Marc-Andr Sirard

List of Publications by Citations

199 papers	8,199 citations	52 h-index	82 g-index
207 ext. papers	8,843 ext. citations	3.2 avg, IF	6.15 L-index

#	Paper	IF	Citations
199	Contribution of the oocyte to embryo quality. *Theriogenology*, **2006**, 65, 126-36	2.8	377
198	Oocyte and follicular morphology as determining characteristics for developmental competence in bovine oocytes. *Molecular Reproduction and Development*, **1995**, 41, 54-62	2.6	338
197	Timing of nuclear progression and protein synthesis necessary for meiotic maturation of bovine oocytes. *Biology of Reproduction*, **1989**, 40, 1257-63	3.9	244
196	The culture of bovine oocytes to obtain developmentally competent embryos. *Biology of Reproduction*, **1988**, 39, 546-52	3.9	241
195	Thiols prevent H2O2-mediated loss of sperm motility in cryopreserved bull semen. *Theriogenology*, **2001**, 56, 275-86	2.8	209
194	Large-scale transcriptional analysis of bovine embryo biopsies in relation to pregnancy success after transfer to recipients. *Physiological Genomics*, **2006**, 28, 84-96	3.6	180
193	Identification of differentially expressed markers in human follicular cells associated with competent oocytes. *Human Reproduction*, **2008**, 23, 1118-27	5.7	179
192	Quantification of housekeeping transcript levels during the development of bovine preimplantation embryos. *Biology of Reproduction*, **2002**, 67, 1465-72	3.9	169
191	Manipulation of follicular development to produce developmentally competent bovine oocytes. *Biology of Reproduction*, **2002**, 66, 38-43	3.9	153
190	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, 209-22	3.9	151
189	Antioxidant requirements for bovine oocytes varies during in vitro maturation, fertilization and development. *Theriogenology*, **2003**, 59, 939-49	2.8	148
188	In vitro production of bovine embryos: developmental competence is acquired before maturation. *Theriogenology*, **1997**, 47, 1061-75	2.8	147
187	In vitro inhibition of oocyte nuclear maturation in the bovine. *Biology of Reproduction*, **1988**, 39, 229-34	3.9	136
186	Resumption of meiosis: mechanism involved in meiotic progression and its relation with developmental competence. *Theriogenology*, **2001**, 55, 1241-54	2.8	120
185	Effect of the absence or presence of various protein supplements on further development of bovine oocytes during in vitro maturation. *Biology of Reproduction*, **2002**, 66, 901-5	3.9	100
184	Making recombinant proteins in animals--different systems, different applications. *Trends in Biotechnology*, **2003**, 21, 394-9	15.1	98
183	OMICS in assisted reproduction: possibilities and pitfalls. *Molecular Human Reproduction*, **2010**, 16, 513-30	4.4	96

182	Oocyte maturation and IVF in cattle. *Animal Reproduction Science*, **1996**, 42, 417-426	2.1	96
181	Transcription factor expression patterns in bovine in vitro-derived embryos prior to maternal-zygotic transition. *Biology of Reproduction*, **2004**, 70, 1701-9	3.9	95
180	Resumption of meiosis is initiated by the accumulation of cyclin B in bovine oocytes. *Biology of Reproduction*, **1996**, 55, 1427-36	3.9	91
179	Combining resources to obtain a comprehensive survey of the bovine embryo transcriptome through deep sequencing and microarrays. *Molecular Reproduction and Development*, **2011**, 78, 651-64	2.6	86
178	Quantification of histone acetyltransferase and histone deacetylase transcripts during early bovine embryo development. *Biology of Reproduction*, **2003**, 68, 383-9	3.9	86
177	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, 1105-22	2.8	86
176	Electroporation of bovine spermatozoa to carry foreign DNA in oocytes. *Molecular Reproduction and Development*, **1991**, 29, 6-15	2.6	79
175	Analysis of microRNAs and their precursors in bovine early embryonic development. *Molecular Human Reproduction*, **2012**, 18, 425-34	4.4	77
174	Effects of follicular cells on oocyte maturation. II: Theca cell inhibition of bovine oocyte maturation in vitro. *Biology of Reproduction*, **1996**, 54, 22-8	3.9	77
173	The time interval between FSH administration and ovarian aspiration influences the development of cattle oocytes. *Theriogenology*, **1999**, 51, 699-708	2.8	74
172	Gene expression profile of cumulus cells derived from cumulus-oocyte complexes matured either in vivo or in vitro. *Reproduction, Fertility and Development*, **2009**, 21, 451-61	1.8	73
171	Effect of type 3 and type 4 phosphodiesterase inhibitors on the maintenance of bovine oocytes in meiotic arrest. *Biology of Reproduction*, **2002**, 66, 180-4	3.9	72
170	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 calves. *Biology of Reproduction*, **1992**, 47, 814-22	3.9	72
169	In vitro fertilization of bovine follicular oocytes obtained by laparoscopy. *Biology of Reproduction*, **1985**, 33, 487-94	3.9	71
168	Impaired maturation, fertilization, and embryonic development of porcine oocytes following exposure to an environmentally relevant organochlorine mixture. *Biology of Reproduction*, **2001**, 65, 554-60	3.9	70
167	Localization of the chaperone proteins GRP78 and HSP60 on the luminal surface of bovine oviduct epithelial cells and their association with spermatozoa. *Biology of Reproduction*, **2004**, 71, 1879-89	3.9	68
166	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, 531-8	2.8	68
165	Superovulation can reduce the developmental competence of bovine embryos. *Theriogenology*, **1996**, 46, 1191-203	2.8	66

164	Differential display and suppressive subtractive hybridization used to identify granulosa cell messenger rna associated with bovine oocyte developmental competence. *Biology of Reproduction*, **2001**, 64, 1812-20	3.9	65
163	Effects of cumulus cells on male pronuclear formation and subsequent early development of bovine oocytes in vitro. *Theriogenology*, **1994**, 41, 1499-508	2.8	64
162	Biomarkers of human oocyte developmental competence expressed in cumulus cells before ICSI: a preliminary study. *Journal of Assisted Reproduction and Genetics*, **2011**, 28, 173-88	3.4	63
161	Binding of a bovine oviductal fluid catalase to mammalian spermatozoa. *Biology of Reproduction*, **1998**, 58, 747-53	3.9	63
160	Granulosa cells inhibit the resumption of meiosis in bovine oocytes in vitro. *Biology of Reproduction*, **1990**, 43, 777-83	3.9	63
159	Identification of novel and known oocyte-specific genes using complementary DNA subtraction and microarray analysis in three different species. *Biology of Reproduction*, **2005**, 73, 63-71	3.9	60
158	Genomic assessment of follicular marker genes as pregnancy predictors for human IVF. *Molecular Human Reproduction*, **2010**, 16, 87-96	4.4	59
157	The effect of heparin on motility parameters and protein phosphorylation during bovine sperm capacitation. *Theriogenology*, **2001**, 55, 823-35	2.8	59
156	The study of mammalian oocyte competence by transcriptome analysis: progress and challenges. *Molecular Human Reproduction*, **2014**, 20, 103-16	4.4	58
155	Controlling meiotic resumption in bovine oocytes: a review. *Theriogenology*, **1998**, 49, 483-97	2.8	58
154	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	3.7	58
153	Follicle environment and quality of in vitro matured oocytes. *Journal of Assisted Reproduction and Genetics*, **2011**, 28, 483-8	3.4	57
152	Effect of cycloheximide, 6-DMAP, roscovitine and butyrolactone I on resumption of meiosis in porcine oocytes. *Theriogenology*, **2003**, 60, 1049-58	2.8	56
151	Fertilizing ability of bovine spermatozoa cocultured with oviduct epithelial cells. *Biology of Reproduction*, **1995**, 52, 156-62	3.9	56
150	Analysis of atresia in bovine follicles using different methods: flow cytometry, enzyme-linked immunosorbent assay, and classic histology. *Biology of Reproduction*, **1996**, 54, 631-7	3.9	55
149	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	3.9	55
148	Expression of cyclin B1 messenger RNA isoforms and initiation of cytoplasmic polyadenylation in the bovine oocyte. *Biology of Reproduction*, **2005**, 72, 1037-44	3.9	53
147	The effect of sera, bovine serum albumin and follicular cells on in vitro maturation and fertilization of porcine oocytes. *Theriogenology*, **1992**, 37, 779-90	2.8	52

146	In vitro-cultured bovine granulosa and oviductal cells secrete sperm motility-maintaining factor(s). *Molecular Reproduction and Development*, **1994**, 37, 54-60	2.6	50
145	In vitro fertilization of bovine oocytes matured in vivo and collected at laparoscopy. *Theriogenology* , **1986**, 25, 117-133	2.8	50
144	The time interval between FSH-P administration and slaughter can influence the developmental competence of beef heifer oocytes. *Theriogenology*, **1997**, 48, 803-13	2.8	49
143	The sex ratios of bovine embryos produced in vivo and in vitro. *Theriogenology*, **1991**, 36, 779-88	2.8	48
142	Effect of fresh or cultured follicular fractions on meiotic resumption in bovine oocytes. *Theriogenology*, **1992**, 37, 39-57	2.8	47
141	Characterization and identification of epididymal factors that protect ejaculated bovine sperm during in vitro storage. *Biology of Reproduction*, **2002**, 66, 159-66	3.9	46
140	Individual bovine in vitro embryo production and cumulus cell transcriptomic analysis to distinguish cumulus-oocyte complexes with high or low developmental potential. *Theriogenology*, **2015**, 83, 228-37	2.8	44
139	Quantification of cyclin B1 and p34(cdc2) in bovine cumulus-oocyte complexes and expression mapping of genes involved in the cell cycle by complementary DNA macroarrays. *Biology of Reproduction*, **2002**, 67, 1456-64	3.9	44
138	The influence of cAMP before or during bovine oocyte maturation on embryonic developmental competence. *Theriogenology*, **2001**, 55, 1733-43	2.8	44
137	The effects of 17beta-estradiol and protein supplement on the response to purified and recombinant follicle stimulating hormone in bovine oocytes. *Zygote*, **2002**, 10, 65-71	1.6	42
136	Influence of oviductal cells and conditioned medium on porcine gametes. *Zygote*, **2000**, 8, 139-44	1.6	42
135	40 years of bovine IVF in the new genomic selection context. *Reproduction*, **2018**, 156, R1-R7	3.8	41
134	Effect of ovarian stimulation on oocyte gene expression in cattle. *Theriogenology*, **2012**, 77, 1928-38	2.8	41
133	Effects of different kinases and phosphatases on nuclear and cytoplasmic maturation of bovine oocytes. *Molecular Reproduction and Development*, **1995**, 42, 114-21	2.6	41
132	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 calves. *Biology of Reproduction*, **1992**, 47, 807-13	3.9	41
131	Maternal housekeeping proteins translated during bovine oocyte maturation and early embryo development. *Proteomics*, **2006**, 6, 3811-20	4.8	40
130	Temporary inhibition of meiosis resumption in vitro by adenylate cyclase stimulation in immature bovine oocytes. *Theriogenology*, **1990**, 33, 757-67	2.8	40
129	Effect of cow age on the in vitro developmental competence of oocytes obtained after FSH stimulation and coasting treatments. *Theriogenology*, **2016**, 86, 1240-6	2.8	39

128	An environmentally relevant organochlorine mixture impairs sperm function and embryo development in the porcine model. *Biology of Reproduction*, **2002**, 67, 80-7	3.9	38
127	Birth of calves after in vitro fertilisation using laparoscopy and rabbit oviduct incubation of zygotes. *Veterinary Record*, **1986**, 119, 167-9	0.9	38
126	Global gene expression in granulosa cells of growing, plateau and atretic dominant follicles in cattle. *Reproductive Biology and Endocrinology*, **2015**, 13, 17	5	36
125	Capacitation in vitro of bovine spermatozoa by oviduct epithelial cell monolayer conditioned medium. *Molecular Reproduction and Development*, **1995**, 42, 318-24	2.6	35
124	Identification of follicular marker genes as pregnancy predictors for human IVF: new evidence for the involvement of luteinization process. *Molecular Human Reproduction*, **2010**, 16, 548-56	4.4	34
123	Effect of bovine oviduct epithelial cell apical plasma membranes on sperm function assessed by a novel flow cytometric approach. *Biology of Reproduction*, **2002**, 67, 1125-32	3.9	33
122	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, 587-98	2.8	32
121	Cytogenetic study of parthenogenetically activated bovine oocytes matured in vivo and in vitro. *Gamete Research*, **1988**, 20, 265-74		31
120	Origin of bovine follicular fluid and its effect during in vitro maturation on the developmental competence of bovine oocytes. *Theriogenology*, **2004**, 62, 1596-606	2.8	30
119	Genome-wide screening of DNA methylation in bovine blastocysts with different kinetics of development. *Epigenetics and Chromatin*, **2018**, 11, 1	5.8	29
118	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, 372-84	1.8	29
117	Transcriptome profiling of bovine inner cell mass and trophectoderm derived from in vivo generated blastocysts. *BMC Developmental Biology*, **2015**, 15, 49	3.1	29
116	Analysis of the gene expression pattern of bovine blastocysts at three stages of development. *Molecular Reproduction and Development*, **2011**, 78, 226-40	2.6	29
115	Cumulus cell gene expression associated with pre-ovulatory acquisition of developmental competence in bovine oocytes. *Reproduction, Fertility and Development*, **2014**, 26, 855-65	1.8	28
114	Gene expression analysis of bovine oocytes with high developmental competence obtained from FSH-stimulated animals. *Molecular Reproduction and Development*, **2013**, 80, 428-40	2.6	28
113	Identification of porcine oocyte proteins that are associated with somatic cell nuclei after co-incubation. *Biology of Reproduction*, **2004**, 71, 1279-89	3.9	28
112	Spermatozoa DNA methylation patterns differ due to peripubertal age in bulls. *Theriogenology*, **2018**, 106, 21-29	2.8	27
111	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	4.5	27

110	The impact of exposure to serum lipids during in vitro culture on the transcriptome of bovine blastocysts. *Theriogenology*, **2014**, 81, 712-22.e1-3	2.8	27
109	The dynamics of gene products fluctuation during bovine pre-hatching development. *Molecular Reproduction and Development*, **2009**, 76, 762-72	2.6	27
108	Transcriptomic signature to oxidative stress exposure at the time of embryonic genome activation in bovine blastocysts. *Molecular Reproduction and Development*, **2013**, 80, 297-314	2.6	26
107	Effect of coculturing spermatozoa with oviductal cells on the incidence of polyspermy in pig in vitro fertilization. *Molecular Reproduction and Development*, **1995**, 41, 360-7	2.6	26
106	Decreased binding of calmodulin to bull sperm proteins during heparin-induced capacitation. *Biology of Reproduction*, **1990**, 42, 483-9	3.9	26
105	Characterization of FSH signalling networks in bovine cumulus cells: a perspective on oocyte competence acquisition. *Molecular Human Reproduction*, **2015**, 21, 688-701	4.4	25
104	Successful in vitro maturation of oocytes: a matter of follicular differentiation. *Biology of Reproduction*, **2018**, 98, 162-169	3.9	25
103	Chromatin remodelling and histone m RNA accumulation in bovine germinal vesicle oocytes. *Molecular Reproduction and Development*, **2015**, 82, 450-62	2.6	25
102	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, 1582-95	2.8	25
101	Seminal vesicle production and secretion of growth hormone into seminal fluid. *Nature Biotechnology*, **1999**, 17, 1087-90	44.5	25
100	The co-culture of cumulus-enclosed bovine oocytes and hemi-sections of follicles: Effects on meiotic resumption. *Theriogenology*, **1993**, 40, 933-42	2.8	25
99	Effects of cumulus cells and follicle-stimulating hormone during in vitro maturation on parthenogenetic activation of bovine oocytes. *Molecular Reproduction and Development*, **1995**, 42, 425-31	2.6	25
98	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	2.8	25
97	Distribution and dynamics of mitochondrial DNA methylation in oocytes, embryos and granulosa cells. *Scientific Reports*, **2019**, 9, 11937	4.9	23
96	Granulosa cell function and oocyte competence: Super-follicles, super-moms and super-stimulation in cattle. *Animal Reproduction Science*, **2014**, 149, 80-9	2.1	22
95	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, 3012-9	0.7	22
94	Role of the cyclic adenosine monophosphate-dependent protein kinase in the control of meiotic resumption in bovine oocytes cultured with thecal cell monolayers. *Biology of Reproduction*, **1997**, 56, 1363-9	3.9	21
93	Origin of the follicular fluid added to the media during bovine IVM influences embryonic development. *Theriogenology*, **1995**, 44, 85-94	2.8	21

92	Transcriptional characteristics of different sized follicles in relation to embryo transferability: potential role of hepatocyte growth factor signalling. *Molecular Human Reproduction*, **2016**, 22, 475-84	4.4	21
91	Meta-analysis of gene expression profiles in granulosa cells during folliculogenesis. *Reproduction*, **2016**, 151, R103-10	3.8	20
90	Evolutionary conservation of the oocyte transcriptome among vertebrates and its implications for understanding human reproductive function. *Molecular Human Reproduction*, **2013**, 19, 369-79	4.4	20
89	Providing a stable methodological basis for comparing transcript abundance of developing embryos using microarrays. *Molecular Human Reproduction*, **2010**, 16, 601-16	4.4	20
88	Effect of an environmentally relevant metabolized organochlorine mixture on porcine cumulus-oocyte complexes. *Reproductive Toxicology*, **2007**, 23, 145-52	3.4	20
87	Effect of microinjection time during postfertilization S-phase on bovine embryonic development. *Molecular Reproduction and Development*, **1995**, 41, 184-94	2.6	20
86	Transcriptome analysis of bovine oocytes from distinct follicle sizes: Insights from correlation network analysis. *Molecular Reproduction and Development*, **2016**, 83, 558-69	2.6	20
85	The influence of in vitro 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	2.4	19
84	Modulation of postthaw motility, survival, calcium uptake, and fertility of bovine sperm by magnesium and manganese. *Journal of Dairy Science*, **1996**, 79, 2163-9	4	19
83	Differential response to gonadotropins and prostaglandin E2 in ovarian tissue during prenatal and postnatal development in cattle. *Biology of Reproduction*, **1992**, 46, 1034-41	3.9	19
82	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, 127-38	4.4	18
81	Protein synthesis is not required for male pronuclear formation in bovine zygotes. *Zygote*, **1996**, 4, 41-8	1.6	18
80	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, 1065-75	2.8	18
79	The effect of energy balance on the transcriptome of bovine granulosa cells at 60 days postpartum. *Theriogenology*, **2015**, 84, 1350-61.e6	2.8	17
78	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	20.1	17
77	Immunoneutralization of transforming growth factor alpha present in bovine follicular fluid prevents the suppression of the follicle-stimulating hormone-induced production of estradiol by bovine granulosa cells cultured in vitro. *Biology of Reproduction*, **1997**, 57, 341-6	3.9	17
76	The influence of cumulus-oocyte complex morphology and meiotic inhibitors on the kinetics of nuclear maturation in cattle. *Theriogenology*, **2001**, 55, 911-22	2.8	17
75	Ovarian morphological conditions and the effect of injection of human chorionic gonadotropin on ovulation rates in prepuberal gilts with two morphologically different ovarian types. *Journal of Animal Science*, **1991**, 69, 3774-9	0.7	17

74	Transcriptome meta-analysis of three follicular compartments and its correlation with ovarian follicle maturity and oocyte developmental competence in cows. *Physiological Genomics*, **2016**, 48, 633-43	3.6	16
73	Effects of estrous cycle, steroids and localization of oviductal cells on in vitro secretion of sperm motility factor(s). *Theriogenology*, **1995**, 44, 119-128	2.8	16
72	Transcriptomic analysis of cyclic AMP response in bovine cumulus cells. *Physiological Genomics*, **2015**, 47, 432-42	3.6	15
71	Responses of bovine early embryos to S-adenosyl methionine supplementation in culture. *Epigenomics*, **2016**, 8, 1039-60	4.4	15
70	Gene expression analysis of bovine oocytes at optimal coasting time combined with GnRH antagonist during the ho-FSH period. *Theriogenology*, **2014**, 81, 1092-100	2.8	15
69	Epithelial and stromal uterine cells cultured in vitro protect bovine sperm from hydrogen peroxide. *Theriogenology*, **2000**, 54, 355-69	2.8	15
68	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	2.1	15
67	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, 7797-809	4	14
66	Protein phosphorylation is essential for formation of male pronucleus in bovine oocytes. *Molecular Reproduction and Development*, **1999**, 52, 43-49	2.6	14
65	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	3.4	13
64	Insulin during in vitro oocyte maturation has an impact on development, mitochondria, and cytoskeleton in bovine day 8 blastocysts. *Theriogenology*, **2017**, 101, 15-25	2.8	13
63	Transcriptomic evaluation of bovine blastocysts obtained from peri-pubertal oocyte donors. *Theriogenology*, **2017**, 93, 111-123	2.8	12
62	Effects of gonadotropin treatment on ovarian follicle growth, oocyte quality and in vitro fertilization of oocytes in prepubertal gilts. *Theriogenology*, **1996**, 46, 717-26	2.8	12
61	The effects of repeated laparoscopic surgery used for ovarian examination and follicular aspiration in cows. *Animal Reproduction Science*, **1985**, 9, 25-30	2.1	12
60	Transcriptomic analysis of gene cascades involved in protein kinase A and C signaling in the KGN line of human ovarian granulosa tumor cells *Biology of Reproduction*, **2017**, 96, 855-865	3.9	11
59	Rapidly cleaving bovine two-cell embryos have better developmental potential and a distinctive mRNA pattern. *Molecular Reproduction and Development*, **2014**, 81, 31-41	2.6	11
58	FSH in vitro versus LH in vivo: similar genomic effects on the cumulus. *Journal of Ovarian Research*, **2013**, 6, 68	5.5	11
57	Evaluation of virus decontamination techniques for porcine embryos produced in vitro. *Theriogenology*, **2005**, 63, 2343-55	2.8	11

56	Developmental potential of early bovine zygotes submitted to centrifugation and microinjection following in vitro maturation of oocytes. *Theriogenology*, **1990**, 34, 417-25	2.8	11
55	The age of the bull influences the transcriptome and epigenome of blastocysts produced by IVF. *Theriogenology*, **2020**, 144, 122-131	2.8	11
54	Transcriptome analysis of bovine granulosa cells of preovulatory follicles harvested 30, 60, 90, and 120 days postpartum. *Theriogenology*, **2014**, 82, 580-591.e5	2.8	10
53	Metabolic stress induces modifications in the epigenetic program of preimplantation bovine embryos. *Molecular Reproduction and Development*, **2018**, 85, 117-127	2.6	10
52	Gene expression analysis of follicular cells revealed inflammation as a potential IVF failure cause. *Journal of Assisted Reproduction and Genetics*, **2019**, 36, 1195-1210	3.4	9
51	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	4.4	9
50	Accumulation of Chromatin Remodelling Enzyme and Histone Transcripts in Bovine Oocytes. *Results and Problems in Cell Differentiation*, **2017**, 63, 223-255	1.4	9
49	Identification and characterization of a novel bovine oocyte-specific secreted protein gene. *Gene*, **2006**, 375, 44-53	3.8	9
48	Manipulation of chromosome condensation by protein synthesis inhibitors and cyclic AMP during maturation of bovine oocytes. *Theriogenology*, **1994**, 41, 819-27	2.8	9
47	Effects of Inhibition of Meiotic Resumption upon the Subsequent Development of Bovine Oocytes In Vitro.. *Journal of Reproduction and Development*, **1995**, 41, 255-262	2.1	9
46	Comparative analysis of granulosa cell gene expression in association with oocyte competence in FSH-stimulated Holstein cows. *Reproduction, Fertility and Development*, **2017**, 29, 2324-2335	1.8	8
45	An environmentally relevant mixture of organochlorines, their metabolites and effects on preimplantation development of porcine embryos. *Reproductive Toxicology*, **2008**, 25, 361-6	3.4	8
44	Ovulation and follicular growth in gonadotropin-treated gilts followed by in vitro fertilization and development of their oocytes. *Theriogenology*, **2000**, 53, 1421-37	2.8	8
43	Embryonic response to high beta-hydroxybutyrate (BHB) levels in postpartum dairy cows. *Domestic Animal Endocrinology*, **2020**, 72, 106431	2.3	8
42	Sperm miRNAs- potential mediators of bull age and early embryo development. *BMC Genomics*, **2020**, 21, 798	4.5	8
41	Mechanisms Involved in Porcine Early Embryo Survival following Ethanol Exposure. *Toxicological Sciences*, **2017**, 156, 289-299	4.4	7
40	Active 3R5Rcyclic nucleotide phosphodiesterases are present in detergent-resistant membranes of mural granulosa cells. *Reproduction, Fertility and Development*, **2017**, 29, 778-790	1.8	7
39	Stable reference genes in granulosa cells of bovine dominant follicles during follicular growth, FSH stimulation and maternal aging. *Reproduction, Fertility and Development*, **2016**, 28, 795-805	1.8	7

38	Follicle capacitation: a meta-analysis to investigate the transcriptome dynamics following follicle-stimulating hormone decline in bovine granulosa cells. *Biology of Reproduction*, **2018**, 99, 877-887	2.9	6
37	Influence of luteinizing hormone support on granulosa cells transcriptome in cattle. *Animal Science Journal*, **2018**, 89, 21-30	1.8	6
36	DNA methylation pattern of bovine blastocysts associated with hyperinsulinemia in vitro. *Molecular Reproduction and Development*, **2018**, 85, 599-611	2.6	6
35	Toward building the cow folliculome. *Animal Reproduction Science*, **2014**, 149, 90-7	2.1	6
34	Gene expression analysis of bovine blastocysts produced by parthenogenic activation or fertilisation. *Reproduction, Fertility and Development*, **2011**, 23, 591-602	1.8	6
33	The effect of preincubation of frozen-thawed spermatozoa with oviductal cells on the in vitro penetration of porcine oocytes. *Theriogenology*, **1996**, 46, 1181-9	2.8	6
32	Low concentrations of bromodichloromethane induce a toxicogenomic response in porcine embryos in vitro. *Reproductive Toxicology*, **2016**, 66, 44-55	3.4	6
31	Reversible changes in protein phosphorylation during germinal vesicle breakdown and pronuclear formation in bovine oocytes in vitro. *Zygote*, **2003**, 11, 119-29	1.6	5
30	Effect of bovine follicular fluid from healthy and atretic follicles on follicle-stimulating hormone-induced production of estradiol by bovine granulosa cells cultured in vitro. *Journal of Animal Science*, **1998**, 76, 1172-7	0.7	5
29	Effects of harvest methods of bovine oocytes co-cultured with follicular hemisections in vitro on nuclear maturation. *Theriogenology*, **1996**, 46, 1243-50	2.8	5
28	Effect of steroids and oviductal cells, from the different parts of the oviduct, on the incidence of monospermy in porcine in vitro fertilization. *Theriogenology*, **1996**, 46, 449-58	2.8	5
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