in the male germline and regulates H3K9 methylation on the sex chromosomes during meiosis. Human Molecular Genetics, 2015, 24, 5234-5249.	2.9	53
25	Polycomb directs timely activation of germline genes in spermatogenesis. Genes and Development, 2017, 31, 1693-1703.	5.9	52
26	Human postmeiotic sex chromatin and its impact on sex chromosome evolution. Genome Research, 2012, 22, 827-836.	5.5	50
27	Elucidation of the Fanconi Anemia Protein Network in Meiosis and Its Function in the Regulation of Histone Modifications. Cell Reports, 2016, 17, 1141-1157.	6.4	46
28	Telomeric RNAs Mark Sex Chromosomes in Stem Cells. Genetics, 2009, 182, 685-698.	2.9	45
29	RNF8 and SCML2 cooperate to regulate ubiquitination and H3K27 acetylation for escape gene activation on the sex chromosomes. PLoS Genetics, 2018, 14, e1007233.	3.5	45
30	The Initiation of Meiotic Sex Chromosome Inactivation Sequesters DNA Damage Signaling from Autosomes in Mouse Spermatogenesis. Current Biology, 2020, 30, 408-420.e5.	3.9	44
31	Super-enhancer switching drives a burst in gene expression at the mitosis-to-meiosis transition. Nature Structural and Molecular Biology, 2020, 27, 978-988.	8.2	38
32	Fancd2 in vivo interaction network reveals a non-canonical role in mitochondrial function. Scientific Reports, 2017, 7, 45626.	3.3	32
33	XY and ZW: Is Meiotic Sex Chromosome Inactivation the Rule in Evolution?. PLoS Genetics, 2009, 5, e1000493.	3.5	28
34	The great escape. Epigenetics, 2013, 8, 887-892.	2.7	27
35	CHEK1 coordinates DNA damage signaling and meiotic progression in the male germline of mice. Human Molecular Genetics, 2018, 27, 1136-1149.	2.9	26
36	Strand Exchange Reaction in Vitro and DNA-Dependent ATPase Activity of Recombinant LIM15/DMC1 and RAD51 Proteins from Coprinus cinereus. Biochemical and Biophysical Research Communications, 2001, 285, 92-97.	2.1	24

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37	<i>Xist</i> imprinting is promoted by the hemizygous (unpaired) state in the male germ line. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14415-14422.	7.1	22
38	DNA topoisomerase II interacts with Lim15/Dmc1 in meiosis. Nucleic Acids Research, 2005, 33, 5809-5818.	14.5	21
39	Meiotic sex chromosome inactivation and the XY body: a phase separation hypothesis. Cellular and Molecular Life Sciences, 2022, 79, 18.	5.4	21
40	Sumoylation of a meiosis-specific RecA homolog, Lim15/Dmc1, via interaction with the small ubiquitin-related modifier (SUMO)-conjugating enzyme Ubc9. FEBS Journal, 2006, 273, 4003-4012.	4.7	20
41	SCML2 promotes heterochromatin organization in late spermatogenesis. Journal of Cell Science, 2018, 131, .	2.0	20
42	Leucine aminopeptidase during meiotic development. FEBS Journal, 2002, 269, 826-832.	0.2	19
43	Coprinus cinereus Mer3 is required for synaptonemal complex formation during meiosis. Chromosoma, 2009, 118, 127-139.	2.2	19
44	Functional significance of the sex chromosomes during spermatogenesis. Reproduction, 2015, 149, R265-R277.	2.6	17
45	Meiosis-specific ZFP541 repressor complex promotes developmental progression of meiotic prophase towards completion during mouse spermatogenesis. Nature Communications, 2021, 12, 3184.	12.8	17
46	Fancb deficiency impairs hematopoietic stem cell function. Scientific Reports, 2016, 5, 18127.	3.3	14
47	Chromosome Spread Analyses of Meiotic Sex Chromosome Inactivation. Methods in Molecular Biology, 2018, 1861, 113-129.	0.9	14
48	Cancer testis antigens and genomic instability: More than immunology. DNA Repair, 2021, 108, 103214.	2.8	14
49	FANCD2 is required for the repression of germline transposable elements. Reproduction, 2020, 159, 659-668.	2.6	13
50	Slide Preparation Method to Preserve Three-dimensional Chromatin Architecture of Testicular Germ Cells. Journal of Visualized Experiments, 2014, , e50819.	0.3	12
51	BAZ1B is dispensable for H2AX phosphorylation on Tyrosine 142 during spermatogenesis. Biology Open, 2015, 4, 873-884.	1.2	12
52	DNA ligase IV from a basidiomycete, Coprinus cinereus, and its expression during meiosis. Microbiology (United Kingdom), 2003, 149, 2119-2128.	1.8	11
53	Proliferating cell nuclear antigen (PCNA) interacts with a meiosis-specific RecA homologues, Lim15/Dmc1, but does not stimulate its strand transfer activity. Biochemical and Biophysical Research Communications, 2007, 352, 836-842.	2.1	10
54	Coprinus cinereus DNA ligase I during meiotic development. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1627, 47-55.	2.4	9

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55	Interaction between Lim15/Dmc1 and the homologue of the large subunit of CAFâ€1 â€“ a molecular link between recombination and chromatin assembly during meiosis. FEBS Journal, 2008, 275, 2032-2041.	4.7	8
56	Expression of flap endonuclease-1 during meiosis in a basidiomycete, Coprinus cinereus. Fungal Genetics and Biology, 2004, 41, 493-500.	2.1	7
57	Loss of <i>Faap20</i> Causes Hematopoietic Stem and Progenitor Cell Depletion in Mice Under Genotoxic Stress. Stem Cells, 2015, 33, 2320-2330.	3.2	7
58	UHRF1 establishes crosstalk between somatic and germ cells in male reproduction. Cell Death and Disease, 2022, 13, 377.	6.3	7
59	A rapidly evolved domain, the SCML2 DNA-binding repeats, contributes to chromatin binding of mouse SCML2â€. Biology of Reproduction, 2019, 100, 409-419.	2.7	5
60	XY oocytes of sex-reversed females with a Sry mutation deviate from the normal developmental process beyond the mitotic stageâ€. Biology of Reproduction, 2019, 100, 697-710.	2.7	5
61	BRUCE preserves genomic stability in the male germline of mice. Cell Death and Differentiation, 2020, 27, 2402-2416.	11.2	5
62	RNF8 is not required for histone-to-protamine exchange in spermiogenesis. Biology of Reproduction, 2021, 105, 1154-1159.	2.7	5
63	Isolation of Murine Spermatogenic Cells using a Violet-Excited Cell-Permeable DNA Binding Dye. Journal of Visualized Experiments, 2021, , .	0.3	3
64	Retrotransposons in the Mammalian Male Germline. Sexual Development, 2022, 16, 404-422.	2.0	3
65	Epigenomic and single-cell profiling of human spermatogonial stem cells. Stem Cell Investigation, 2018, 5, 11-11.	3.0	2
66	Pioneering meiotic recombination. Genes and Development, 2020, 34, 395-397.	5.9	1
67	Licensing meiotic progressionâ€. Biology of Reproduction, 2020, 103, 10-12.	2.7	0
68	Role of Noncoding RNA in X-Inactivation from Gamete to Embryo.. Biology of Reproduction, 2008, 78, 160-160.	2.7	0