

# Kei Miyamoto

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8575741/publications.pdf>

Version: 2024-02-01

49  
papers

1,671  
citations

304743

22  
h-index

302126

39  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1889  
citing authors

#	ARTICLE	IF	CITATIONS
1	A transient pool of nuclear F-actin at mitotic exit controls chromatin organization. <i>Nature Cell Biology</i> , 2017, 19, 1389-1399.	10.3	170
2	Nuclear actin polymerization is required for transcriptional reprogramming of <i>Oct4</i> by oocytes. <i>Genes and Development</i> , 2011, 25, 946-958.	5.9	158
3	Mechanisms of nuclear reprogramming by eggs and oocytes: a deterministic process?. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 453-459.	37.0	109
4	Sperm is epigenetically programmed to regulate gene transcription in embryos. <i>Genome Research</i> , 2016, 26, 1034-1046.	5.5	109
5	Epigenetic factors influencing resistance to nuclear reprogramming. <i>Trends in Genetics</i> , 2011, 27, 516-525.	6.7	92
6	Nuclear Wave1 Is Required for Reprogramming Transcription in Oocytes and for Normal Development. <i>Science</i> , 2013, 341, 1002-1005.	12.6	82
7	Reprogramming events of mammalian somatic cells induced by <i>Xenopus laevis</i> egg extracts. <i>Molecular Reproduction and Development</i> , 2007, 74, 1268-1277.	2.0	81
8	Cell-Free Extracts from Mammalian Oocytes Partially Induce Nuclear Reprogramming in Somatic Cells. <i>Biology of Reproduction</i> , 2009, 80, 935-943.	2.7	70
9	Nuclear Actin in Development and Transcriptional Reprogramming. <i>Frontiers in Genetics</i> , 2017, 8, 27.	2.3	64
10	Transcriptional regulation and nuclear reprogramming: roles of nuclear actin and actin-binding proteins. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 3289-3302.	5.4	61
11	Reversible Membrane Permeabilization of Mammalian Cells Treated with Digitonin and Its Use for Inducing Nuclear Reprogramming by <i>Xenopus</i> Egg Extracts. <i>Cloning and Stem Cells</i> , 2008, 10, 535-542.	2.6	52
12	Chromatin Accessibility Impacts Transcriptional Reprogramming in Oocytes. <i>Cell Reports</i> , 2018, 24, 304-311.	6.4	50
13	Active Fluctuations of the Nuclear Envelope Shape the Transcriptional Dynamics in Oocytes. <i>Developmental Cell</i> , 2019, 51, 145-157.e10.	7.0	46
14	Hierarchical Molecular Events Driven by Oocyte-Specific Factors Lead to Rapid and Extensive Reprogramming. <i>Molecular Cell</i> , 2014, 55, 524-536.	9.7	39
15	Reprogramming towards totipotency is greatly facilitated by synergistic effects of small molecules. <i>Biology Open</i> , 2017, 6, 415-424.	1.2	39
16	Identification and characterization of an oocyte factor required for development of porcine nuclear transfer embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7040-7045.	7.1	38
17	Gene Resistance to Transcriptional Reprogramming following Nuclear Transfer Is Directly Mediated by Multiple Chromatin-Repressive Pathways. <i>Molecular Cell</i> , 2017, 65, 873-884.e8.	9.7	38
18	Srf destabilizes cellular identity by suppressing cell-type-specific gene expression programs. <i>Nature Communications</i> , 2018, 9, 1387.	12.8	35

#	ARTICLE	IF	CITATIONS
19	Zygotic Nuclear F-Actin Safeguards Embryonic Development. <i>Cell Reports</i> , 2020, 31, 107824.	6.4	34
20	Reprogramming and development in nuclear transfer embryos and in interspecific systems. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 450-458.	3.3	33
21	Nuclear reprogramming of sperm and somatic nuclei in eggs and oocytes. <i>Reproductive Medicine and Biology</i> , 2013, 12, 133-149.	2.4	31
22	Efficiencies and Mechanisms of Nuclear Reprogramming. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2010, 75, 189-200.	1.1	25
23	Signs of biological activities of 28,000-year-old mammoth nuclei in mouse oocytes visualized by live-cell imaging. <i>Scientific Reports</i> , 2019, 9, 4050.	3.3	25
24	Effects of Synchronization of Donor Cell Cycle on Embryonic Development and DNA Synthesis in Porcine Nuclear Transfer Embryos. <i>Journal of Reproduction and Development</i> , 2007, 53, 237-246.	1.4	15
25	The Expression of TALEN before Fertilization Provides a Rapid Knock-Out Phenotype in <i>Xenopus laevis</i> Founder Embryos. <i>PLoS ONE</i> , 2015, 10, e0142946.	2.5	15
26	Nuclear actin and transcriptional activation. <i>Communicative and Integrative Biology</i> , 2011, 4, 582-583.	1.4	14
27	Ubiquitin-proteasome system modulates zygotic genome activation in early mouse embryos and influences full-term development. <i>Journal of Reproduction and Development</i> , 2018, 64, 65-74.	1.4	14
28	Perturbation of maternal PIASy abundance disrupts zygotic genome activation and embryonic development via SUMOylation pathway. <i>Biology Open</i> , 2019, 8, .	1.2	13
29	Nuclear actin and transcriptional activation. <i>Communicative and Integrative Biology</i> , 2011, 4, 582-3.	1.4	12
30	Combinational Treatment of Trichostatin A and Vitamin C Improves the Efficiency of Cloning Mice by Somatic Cell Nuclear Transfer. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	10
31	The Actin-Family Protein Arp4 Is a Novel Suppressor for the Formation and Functions of Nuclear F-Actin. <i>Cells</i> , 2020, 9, 758.	4.1	10
32	Manipulation and <i>In Vitro</i> Maturation of <i>Xenopus laevis</i> Oocytes, Followed by Intracytoplasmic Sperm Injection, to Study Embryonic Development. <i>Journal of Visualized Experiments</i> , 2015, , e52496.	0.3	9
33	Histone H3 lysine 9 trimethylation is required for suppressing the expression of an embryonically activated retrotransposon in <i>Xenopus laevis</i> . <i>Scientific Reports</i> , 2015, 5, 14236.	3.3	8
34	Impairment of nuclear F-actin formation and its relevance to cellular phenotypes in Hutchinson-Gilford progeria syndrome. <i>Nucleus</i> , 2020, 11, 250-263.	2.2	8
35	Improved development of mouse somatic cell nuclear transfer embryos by chlamydocin analogues, class I and IIa histone deacetylase inhibitors. <i>Biology of Reproduction</i> , 2021, 105, 543-553.	2.7	8
36	Single-cell profiling of transcriptomic changes during <i>in vitro</i> maturation of human oocytes. <i>Reproductive Medicine and Biology</i> , 2022, 21, e12464.	2.4	8

#	ARTICLE	IF	CITATIONS
37	Symmetrically dimethylated histone H3R2 promotes global transcription during minor zygotic genome activation in mouse pronuclei. <i>Scientific Reports</i> , 2021, 11, 10146.	3.3	6
38	Cell division- and DNA replication-free reprogramming of somatic nuclei for embryonic transcription. <i>IScience</i> , 2021, 24, 103290.	4.1	6
39	Actin nucleoskeleton in embryonic development and cellular differentiation. <i>Current Opinion in Cell Biology</i> , 2022, 76, 102100.	5.4	6
40	Structural alteration of the nucleus for the reprogramming of gene expression. <i>FEBS Journal</i> , 2022, 289, 7221-7233.	4.7	5
41	Nuclear actin in transcriptional reprogramming by oocytes. <i>Cell Cycle</i> , 2011, 10, 3040-3041.	2.6	4
42	Peroxiredoxin as a functional endogenous antioxidant enzyme in pronuclei of mouse zygotes. <i>Journal of Reproduction and Development</i> , 2018, 64, 161-171.	1.4	4
43	Nucleoskeleton proteins for nuclear dynamics. <i>Journal of Biochemistry</i> , 2021, 169, 237-241.	1.7	4
44	Sperm and Spermatids Contain Different Proteins and Bind Distinct Egg Factors. <i>International Journal of Molecular Sciences</i> , 2014, 15, 16719-16740.	4.1	3
45	Visualization of endogenous nuclear F-actin in mouse embryos reveals abnormal actin assembly after somatic cell nuclear transfer. <i>Journal of Biochemistry</i> , 2021, 169, 303-311.	1.7	3
46	Maternal Factors Involved in Nuclear Reprogramming by Eggs and Oocytes. <i>Journal of Mammalian Ova Research</i> , 2013, 30, 68-78.	0.1	2
47	Various nuclear reprogramming systems using egg and oocyte materials. <i>Journal of Reproduction and Development</i> , 2019, 65, 203-208.	1.4	2
48	Insights into the amphibian egg to understand the mammalian oocyte. , 2013, , 1-11.		1
49	Nuclear transfer system for the direct induction of embryonic transcripts from intra- and cross-species nuclei using mouse 4-cell embryos. <i>STAR Protocols</i> , 2022, 3, 101284.	1.2	0