

Hisataka Iwata

List of Publications by Year in descending order

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86
papers

1,691
citations

304368

22
h-index

344852

36
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86
all docs

86
docs citations

86
times ranked

1784
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of maternal age on mitochondrial DNA copy number, ATP content and IVF outcome of bovine oocytes. <i>Reproduction, Fertility and Development</i> , 2011, 23, 424.	0.1	126
2	Resveratrol Improves the Mitochondrial Function and Fertilization Outcome of Bovine Oocytes. <i>Journal of Reproduction and Development</i> , 2014, 60, 92-99.	0.5	71
3	Effects of follicle size and electrolytes and glucose in maturation medium on nuclear maturation and developmental competence of bovine oocytes. <i>Reproduction</i> , 2004, 127, 159-164.	1.1	70
4	Relationship between mitochondrial DNA Copy Number and SIRT1 Expression in Porcine Oocytes. <i>PLoS ONE</i> , 2014, 9, e94488.	1.1	69
5	Resveratrol-induced mitochondrial synthesis and autophagy in oocytes derived from early antral follicles of aged cows. <i>Journal of Reproduction and Development</i> , 2015, 61, 251-259.	0.5	65
6	Palmitic acid induces interleukin-1 β secretion via NLRP3 inflammasomes and inflammatory responses through ROS production in human placental cells. <i>Journal of Reproductive Immunology</i> , 2016, 116, 104-112.	0.8	63
7	Effect of aging on the female reproductive function. <i>Contraception and Reproductive Medicine</i> , 2017, 2, 23.	0.7	52
8	Gene expression patterns in granulosa cells and oocytes at various stages of follicle development as well as in <i>in vitro</i> grown oocyte-and-granulosa cell complexes. <i>Journal of Reproduction and Development</i> , 2016, 62, 359-366.	0.5	51
9	Low oxygen level increases proliferation and metabolic changes in bovine granulosa cells. <i>Molecular and Cellular Endocrinology</i> , 2016, 437, 75-85.	1.6	47
10	Advanced glycation end products and lipopolysaccharides stimulate interleukin-6 secretion via the RAGE/TLR4-NF κ B-ROS pathways and resveratrol attenuates these inflammatory responses in mouse macrophages. <i>Experimental and Therapeutic Medicine</i> , 2017, 14, 4363-4370.	0.8	47
11	<sc>AGE</sc>s and <sc>HMGB</sc>1 Increase Inflammatory Cytokine Production from Human Placental Cells, Resulting in an Enhancement of Monocyte Migration. <i>American Journal of Reproductive Immunology</i> , 2016, 75, 557-568.	1.2	40
12	Palmitic acid induces ceramide accumulation, mitochondrial protein hyperacetylation, and mitochondrial dysfunction in porcine oocytes. <i>Biology of Reproduction</i> , 2018, 98, 644-653.	1.2	39
13	Relationship between the number of cells surrounding oocytes and energy states of oocytes. <i>Theriogenology</i> , 2016, 86, 1789-1798.e1.	0.9	36
14	Resveratrol enhances the clearance of mitochondrial damage by vitrification and improves the development of vitrified-warmed bovine embryos. <i>PLoS ONE</i> , 2018, 13, e0204571.	1.1	36
15	Estradiol has a major role in antrum formation of porcine preantral follicles cultured <i>in vitro</i> . <i>Theriogenology</i> , 2013, 79, 809-814.	0.9	33
16	Effect of Maternal Age on the Ratio of Cleavage and Mitochondrial DNA Copy Number in Early Developmental Stage Bovine Embryos. <i>Journal of Reproduction and Development</i> , 2013, 59, 174-179.	0.5	33
17	Age-associated deterioration in follicular fluid induces a decline in bovine oocyte quality. <i>Reproduction, Fertility and Development</i> , 2017, 29, 759.	0.1	30
18	Age-associated events in bovine oocytes and possible countermeasures. <i>Reproductive Medicine and Biology</i> , 2016, 15, 155-164.	1.0	28

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19	Addition of granulosa cell mass to the culture medium of oocytes derived from early antral follicles increases oocyte growth, ATP content, and acetylation of H4K12. <i>Zygote</i> , 2016, 24, 848-856.	0.5	27
20	Effects of reaggregated granulosa cells and oocytes derived from early antral follicles on the properties of oocytes grown <i>in vitro</i>. <i>Journal of Reproduction and Development</i> , 2015, 61, 191-197.	0.5	24
21	Maternal aging affects oocyte resilience to carbonyl cyanide-m-chlorophenylhydrazone -induced mitochondrial dysfunction in cows. <i>PLoS ONE</i> , 2017, 12, e0188099.	1.1	24
22	Modification of mitochondrial function, cytoplasmic lipid content and cryosensitivity of bovine embryos by resveratrol. <i>Journal of Reproduction and Development</i> , 2017, 63, 455-461.	0.5	23
23	Effect of bovine age on the proliferative activity, global DNA methylation, relative telomere length and telomerase activity of granulosa cells. <i>Zygote</i> , 2013, 21, 256-264.	0.5	22
24	Age-associated changes in granulosa cells and follicular fluid in cows. <i>Journal of Reproduction and Development</i> , 2017, 63, 339-345.	0.5	22
25	Moderate Hypoxia Down-Regulates Interleukin-6 Secretion and TLR4 Expression in Human Sw.71 Placental Cells. <i>Cellular Physiology and Biochemistry</i> , 2015, 36, 2149-2160.	1.1	21
26	Advanced glycation end products regulate interleukin-1 β production in human placenta. <i>Journal of Reproduction and Development</i> , 2017, 63, 401-408.	0.5	21
27	Palmitic acid activates NLRP3 inflammasome and induces placental inflammation during pregnancy in mice. <i>Journal of Reproduction and Development</i> , 2020, 66, 241-248.	0.5	21
28	Mitochondrial oxygen consumption rate of human embryos declines with maternal age. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 1815-1821.	1.2	20
29	Differential effects of mitochondrial inhibitors on porcine granulosa cells and oocytes. <i>Theriogenology</i> , 2017, 103, 98-103.	0.9	19
30	Mitochondrial dysfunction in cumulus-oocyte complexes increases cell-free mitochondrial DNA. <i>Journal of Reproduction and Development</i> , 2018, 64, 261-266.	0.5	19
31	Preeclamptic patient-derived circulating cell-free DNA activates the production of inflammatory cytokines via toll-like receptor 9 signalling in the human placenta. <i>Journal of Hypertension</i> , 2019, 37, 2452-2460.	0.3	19
32	Palmitic acid stimulates interleukin-8 via the TLR4/NF- κ B/ROS pathway and induces mitochondrial dysfunction in bovine oviduct epithelial cells. <i>American Journal of Reproductive Immunology</i> , 2017, 77, e12642.	1.2	18
33	Polyacrylamide gel as a culture substrate improves in vitro oocyte growth from porcine early antral follicles. <i>Molecular Reproduction and Development</i> , 2017, 84, 44-54.	1.0	18
34	Age-associated mRNA expression changes in bovine endometrial cells in vitro. <i>Reproductive Biology and Endocrinology</i> , 2017, 15, 63.	1.4	18
35	Oxygen concentration modulates cellular senescence and autophagy in human trophoblast cells. <i>American Journal of Reproductive Immunology</i> , 2018, 79, e12826.	1.2	18
36	Follicular factors determining granulosa cell number and developmental competence of porcine oocytes. <i>Journal of Assisted Reproduction and Genetics</i> , 2018, 35, 1809-1819.	1.2	18

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37	Short-term heat stress induces mitochondrial degradation and biogenesis and enhances mitochondrial quality in porcine oocytes. <i>Journal of Thermal Biology</i> , 2018, 74, 256-263.	1.1	17
38	Olive Leaf Extract (OleaVita) Suppresses Inflammatory Cytokine Production and NLRP3 Inflammasomes in Human Placenta. <i>Nutrients</i> , 2019, 11, 970.	1.7	17
39	Prediction of major microRNAs in follicular fluid regulating porcine oocyte development. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 2569-2579.	1.2	17
40	Promotion of glucose utilization by insulin enhances granulosa cell proliferation and developmental competence of porcine oocyte grown <i>in vitro</i> . <i>Zygote</i> , 2017, 25, 65-74.	0.5	16
41	Effects of resveratrol treatment on mitochondria and subsequent embryonic development of bovine blastocysts cryopreserved by slow freezing. <i>Animal Science Journal</i> , 2019, 90, 849-856.	0.6	15
42	Improvement of fertility in repeat breeder dairy cattle by embryo transfer following artificial insemination: possibility of interferon tau replenishment effect. <i>Journal of Reproduction and Development</i> , 2019, 65, 223-229.	0.5	14
43	Role of methionine adenosyltransferase 2A in bovine preimplantation development and its associated genomic regions. <i>Scientific Reports</i> , 2017, 7, 3800.	1.6	13
44	Non-esterified fatty acid-associated ability of follicular fluid to support porcine oocyte maturation and development. <i>Reproductive Medicine and Biology</i> , 2018, 17, 155-163.	1.0	13
45	Comparison of gene expression and mitochondria number between bovine blastocysts obtained <i>in vitro</i> and <i>in vivo</i> . <i>Journal of Reproduction and Development</i> , 2020, 66, 35-39.	0.5	13
46	Effect of Modification of Ovary Preservation Solution by Adding Glucose on the Maturation and Development of Pig Oocytes after Prolonged Storage. <i>Journal of Reproduction and Development</i> , 2006, 52, 669-674.	0.5	13
47	Effect of aging on mitochondria and metabolism of bovine granulosa cells. <i>Journal of Reproduction and Development</i> , 2020, 66, 547-554.	0.5	13
48	Age-dependent changes in inflammation and extracellular matrix in bovine oviduct epithelial cells during the post-ovulatory phase. <i>Molecular Reproduction and Development</i> , 2016, 83, 815-826.	1.0	12
49	S100A8, which increases with age, induces cellular senescence-like changes in bovine oviduct epithelial cells. <i>American Journal of Reproductive Immunology</i> , 2019, 82, e13163.	1.2	12
50	Mitochondrial cell-free DNA secreted from porcine granulosa cells. <i>Zygote</i> , 2019, 27, 272-278.	0.5	11
51	Mitochondrial function in immature bovine oocytes is improved by an increase of cellular cyclic AMP. <i>Scientific Reports</i> , 2019, 9, 5167.	1.6	11
52	Abundance of cell-free mitochondrial DNA in spent culture medium associated with morphokinetics and blastocyst collapse of expanded blastocysts. <i>Reproductive Medicine and Biology</i> , 2020, 19, 404-414.	1.0	10
53	Cell-free DNA content in follicular fluid: A marker for the developmental ability of porcine oocytes. <i>Reproductive Medicine and Biology</i> , 2020, 19, 95-103.	1.0	10
54	Resveratrol enhanced mitochondrial recovery from cryopreservation-induced damages in oocytes and embryos. <i>Reproductive Medicine and Biology</i> , 2021, 20, 419-426.	1.0	10

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55	IL1B triggers inflammatory cytokine production in bovine oviduct epithelial cells and induces neutrophil accumulation via CCL2. American Journal of Reproductive Immunology, 2021, 85, e13365.	1.2	9
56	Advanced maternal age induces fetal growth restriction through decreased placental inflammatory cytokine expression and immune cell accumulation in mice. Journal of Reproduction and Development, 2021, 67, 257-264.	0.5	9
57	Î²-hydroxybutyrate suppresses NLRP3 inflammasome-mediated placental inflammation and lipopolysaccharide-induced fetal absorption. Journal of Reproductive Immunology, 2021, 148, 103433.	0.8	9
58	NLRP3 inflammasome is involved in testicular inflammation induced by lipopolysaccharide in mice. American Journal of Reproductive Immunology, 2022, 87, e13527.	1.2	9
59	Age-related changes in the bovine corpus luteum function and progesterone secretion. Reproduction in Domestic Animals, 2019, 54, 23-30.	0.6	8
60	Cell-free DNA in medium is associated with the maturation ability of <i>in vitro&/i> cultured oocytes. Journal of Reproduction and Development, 2019, 65, 171-175.	0.5	8
61	Effect of 5-aminoimidazole-4-carboxamide ribonucleoside on the mitochondrial function and developmental ability of bovine oocytes. Theriogenology, 2015, 84, 490-497.	0.9	7
62	Mitochondrial reactive oxygen species regulate mitochondrial biogenesis in porcine embryos. Journal of Reproduction and Development, 2021, 67, 141-147.	0.5	7
63	Aggregation of Human Trophoblast Cells into Three-Dimensional Culture System Enhances Anti-Inflammatory Characteristics through Cytoskeleton Regulation. International Journal of Molecular Sciences, 2018, 19, 2322.	1.8	6
64	Xanthan gum and locust bean gum substrate improves bovine embryo development. Reproduction in Domestic Animals, 2020, 55, 1124-1131.	0.6	6
65	Effect of Aging on Telomere Lengths in Bovine Oocytes and Granulosa Cells. Journal of Mammalian Ova Research, 2017, 34, 37-43.	0.1	5
66	Interferon Tau Regulates Cytokine Production and Cellular Function in Human Trophoblast Cell Line. Journal of Interferon and Cytokine Research, 2017, 37, 456-466.	0.5	5
67	The transfer of parthenogenetic embryos following artificial insemination in cows can enhance pregnancy recognition via the secretion of interferon tau. Journal of Reproduction and Development, 2019, 65, 443-450.	0.5	5
68	Xanthan gum and Locust bean gum gel supports <i>in vitro&/i> development of porcine oocytes derived from early antral follicles. Journal of Reproduction and Development, 2019, 65, 551-554.	0.5	5
69	Adverse reproductive effects of S100A9 on bovine sperm and early embryonic development in vitro. PLoS ONE, 2020, 15, e0227885.	1.1	5
70	Effect of maternal aging and vitrification on mitochondrial DNA copy number in embryos and spent culture medium. Reproductive Biology, 2021, 21, 100506.	0.9	5
71	miR-17-5p in bovine oviductal fluid affects embryo development. Molecular and Cellular Endocrinology, 2022, 551, 111651.	1.6	5
72	Addition of granulosa cells collected from differential follicle stages supports development of oocytes derived from porcine early antral follicles. Reproductive Medicine and Biology, 2019, 18, 65-71.	1.0	4

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73	Comparative analysis of cell-free DNA content in culture medium and mitochondrial DNA copy number in porcine parthenogenetically activated embryos. <i>Journal of Reproduction and Development</i> , 2020, 66, 539-546.	0.5	4
74	Uncaria tomentosa extract (AC-11) improves pregnancy hypertension together with suppression of sFlt-1 and sEng. <i>Pregnancy Hypertension</i> , 2021, 26, 127-132.	0.6	4
75	Acetoacetate is a trigger of NLRP3 inflammasome activation in bovine peripheral blood mononuclear cells. <i>Veterinary Immunology and Immunopathology</i> , 2022, 244, 110370.	0.5	4
76	Follicular factors determining the developmental competence of porcine oocyte. <i>Reproductive Medicine and Biology</i> , 2019, 18, 256-262.	1.0	3
77	The Effect of High Glucose Concentration on the Quality of Oocytes Derived from Different Growth Stages of Follicles. <i>Journal of Mammalian Ova Research</i> , 2015, 32, 41-48.	0.1	2
78	Effect of cryopreservation on the ability of granulosa cells to support in vitro development of oocytes derived from porcine early antral follicles. <i>Theriogenology</i> , 2020, 143, 50-56.	0.9	2
79	Effects of a gel culture system made of polysaccharides (xanthan gum and locust bean gum) on in vitro bovine oocyte development and gene expression of the granulosa cells. <i>Molecular Reproduction and Development</i> , 2021, 88, 516-524.	1.0	2
80	Effect of docosahexaenoic acid on in vitro growth of bovine oocytes. <i>Reproductive Medicine and Biology</i> , 2021, 20, 485-493.	1.0	2
81	Liver condition of Holstein cows affects mitochondrial function and fertilization ability of oocytes. <i>Journal of Reproduction and Development</i> , 2016, 62, 235-240.	0.5	2
82	A Simple Cryopreservation Method for Efficient Isolation of Live Cells from Dead Animals. <i>Mammal Study</i> , 2022, 47, .	0.2	2
83	Hyperthermia alters interleukin-6 production in response to lipopolysaccharide via endoplasmic reticulum stress in bovine endometrial cells. <i>Journal of Cellular Physiology</i> , 2021, , .	2.0	1
84	Modification of the medium volume and gel substrate under in vitro culture conditions improves growth of porcine oocytes derived from early antral follicles. <i>Journal of Reproduction and Development</i> , 2019, 65, 375-379.	0.5	1
85	Effect of N-acetyl-D-glucosamine on Bovine Sperm-oocyte Interactions.. <i>Biology of Reproduction</i> , 2008, 78, 138-138.	1.2	0
86	Cell free mitochondrial DNA in plasma and physical condition of cows. <i>Nihon Chikusan Gakkaiho</i> , 2020, 91, 227-232.	0.0	0