

# Masayuki Shimada

## List of Publications by Year in descending order

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Version: 2024-02-01

131  
papers

5,794  
citations

76294

40  
h-index

85498

71  
g-index

133  
all docs

133  
docs citations

133  
times ranked

4620  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Toll-like Receptor 2 is Involved in Calcium Influx and Acrosome Reaction to Facilitate Sperm Penetration to Oocytes During in vitro Fertilization in Cattle. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 810961.   | 1.8 | 3         |
| 2  | Female reproductive life span is extended by targeted removal of fibrotic collagen from the mouse ovary. <i>Science Advances</i> , 2022, 8, .   | 4.7 | 54        |
| 3  | 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.   | 1.3 | 29        |
| 4  | Saturated fatty acids accelerate linear motility through mitochondrial ATP production in bull sperm. <i>Reproductive Medicine and Biology</i> , 2021, 20, 289-298.  | 1.0 | 13        |
| 5  | Cortisol induces follicle regression, while FSH prevents cortisol-induced follicle regression in pigs. <i>Molecular Human Reproduction</i> , 2021, 27, .  | 1.3 | 5         |
| 6  | 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. | 1.0 | 6         |
| 7  | 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.   | 1.1 | 7         |
| 8  | LH Induces De Novo Cholesterol Biosynthesis via SREBP Activation in Granulosa Cells During Ovulation in Female Mice. <i>Endocrinology</i> , 2021, 162, .  | 1.4 | 10        |
| 9  | 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.  | 0.1 | 13        |
| 10 | Large-scale DNA demethylation occurs in proliferating ovarian granulosa cells during mouse follicular development. <i>Communications Biology</i> , 2021, 4, 1334.   | 2.0 | 13        |
| 11 | 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.   | 1.0 | 3         |
| 12 | Impact of lipopolysaccharide administration on luteinizing hormone/choriogonadotropin receptor (Lhcgr) expression in mouse ovaries. <i>Journal of Reproductive Immunology</i> , 2020, 142, 103193.  | 0.8 | 6         |
| 13 | 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.   | 5.5 | 24        |
| 14 | 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.  | 1.3 | 23        |
| 15 | Cutting the ovarian surface improves the responsiveness to exogenous hormonal treatment in aged mice. <i>Reproductive Medicine and Biology</i> , 2020, 19, 415-424.   | 1.0 | 5         |
| 16 | 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.  | 0.2 | 9         |
| 17 | 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.   | 0.6 | 4         |
| 18 | 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.   | 1.6 | 5         |

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|----|---|-----|-----------|
| 19 | Peptidoglycan Switches Off the TLR2-Mediated Sperm Recognition and Triggers Sperm Localization in the Bovine Endometrium. <i>Frontiers in Immunology</i> , 2020, 11, 619408.  | 2.2 | 10        |
| 20 | 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.  | 0.9 | 16        |
| 21 | 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.   | 0.5 | 13        |
| 22 | Sperm enter glands of preovulatory bovine endometrial explants and initiate inflammation. <i>Reproduction</i> , 2020, 159, 181-192.   | 1.1 | 29        |
| 23 | 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.   | 2.6 | 55        |
| 24 | 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.   | 1.3 | 71        |
| 25 | Cyclooxygenase-2 is acutely induced by CCAAT/enhancer-binding protein $\beta$ to produce prostaglandin E 2 and F 2 $\beta$ following gonadotropin stimulation in Leydig cells. <i>Molecular Reproduction and Development</i> , 2019, 86, 786-797. | 1.0 | 7         |
| 26 | TLR2/4 signaling pathway mediates sperm-induced inflammation in bovine endometrial epithelial cells in vitro. <i>PLoS ONE</i> , 2019, 14, e0214516.   | 1.1 | 50        |
| 27 | 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.   | 1.3 | 45        |
| 28 | 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.  | 0.1 | 26        |
| 29 | Transgenic mice specifically expressing amphiregulin in white adipose tissue showed less adipose tissue mass. <i>Genes To Cells</i> , 2018, 23, 136-145.  | 0.5 | 8         |
| 30 | 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.   | 1.4 | 25        |
| 31 | 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.   | 0.4 | 40        |
| 32 | A proinflammatory response of bovine endometrial epithelial cells to active sperm in vitro. <i>Molecular Reproduction and Development</i> , 2018, 85, 215-226.  | 1.0 | 41        |
| 33 | 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.                                | 1.0 | 25        |
| 34 | Induction of immune-related gene expression by seminal exosomes in the porcine endometrium. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 1094-1101.  | 1.0 | 56        |
| 35 | 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.  | 1.6 | 35        |
| 36 | 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.  | 1.1 | 29        |

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|----|--|-----|-----------|
| 37 | The stromal fibrosis in aging ovary. <i>Aging</i> , 2018, 10, 9-10.  | 1.4 | 20        |
| 38 | The acceleration of reproductive aging in <i>Nrg1</i> <sup>flox/flox</sup> ;Cyp19 <sup>Cre</sup> female mice. <i>Aging Cell</i> , 2017, 16, 1288-1299.   | 3.0 | 28        |
| 39 | Bovine embryo induces an anti-inflammatory response in uterine epithelial cells and immune cells &in vitro; possible involvement of interferon tau as an intermedator. <i>Journal of Reproduction and Development</i> , 2017, 63, 425-434.                   | 0.5 | 33        |
| 40 | 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.   | 1.4 | 46        |
| 41 | Neuregulin 1 Regulates Proliferation of Leydig Cells to Support Spermatogenesis and Sexual Behavior in Adult Mice. <i>Endocrinology</i> , 2016, 157, 4899-4913.  | 1.4 | 15        |
| 42 | 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.  | 1.2 | 23        |
| 43 | Roles of epidermal growth factor (EGF)-like factor in the ovulation process. <i>Reproductive Medicine and Biology</i> , 2016, 15, 201-216.   | 1.0 | 40        |
| 44 | Ovulation. , 2015, , 997-1021.   |     | 9         |
| 45 | 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         |
| 46 | 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.  | 1.2 | 229       |
| 47 | 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         |
| 48 | Targeted Disruption of <i>Nrg1</i> in Granulosa Cells Alters the Temporal Progression of Oocyte Maturation. <i>Molecular Endocrinology</i> , 2014, 28, 706-721.  | 3.7 | 26        |
| 49 | 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.                                       | 1.4 | 34        |
| 50 | 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         |
| 51 | 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.   | 1.6 | 40        |
| 52 | 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. | 0.5 | 39        |
| 53 | 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         |
| 54 | 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.   | 0.5 | 76        |

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|----|--|-----|-----------|
| 55 | 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        |
| 56 | Regulation of oocyte meiotic maturation by somatic cells. <i>Reproductive Medicine and Biology</i> , 2012, 11, 177-184.  | 1.0 | 8         |
| 57 | EGF-Like Factors Induce Expansion of the Cumulus Cell-Oocyte Complexes by Activating Calpain-Mediated Cell Movement. <i>Endocrinology</i> , 2012, 153, 3949-3959.  | 1.4 | 42        |
| 58 | 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.   | 0.6 | 26        |
| 59 | Endogenous acetaldehyde toxicity during antral follicular development in the mouse ovary. <i>Reproductive Toxicology</i> , 2012, 33, 322-330.  | 1.3 | 17        |
| 60 | 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        |
| 61 | 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.  | 0.6 | 26        |
| 62 | 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.                        | 1.2 | 32        |
| 63 | Toll-like receptors (TLR) 2 and 4 on human sperm recognize bacterial endotoxins and mediate apoptosis. <i>Human Reproduction</i> , 2011, 26, 2799-2806.  | 0.4 | 117       |
| 64 | 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        |
| 65 | 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         |
| 66 | Possible involvement of phosphatidylinositol 3-kinase in the maintenance of metaphase II arrest in porcine oocytes matured in vitro. <i>Animal Science Journal</i> , 2010, 81, 42-47.  | 0.6 | 4         |
| 67 | 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. | 0.5 | 33        |
| 68 | 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       |
| 69 | 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         |
| 70 | 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.  | 0.9 | 54        |
| 71 | 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         |
| 72 | Interleukin-6: An Autocrine Regulator of the Mouse Cumulus Cell-Oocyte Complex Expansion Process. <i>Endocrinology</i> , 2009, 150, 3360-3368.   | 1.4 | 114       |

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|----|---|-----|-----------|
| 73 | 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.   | 1.3 | 58        |
| 74 | 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.  | 0.6 | 32        |
| 75 | 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.  | 0.9 | 72        |
| 76 | MAPK3/1 (ERK1/2) in Ovarian Granulosa Cells Are Essential for Female Fertility. <i>Science</i> , 2009, 324, 938-941.  | 6.0 | 559       |
| 77 | Cumulus Oocyte Complex: Cumulus Cells Regulate Oocyte Growth and Maturation. <i>Journal of Mammalian Ova Research</i> , 2009, 26, 189-194.  | 0.1 | 6         |
| 78 | ERK1/2 in Ovarian Granulosa Cells Are Essential for Female Fertility.. <i>Biology of Reproduction</i> , 2009, 81, 153-153.  | 1.2 | 1         |
| 79 | 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.   | 1.2 | 0         |
| 80 | 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.   | 1.2 | 0         |
| 81 | The involvement of the Toll-like receptor family in ovulation. <i>Journal of Assisted Reproduction and Genetics</i> , 2008, 25, 223-228.  | 1.2 | 69        |
| 82 | Immune-like mechanisms in ovulation. <i>Trends in Endocrinology and Metabolism</i> , 2008, 19, 191-196.   | 3.1 | 123       |
| 83 | 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.  | 1.2 | 129       |
| 84 | 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.   | 1.2 | 155       |
| 85 | 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.  | 1.1 | 92        |
| 86 | 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         |
| 87 | Hormone-Induced Expression of Tumor Necrosis Factor $\alpha$ -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. | 1.4 | 73        |
| 88 | 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        |
| 89 | Involvement of Ca <sup>2+</sup> -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.   | 0.9 | 17        |
| 90 | Assessment of human oocyte developmental competence by cumulus cell morphology and circulating hormone profile. <i>Reproductive BioMedicine Online</i> , 2007, 14, 49-56.   | 1.1 | 41        |

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|-----|--|-----|-----------|
| 91  | Fecal Progesterone and Estrone During Pregnancy in a Giraffe: A Case Report. <i>Journal of Reproduction and Development</i> , 2007, 53, 159-164.   | 0.5 | 11        |
| 92  | ACTIVATION OF TOLL-LIKE RECEPTORS 2 AND 4 ON CUMULUS 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.              | 1.2 | 1         |
| 93  | 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       |
| 94  | 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       |
| 95  | 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       |
| 96  | Timing of MAP kinase inactivation effects on emission of polar body in porcine oocytes activated by Ca <sup>2+</sup> ionophore. <i>Molecular Reproduction and Development</i> , 2005, 70, 64-69.   | 1.0 | 11        |
| 97  | Gonadotropin-Induced $\beta$ -14-Reductase and $\beta$ -7-Reductase Gene Expression in Cumulus Cells during Meiotic Resumption of Porcine Oocytes. <i>Endocrinology</i> , 2005, 146, 186-194.  | 1.4 | 26        |
| 98  | 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.  | 1.1 | 41        |
| 99  | Mice Null for Frizzled4 (Fzd4 <sup>-/-</sup> ) Are Infertile and Exhibit Impaired Corpora Lutea Formation and Function1. <i>Biology of Reproduction</i> , 2005, 73, 1135-1146.   | 1.2 | 119       |
| 100 | TAF4b, a TBP associated factor, is required for oocyte development and function. <i>Developmental Biology</i> , 2005, 288, 405-419.  | 0.9 | 53        |
| 101 | Enzyme immunoassay of progesterone in the feces from beef cattle to monitor the ovarian cycle. <i>Animal Reproduction Science</i> , 2005, 87, 1-10.  | 0.5 | 30        |
| 102 | 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.                        | 1.4 | 63        |
| 103 | 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.   | 1.1 | 50        |
| 104 | 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.  | 1.1 | 19        |
| 105 | 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 <sup>2+</sup> Ionophore1. <i>Biology of Reproduction</i> , 2004, 70, 797-804. | 1.2 | 30        |
| 106 | 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.                                    | 0.6 | 3         |
| 107 | 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.   | 0.9 | 26        |
| 108 | LH reduces proliferative activity of cumulus cells and accelerates GVBD of porcine oocytes. <i>Molecular and Cellular Endocrinology</i> , 2003, 209, 43-50.  | 1.6 | 30        |



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|-----|---|-----|-----------|
| 109 | Luteinizing Hormone Receptor Formation in Cumulus Cells Surrounding Porcine Oocytes and Its Role During Meiotic Maturation of Porcine Oocytes1. <i>Biology of Reproduction</i> , 2003, 68, 1142-1149.   | 1.2 | 92        |
| 110 | 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.  | 1.2 | 50        |
| 111 | Production of Progesterone from De Novo-Synthesized Cholesterol in Cumulus Cells and Its Physiological Role During Meiotic Resumption of Porcine Oocytes1. <i>Biology of Reproduction</i> , 2003, 68, 1193-1198.  | 1.2 | 99        |
| 112 | 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.  | 1.2 | 37        |
| 113 | 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         |
| 114 | Effects of Estrone Sulfate Administration on Reproductive Functions in Male Japanese Quail. <i>Journal of Poultry Science</i> , 2003, 40, 247-253.  | 0.7 | 11        |
| 115 | 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.  | 1.3 | 104       |
| 116 | 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.  | 1.1 | 62        |
| 117 | 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.   | 1.0 | 60        |
| 118 | Both Ca <sup>2+</sup> -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         |
| 119 | Survival of boar spermatozoa frozen in diluents of varying osmolality. <i>Theriogenology</i> , 2001, 56, 447-458.   | 0.9 | 27        |
| 120 | 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. | 1.2 | 32        |
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