Marc-AndrÃ© Sirard

List of Publications by Year
in descending order

205 papers	9,744 citations	28274 55 h-index	48315 88 g-index
207 all docs	207 docs citations	207 times ranked	5133 citing authors

#	Article	IF	Citations
1	Contribution of the oocyte to embryo quality. Theriogenology, 2006, 65, 126-136.	2.1	436
2	Oocyte and follicular morphology as determining characteristics for developmental competence in bovine oocytes. Molecular Reproduction and Development, 1995, 41, 54-62.	2.0	390
3	Timing of Nuclear Progression and Protein Synthesis Necessary for Meiotic Maturation of Bovne Oocytes1. Biology of Reproduction, 1989, 40, 1257-1263.	2.7	273
4	The Culture of Bovine Oocytes to Obtain Developmentally Competent Embryos1. Biology of Reproduction, 1988, 39, 546-552.	2.7	261
5	Thiols prevent H2O2-mediated loss of sperm motility in cryopreserved bull semen. Theriogenology, 2001, 56, 275-286.	2.1	243
6	Large-scale transcriptional analysis of bovine embryo biopsies in relation to pregnancy success after transfer to recipients. Physiological Genomics, 2006, 28, 84-96.	2.3	211
7	Identification of differentially expressed markers in human follicular cells associated with competent oocytes. Human Reproduction, 2008, 23, 1118-1127.	0.9	207
8	Manipulation of Follicular Development to Produce Developmentally Competent Bovine Oocytes1. Biology of Reproduction, 2002, 66, 38-43.	2.7	192
9	Quantification of Housekeeping Transcript Levels During the Development of Bovine Preimplantation Embryos1. Biology of Reproduction, 2002, 67, 1465-1472.	2.7	182
10	Antioxidant requirements for bovine oocytes varies during in vitro maturation, fertilization and development. Theriogenology, 2003, 59, 939-949.	2.1	181
11	Identification of Potential Markers of Oocyte Competence Expressed in Bovine Cumulus Cells Matured with Follicle-Stimulating Hormone and/or Phorbol Myristate Acetate In Vitro. Biology of Reproduction, 2008, 79, 209-222.	2.7	172
12	In vitro production of bovine embryos: Developmental competence is acquired before maturation. Theriogenology, 1997, 47, 1061-1075.	2.1	163
13	In Vitro Inhibition of Oocyte Nuclear Maturation in the Bovine1. Biology of Reproduction, 1988, 39, 229-234.	2.7	148
14	Resumption of meiosis: mechanism involved in meiotic progression and its relation with developmental competence. Theriogenology, 2001, 55, 1241-1254.	2.1	146
15	Making recombinant proteins in animals â€“ different systems, different applications. Trends in Biotechnology, 2003, 21, 394-399.	9.3	122
16	OMICS in assisted reproduction: possibilities and pitfalls. Molecular Human Reproduction, 2010, 16, 513-530.	2.8	113
17	Effect of the Absence or Presence of Various Protein Supplements on Further Development of Bovine Oocytes During In Vitro Maturation1. Biology of Reproduction, 2002, 66, 901-905.	2.7	112
18	Oocyte maturation and IVF in cattle. Animal Reproduction Science, 1996, 42, 417-426.	1.5	109

#	Article	IF	Citations
19	Transcription Factor Expression Patterns in Bovine In Vitro-Derived Embryos Prior to Maternal-Zygotic Transition1. Biology of Reproduction, 2004, 70, 1701-1709.	2.7	108
20	Reactive oxygen species-mediated loss of bovine sperm motility in egg yolk Tris extender: protection by pyruvate, metal chelators and bovine liver or oviductal fluid catalase. Theriogenology, 2002, 57, 1105-1122.	2.1	97
21	Quantification of Histone Acetyltransferase and Histone Deacetylase Transcripts During Early Bovine Embryo Development1. Biology of Reproduction, 2003, 68, 383-389.	2.7	97
22	Electroporation of bovine spermatozoa to carry foreign DNA in oocytes. Molecular Reproduction and Development, 1991, 29, 6-15.	2.0	94
23	Resumption of Meiosis is Initiated by the Accumulation of Cyclin B in Bovine Oocytes1. Biology of Reproduction, 1996, 55, 1427-1436.	2.7	94
24	Analysis of microRNAs and their precursors in bovine early embryonic development. Molecular Human Reproduction, 2012, 18, 425-434.	2.8	92
25	Combining resources to obtain a comprehensive survey of the bovine embryo transcriptome through deep sequencing and microarrays. Molecular Reproduction and Development, 2011, 78, 651-664.	2.0	91
26	The time interval between FSH administration and ovarian aspiration influences the development of cattle oocytes. Theriogenology, 1999, 51, 699-708.	2.1	86
27	Effects of follicular cells on oocyte maturation. II: Theca cell inhibition of bovine oocyte maturation in vitro. Biology of Reproduction, 1996, 54, 22-28.	2.7	85
28	Gene expression profile of cumulus cells derived from cumulus - oocyte complexes matured either in vivo or in vitro. Reproduction, Fertility and Development, 2009, 21, 451.	0.4	83
29	In Vitro Fertilization of Bovine Follicular Oocytes Obtained by Laparoscopy1. Biology of Reproduction, 1985, 33, 487-494.	2.7	81
30	Effect of Type 3 and Type 4 Phosphodiesterase Inhibitors on the Maintenance of Bovine Oocytes in Meiotic Arrest1. Biology of Reproduction, 2002, 66, 180-184.	2.7	81
31	Impaired Maturation, Fertilization, and Embryonic Development of Porcine Oocytes Following Exposure to an Environmentally Relevant Organochlorine Mixture1. Biology of Reproduction, 2001, 65, 554-560.	2.7	80
32	Superovulation can reduce the developmental competence of bovine embryos. Theriogenology, 1996, 46, 1191-1203.	2.1	78
33	The study of mammalian oocyte competence by transcriptome analysis: progress and challenges. Molecular Human Reproduction, 2014, 20, 103-116.	2.8	77
34	Granulosa Cells Inhibit the Resumption of Meiosis in Bovine Oocytes in Vitro1. Biology of Reproduction, 1990, 43, 777-783.	2.7	76
35	Localization of the Chaperone Proteins GRP78 and HSP60 on the Luminal Surface of Bovine Oviduct Epithelial Cells and Their Association with Spermatozoa1. Biology of Reproduction, 2004, 71, 1879-1889.	2.7	76
36	Genome-Wide DNA Methylation Patterns of Bovine Blastocysts Developed In Vivo from Embryos Completed Different Stages of Development In Vitro. PLoS ONE, 2015, 10, e0140467.	2.5	76

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37	Ontogeny and Cellular Localization of 125I-Labeled Insulin-Like Growth Factor-I, 125I-Labeled Follicle-Stimulating Hormone, and 125I-Labeled Human Chorionic Gonadotropin Binding Sites in Ovaries from Bovine Fetuses and Neonatal Calves1. Biology of Reproduction, 1992, 47, 814-822.	2.7	74
38	Binding of a Bovine Oviductal Fluid Catalase to Mammalian Spermatozoa1. Biology of Reproduction, 1998, 58, 747-753.	2.7	74
39	Differential Display and Suppressive Subtractive Hybridization Used to Identify Granulosa Cell Messenger RNA Associated with Bovine Oocyte Developmental Competence1. Biology of Reproduction, 2001, 64, 1812-1820.	2.7	73
40	Biomarkers of human oocyte developmental competence expressed in cumulus cells before ICSI: a preliminary study. Journal of Assisted Reproduction and Genetics, 2011, 28, 173-188.	2.5	73
41	Isolation of bovine herpesvirus-1 (BHV-1) and bovine viral diarrhea virus (BVDV) in association with the in vitro production of bovine embryos. Theriogenology, 1993, 40, 531-538.	2.1	71
42	Genomic assessment of follicular marker genes as pregnancy predictors for human IVF. Molecular Human Reproduction, 2010, 16, 87-96.	2.8	70
43	Fertilizing Ability of Bovine Spermatozoa Cocultured with Oviduct Epithelial Cells1. Biology of Reproduction, 1995, 52, 156-162.	2.7	69
44	Controlling meiotic resumption in bovine oocytes: A review. Theriogenology, 1998, 49, 483-497.	2.1	69
45	The effect of heparin on motility parameters and protein phosphorylation during bovine sperm capacitation. Theriogenology, 2001, 55, 823-835.	2.1	69
46	Follicle environment and quality of in vitro matured oocytes. Journal of Assisted Reproduction and Genetics, 2011, 28, 483-488.	2.5	69
47	Effects of cumulus cells on male pronuclear formation and subsequent early development of bovine oocytes in vitro. Theriogenology, 1994, 41, 1499-1508.	2.1	68
48	Analysis of Atresia in Bovine Follicles Using Different Methods: Flow Cytometry, Enzyme-Linked Immunosorbent Assay, and Classic Histology1. Biology of Reproduction, 1996, 54, 631-637.	2.7	62
49	Effects of follicular cells on oocyte maturation. I: Effects of follicular hemisections on bovine oocyte maturation in vitro. Biology of Reproduction, 1996, 54, 16-21.	2.7	61
50	Identification of Novel and Known Oocyte-Specific Genes Using Complementary DNA Subtraction and Microarray Analysis in Three Different Species1. Biology of Reproduction, 2005, 73, 63-71.	2.7	61
51	Effect of cycloheximide, 6-DMAP, roscovitine and butyrolactone I on resumption of meiosis in porcine oocytes. Theriogenology, 2003, 60, 1049-1058.	2.1	60
52	40 years of bovine IVF in the new genomic selection context. Reproduction, 2018, 156, R1-R7.	2.6	60
53	In vitro fertilization of bovine oocytes matured in vivo and collected at laparoscopy. Theriogenology, 1986, 25, 117-133.	2.1	59
54	The sex ratios of bovine embryos produced in vivo and in vitro. Theriogenology, 1991, 36, 779-788.	2.1	59

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55	The effect of sera, bovine serum albumin and follicular cells on in vitro maturation and fertilization of porcine oocytes. Theriogenology, 1992, 37, 779-790.	2.1	57
56	Genome-wide screening of DNA methylation in bovine blastocysts with different kinetics of development. Epigenetics and Chromatin, 2018, 11, 1.	3.9	56
57	The time interval between FSH-P administration and slaughter can influence the developmental competence of beef heifer oocytes. Theriogenology, 1997, 48, 803-813.	2.1	55
58	Expression of Cyclin B1 Messenger RNA Isoforms and Initiation of Cytoplasmic Polyadenylation in the Bovine Oocyte1. Biology of Reproduction, 2005, 72, 1037-1044.	2.7	55
59	Individual bovine inÂvitro embryo production and cumulus cell transcriptomic analysis to distinguish cumulus-oocyte complexes with high or low developmental potential. Theriogenology, 2015, 83, 228-237.	2.1	54
60	Effect of fresh or cultured follicular fractions on meiotic resumption in bovine oocytes. Theriogenology, 1992, 37, 39-57.	2.1	53
61	In vitro-cultured bovine granulosa and oviductal cells secrete sperm motility-maintaining factor(s). Molecular Reproduction and Development, 1994, 37, 54-60.	2.0	51
62	Effect of ovarian stimulation on oocyte gene expression in cattle. Theriogenology, 2012, 77, 1928-1938.	2.1	51
63	Effect of cow age on the inÂvitro developmental competence of oocytes obtained after FSH stimulation and coasting treatments. Theriogenology, 2016, 86, 1240-1246.	2.1	51
64	The influence of cAMP before or during bovine oocyte maturation on embryonic developmental competence. Theriogenology, 2001, 55, 1733-1743.	2.1	50
65	Spermatozoa DNA methylation patterns differ due to peripubertal age in bulls. Theriogenology, 2018, 106, 21-29.	2.1	50
66	Global gene expression in granulosa cells of growing, plateau and atretic dominant follicles in cattle. Reproductive Biology and Endocrinology, 2015, 13, 17.	3.3	49
67	Successful in vitro maturation of oocytes: a matter of follicular differentiation. Biology of Reproduction, 2018, 98, 162-169.	2.7	49
68	Characterization and Identification of Epididymal Factors That Protect Ejaculated Bovine Sperm During In Vitro Storage1. Biology of Reproduction, 2002, 66, 159-166.	2.7	48
69	Effects of different kinases and phosphatases on nuclear and cytoplasmic maturation of bovine oocytes. Molecular Reproduction and Development, 1995, 42, 114-121.	2.0	47
70	Quantification of Cyclin B1 and p34cdc2 in Bovine Cumulus-Oocyte Complexes and Expression Mapping of Genes Involved in the Cell Cycle by Complementary DNA Macroarrays1. Biology of Reproduction, 2002, 67, 1456-1464.	2.7	47
71	Birth of calves after in vitro fertilisation using laparoscopy and rabbit oviduct incubation of zygotes. Veterinary Record, 1986, 119, 167-169.	0.3	46
72	Ontogeny and Cellular Localization of 125I-Labeled Basic Fibroblast Growth Factor and 125I-Labeled Epidermal Growth Factor Binding Sites in Ovaries from Bovine Fetuses and Neonatal Calves1. Biology of Reproduction, 1992, 47, 807-813.	2.7	45

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73	Maternal housekeeping proteins translated during bovine oocyte maturation and early embryo development. Proteomics, 2006, 6, 3811-3820.	2.2	45
74	The effects of 17Î²-estradiol and protein supplement on the response to purified and recombinant follicle stimulating hormone in bovine oocytes. Zygote, 2002, 10, 65-71.	1.1	44
75	Temporary inhibition of meiosis resumption in vitro by adenylate cyclase stimulation in immature bovine oocytes. Theriogenology, 1990, 33, 757-767.	2.1	43
76	Capacitation in vitro of bovine spermatozoa by oviduct epithelial cell monolayer conditioned medium. Molecular Reproduction and Development, 1995, 42, 318-324.	2.0	43
77	Influence of oviductal cells and conditioned medium on porcine gametes. Zygote, 2000, 8, 139-144.	1.1	43
78	An Environmentally Relevant Organochlorine Mixture Impairs Sperm Function and Embryo Development in the Porcine Model1. Biology of Reproduction, 2002, 67, 80-87.	2.7	43
79	Identification of follicular marker genes as pregnancy predictors for human IVF: new evidence for the involvement of luteinization process. Molecular Human Reproduction, 2010, 16, 548-556.	2.8	43
80	Follicle-stimulating hormone-induced estradiol and progesterone production by bovine antral and mural granulosa cells cultured in vitro in a completely defined medium.. Journal of Animal Science, 1996, 74, 3012.	0.5	42
81	Effect of Bovine Oviduct Epithelial Cell Apical Plasma Membranes on Sperm Function Assessed by a Novel Flow Cytometric Approach1. Biology of Reproduction, 2002, 67, 1125-1132.	2.7	41
82	Epigenetic modification with trichostatin A does not correct specific errors of somatic cell nuclear transfer at the transcriptomic level; highlighting the non-random nature of oocyte-mediated reprogramming errors. BMC Genomics, 2016, 17, 16.	2.8	41
83	Transcriptome profiling of bovine inner cell mass and trophectoderm derived from in vivo generated blastocysts. BMC Developmental Biology, 2015, 15, 49.	2.1	40
84	Chromatin remodelling and histone _mRNA accumulation in bovine germinal vesicle oocytes. Molecular Reproduction and Development, 2015, 82, 450-462.	2.0	38
85	Interaction between differential gene expression profile and phenotype in bovine blastocysts originating from oocytes exposed to elevated non-esterified fatty acid concentrations. Reproduction, Fertility and Development, 2015, 27, 372.	0.4	37
86	The age of the bull influences the transcriptome and epigenome of blastocysts produced by IVF. Theriogenology, 2020, 144, 122-131.	2.1	36
87	Cytogenetic study of parthenogenetically activated bovine oocytes matured in vivo and in vitro. Gamete Research, 1988, 20, 265-274.	1.7	35
88	Gene Expression Analysis of Bovine Oocytes With High Developmental Competence Obtained From FSHâ€Stimulated Animals. Molecular Reproduction and Development, 2013, 80, 428-440.	2.0	35
89	Characterization of FSH signalling networks in bovine cumulus cells: a perspective on oocyte competence acquisition. Molecular Human Reproduction, 2015, 21, 688-701.	2.8	35
90	Effect of growth factors and CO-culture with ovarian medulla on the activation of primordial follicles in explants of bovine ovarian cortex. Theriogenology, 2000, 54, 587-598.	2.1	34

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91	Transcriptome analysis of bovine oocytes from distinct follicle sizes: Insights from correlation network analysis. Molecular Reproduction and Development, 2016, 83, 558-569.	2.0	34
92	Distribution and dynamics of mitochondrial DNA methylation in oocytes, embryos and granulosa cells. Scientific Reports, 2019, 9, 11937.	3.3	34
93	Cumulus cell gene expression associated with pre-ovulatory acquisition of developmental competence in bovine oocytes. Reproduction, Fertility and Development, 2014, 26, 855.	0.4	33
94	The impact of exposure to serum lipids during inÂvitro culture on the transcriptome of bovine blastocysts. Theriogenology, 2014, 81, 712-722.e3.	2.1	33
95	Origin of bovine follicular fluid and its effect during in vitro maturation on the developmental competence of bovine oocytes. Theriogenology, 2004, 62, 1596-1606.	2.1	32
96	Transcriptomic analysis of in vivo and in vitro produced bovine embryos revealed a developmental change in cullin 1 expression during maternal-to-embryonic transition. Theriogenology, 2011, 75, 1582-1595.	2.1	32
97	Analysis of the gene expression pattern of bovine blastocysts at three stages of development. Molecular Reproduction and Development, 2011, 78, 226-240.	2.0	31
98	Meta-analysis of gene expression profiles in granulosa cells during folliculogenesis. Reproduction, 2016, 151, R103-R110.	2.6	31
99	Decreased Binding of Calmodulin to Bull Sperm Proteins during Heparin-Induced Capacitation1. Biology of Reproduction, 1990, 42, 483-489.	2.7	30
100	Identification of Porcine Oocyte Proteins That Are Associated with Somatic Cell Nuclei after Co-Incubation1. Biology of Reproduction, 2004, 71, 1279-1289.	2.7	30
101	Transcriptomic signature to oxidative stress exposure at the time of embryonic genome activation in bovine blastocysts. Molecular Reproduction and Development, 2013, 80, 297-314.	2.0	30
102	The influence of <i>in vitro</i> fertilization and embryo culture on the embryo epigenetic constituents and the possible consequences in the bovine model. Journal of Developmental Origins of Health and Disease, 2017, 8, 411-417.	1.4	30
103	Seminal vesicle production and secretion of growth hormone into seminal fluid. Nature Biotechnology, 1999, 17, 1087-1090.	17.5	29
104	The dynamics of gene products fluctuation during bovine preâ€hatching development. Molecular Reproduction and Development, 2009, 76, 762-772.	2.0	29
105	Transcriptome meta-analysis of three follicular compartments and its correlation with ovarian follicle maturity and oocyte developmental competence in cows. Physiological Genomics, 2016, 48, 633-643.	2.3	28
106	The co-culture of cumulus-enclosed bovine oocytes and hemi-sections of follicles: Effects on meiotic resumption. Theriogenology, 1993, 40, 933-942.	2.1	27
107	Effects of cumulus cells and follicle-stimulating hormone during in vitro maturation on parthenogenetic activation of bovine oocytes. Molecular Reproduction and Development, 1995, 42, 425-431.	2.0	27
108	Granulosa cell function and oocyte competence: Super-follicles, super-moms and super-stimulation in cattle. Animal Reproduction Science, 2014, 149, 80-89.	1.5	27

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109	Somatic environment and germinal differentiation in antral follicle: The effect of FSH withdrawal and basal LH on oocyte competence acquisition in cattle. Theriogenology, 2016, 86, 54-61.	2.1	27
110	Effect of coculturing spermatozoa with oviductal cells on the incidence of polyspermy in pig in vitro fertilization. Molecular Reproduction and Development, 1995, 41, 360-367.	2.0	26
111	Modulation of Postthaw Motility, Survival, Calcium Uptake, and Fertility of Bovine Sperm by Magnesium and Manganese. Journal of Dairy Science, 1996, 79, 2163-2169.	3.4	26
112	Effect of microinjection time during postfertilization S-phase on bovine embryonic development. Molecular Reproduction and Development, 1995, 41, 184-194.	2.0	24
113	Role of the Cyclic Adenosine Monophosphate-Dependent Protein Kinase in the Control of Meiotic Resumption in Bovine Oocytes Cultured with Thecal Cell Monolayers1. Biology of Reproduction, 1997, 56, 1363-1369.	2.7	24
114	Evolutionary conservation of the oocyte transcriptome among vertebrates and its implications for understanding human reproductive function. Molecular Human Reproduction, 2013, 19, 369-379.	2.8	24
115	Transcriptional characteristics of different sized follicles in relation to embryo transferability: potential role of hepatocyte growth factor signalling. Molecular Human Reproduction, 2016, 22, 475-484.	2.8	24
116	Sperm miRNAsâ€" potential mediators of bull age and early embryo development. BMC Genomics, 2020, 21, 798.	2.8	24
117	Origin of the follicular fluid added to the media during bovine IVM influences embryonic development. Theriogenology, 1995, 44, 85-94.	2.1	22
118	The influence of cumulus-oocyte complex morphology and meiotic inhibitors on the kinetics of nuclear maturation in cattle. Theriogenology, 2001, 55, 911-922.	2.1	22
119	Providing a stable methodological basis for comparing transcript abundance of developing embryos using microarrays. Molecular Human Reproduction, 2010, 16, 601-616.	2.8	22
120	FSH in vitro versus LH in vivo: similar genomic effects on the cumulus. Journal of Ovarian Research, 2013, 6, 68.	3.0	22
121	Effect of an environmentally relevant metabolized organochlorine mixture on porcine cumulusâ€"oocyte complexes. Reproductive Toxicology, 2007, 23, 145-152.	2.9	21
122	Discovery, identification and sequence analysis of RNAs selected for very short or long poly A tail in immature bovine oocytes. Molecular Human Reproduction, 2014, 20, 127-138.	2.8	21
123	Effects of intramuscular administration of folic acid and vitamin B12 on granulosa cells gene expression in postpartum dairy cows. Journal of Dairy Science, 2015, 98, 7797-7809.	3.4	21
124	The effect of energy balance on the transcriptome of bovine granulosa cells at 60Âdays postpartum. Theriogenology, 2015, 84, 1350-1361.e6.	2.1	21
125	Ovarian morphological conditions and the effect of injection of human chorionic gonadotropin on ovulation rates in prepuberal gilts with two morphologically different ovarian types2. Journal of Animal Science, 1991, 69, 3774-3779.	0.5	20
126	Differential Response to Gonadotropins and Prostaglandin E2 in Ovarian Tissue during Prenatal and Postnatal Development in Cattle1. Biology of Reproduction, 1992, 46, 1034-1041.	2.7	20

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127	The use of ejaculated boar semen after freezing in 2 or 6% glucerol for in vitro fertilization of porcine oocytes matured in vitro. Theriogenology, 1992, 38, 1065-1075.	2.1	20
128	Protein synthesis is not required for male pronuclear formation in bovine zygotes. Zygote, 1996, 4, 41-48.	1.1	19
129	Immunoneutralization of Transforming Growth Factor Î± Present in Bovine Follicular Fluid Prevents the Suppression of the Follicle-Stimulating Hormone-Induced Production of Estradiol by Bovine Granulosa Cells Cultured in Vitro1. Biology of Reproduction, 1997, 57, 341-346.	2.7	19
130	Transcriptomic analysis of cyclic AMP response in bovine cumulus cells. Physiological Genomics, 2015, 47, 432-442.	2.3	19
131	Influence of Follicular Wall on Meiotic Resumption of Bovine Oocytes When Cultured Inside or Outside Hemi-Sections.. Journal of Reproduction and Development, 1994, 40, 125-132.	1.4	19
132	Effects of estrous cycle, steroids and localization of oviductal cells on in vitro secretion of sperm motility factor(s). Theriogenology, 1995, 44, 119-128.	2.1	18
133	Responses of bovine early embryos to S-adenosyl methionine supplementation in culture. Epigenomics, 2016, 8, 1039-1060.	2.1	18
134	Regulation of <i>ATF1</i> and <i>ATF2</i> transcripts by sequences in their 3â€² untranslated region in cleavageâ€stage cattle embryos. Molecular Reproduction and Development, 2017, 84, 296-309.	2.0	18
135	Real-time monitoring of aRNA production during T7 amplification to prevent the loss of sample representation during microarray hybridization sample preparation. Nucleic Acids Research, 2009, 37, e65-e65.	14.5	17
136	Gene expression analysis of bovine oocytes at optimal coasting time combined with GnRH antagonist during theÂno-FSH period. Theriogenology, 2014, 81, 1092-1100.	2.1	17
137	Insulin during inÂvitro oocyte maturation has an impact on development, mitochondria, and cytoskeleton in bovine day 8 blastocysts. Theriogenology, 2017, 101, 15-25.	2.1	17
138	Effects of gonadotropin treatment on ovarian follicle growth, oocyte quality and in vitro fertilization of oocytes in prepubertal gilts. Theriogenology, 1996, 46, 717-726.	2.1	16
139	Epithelial and stromal uterine cells cultured in vitro protect bovine sperm from hydrogen peroxide. Theriogenology, 2000, 54, 355-369.	2.1	16
140	Transcriptomic evaluation of bovine blastocysts obtained from peri-pubertal oocyte donors. Theriogenology, 2017, 93, 111-123.	2.1	16
141	Barriers to the use of toxicogenomics data in human health risk assessment: A survey of Canadian risk assessors. Regulatory Toxicology and Pharmacology, 2017, 85, 119-123.	2.7	16
142	Transcriptomic analysis of gene cascades involved in protein kinase A and C signaling in the KGN line of human ovarian granulosa tumor cellsâ€. Biology of Reproduction, 2017, 96, 855-865.	2.7	16
143	Gene expression analysis of follicular cells revealed inflammation as a potential IVF failure cause. Journal of Assisted Reproduction and Genetics, 2019, 36, 1195-1210.	2.5	16
144	Embryonic response to high beta-hydroxybutyrate (BHB) levels in postpartum dairy cows. Domestic Animal Endocrinology, 2020, 72, 106431.	1.6	16

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145	Evaluation of virus decontamination techniques for porcine embryos produced in vitro. Theriogenology, 2005, 63, 2343-2355.	2.1	15
146	Rapidly cleaving bovine twoâ€cell embryos have better developmental potential and a distinctive mRNA pattern. Molecular Reproduction and Development, 2014, 81, 31-41.	2.0	15
147	Stable reference genes in granulosa cells of bovine dominant follicles during follicular growth, FSH stimulation and maternal aging. Reproduction, Fertility and Development, 2016, 28, 795.	0.4	15
148	Accumulation of Chromatin Remodelling Enzyme and Histone Transcripts in Bovine Oocytes. Results and Problems in Cell Differentiation, 2017, 63, 223-255.	0.7	15
149	Folliculogenesis and acquisition of oocyte competence in cows. Animal Reproduction, 2019, 16, 449-454.	1.0	15
150	Protein phosphorylation is essential for formation of male pronucleus in bovine oocytes. Molecular Reproduction and Development, 1999, 52, 43-49.	2.0	14
151	The effects of repeated laparoscopic surgery used for ovarian examination and follicular aspiration in cows. Animal Reproduction Science, 1985, 9, 25-30.	1.5	13
152	Developmental potential of early bovine zygotes submitted to centrifugation and microinjection following in vitro maturation of oocytes. Theriogenology, 1990, 34, 417-425.	2.1	13
153	Follicle capacitation: a meta-analysis to investigate the transcriptome dynamics following follicle-stimulating hormone decline in bovine granulosa cellsâ€. Biology of Reproduction, 2018, 99, 877-887.	2.7	13
154	Manipulation of chromosome condensation by protein synthesis inhibitors and cyclic AMP during maturation of bovine oocytes. Theriogenology, 1994, 41, 819-827.	2.1	11
155	Transcriptome analysis of bovine granulosa cells of preovulatory follicles harvested 30, 60, 90, and 120Âdays postpartum. Theriogenology, 2014, 82, 580-591.e5.	2.1	11
156	Effects of Inhibition of Meiotic Resumption upon the Subsequent Development of Bovine Oocytes In Vitro.. Journal of Reproduction and Development, 1995, 41, 255-262.	1.4	11
157	Epigenetic inheritance of acquired traits through DNA methylation. Animal Frontiers, 2021, 11, 19-27.	1.7	11
158	Ovulation and follicular growth in gonadotropin-treated gilts followed by in vitro fertilization and development of their oocytes. Theriogenology, 2000, 53, 1421-1437.	2.1	10
159	Low concentrations of bromodichloromethane induce a toxicogenomic response in porcine embryos in vitro. Reproductive Toxicology, 2016, 66, 44-55.	2.9	10
160	Mechanisms involved in porcine early embryo survival following ethanol exposure. Toxicological Sciences, 2017, 156, kfw256.	3.1	10
161	Metabolic stress induces modifications in the epigenetic program of preimplantation bovine embryos. Molecular Reproduction and Development, 2018, 85, 117-127.	2.0	10
162	Identification and characterization of a novel bovine oocyte-specific secreted protein gene. Gene, 2006, 375, 44-53.	2.2	9

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163	Availability, Quality, and Relevance of Toxicogenomics Data for Human Health Risk Assessment: A Scoping Review of the Literature on Trihalomethanes. Toxicological Sciences, 2018, 163, 364-373.	3.1	9
164	DNA methylation pattern of bovine blastocysts associated with hyperinsulinemia in vitro. Molecular Reproduction and Development, 2018, 85, 599-611.	2.0	9
165	Specific imprinted genes demethylation in association with oocyte donorâ€™s age and culture conditions in bovine embryos assessed at day 7 and 12 post insemination. Theriogenology, 2020, 158, 321-330.	2.1	9
166	An environmentally relevant mixture of organochlorines, their metabolites and effects on preimplantation development of porcine embryos. Reproductive Toxicology, 2008, 25, 361-366.	2.9	8
167	Gene expression analysis of bovine blastocysts produced by parthenogenic activation or fertilisation. Reproduction, Fertility and Development, 2011, 23, 591.	0.4	8
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