

# Kenji Miyado

## List of Publications by Year in descending order

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104  
papers

5,091  
citations

136885

32  
h-index

91828

69  
g-index

105  
all docs

105  
docs citations

105  
times ranked

6117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Requirement of CD9 on the Egg Plasma Membrane for Fertilization. <i>Science</i> , 2000, 287, 321-324.	6.0	624
2	Mesenchymal Stem Cell-Derived Exosomes Promote Fracture Healing in a Mouse Model. <i>Stem Cells Translational Medicine</i> , 2016, 5, 1620-1630.	1.6	325
3	Heparin-binding EGF-like growth factor and ErbB signaling is essential for heart function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3221-3226.	3.3	312
4	Novel Cardiac Precursor-Like Cells from Human Menstrual Blood-Derived Mesenchymal Cells. <i>Stem Cells</i> , 2008, 26, 1695-1704.	1.4	298
5	Effect of (âˆ²)-epigallocatechin gallate, the main constituent of green tea, on lung metastasis with mouse B16 melanoma cell lines. <i>Cancer Letters</i> , 1992, 65, 51-54.	3.2	216
6	Xenografted Human Amniotic Membrane-Derived Mesenchymal Stem Cells Are Immunologically Tolerated and Transdifferentiated Into Cardiomyocytes. <i>Circulation Research</i> , 2010, 106, 1613-1623.	2.0	190
7	A BMP-Inducible Gene, <i>Dlx5</i> , Regulates Osteoblast Differentiation and Mesoderm Induction. <i>Developmental Biology</i> , 1999, 208, 123-133.	0.9	187
8	Menstrual Blood-derived Cells Confer Human Dystrophin Expression in the Murine Model of Duchenne Muscular Dystrophy via Cell Fusion and Myogenic Transdifferentiation. <i>Molecular Biology of the Cell</i> , 2007, 18, 1586-1594.	0.9	185
9	Tetraspanins CD9 and CD81 function to prevent the fusion of mononuclear phagocytes. <i>Journal of Cell Biology</i> , 2003, 161, 945-956.	2.3	180
10	The fusing ability of sperm is bestowed by CD9-containing vesicles released from eggs in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12921-12926.	3.3	172
11	Impact of Oxidative Stress on Age-Associated Decline in Oocyte Developmental Competence. <i>Frontiers in Endocrinology</i> , 2019, 10, 811.	1.5	167
12	Endometrial preparation methods for frozen-thawed embryo transfer are associated with altered risks of hypertensive disorders of pregnancy, placenta accreta, and gestational diabetes mellitus. <i>Human Reproduction</i> , 2019, 34, 1567-1575.	0.4	149
13	Mitochondrial Fission Factor <i>Drp1</i> Maintains Oocyte Quality via Dynamic Rearrangement of Multiple Organelles. <i>Current Biology</i> , 2014, 24, 2451-2458.	1.8	114
14	The Significant Cardiomyogenic Potential of Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells In Vitro. <i>Stem Cells</i> , 2007, 25, 2017-2024.	1.4	104
15	Seminal vesicle protein SVS2 is required for sperm survival in the uterus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4145-4150.	3.3	100
16	Targeted disruption of the <i>Tab1</i> gene causes embryonic lethality and defects in cardiovascular and lung morphogenesis. <i>Mechanisms of Development</i> , 2002, 119, 239-249.	1.7	99
17	Age-associated telomere shortening in mouse oocytes. <i>Reproductive Biology and Endocrinology</i> , 2013, 11, 108.	1.4	75
18	Double Deficiency of Tetraspanins CD9 and CD81 Alters Cell Motility and Protease Production of Macrophages and Causes Chronic Obstructive Pulmonary Disease-like Phenotype in Mice. <i>Journal of Biological Chemistry</i> , 2008, 283, 26089-26097.	1.6	71

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19	Mice Lacking Two Sperm Serine Proteases, ACR and PRSS21, Are Subfertile, but the Mutant Sperm Are Infertile In Vitro. <i>Biology of Reproduction</i> , 2010, 83, 359-369.	1.2	67
20	Mitochondrial dynamics controlled by mitofusins define organelle positioning and movement during mouse oocyte maturation. <i>Molecular Human Reproduction</i> , 2014, 20, 1090-1100.	1.3	67
21	Tetraspanin Protein CD9 Is a Novel Paranodal Component Regulating Paranodal Junctional Formation. <i>Journal of Neuroscience</i> , 2004, 24, 96-102.	1.7	66
22	Mice lacking smooth muscle calponin display increased bone formation that is associated with enhancement of bone morphogenetic protein responses. <i>Genes To Cells</i> , 1998, 3, 685-695.	0.5	60
23	“Working”™ cardiomyocytes exhibiting plateau action potentials from human placenta-derived extraembryonic mesodermal cells. <i>Experimental Cell Research</i> , 2007, 313, 2550-2562.	1.2	58
24	Possible role of mouse poly(A) polymerase mGLD-2 during oocyte maturation. <i>Developmental Biology</i> , 2006, 289, 115-126.	0.9	55
25	Innate immune system still works at diapause, a physiological state of dormancy in insects. <i>Biochemical and Biophysical Research Communications</i> , 2011, 410, 351-357.	1.0	55
26	CD81 and CD9 work independently as extracellular components upon fusion of sperm and oocyte. <i>Biology Open</i> , 2012, 1, 640-647.	0.6	54
27	Complementary Critical Functions of Zfy1 and Zfy2 in Mouse Spermatogenesis and Reproduction. <i>PLoS Genetics</i> , 2017, 13, e1006578.	1.5	47
28	Lipid Rafts: Keys to Sperm Maturation, Fertilization, and Early Embryogenesis. <i>Journal of Lipids</i> , 2011, 2011, 1-10.	1.9	44
29	Glutathione S-transferase theta 1 expressed in granulosa cells as a biomarker for oocyte quality in age-related infertility. <i>Fertility and Sterility</i> , 2008, 90, 1026-1035.	0.5	42
30	Xenogeneic-free defined conditions for derivation and expansion of human embryonic stem cells with mesenchymal stem cells. <i>Regenerative Therapy</i> , 2015, 1, 18-29.	1.4	40
31	Emerging Role of TCA Cycle-Related Enzymes in Human Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13057.	1.8	40
32	Tetraspanin family protein CD9 in the mouse sperm: unique localization, appearance, behavior and fate during fertilization. <i>Cell and Tissue Research</i> , 2010, 340, 583-594.	1.5	39
33	Decreased Expression of a Single Tropomyosin Isoform, TM5/TM30nm, Results in Reduction in Motility of Highly Metastatic B16-F10 Mouse Melanoma Cells. <i>Biochemical and Biophysical Research Communications</i> , 1996, 225, 427-435.	1.0	34
34	Possible involvement of CD81 in acrosome reaction of sperm in mice. <i>Molecular Reproduction and Development</i> , 2008, 75, 150-155.	1.0	34
35	CD9 Is Critical for Cutaneous Wound Healing through JNK Signaling. <i>Journal of Investigative Dermatology</i> , 2012, 132, 226-236.	0.3	30
36	GSTT1 is upregulated by oxidative stress through p38-MK2 signaling pathway in human granulosa cells: possible association with mitochondrial activity. <i>Aging</i> , 2011, 3, 1213-1223.	1.4	30

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37	Serum-independent Cardiomyogenic Transdifferentiation in Human Endometrium-derived Mesenchymal Cells. <i>Artificial Organs</i> , 2010, 34, 280-288.	1.0	29
38	Equatorin: Identification and Characterization of the Epitope of the MN9 Antibody in the Mouse. <i>Biology of Reproduction</i> , 2009, 81, 889-897.	1.2	28
39	$\beta$ -catenin is a molecular switch that regulates transition of cell-cell adhesion to fusion. <i>Scientific Reports</i> , 2011, 1, 68.	1.6	28
40	Seminal Vesicle Secretion 2 Acts as a Protectant of Sperm Sterols and Prevents Ectopic Sperm Capacitation in Mice. <i>Biology of Reproduction</i> , 2015, 92, 8.	1.2	27
41	Increased incidence of post-term delivery and Cesarean section after frozen-thawed embryo transfer during a hormone replacement cycle. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 465-470.	1.2	26
42	Calaxin is required for cilia-driven determination of vertebrate laterality. <i>Communications Biology</i> , 2019, 2, 226.	2.0	26
43	Mam1d1 Deficiency Significantly Reduces mRNA Expression Levels of Multiple Genes Expressed in Mouse Fetal Leydig Cells but Permits Normal Genital and Reproductive Development. <i>Endocrinology</i> , 2012, 153, 6033-6040.	1.4	25
44	Age-associated changes in the subcellular localization of phosphorylated p38 MAPK in human granulosa cells. <i>Molecular Human Reproduction</i> , 2010, 16, 928-937.	1.3	23
45	Nucleotide Sequence of the Ring3 Gene in the Class II Region of the Mouse MHC and Its Abundant Expression in Testicular Germ Cells. <i>Genomics</i> , 1998, 51, 114-123.	1.3	21
46	Extra-mitochondrial citrate synthase initiates calcium oscillation and suppresses age-dependent sperm dysfunction. <i>Laboratory Investigation</i> , 2020, 100, 583-595.	1.7	21
47	Hyaline cartilage formation and enchondral ossification modeled with KUM5 and OP9 chondroblasts. <i>Journal of Cellular Biochemistry</i> , 2007, 100, 1240-1254.	1.2	20
48	Derivation of human decidua-like cells from amnion and menstrual blood. <i>Scientific Reports</i> , 2014, 4, 4599.	1.6	20
49	The p.R92W variant of NR5A1/Nr5a1 induces testicular development of 46,XX gonads in humans, but not in mice: phenotypic comparison of human patients and mutation-induced mice. <i>Biology of Sex Differences</i> , 2016, 7, 56.	1.8	19
50	Integration of the mouse sperm fertilization-related protein equatorin into the acrosome during spermatogenesis as revealed by super-resolution and immunoelectron microscopy. <i>Cell and Tissue Research</i> , 2013, 352, 739-750.	1.5	16
51	Absence of CD9 reduces endometrial VEGF secretion and impairs uterine repair after parturition. <i>Scientific Reports</i> , 2014, 4, 4701.	1.6	16
52	Seminal vesicle proteins SVS3 and SVS4 facilitate SVS2 effect on sperm capacitation. <i>Reproduction</i> , 2016, 152, 313-321.	1.1	16
53	Maintenance of pluripotency and self-renewal ability of mouse embryonic stem cells in the absence of tetraspanin CD9. <i>Differentiation</i> , 2009, 78, 137-142.	1.0	15
54	$\beta$ -Catenin Functions Pleiotropically in Differentiation and Tumorigenesis in Mouse Embryo-Derived Stem Cells. <i>PLoS ONE</i> , 2013, 8, e63265.	1.1	15

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55	Autophagy-disrupted LC3 abundance leads to death of supporting cells of human oocytes. <i>Biochemistry and Biophysics Reports</i> , 2018, 15, 107-114.	0.7	14
56	Sonic hedgehog expression during early tooth development in <i>Suncus murinus</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007, 363, 269-275.	1.0	13
57	Parturition failure in mice lacking <i>Mamld1</i> . <i>Scientific Reports</i> , 2015, 5, 14705.	1.6	13
58	Knockout of Murine <i>Mamld1</i> Impairs Testicular Growth and Daily Sperm Production but Permits Normal Postnatal Androgen Production and Fertility. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1300.	1.8	13
59	Transformation-related expression of a low-molecular-mass tropomyosin isoform TM5/TM30nm in transformed rat fibroblastic cell lines. <i>Journal of Cancer Research and Clinical Oncology</i> , 1997, 123, 331-336.	1.2	12
60	Regulation of Osteoblast-Specific Factor-1 (OSF-1) mRNA Expression by Dual Promoters as Revealed by RT-PCR. <i>Biochemical and Biophysical Research Communications</i> , 1997, 238, 831-837.	1.0	11
61	Critical role of exosomes in sperm-egg fusion and virus-induced cell-cell fusion. <i>Reproductive Medicine and Biology</i> , 2013, 12, 117-126.	1.0	11
62	Mitochondrial replacement by genome transfer in human oocytes: Efficacy, concerns, and legality. <i>Reproductive Medicine and Biology</i> , 2021, 20, 53-61.	1.0	11
63	Inhibition of cancer-cell migration by tetraspanin CD9-binding peptide. <i>Chemical Communications</i> , 2021, 57, 4906-4909.	2.2	11
64	Exosomes versus microexosomes: Shared components but distinct functions. <i>Journal of Plant Research</i> , 2017, 130, 479-483.	1.2	10
65	Deletion of a Seminal Gene Cluster Reinforces a Crucial Role of <i>SVS2</i> in Male Fertility. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4557.	1.8	10
66	Preferential localization of SSEA-4 in interfaces between blastomeres of mouse preimplantation embryos. <i>Biochemical and Biophysical Research Communications</i> , 2007, 364, 838-843.	1.0	9
67	Lipid rafts enriched in monosialylGb5Cer carrying the stage-specific embryonic antigen-4 epitope are involved in development of mouse preimplantation embryos at cleavage stage. <i>BMC Developmental Biology</i> , 2011, 11, 22.	2.1	9
68	Degradation of phosphate polymer polyP enhances lactic fermentation in mice. <i>Genes To Cells</i> , 2018, 23, 904-914.	0.5	8
69	Mitochondrial Genetic Drift after Nuclear Transfer in Oocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5880.	1.8	8
70	Cryopreservation of undifferentiated and differentiated human neuronal cells. <i>Regenerative Therapy</i> , 2022, 19, 58-68.	1.4	7
71	Epididymal C4b-binding protein is processed and degraded during transit through the duct and is not essential for fertility. <i>Immunobiology</i> , 2015, 220, 467-475.	0.8	6
72	Expression patterns of <i>Fgf8</i> and <i>Shh</i> in the developing external genitalia of <i>Suncus murinus</i> . <i>Reproduction</i> , 2017, 153, 187-195.	1.1	6

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73	Zscan5b Deficiency Impairs DNA Damage Response and Causes Chromosomal Aberrations during Mitosis. <i>Stem Cell Reports</i> , 2019, 12, 1366-1379.	2.3	6
74	Human Semenogelin 1 Promotes Sperm Survival in the Mouse Female Reproductive Tract. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3961.	1.8	6
75	Cloning and Characterization of 5' Upstream Sequence of the M32 Gene for a Mouse Homologue of <i>Drosophila</i> Heterochromatin Protein 1 (HP1). <i>DNA Sequence</i> , 2001, 12, 97-106.	0.7	5
76	The role of tetraspanin CD9 in osteoarthritis using three different mouse models. <i>Biomedical Research</i> , 2016, 37, 283-291.	0.3	5
77	Membrane protein CD9 is repositioned and released to enhance uterine function. <i>Laboratory Investigation</i> , 2019, 99, 200-209.	1.7	5
78	Next-Generation Sequencing Reveals Downregulation of the Wnt Signaling Pathway in Human Dysmature Cumulus Cells as a Hallmark for Evaluating Oocyte Quality. <i>Reproductive Medicine</i> , 2020, 1, 205-215.	0.3	5
79	Cd9 Protects Photoreceptors from Injury and Potentiates Edn2 Expression. , 2020, 61, 7.		5
80	A Novel Marker for Purkinje Cells, KIAA0864 Protein. An Analysis Based on a Monoclonal Antibody HFB-16 in Developing Human Cerebellum. <i>Journal of Histochemistry and Cytochemistry</i> , 2005, 53, 423-430.	1.3	4
81	Shortening of human cell life span by induction of p16 <sup>ink4a</sup> through the platelet-derived growth factor receptor $\beta$ . <i>Journal of Cellular Physiology</i> , 2009, 221, 335-342.	2.0	4
82	The highly conserved human cytomegalovirus UL136 ORF generates multiple Golgi-localizing protein isoforms through differential translation initiation. <i>Virus Research</i> , 2014, 179, 241-246.	1.1	4
83	Birthweights and Down syndrome in neonates that were delivered after frozen-thawed embryo transfer: The 2007-2012 Japan Society of Obstetrics and Gynecology National Registry data in Japan. <i>Reproductive Medicine and Biology</i> , 2017, 16, 228-234.	1.0	4
84	Microexosomes versus exosomes: Shared components but distinct structures. <i>Regenerative Therapy</i> , 2019, 11, 31-33.	1.4	4
85	Breast milk stimulates growth hormone secretion in infant mice, and phosphorus insufficiency disables this ability and causes dwarfism-like symptoms. <i>Regenerative Therapy</i> , 2015, 2, 49-56.	1.4	3
86	Relationships between <i>Slc1a5</i> and Osteoclastogenesis. <i>Comparative Medicine</i> , 2021, 71, 285-294.	0.4	3
87	Trehalose Suppresses Lysosomal Anomalies in Supporting Cells of Oocytes and Maintains Female Fertility. <i>Nutrients</i> , 2022, 14, 2156.	1.7	3
88	Phosphorus-insufficient maternal milk is associated with ectopic expression of collagen I and female-specific bony changes in infant mouse cartilages. <i>Regenerative Therapy</i> , 2015, 1, 5-10.	1.4	2
89	Conditional deletion of CD98hc inhibits osteoclast development. <i>Biochemistry and Biophysics Reports</i> , 2016, 5, 203-210.	0.7	2
90	Ubiquitin-activating enzyme E1 inhibitor PYR-41 retards sperm enlargement after fusion to the egg. <i>Reproductive Toxicology</i> , 2018, 76, 71-77.	1.3	2

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91	Chemotactic behavior of egg mitochondria in response to sperm fusion in mice. <i>Heliyon</i> , 2018, 4, e00944.	1.4	2
92	Functional Significance of Stage-Specific Embryonic Antigens in the Development of Preimplantation Embryos. <i>Trends in Glycoscience and Glycotechnology</i> , 2008, 20, 131-139.	0.0	2
93	Suppressive Role of Lactoferrin in Overweight-Related Female Fertility Problems. <i>Nutrients</i> , 2022, 14, 938.	1.7	2
94	Role of CD9 in Sperm-Egg Fusion and Its General Role in Fusion Phenomena. , 2011, , 171-184.		1
95	<i>Staphylococcus epidermidis</i> is involved in a mechanism for female reproduction in mice. <i>Regenerative Therapy</i> , 2015, 1, 11-17.	1.4	1
96	Reply: Artificial cycle “per se” or the specific protocol of endometrial preparation as responsible for obstetric complications of frozen cycle?. <i>Human Reproduction</i> , 2019, 34, 2554-2555.	0.4	1
97	Suppression of Non-Random Fertilization by MHC Class I Antigens. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8731.	1.8	1
98	Role of CD9 in Sperm-Egg Fusion and Virus-Induced Cell Fusion in Mammals. , 2014, , 383-391.		1
99	Identification of an antibacterial polypeptide in mouse seminal vesicle secretions. <i>Journal of Reproductive Immunology</i> , 2021, 148, 103436.	0.8	1
100	Neuronal expression of Ca oscillation initiator is linked to rapid neonatal growth in mice. <i>MicroPublication Biology</i> , 2020, 2020, .	0.1	1
101	Transformation-related expression of a low-molecular-mass tropomyosin isoform TM5/TM30nm in transformed rat fibroblastic cell lines. <i>Journal of Cancer Research and Clinical Oncology</i> , 1997, 123, 331-336.	1.2	1
102	Roles of CD9 and CD9-Containing Exosomes in Sperm-Egg Membrane Fusion. <i>Journal of Mammalian Ova Research</i> , 2010, 27, 191-197.	0.1	0
103	Regulation of Sperm-Egg Fusion at the Plasma Membrane. <i>Diversity and Commonality in Animals</i> , 2018, , 549-568.	0.7	0
104	Similar responsiveness between C57BL/6N and C57BL/6J mouse substrains to superovulation. <i>MicroPublication Biology</i> , 2021, 2021, .	0.1	0