

Masayuki Shimada

List of Publications by Year in descending order

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131
papers

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docs citations

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times ranked

4620
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#	ARTICLE	IF	CITATIONS
1	MAPK3/1 (ERK1/2) in Ovarian Granulosa Cells Are Essential for Female Fertility. <i>Science</i> , 2009, 324, 938-941.	12.6	559
2	Paracrine and Autocrine Regulation of Epidermal Growth Factor-Like Factors in Cumulus Oocyte Complexes and Granulosa Cells: Key Roles for Prostaglandin Synthase 2 and Progesterone Receptor. <i>Molecular Endocrinology</i> , 2006, 20, 1352-1365.	3.7	369
3	Gene Expression Profiles of Cumulus Cell Oocyte Complexes during Ovulation Reveal Cumulus Cells Express Neuronal and Immune-Related Genes: Does this Expand Their Role in the Ovulation Process?. <i>Molecular Endocrinology</i> , 2006, 20, 1300-1321.	3.7	231
4	The lncRNA <i>Neat1</i> is required for corpus luteum formation and the establishment of pregnancy in a subpopulation of mice. <i>Development (Cambridge)</i> , 2014, 141, 4618-4627.	2.5	229
5	Hyaluronan fragments generated by sperm-secreted hyaluronidase stimulate cytokine/chemokine production via the TLR2 and TLR4 pathway in cumulus cells of ovulated COCs, which may enhance fertilization. <i>Development (Cambridge)</i> , 2008, 135, 2001-2011.	2.5	155
6	β -Catenin (CTNNB1) Promotes Preovulatory Follicular Development but Represses LH-Mediated Ovulation and Luteinization. <i>Molecular Endocrinology</i> , 2010, 24, 1529-1542.	3.7	152
7	Induced Expression of Pattern Recognition Receptors in Cumulus Oocyte Complexes: Novel Evidence for Innate Immune-Like Functions during Ovulation. <i>Molecular Endocrinology</i> , 2006, 20, 3228-3239.	3.7	130
8	Selective expression of <i>KrasG12D</i> in granulosa cells of the mouse ovary causes defects in follicle development and ovulation. <i>Development (Cambridge)</i> , 2008, 135, 2127-2137.	2.5	129
9	Immune-like mechanisms in ovulation. <i>Trends in Endocrinology and Metabolism</i> , 2008, 19, 191-196.	7.1	123
10	Mice Null for <i>Frizzled4</i> (<i>Fzd4</i> ^{-/-}) Are Infertile and Exhibit Impaired Corpora Lutea Formation and Function. <i>Biology of Reproduction</i> , 2005, 73, 1135-1146.	2.7	119
11	Toll-like receptors (TLR) 2 and 4 on human sperm recognize bacterial endotoxins and mediate apoptosis. <i>Human Reproduction</i> , 2011, 26, 2799-2806.	0.9	117
12	Interleukin-6: An Autocrine Regulator of the Mouse Cumulus Cell-Oocyte Complex Expansion Process. <i>Endocrinology</i> , 2009, 150, 3360-3368.	2.8	114
13	FSH and LH induce progesterone production and progesterone receptor synthesis in cumulus cells: a requirement for meiotic resumption in porcine oocytes. <i>Molecular Human Reproduction</i> , 2002, 8, 612-618.	2.8	104
14	Production of Progesterone from De Novo-Synthesized Cholesterol in Cumulus Cells and Its Physiological Role During Meiotic Resumption of Porcine Oocytes. <i>Biology of Reproduction</i> , 2003, 68, 1193-1198.	2.7	99
15	Luteinizing Hormone Receptor Formation in Cumulus Cells Surrounding Porcine Oocytes and Its Role During Meiotic Maturation of Porcine Oocytes. <i>Biology of Reproduction</i> , 2003, 68, 1142-1149.	2.7	92
16	Sequential exposure of porcine cumulus cells to FSH and/or LH is critical for appropriate expression of steroidogenic and ovulation-related genes that impact oocyte maturation in vivo and in vitro. <i>Reproduction</i> , 2008, 136, 9-21.	2.6	92
17	Dynamic Changes of Connexin-43, Gap Junctional Protein, in Outer Layers of Cumulus Cells Are Regulated by PKC and PI 3-Kinase During Meiotic Resumption in Porcine Oocytes. <i>Biology of Reproduction</i> , 2001, 64, 1255-1263.	2.7	76
18	Adiponectin and its receptors modulate granulosa cell and cumulus cell functions, fertility, and early embryo development in the mouse and human. <i>Fertility and Sterility</i> , 2012, 98, 471-479.e1.	1.0	76

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19	Hormone-Induced Expression of Tumor Necrosis Factor α -Converting Enzyme/A Disintegrin and Metalloprotease-17 Impacts Porcine Cumulus Cell Oocyte Complex Expansion and Meiotic Maturation via Ligand Activation of the Epidermal Growth Factor Receptor. <i>Endocrinology</i> , 2007, 148, 6164-6175.	2.8	73
20	Seminal plasma damages sperm during cryopreservation, but its presence during thawing improves semen quality and conception rates in boars with poor post-thaw semen quality. <i>Theriogenology</i> , 2009, 71, 491-498.	2.1	72
21	Negative effects of ROS generated during linear sperm motility on gene expression and ATP generation in boar sperm mitochondria. <i>Free Radical Biology and Medicine</i> , 2019, 141, 159-171.	2.9	71
22	The involvement of the Toll-like receptor family in ovulation. <i>Journal of Assisted Reproduction and Genetics</i> , 2008, 25, 223-228.	2.5	69
23	Synaptosomal-Associated Protein 25 Gene Expression Is Hormonally Regulated during Ovulation and Is Involved in Cytokine/Chemokine Exocytosis from Granulosa Cells. <i>Molecular Endocrinology</i> , 2007, 21, 2487-2502.	3.7	65
24	Down-Regulated Expression of A Disintegrin and Metalloproteinase with Thrombospondin-Like Repeats-1 by Progesterone Receptor Antagonist Is Associated with Impaired Expansion of Porcine Cumulus-Oocyte Complexes. <i>Endocrinology</i> , 2004, 145, 4603-4614.	2.8	63
25	Delay of nuclear maturation and reduction in developmental competence of pig oocytes after mineral oil overlay of in vitro maturation media. <i>Reproduction</i> , 2002, 124, 557-564.	2.6	62
26	Roles of cAMP in regulation of both MAP kinase and p34cdc2 kinase activity during meiotic progression, especially beyond the MI stage. <i>Molecular Reproduction and Development</i> , 2002, 62, 124-131.	2.0	60
27	Activation of PKA, p38 MAPK and ERK1/2 by gonadotropins in cumulus cells is critical for induction of EGF-like factor and TACE/ADAM17 gene expression during in vitro maturation of porcine COCs. <i>Journal of Ovarian Research</i> , 2009, 2, 20.	3.0	58
28	LH-Induced Neuregulin 1 (NRG1) Type III Transcripts Control Granulosa Cell Differentiation and Oocyte Maturation. <i>Molecular Endocrinology</i> , 2011, 25, 104-116.	3.7	58
29	Phosphatidylinositol 3-Kinase in Cumulus Cells and Oocytes Is Responsible for Activation of Oocyte Mitogen-Activated Protein Kinase During Meiotic Progression Beyond the Meiosis I Stage in Pigs. <i>Biology of Reproduction</i> , 2001, 64, 1106-1114.	2.7	57
30	Induction of immune-related gene expression by seminal exosomes in the porcine endometrium. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 1094-1101.	2.1	56
31	Activation of Toll-like receptor 7/8 encoded by the X chromosome alters sperm motility and provides a novel simple technology for sexing sperm. <i>PLoS Biology</i> , 2019, 17, e3000398.	5.6	55
32	Polymyxin B neutralizes bacteria-released endotoxin and improves the quality of boar sperm during liquid storage and cryopreservation. <i>Theriogenology</i> , 2010, 74, 1691-1700.	2.1	54
33	Female reproductive life span is extended by targeted removal of fibrotic collagen from the mouse ovary. <i>Science Advances</i> , 2022, 8, .	10.3	54
34	TAF4b, a TBP associated factor, is required for oocyte development and function. <i>Developmental Biology</i> , 2005, 288, 405-419.	2.0	53
35	Phosphatidylinositol 3-kinase in cumulus cells is responsible for both suppression of spontaneous maturation and induction of gonadotropin-stimulated maturation of porcine oocytes. <i>Journal of Endocrinology</i> , 2003, 179, 25-34.	2.6	50
36	Expression of two progesterone receptor isoforms in cumulus cells and their roles during meiotic resumption of porcine oocytes. <i>Journal of Molecular Endocrinology</i> , 2004, 33, 209-225.	2.5	50

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37	TLR2/4 signaling pathway mediates sperm-induced inflammation in bovine endometrial epithelial cells in vitro. <i>PLoS ONE</i> , 2019, 14, e0214516.	2.5	50
38	De Novo-Synthesized Retinoic Acid in Ovarian Antral Follicles Enhances FSH-Mediated Ovarian Follicular Cell Differentiation and Female Fertility. <i>Endocrinology</i> , 2016, 157, 2160-2172.	2.8	46
39	Gene Expression and Protein Synthesis in Mitochondria Enhance the Duration of High-Speed Linear Motility in Boar Sperm. <i>Frontiers in Physiology</i> , 2019, 10, 252.	2.8	45
40	EGF-Like Factors Induce Expansion of the Cumulus Cell-Oocyte Complexes by Activating Calpain-Mediated Cell Movement. <i>Endocrinology</i> , 2012, 153, 3949-3959.	2.8	42
41	Contribution of high p34cdc2 kinase activity to premature chromosome condensation of injected somatic cell nuclei in rat oocytes. <i>Reproduction</i> , 2005, 129, 171-180.	2.6	41
42	Assessment of human oocyte developmental competence by cumulus cell morphology and circulating hormone profile. <i>Reproductive BioMedicine Online</i> , 2007, 14, 49-56.	2.4	41
43	A proinflammatory response of bovine endometrial epithelial cells to active sperm in vitro. <i>Molecular Reproduction and Development</i> , 2018, 85, 215-226.	2.0	41
44	Androgen/androgen receptor pathway regulates expression of the genes for cyclooxygenase-2 and amphiregulin in periovulatory granulosa cells. <i>Molecular and Cellular Endocrinology</i> , 2013, 369, 42-51.	3.2	40
45	Roles of epidermal growth factor (EGF)-like factor in the ovulation process. <i>Reproductive Medicine and Biology</i> , 2016, 15, 201-216.	2.4	40
46	Creatine enhances the duration of sperm capacitation: a novel factor for improving in vitro fertilization with small numbers of sperm. <i>Human Reproduction</i> , 2018, 33, 1117-1129.	0.9	40
47	The Release of EGF Domain from EGF-like Factors by a Specific Cleavage Enzyme Activates the EGFR-MAPK3/1 Pathway in Both Granulosa Cells and Cumulus Cells During the Ovulation Process. <i>Journal of Reproduction and Development</i> , 2012, 58, 510-514.	1.4	39
48	Effect of Protein Kinase C Activator on Mitogen-Activated Protein Kinase and p34cdc2 Kinase Activity During Parthenogenetic Activation of Porcine Oocytes by Calcium Ionophore1. <i>Biology of Reproduction</i> , 2003, 69, 1675-1682.	2.7	37
49	Artificial Insemination With Seminal Plasma Improves the Reproductive Performance of Frozen-Thawed Boar Epididymal Spermatozoa. <i>Journal of Andrology</i> , 2012, 33, 990-998.	2.0	36
50	Oviduct epithelium induces interferon-tau in bovine Day-4 embryos, which generates an anti-inflammatory response in immune cells. <i>Scientific Reports</i> , 2018, 8, 7850.	3.3	35
51	Protein Kinase C (PKC) Increases TACE/ADAM17 Enzyme Activity in Porcine Ovarian Somatic Cells, Which Is Essential for Granulosa Cell Luteinization and Oocyte Maturation. <i>Endocrinology</i> , 2014, 155, 1080-1090.	2.8	34
52	Progesterone is Essential for Maintenance of Tace/Adam17 mRNA Expression, But not EGF-like Factor, in Cumulus Cells, Which Enhances the EGF Receptor Signaling Pathway During In Vitro Maturation of Porcine COCs. <i>Journal of Reproduction and Development</i> , 2010, 56, 315-323.	1.4	33
53	Bovine embryo induces an anti-inflammatory response in uterine epithelial cells and immune cells <i>in vitro</i>; possible involvement of interferon tau as an intermedator. <i>Journal of Reproduction and Development</i> , 2017, 63, 425-434.	1.4	33
54	Inhibition of Phosphatidylinositol 3-Kinase or Mitogen-Activated Protein Kinase Kinase Leads to Suppression of p34cdc2 Kinase Activity and Meiotic Progression Beyond the Meiosis I Stage in Porcine Oocytes Surrounded with Cumulus Cells. <i>Biology of Reproduction</i> , 2001, 65, 442-448.	2.7	32

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55	Improved conception rates in sows inseminated with cryopreserved boar spermatozoa prepared with a more optimal combination of osmolality and glycerol in the freezing extender. <i>Animal Science Journal</i> , 2009, 80, 121-129.	1.4	32
56	Positive Feedback Loop Between Prostaglandin E2 and EGF-Like Factors Is Essential for Sustainable Activation of MAPK3/1 in Cumulus Cells During In Vitro Maturation of Porcine Cumulus Oocyte Complexes1. <i>Biology of Reproduction</i> , 2011, 85, 1073-1082.	2.7	32
57	LH reduces proliferative activity of cumulus cells and accelerates GVBD of porcine oocytes. <i>Molecular and Cellular Endocrinology</i> , 2003, 209, 43-50.	3.2	30
58	Mitogen-Activated Protein Kinase Kinase Inhibitor Suppresses Cyclin B1 Synthesis and Reactivation of p34cdc2 Kinase, Which Improves Pronuclear Formation Rate in Matured Porcine Oocytes Activated by Ca ²⁺ Ionophore1. <i>Biology of Reproduction</i> , 2004, 70, 797-804.	2.7	30
59	Enzyme immunoassay of progesterone in the feces from beef cattle to monitor the ovarian cycle. <i>Animal Reproduction Science</i> , 2005, 87, 1-10.	1.5	30
60	Adverse effect of superoxide-induced mitochondrial damage in granulosa cells on follicular development in mouse ovaries. <i>Free Radical Biology and Medicine</i> , 2021, 163, 344-355.	2.9	29
61	Inductions of granulosa cell luteinization and cumulus expansion are dependent on the fibronectin-integrin pathway during ovulation process in mice. <i>PLoS ONE</i> , 2018, 13, e0192458.	2.5	29
62	Sperm enter glands of preovulatory bovine endometrial explants and initiate inflammation. <i>Reproduction</i> , 2020, 159, 181-192.	2.6	29
63	The acceleration of reproductive aging in <i>Nrg1^{flox/flox};Cyp19^{Cre}</i> female mice. <i>Aging Cell</i> , 2017, 16, 1288-1299.	6.7	28
64	Survival of boar spermatozoa frozen in diluents of varying osmolality. <i>Theriogenology</i> , 2001, 56, 447-458.	2.1	27
65	Motility and penetration competence of frozen-thawed miniature pig spermatozoa are substantially altered by exposure to seminal plasma before freezing. <i>Theriogenology</i> , 2004, 61, 351-364.	2.1	26
66	Gonadotropin-Induced β 14-Reductase and β 7-Reductase Gene Expression in Cumulus Cells during Meiotic Resumption of Porcine Oocytes. <i>Endocrinology</i> , 2005, 146, 186-194.	2.8	26
67	The addition of calcium ion chelator, EGTA to thawing solution improves fertilizing ability in frozen-thawed boar sperm. <i>Animal Science Journal</i> , 2011, 82, 412-419.	1.4	26
68	New strategies of boar sperm cryopreservation: Development of novel freezing and thawing methods with a focus on the roles of seminal plasma. <i>Animal Science Journal</i> , 2012, 83, 623-629.	1.4	26
69	Targeted Disruption of Nrg1 in Granulosa Cells Alters the Temporal Progression of Oocyte Maturation. <i>Molecular Endocrinology</i> , 2014, 28, 706-721.	3.7	26
70	Mitochondrial Protein Turnover Is Critical for Granulosa Cell Proliferation and Differentiation in Antral Follicles. <i>Journal of the Endocrine Society</i> , 2019, 3, 324-339.	0.2	26
71	The Cell Type-Specific Expression of Lhcgr in Mouse Ovarian Cells: Evidence for a DNA-Demethylation-Dependent Mechanism. <i>Endocrinology</i> , 2018, 159, 2062-2074.	2.8	25
72	Evidence that interferon-tau secreted from Day-7 embryo in vivo generates anti-inflammatory immune response in the bovine uterus. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 879-884.	2.1	25

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73	Effects of wortmannin on the kinetics of gvbd and the activities of the maturation-promoting factor and mitogen-activated protein kinase during bovine oocyte maturation in vitro. <i>Theriogenology</i> , 2000, 53, 1797-1806.	2.1	24
74	A simple sperm-sexing method that activates TLR7/8 on X sperm for the efficient production of sexed mouse or cattle embryos. <i>Nature Protocols</i> , 2020, 15, 2645-2667.	12.0	24
75	The Key Signaling Cascades in Granulosa Cells During Follicular Development and Ovulation Process. <i>Journal of Mammalian Ova Research</i> , 2011, 28, 25-31.	0.1	23
76	The Novel Pig In Vitro Maturation System to Improve Developmental Competence of Oocytes Derived from Atretic Nonvascularized Follicles. <i>Biology of Reproduction</i> , 2016, 95, 76-76.	2.7	23
77	Itaconate regulates the glycolysis/pentose phosphate pathway transition to maintain boar sperm linear motility by regulating redox homeostasis. <i>Free Radical Biology and Medicine</i> , 2020, 159, 44-53.	2.9	23
78	A Recurrent Translocation, t(16;21)(q24;q22), Associated with Acute Myelogenous Leukemia: Identification by Fluorescence In Situ Hybridization. <i>Cancer Genetics and Cytogenetics</i> , 1997, 96, 102-105.	1.0	21
79	Possible role for phosphatidylinositol 3-kinase in regulating meiotic maturation of bovine oocytes in vitro. <i>Theriogenology</i> , 1998, 50, 347-356.	2.1	21
80	The stromal fibrosis in aging ovary. <i>Aging</i> , 2018, 10, 9-10.	3.1	20
81	The role of calcium/calmodulin-dependent protein kinase II on the inactivation of MAP kinase and p34cdc2 kinase during fertilization and activation in pig oocytes. <i>Reproduction</i> , 2004, 128, 409-415.	2.6	19
82	Effects of Phosphatidylinositol 3-Kinase Inhibitors, Wortmannin and LY294002, on Germinal Vesicle Breakdown (GVBD) in Porcine Oocytes.. <i>Journal of Reproduction and Development</i> , 1998, 44, 281-288.	1.4	18
83	Involvement of Ca ²⁺ -dependent proteasome in the degradation of both cyclin B1 and Mos during spontaneous activation of matured rat oocytes. <i>Theriogenology</i> , 2007, 67, 475-485.	2.1	17
84	Endogenous acetaldehyde toxicity during antral follicular development in the mouse ovary. <i>Reproductive Toxicology</i> , 2012, 33, 322-330.	2.9	17
85	Roadmap to pregnancy in the first 7 days post-insemination in the cow: Immune crosstalk in the corpus luteum, oviduct, and uterus. <i>Theriogenology</i> , 2020, 150, 313-320.	2.1	16
86	Neuregulin 1 Regulates Proliferation of Leydig Cells to Support Spermatogenesis and Sexual Behavior in Adult Mice. <i>Endocrinology</i> , 2016, 157, 4899-4913.	2.8	15
87	Saturated fatty acids accelerate linear motility through mitochondrial ATP production in bull sperm. <i>Reproductive Medicine and Biology</i> , 2021, 20, 289-298.	2.4	13
88	Iron deficiency induces female infertile in order to failure of follicular development in mice. <i>Journal of Reproduction and Development</i> , 2020, 66, 475-483.	1.4	13
89	Sperm interaction with the uterine innate immune system: toll-like receptor 2 (TLR2) is a main sensor in cattle. <i>Reproduction, Fertility and Development</i> , 2021, 34, 139-148.	0.4	13
90	Large-scale DNA demethylation occurs in proliferating ovarian granulosa cells during mouse follicular development. <i>Communications Biology</i> , 2021, 4, 1334.	4.4	13

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91	Timing of MAP kinase inactivation effects on emission of polar body in porcine oocytes activated by Ca ²⁺ ionophore. <i>Molecular Reproduction and Development</i> , 2005, 70, 64-69.	2.0	11
92	Fecal Progesterone and Estrone During Pregnancy in a Giraffe: A Case Report. <i>Journal of Reproduction and Development</i> , 2007, 53, 159-164.	1.4	11
93	Progression of Nuclear Maturation and p34cdc2 Kinase Activity in Porcine Oocytes during In Vitro Culture in Different Media. <i>Journal of Mammalian Ova Research</i> , 2001, 18, 39-43.	0.1	11
94	Effects of Estrone Sulfate Administration on Reproductive Functions in Male Japanese Quail. <i>Journal of Poultry Science</i> , 2003, 40, 247-253.	1.6	11
95	Peptidoglycan Switches Off the TLR2-Mediated Sperm Recognition and Triggers Sperm Localization in the Bovine Endometrium. <i>Frontiers in Immunology</i> , 2020, 11, 619408.	4.8	10
96	LH Induces De Novo Cholesterol Biosynthesis via SREBP Activation in Granulosa Cells During Ovulation in Female Mice. <i>Endocrinology</i> , 2021, 162, .	2.8	10
97	Anti-Bacterial Factors Secreted From Cumulus Cells of Ovulated COCs Enhance Sperm Capacitation During In Vitro Fertilization. <i>American Journal of Reproductive Immunology</i> , 2013, 69, 168-179.	1.2	9
98	Ovulation. , 2015, , 997-1021.		9
99	Sensing sperm via maternal immune system: a potential mechanism for controlling microenvironment for fertility in the cow. <i>Journal of Animal Science</i> , 2020, 98, S88-S95.	0.5	9
100	Regulation of oocyte meiotic maturation by somatic cells. <i>Reproductive Medicine and Biology</i> , 2012, 11, 177-184.	2.4	8
101	Transgenic mice specifically expressing amphiregulin in white adipose tissue showed less adipose tissue mass. <i>Genes To Cells</i> , 2018, 23, 136-145.	1.2	8
102	Phosphorylation of Connexin-43, Gap Junctional Protein, in Cumulus Cells is Regulated by Mitogen-Activated Protein Kinase and Phosphatidylinositol 3-Kinase during In Vitro Meiotic Resumption in Porcine Follicular Oocytes. <i>Journal of Mammalian Ova Research</i> , 1999, 16, 37-42.	0.1	8
103	Cyclooxygenase-2 is acutely induced by CCAAT/enhancer-binding protein β to produce prostaglandin E ₂ and F ₂ Is following gonadotropin stimulation in Leydig cells. <i>Molecular Reproduction and Development</i> , 2019, 86, 786-797.	2.0	7
104	Day 7 Embryos Change the Proteomics and Exosomal Micro-RNAs Content of Bovine Uterine Fluid: Involvement of Innate Immune Functions. <i>Frontiers in Genetics</i> , 2021, 12, 676791.	2.3	7
105	Cumulus Oocyte Complex: Cumulus Cells Regulate Oocyte Growth and Maturation. <i>Journal of Mammalian Ova Research</i> , 2009, 26, 189-194.	0.1	6
106	Impact of lipopolysaccharide administration on luteinizing hormone/choriogonadotropin receptor (Lhcr) expression in mouse ovaries. <i>Journal of Reproductive Immunology</i> , 2020, 142, 103193.	1.9	6
107	Neutrophils recognize and amplify IFNT signals derived from day 7 bovine embryo for stimulation of ISGs expression in vitro: A possible implication for the early maternal recognition of pregnancy. <i>Biochemical and Biophysical Research Communications</i> , 2021, 553, 37-43.	2.1	6
108	Cutting the ovarian surface improves the responsiveness to exogenous hormonal treatment in aged mice. <i>Reproductive Medicine and Biology</i> , 2020, 19, 415-424.	2.4	5

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109	Pretreatment of ovaries with collagenase before vitrification keeps the ovarian reserve by maintaining cell-cell adhesion integrity in ovarian follicles. <i>Scientific Reports</i> , 2020, 10, 6841.	3.3	5
110	Cortisol induces follicle regression, while FSH prevents cortisol-induced follicle regression in pigs. <i>Molecular Human Reproduction</i> , 2021, 27, .	2.8	5
111	Phosphatidylinositol 3-Kinase in Cumulus Cells is Responsible for Meiotic Progression from M I to M II Stage in Porcine Follicular Oocytes.. <i>Journal of Mammalian Ova Research</i> , 1998, 15, 68-76.	0.1	5
112	Both Ca ²⁺ -Protein Kinase C Pathway and cAMP-Protein Kinase A Pathway are Involved in Progesterone Production in FSH- and LH-stimulated Cumulus Cells during In Vitro Maturation of Porcine Oocytes. <i>Journal of Mammalian Ova Research</i> , 2002, 19, 81-88.	0.1	5
113	Possible involvement of phosphatidylinositol 3-kinase in the maintenance of metaphase II arrest in porcine oocytes matured <i>in vitro</i> . <i>Animal Science Journal</i> , 2010, 81, 42-47.	1.4	4
114	Murine Sperm Expresses Toll-Like Receptor (TLR) Family that Responds to the Pathogens Released from Virus, and Decreases Fertilization Ability by the Stimuli. <i>Journal of Mammalian Ova Research</i> , 2010, 27, 136-143.	0.1	4
115	Methyl-β cyclodextrin and creatine work synergistically under hypoxic conditions to improve the fertilization ability of boar ejaculated sperm. <i>Animal Science Journal</i> , 2020, 91, e13493.	1.4	4
116	Effects of adding luteinizing hormone to a medium containing follicle stimulating hormone on progesterone-induced differentiation of cumulus cells during meiotic resumption of porcine oocytes. <i>Animal Science Journal</i> , 2004, 75, 515-523.	1.4	3
117	Cumulus Cells are an Essential Mediator of Ovulation Stimuli from Granulosa Cells to Oocyte. <i>Journal of Mammalian Ova Research</i> , 2010, 27, 2-10.	0.1	3
118	Peptidoglycan disrupts early embryo-maternal crosstalk via suppression of ISGs expression induced by interferon-tau in the bovine endometrium. <i>Biochemical and Biophysical Research Communications</i> , 2020, 532, 101-107.	2.1	3
119	Toll-like Receptor 2 is Involved in Calcium Influx and Acrosome Reaction to Facilitate Sperm Penetration to Oocytes During <i>in vitro</i> Fertilization in Cattle. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 810961.	3.7	3
120	Induced Synaptotagmin (SYT) Protein Family Binds to Membrane SNAP25 to Facilitate Vesicle Secretion in Murine Granulosa/Cumulus Cells during Ovulation. <i>Journal of Mammalian Ova Research</i> , 2008, 25, 193-200.	0.1	2
121	The Expression and Roles of Semaphorin Type 3C in Granulosa Cells during The Luteinization Process. <i>Journal of Mammalian Ova Research</i> , 2014, 31, 31-39.	0.1	2
122	Time Dependent Changes in Progesterone Receptor Expression in Cumulus Cells During Meiotic Resumption of Porcine Oocytes. <i>Journal of Mammalian Ova Research</i> , 2003, 20, 113-117.	0.1	2
123	Artificial Insemination Trial of Frozen-Thawed Boar Spermatozoa with Thawing Solution Containing Seminal Plasma. <i>Nihon Yoton Gakkaishi</i> , 2011, 48, 164-168.	0.1	2
124	The Development of a Sperm Cryopreservation and Thawing Method Based on Species-Specific and Common Sperm Biology. <i>Journal of Mammalian Ova Research</i> , 2014, 31, 96-101.	0.1	1
125	ERK1/2 in Ovarian Granulosa Cells Are Essential for Female Fertility.. <i>Biology of Reproduction</i> , 2009, 81, 153-153.	2.7	1
126	The Drop in the cAMP Level Due to the Closure of Gap Junctional Communication Between Cumulus Cells and Oocytes is Essential for Meiotic Progression Beyond the MI Stage in Porcine Oocytes.. <i>Journal of Mammalian Ova Research</i> , 2001, 18, 99-105.	0.1	1

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127	ACTIVATION OF TOLL-LIKE RECEPTORS 2 AND 4 ON CLUMULUS CELLS OF OVULATED CUMULUS OOCYTE COMPLEXES STIMULATES PRODUCTION OF CYTOKINES/CHEMOKINES THAT CAN INDUCE SPERM CAPACITATION LEADING TO SUCCESSFUL FERTILIZATION. <i>Biology of Reproduction</i> , 2007, 77, 140-141.	2.7	1
128	The Relationship between the Level of Progesterone Secreted from Cumulus Cells and Oocyte Developmental Competence in In Vitro Matured Human Cumulus Oocyte Complexes. <i>Journal of Mammalian Ova Research</i> , 2012, 29, 41-47.	0.1	0
129	Neuregulin 1 Is a Novel Oocyte Maturation Regulatory Factor Expressed in Granulosa Cells During the Ovulation Process in Mice.. <i>Biology of Reproduction</i> , 2009, 81, 50-50.	2.7	0
130	The Cumulus Cell-Secreted Factor Neuregulin 1 Maintains the Cumulus Cell Function in Ovulated COCs To Enhance Fertilization and Developmental Competence in Porcine Oocytes.. <i>Biology of Reproduction</i> , 2009, 81, 512-512.	2.7	0
131	Intrauterine infusion of low levels of interferon γ on day δ 8 post δ estrus stimulates the bovine endometrium to secrete apolipoprotein δ 1: A possible implication for early embryo tolerance. <i>American Journal of Reproductive Immunology</i> , 0, , .	1.2	0