Alfonso Gutierrez-Adan

List of Publications by Year
in descending order

244 papers	11,604 citations	28190 55 h-index	38300 95 g-index
247 all docs	247 docs citations	247 times ranked	8784 citing authors

#	Article	IF	Citations
1	Progesterone and conceptus elongation in cattle: a direct effect on the embryo or an indirect effect via the endometrium?. Reproduction, 2009, 138, 507-517.	1.1	520
2	Bovine Embryo Culture in the Presence or Absence of Serum: Implications for Blastocyst Development, Cryotolerance, and Messenger RNA Expression1. Biology of Reproduction, 2003, 68, 236-243.	1.2	421
3	Long-term effect of in vitro culture of mouse embryos with serum on mRNA expression of imprinting genes, development, and behavior. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5880-5885.	3.3	351
4	Long-Term Effects of Mouse Intracytoplasmic Sperm Injection with DNA-Fragmented Sperm on Health and Behavior of Adult Offspring1. Biology of Reproduction, 2008, 78, 761-772.	1.2	311
5	Analysis of Differential Messenger RNA Expression Between Bovine Blastocysts Produced in Different Culture Systems: Implications for Blastocyst Quality1. Biology of Reproduction, 2002, 66, 589-595.	1.2	292
6	Sex determines the expression level of one third of the actively expressed genes in bovine blastocysts. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3394-3399.	3.3	269
7	Temporal Divergence in the Pattern of Messenger RNA Expression in Bovine Embryos Cultured from the Zygote to Blastocyst Stage In Vitro or In Vivo. Biology of Reproduction, 2003, 69, 1424-1431.	1.2	253
8	Scrotal heat stress effects on sperm viability, sperm DNA integrity, and the offspring sex ratio in mice. Molecular Reproduction and Development, 2008, 75, 40-47.	1.0	246
9	Oocyte and Embryo Quality: Effect of Origin, Culture Conditions and Gene Expression Patterns. Reproduction in Domestic Animals, 2003, 38, 259-267.	0.6	244
10	Elevated Non-Esterified Fatty Acid Concentrations during Bovine Oocyte Maturation Compromise Early Embryo Physiology. PLoS ONE, 2011, 6, e23183.	1.1	211
11	Oviductal secretions: will they be key factors for the future ARTs?. Molecular Human Reproduction, 2010, 16, 896-906.	1.3	201
12	Crucial Role of CB₂Cannabinoid Receptor in the Regulation of Central Immune Responses during Neuropathic Pain. Journal of Neuroscience, 2008, 28, 12125-12135.	1.7	172
13	Depressionâ€resistant endophenotype in mice overexpressing cannabinoid CB₂ receptors. British Journal of Pharmacology, 2010, 160, 1773-1784.	2.7	169
14	Epigenetic differences between male and female bovine blastocysts produced in vitro. Physiological Genomics, 2008, 32, 264-272.	1.0	167
15	Effect of speed of development on mRNA expression pattern in early bovine embryos cultured in vivo or in vitro. Molecular Reproduction and Development, 2004, 68, 441-448.	1.0	159
16	Consequences of In Vitro Culture Conditions on Embryo Development and Quality. Reproduction in Domestic Animals, 2008, 43, 44-50.	0.6	152
17	Isolation of Pluripotent Stem Cells from Cultured Porcine Primordial Germ Cells1. Biology of Reproduction, 1997, 57, 1089-1095.	1.2	148
18	Extracellular Vesicles from BOEC in In Vitro Embryo Development and Quality. PLoS ONE, 2016, 11, e0148083.	1.1	145

#	Article	IF	Citations
19	Sheep and Goat BSE Propagate More Efficiently than Cattle BSE in Human PrP Transgenic Mice. PLoS Pathogens, 2011, 7, e1001319.	2.1	125
20	Interferon-Î³ Is a Critical Modulator of CB₂Cannabinoid Receptor Signaling during Neuropathic Pain. Journal of Neuroscience, 2008, 28, 12136-12145.	1.7	122
21	Oocyte developmental failure in response to elevated nonesterified fatty acid concentrations: mechanistic insights. Reproduction, 2013, 145, 33-44.	1.1	121
22	Early detection of PrP res in BSE-infected bovine PrP transgenic mice. Archives of Virology, 2003, 148, 677-691.	0.9	119
23	Influence of glucose on the sex ratio of bovine IVM/IVF embryos cultured in vitro. Reproduction, Fertility and Development, 2001, 13, 361.	0.1	114
24	Differential expression of two genes located on the X chromosome between male and female in vitro-produced bovine embryos at the blastocyst stage. , 2000, 55, 146-151.		110
25	Effect of the in vitro culture system on the kinetics of blastocyst development and sex ratio of bovine embryos. Theriogenology, 2001, 55, 1117-1126.	0.9	110
26	Transcriptional sexual dimorphism during preimplantation embryo development and its consequences for developmental competence and adult health and disease. Reproduction, 2011, 141, 563-570.	1.1	110
27	Effect of bovine oviductal extracellular vesicles on embryo development and quality in vitro. Reproduction, 2017, 153, 461-470.	1.1	110
28	Relationship between time of first cleavage and the expression of IGF-I growth factor, its receptor, and two housekeeping genes in bovine two-cell embryos and blastocysts produced in vitro. Molecular Reproduction and Development, 2000, 57, 146-152.	1.0	108
29	SLUG in cancer development. Oncogene, 2005, 24, 3073-3082.	2.6	100
30	Relative messenger RNA abundance in bovine oocytes collected in vitro or in vivo before and 20 hr after the preovulatory luteinizing hormone surge. Molecular Reproduction and Development, 2003, 66, 297-305.	1.0	94
31	Downstream Regulatory Element Antagonist Modulator Regulates Ca2+ Homeostasis and Viability in Cerebellar Neurons. Journal of Neuroscience, 2005, 25, 10822-10830.	1.7	93
32	A novel antioxidant formulation designed to treat male infertility associated with oxidative stress: promising preclinical evidence from animal models. Human Reproduction, 2016, 31, 252-262.	0.4	86
33	Differential sensitivity of male and female mouse embryos to oxidative induced heat-stress is mediated by glucose-6-phosphate dehydrogenase gene expression. Molecular Reproduction and Development, 2005, 72, 502-510.	1.0	85
34	Intrafollicular conditions as a major link between maternal metabolism and oocyte quality: a focus on dairy cow fertility. Reproduction, Fertility and Development, 2012, 24, 1.	0.1	84
35	Oviduct-Embryo Interactions in Cattle: Two-Way Traffic or a One-Way Street?1. Biology of Reproduction, 2015, 92, 144.	1.2	84
36	Transcriptional repressor DREAM regulates T-lymphocyte proliferation and cytokine gene expression. EMBO Journal, 2005, 24, 3555-3564.	3.5	82

#	Article	IF	Citations
37	Efficient Generation of Transgenic Mice with Intact Yeast Artificial Chromosomes by Intracytoplasmic Sperm Injection1. Biology of Reproduction, 2004, 71, 1943-1947.	1.2	77
38	Developmental Consequences of Sexual Dimorphism During Pre-implantation Embryonic Development. Reproduction in Domestic Animals, 2006, 41, 54-62.	0.6	76
39	The effect of nutritionally induced hyperlipidaemia on in vitro bovine embryo quality. Human Reproduction, 2010, 25, 768-778.	0.4	75
40	TMEM95 is a sperm membrane protein essential for mammalian fertilization. ELife, 2020, 9, .	2.8	75
41	Developmental kinetics and gene expression in male and female bovine embryos produced in vitro with sex-sorted spermatozoa. Reproduction, Fertility and Development, 2010, 22, 426.	0.1	74
42	Suboptimal in vitro culture conditions: an epigenetic origin of long-term health effects. Molecular Reproduction and Development, 2007, 74, 1149-1156.	1.0	73
43	Relationship between stage of development and sex of bovine IVM-IVF embryos cultured in vitro versus in the sheep oviduct. Theriogenology, 1996, 46, 515-525.	0.9	72
44	Low oxygen tension during IVM improves bovine oocyte competence and enhances anaerobic glycolysis. Reproductive BioMedicine Online, 2010, 20, 341-349.	1.1	70
45	Hyperglycemia-induced apoptosis affects sex ratio of bovine and murine preimplantation embryos. Molecular Reproduction and Development, 2003, 65, 180-187.	1.0	67
46	Cancer development induced by graded expression of Snail in mice. Human Molecular Genetics, 2005, 14, 3449-3461.	1.4	67
47	Histone Modifications at the Blastocyst Axin1Fu Locus Mark the Heritability of In Vitro Culture-Induced Epigenetic Alterations in Mice1. Biology of Reproduction, 2010, 83, 720-727.	1.2	67
48	Can Bovine In Vitro-Matured Oocytes Selectively Process X- or Y-Sorted Sperm Differentially?1. Biology of Reproduction, 2008, 79, 594-597.	1.2	66
49	Amino acid metabolism of bovine blastocysts: a biomarker of sex and viability. Molecular Reproduction and Development, 2010, 77, 285-296.	1.0	65
50	Male Fertility Is Reduced by Chronic Intermittent Hypoxia Mimicking Sleep Apnea in Mice. Sleep, 2014, 37, 1757-1765.	0.6	61
51	Effects of oviductal fluid on the development, quality, and gene expression of porcine blastocysts produced in vitro. Reproduction, 2009, 137, 679-687.	1.1	60
52	Effect of genistein supplementation of thawing medium on characteristics of frozen human spermatozoa. Asian Journal of Andrology, 2010, 12, 431-441.	0.8	60
53	Transcriptome Changes at the Initiation of Elongation in the Bovine Conceptus1. Biology of Reproduction, 2011, 85, 285-295.	1.2	60
54	Long-term and transgenerational effects of in vitro culture on mouse embryos. Theriogenology, 2012, 77, 785-793.	0.9	59

#	Article	IF	Citations
55	Biological differences between in vitro produced bovine embryos and parthenotes. Reproduction, 2009, 137, 285-295.	1.1	58
56	Transcriptional sexual dimorphism in elongating bovine embryos: implications for XCI and sex determination genes. Reproduction, 2011, 141, 801-808.	1.1	58
57	Suboptimal culture conditions induce more deviations in gene expression in male than female bovine blastocysts. BMC Genomics, 2016, 17, 72.	1.2	58
58	Altered gene transcription and telomere length in trout embryo and larvae obtained with DNA cryodamaged sperm. Theriogenology, 2011, 76, 1234-1245.	0.9	57
59	Sperm selection by thermotaxis improves ICSI outcome in mice. Scientific Reports, 2018, 8, 2902.	1.6	57
60	Subclinical Bovine Spongiform Encephalopathy Infection in Transgenic Mice Expressing Porcine Prion Protein. Journal of Neuroscience, 2004, 24, 5063-5069.	1.7	56
61	Biased Agonism of Three Different Cannabinoid Receptor Agonists in Mouse Brain Cortex. Frontiers in Pharmacology, 2016, 7, 415.	1.6	56
62	Oviductal response to gametes and early embryos in mammals. Reproduction, 2016, 152, R127-R141.	1.1	55
63	Effect of bovine oviductal fluid on development and quality of bovine embryos produced in vitro. Reproduction, Fertility and Development, 2017, 29, 621.	0.1	54
64	Analysis of gene transcription alterations at the blastocyst stage related to the long-term consequences of in vitro culture in mice. Reproduction, 2009, 137, 271-283.	1.1	53
65	The oviduct: from sperm selection to the epigenetic landscape of the embryoâ€. Biology of Reproduction, 2018, 98, 262-276.	1.2	53
66	Factors From Damaged Sperm Affect Its DNA Integrity and Its Ability to Promote Embryo Implantation in Mice. Journal of Andrology, 2008, 29, 47-54.	2.0	52
67	Embryo responses to stress induced by assisted reproductive technologies. Molecular Reproduction and Development, 2019, 86, 1292-1306.	1.0	52
68	Improving the generation of genomic-type transgenic mice by ICSI. Transgenic Research, 2007, 16, 163-168.	1.3	50
69	Male Mice Produced by In Vitro Culture Have Reduced Fertility and Transmit Organomegaly and Glucose Intolerance to Their Male Offspring1. Biology of Reproduction, 2012, 87, 34.	1.2	50
70	Elevated non-esterified fatty acid concentrations during inÂvitro murine follicle growth alter follicular physiology and reduce oocyte developmental competence. Fertility and Sterility, 2014, 102, 1769-1776.e1.	0.5	49
71	Antioxidant Nobiletin Enhances Oocyte Maturation and Subsequent Embryo Development and Quality. International Journal of Molecular Sciences, 2020, 21, 5340.	1.8	49
72	Selection against spermatozoa with fragmented DNA after postovulatory mating depends on the type of damage. Reproductive Biology and Endocrinology, 2010, 8, 9.	1.4	48

#	Article	IF	Citations
73	Role of the Goat K222-PrPC Polymorphic Variant in Prion Infection Resistance. Journal of Virology, 2014, 88, 2670-2676.	1.5	48
74	Production of transgenic piglets using ICSIâ€“sperm-mediated gene transfer in combination with recombinase RecA. Reproduction, 2010, 140, 259-272.	1.1	46
75	Spermatozoa telomeres determine telomere length in early embryos and offspring. Reproduction, 2016, 151, 1-7.	1.1	46
76	CB₁cannabinoid receptor drives oocyte maturation and embryo development via PI3K/Akt and MAPK pathways. FASEB Journal, 2017, 31, 3372-3382.	0.2	45
77	Different Behavior toward Bovine Spongiform Encephalopathy Infection of Bovine Prion Protein Transgenic Mice with One Extra Repeat Octapeptide Insert Mutation. Journal of Neuroscience, 2004, 24, 2156-2164.	1.7	44
78	Spatial differences in gene expression in the bovine oviduct. Reproduction, 2016, 152, 37-46.	1.1	44
79	Extracellular vesicles derived from endometrial human mesenchymal stem cells enhance embryo yield and quality in an aged murine modelâ€. Biology of Reproduction, 2019, 100, 1180-1192.	1.2	44
80	Effect of the Bovine Oviductal Fluid on In Vitro Fertilization, Development and Gene Expression of In Vitroâ€Produced Bovine Blastocysts. Reproduction in Domestic Animals, 2013, 48, 331-338.	0.6	43
81	Effect of flanking matrix attachment regions on the expression of microinjected transgenes during preimplantation development of mouse embryos. , 2000, 9, 81-89.		41
82	Effect of sperm treatment on efficiency of EGFP-expressing porcine embryos produced by ICSI-SMGT. Theriogenology, 2009, 72, 506-518.	0.9	40
83	Culture of bovine embryos in intermediate host oviducts with emphasis on the isolated mouse oviduct. Theriogenology, 2010, 73, 777-785.	0.9	39
84	Effects of hyaluronan, BSA, and serum on bovine embryo in vitro development, ultrastructure, and gene expression patterns. Molecular Reproduction and Development, 2006, 73, 1503-1511.	1.0	38
85	Effect of Transgene Concentration, Flanking Matrix Attachment Regions, and RecA-Coating on the Efficiency of Mouse Transgenesis Mediated by Intracytoplasmic Sperm Injection1. Biology of Reproduction, 2007, 76, 336-343.	1.2	38
86	Development and pattern of mRNA relative abundance of bovine embryos cultured in the isolated mouse oviduct in organ culture. Molecular Reproduction and Development, 2007, 74, 716-723.	1.0	38
87	Effect of leptin supplementation during in vitro oocyte maturation and embryo culture on bovine embryo development and gene expression patterns. Theriogenology, 2011, 75, 887-896.	0.9	38
88	Effects of vitrification on the expression of pluripotency, apoptotic and stress genes in in vitro-produced porcine blastocysts. Reproduction, Fertility and Development, 2015, 27, 1072.	0.1	38
89	Search for the Bovine Homolog of the Murine Ped Gene and Characterization of Its Messenger RNA Expression During Bovine Preimplantation Development1. Biology of Reproduction, 2004, 70, 488-494.	1.2	37
90	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.	0.1	37

#	Article	IF	Citations
91	Seminal plasma amino acid profile in different breeds of chicken: Role of seminal plasma on sperm cryoresistance. PLoS ONE, 2019, 14, e0209910.	1.1	37
92	Prion Protein Expression Regulates Embryonic Stem Cell Pluripotency and Differentiation. PLoS ONE, 2011, 6, e18422.	1.1	37
93	Transgenic mice expressing bovine PrP with a four extra repeat octapeptide insert mutation show a spontaneous, non-transmissible, neurodegenerative disease and an expedited course of BSE infection. FEBS Letters, 2005, 579, 6237-6246.	1.3	36
94	Vertical Transmission of Bovine Spongiform Encephalopathy Prions Evaluated in a Transgenic Mouse Model. Journal of Virology, 2005, 79, 8665-8668.	1.5	34
95	Species-related differences in blastocyst quality are associated with differences in relative mRNA transcription. Molecular Reproduction and Development, 2004, 69, 381-386.	1.0	33
96	Single in vitro bovine embryo production: Coculture with autologous cumulus cells, developmental competence, embryo quality and gene expression profiles. Theriogenology, 2011, 76, 1293-1303.	0.9	33
97	Impaired Spermatogenesis, Muscle, and Erythrocyte Function in U12 Intron Splicing-Defective Zrsr1 Mutant Mice. Cell Reports, 2018, 23, 143-155.	2.9	33
98	Early sex-dependent differences in response to environmental stress. Reproduction, 2018, 155, R39-R51.	1.1	33
99	Senescence and Apoptosis During in vitro Embryo Development in a Bovine Model. Frontiers in Cell and Developmental Biology, 2020, 8, 619902.	1.8	33
100	Experimental demonstration that pre- and post-conceptional mechanisms influence sex ratio in mouse embryos. Molecular Reproduction and Development, 2003, 66, 162-165.	1.0	32
101	Sex-specific embryonic origin of postnatal phenotypic variability. Reproduction, Fertility and Development, 2013, 25, 38.	0.1	31
102	In vivo and in vitro maturation of rabbit oocytes differently affects the gene expression profile, mitochondrial distribution, apoptosis and early embryo development. Reproduction, Fertility and Development, 2017, 29, 1667.	0.1	31
103	Bovine oviductal and uterine fluid support in vitro embryo development. Reproduction, Fertility and Development, 2018, 30, 935.	0.1	31
104	Effect of ejaculate, bull, and a double swim-up sperm processing method on sperm sex ratio. Zygote, 2003, 11, 229-235.	0.5	30
105	Relationship between non-return rate and chromatin condensation of deep frozen bull spermatozoa. Theriogenology, 2005, 64, 232-241.	0.9	30
106	The effect of different zwitterionic buffers and PBS used for out-of-incubator procedures during standard in vitro embryo production on development, morphology and gene expression of bovine embryos. Theriogenology, 2008, 70, 1461-1470.	0.9	30
107	Effect of liver growth factor on both testicular regeneration and recovery of spermatogenesis in busulfan-treated mice. Reproductive Biology and Endocrinology, 2011, 9, 21.	1.4	30
108	Superovulatory response of murciana goats to treatments based on PMSG/anti-PMSG or combined FSH/PMSG administration. Theriogenology, 1998, 50, 357-364.	0.9	29

#	Article	IF	Citations
109	Factors affecting porcine sperm mediated gene transfer. Research in Veterinary Science, 2011, 91, 446-453.	0.9	29
110	Maternal-embryo interaction in the bovine oviduct: Evidence from inÂvivo and inÂvitro studies. Theriogenology, 2016, 86, 443-450.	0.9	29
111	Bovine embryo-oviduct interaction in vitro reveals an early cross talk mediated by BMP signaling. Reproduction, 2017, 153, 631-643.	1.1	29
112	Targeting host metabolism by inhibition of acetyl-Coenzyme A carboxylase reduces flavivirus infection in mouse models. Emerging Microbes and Infections, 2019, 8, 624-636.	3.0	29
113	CMV-driven expression of green fluorescent protein (GFP) in male germ cells of transgenic mice and its effect on fertility. Journal of Developmental and Physical Disabilities, 2001, 24, 300-305.	3.6	28
114	Retinoid-dependent mRNA expression and poly-(A) contents in bovine oocytes meiotically arrested and/or matured in vitro. Molecular Reproduction and Development, 2004, 69, 101-108.	1.0	28
115	Effect of exogenous DNA on bovine sperm functionality using the sperm mediated gene transfer (SMGT) technique. Molecular Reproduction and Development, 2010, 77, 687-698.	1.0	28
116	Embryo culture in presence of oviductal fluid induces DNA methylation changes in bovine blastocysts. Reproduction, 2017, 154, 1-12.	1.1	28
117	Expression of the FUS domain restores liposarcoma development in CHOP transgenic mice. Oncogene, 2002, 21, 1679-1684.	2.6	27
118	SLUG (SNAI2) overexpression in embryonic development. Cytogenetic and Genome Research, 2006, 114, 24-29.	0.6	27
119	Comparison of four methods to evaluate sperm DNA integrity between mouse caput and cauda epididymidis. Asian Journal of Andrology, 2012, 14, 335-337.	0.8	27
120	Transcriptional and post-transcriptional regulation of retrotransposons IAP and MuERV-L affect pluripotency of mice ES cells. Reproductive Biology and Endocrinology, 2006, 4, 55.	1.4	26
121	Effect of Stem Cell Activation, Culture Media of Manipulated Embryos, and Site of Embryo Transfer in the Production of F0 Embryonic Stem Cell Mice1. Biology of Reproduction, 2009, 80, 1216-1222.	1.2	26
122	Behavioral, neurochemical and morphological changes induced by the overexpression of munc18-1a in brain of mice: relevance to schizophrenia. Translational Psychiatry, 2013, 3, e221-e221.	2.4	26
123	Development, molecular composition and freeze tolerance of bovine embryos cultured in TCM-199 supplemented with hyaluronan. Zygote, 2008, 16, 39-47.	0.5	25
124	Gene Expression in Early Expanded Parthenogenetic and In Vitro Fertilized Bovine Blastocysts. Journal of Reproduction and Development, 2009, 55, 607-614.	0.5	25
125	Ghrelin Accelerates In Vitro Maturation of Bovine Oocytes. Reproduction in Domestic Animals, 2014, 49, 665-672.	0.6	25
126	Effect of duration of oocyte maturation on the kinetics of cleavage, embryo yield and sex ratio in cattle. Reproduction, Fertility and Development, 2008, 20, 734.	0.1	23

#	Article	IF	Citations
127	Effect of long-term culture of mouse embryonic stem cells under low oxygen concentration as well as on glycosaminoglycan hyaluronan on cell proliferation and differentiation. Cell Proliferation, 2011, 44, 75-85.	2.4	23
128	Ovarian response and embryo gene expression patterns after nonsuperovulatory gonadotropin stimulation in primiparous rabbits does. Theriogenology, 2013, 79, 323-330.	0.9	23
129	Differential isoform expression and alternative splicing in sex determination in mice. BMC Genomics, 2019, 20, 202.	1.2	23
130	Global transcriptomic response of bovine endometrium to blastocyst-stage embryos. Reproduction, 2019, 158, 223-235.	1.1	23
131	HSL-knockout mouse testis exhibits class B scavenger receptor upregulation and disrupted lipid raft microdomains. Journal of Lipid Research, 2012, 53, 2586-2597.	2.0	22
132	Solving the â€œXâ€•in Embryos and Stem Cells. Stem Cells and Development, 2012, 21, 1215-1224.	1.1	22
133	Subfertility in bulls carrying a nonsense mutation in transmembrane protein 95 is due to failure to interact with the oocyte vestmentsâ€. Biology of Reproduction, 2017, 97, 50-60.	1.2	22
134	D-Pinitol from Ceratonia siliqua Is an Orally Active Natural Inositol That Reduces Pancreas Insulin Secretion and Increases Circulating Ghrelin Levels in Wistar Rats. Nutrients, 2020, 12, 2030.	1.7	22
135	Generation of Yeast Artificial Chromosome Transgenic Mice by Intracytoplasmic Sperm Injection. , 2006, 349, 151-162.		21
136	Effects of Guaiazulene on In Vitro Bovine Embryo Production and on mRNA Transcripts Related to Embryo Quality. Reproduction in Domestic Animals, 2011, 46, 862-869.	0.6	21
137	The proximal promoter region of mTert is sufficient to regulate telomerase activity in ES cells and transgenic animals. Reproductive Biology and Endocrinology, 2006, 4, 5.	1.4	20
138	Sustained leukaemic phenotype after inactivation of BCR-ABLp190 in mice. Oncogene, 2007, 26, 1702-1713.	2.6	20
139	Potential Health Risks Associated to ICSI: Insights from Animal Models and Strategies for a Safe Procedure. Frontiers in Public Health, 2014, 2, 241.	1.3	20
140	An Efficient System to Establish Biopsy-Derived Trophoblastic Cell Lines from Bovine Embryos1. Biology of Reproduction, 2014, 91, 15.	1.2	20
141	The effect of human follicular fluid on bovine oocyte developmental competence and embryo quality. Reproductive BioMedicine Online, 2015, 30, 203-207.	1.1	20
142	Why we should not select the faster embryo: lessons from mice and cattle. Reproduction, Fertility and Development, 2015, 27, 765.	0.1	20
143	Sexually Dimorphic Gene Expression in Bovine Conceptuses at the Initiation of Implantation. Biology of Reproduction, 2016, 95, 92-92.	1.2	20
144	Intrafollicular testosterone concentration and sex ratio in individually cultured bovine embryos. Reproduction, Fertility and Development, 2010, 22, 533.	0.1	19

#	Article	IF	Citations
145	Effects of recombinant OVGP1 protein on <i>in vitro</i> bovine embryo development. Journal of Reproduction and Development, 2018, 64, 433-443.	0.5	19
146	Gene expression and metabolic response of bovine oviduct epithelial cells to the early embryo. Reproduction, 2019, 158, 85-94.	1.1	19
147	Inadvertent transgenesis by conventional ICSI in mice. Human Reproduction, 2005, 20, 3313-3317.	0.4	18
148	Reduced susceptibility to bovine spongiform encephalopathy prions in transgenic mice expressing a bovine PrP with five octapeptide repeats. Journal of General Virology, 2007, 88, 1842-1849.	1.3	18
149	Spontaneous Generation of Infectious Prion Disease in Transgenic Mice. Emerging Infectious Diseases, 2013, 19, 1938-1947.	2.0	18
150	Tet-mediated imprinting erasure in H19 locus following reprogramming of spermatogonial stem cells to induced pluripotent stem cells. Scientific Reports, 2015, 5, 13691.	1.6	18
151	Exocannabinoids effect on in vitro bovine oocyte maturation via activation of AKT and ERK1/2. Reproduction, 2016, 152, 603-612.	1.1	18
152	Progesterone effects on mouse sperm kinetics in conditions of viscosity. Reproduction, 2016, 151, 501-507.	1.1	18
153	Differential effects of high and low glucose concentrations during lipolysis-like conditions on bovine in vitro oocyte quality, metabolism and subsequent embryo development. Reproduction, Fertility and Development, 2017, 29, 2284.	0.1	18
154	Resveratrolâ€“cyclodextrin complex affects the expression of genes associated with lipid metabolism in bovine in vitro produced embryos. Reproduction in Domestic Animals, 2018, 53, 850-858.	0.6	18
155	Minor Splicing Factors Zrsr1 and Zrsr2 Are Essential for Early Embryo Development and 2-Cell-Like Conversion. International Journal of Molecular Sciences, 2020, 21, 4115.	1.8	18
156	Hematopoietic Stem Cell Transplantation in Utero Produces Sheepâ€“Goat Chimeras. Blood Cells, Molecules, and Diseases, 2001, 27, 296-308.	0.6	17
157	Changes in testosterone or temperature during the in vitro oocyte culture do not alter the sex ratio of bovine embryos. Journal of Experimental Zoology, 2009, 311A, 448-452.	1.2	17
158	Acute fasting before conception affects metabolic and endocrine status without impacting follicle and oocyte development and embryo gene expression in the rabbit. Reproduction, Fertility and Development, 2011, 23, 759.	0.1	17
159	Intracytoplasmic Sperm Injection Using DNA-Fragmented Sperm in Mice Negatively Affects Embryo-Derived Embryonic Stem Cells, Reduces the Fertility of Male Offspring and Induces Heritable Changes in Epialleles. PLoS ONE, 2014, 9, e95625.	1.1	17
160	Daily supplementation with ghrelin improves inÂvitro bovine blastocysts formation rate and alters gene expression related to embryo quality. Theriogenology, 2014, 81, 565-571.	0.9	17
161	Î±-Tocopherol modifies the expression of genes related to oxidative stress and apoptosis during in vitro maturation and enhances the developmental competence of rabbit oocytes. Reproduction, Fertility and Development, 2018, 30, 1728.	0.1	17
162	Stage-specific metabolomic changes in equine oviductal fluid: New insights into the equine fertilization environment. Theriogenology, 2020, 143, 35-43.	0.9	17

#	Article	IF	Citations
163	Sperm selection by rheotaxis improves sperm quality and early embryo development. Reproduction, 2021, 161, 343-352.	1.1	17
164	Transgenesis in large domestic species: future development for milk modification. Reproduction, Nutrition, Development, 1999, 39, 535-544.	1.9	16
165	Effect of leptin during in vitro maturation of prepubertal calf oocytes: Embryonic development and relative mRNA abundances of genes involved in apoptosis and oocyte competence. Theriogenology, 2011, 76, 1706-1715.	0.9	16
166	The role of prion protein in stem cell regulation. Reproduction, 2013, 146, R91-R99.	1.1	16
167	Hepatoma-derived growth factor: Protein quantification in uterine fluid, gene expression in endometrial-cell culture and effects on inÂvitro embryo development, pregnancy and birth. Theriogenology, 2017, 96, 118-125.	0.9	16
168	InÂvitro cultured bovine endometrial cells recognize embryonic sex. Theriogenology, 2018, 108, 176-184.	0.9	16
169	Mouse ICSI with frozen-thawed sperm: The impact of sperm freezing procedure and sperm donor strain. Molecular Reproduction and Development, 2003, 66, 98-103.	1.0	15
170	Reduced Mid1 Expression and Delayed Neuromotor Development in daDREAM Transgenic Mice. Frontiers in Molecular Neuroscience, 2012, 5, 58.	1.4	15
171	Short- and long-term outcomes of the absence of protein during bovine blastocyst formation in vitro. Reproduction, Fertility and Development, 2017, 29, 1064.	0.1	15
172	Maternal metabolic stress may affect oviduct gatekeeper function. Reproduction, 2017, 153, 759-773.	1.1	15
173	Oxygen tension during in vitro oocyte maturation and fertilization affects embryo quality in sheep and deer. Animal Reproduction Science, 2020, 213, 106279.	0.5	15
174	Inadvertent presence of pluripotent cells in monolayers derived from differentiated embryoid bodies. International Journal of Developmental Biology, 2007, 51, 397-408.	0.3	15
175	Most regions of mouse epididymis are able to phagocytose immature germ cells. Reproduction, 2013, 146, 481-489.	1.1	14
176	Effect of nutritionally induced hyperlipidaemia on in vitro bovine embryo quality depends on the type of major fatty acid in the diet. Reproduction, Fertility and Development, 2017, 29, 1856.	0.1	14
177	Expanded equine cumulusâ€“oocyte complexes exhibit higher meiotic competence and lower glucose consumption than compact cumulusâ€“oocyte complexes. Reproduction, Fertility and Development, 2018, 30, 297.	0.1	14
178	Effect of supplementation of valine to chicken extender on sperm cryoresistance and post-thaw fertilization capacity. Poultry Science, 2020, 99, 7133-7141.	1.5	14
179	Role of Alternative Splicing in Sex Determination in Vertebrates. Sexual Development, 2021, 15, 381-391.	1.1	13
180	Local Activation of Uterine Toll-Like Receptor 2 and 2/6 Decreases Embryo Implantation and Affects Uterine Receptivity in Mice1. Biology of Reproduction, 2014, 90, 87.	1.2	12

#	Article	IF	Citations
181	Successful ICSI in Mice Using Caput Epididymal Spermatozoa. Frontiers in Cell and Developmental Biology, 2019, 7, 346.	1.8	12
182	Activation of PI3K/Akt Signaling Pathway in Rat Hypothalamus Induced by an Acute Oral Administration of D-Pinitol. Nutrients, 2021, 13, 2268.	1.7	12
183	Hyperplastic Obesity and Liver Steatosis as Long-Term Consequences of Suboptimal In Vitro Culture of Mouse Embryos1. Biology of Reproduction, 2014, 91, 30.	1.2	11
184	Elimination of methylation marks at lysines 4 and 9 of histone 3 (H3K4 and H3K9) of spermatozoa alters offspring phenotype. Reproduction, Fertility and Development, 2017, 29, 740.	0.1	11
185	Effect of chronic THC administration in the reproductive organs of male mice, spermatozoa and in vitro fertilization. Biochemical Pharmacology, 2018, 157, 294-303.	2.0	11
186	Effects of Synchronous and Asynchronous Embryo Transfer on Postnatal Development, Adult Health, and Behavior in Mice1. Biology of Reproduction, 2015, 93, 85.	1.2	10
187	Characterization and profiling analysis of bovine oviduct and uterine extracellular vesicles and their miRNA cargo through the estrous cycle. FASEB Journal, 2021, 35, e22000.	0.2	10
188	In vitro and in vivodevelopment of mice morulae after storage in non-frozen conditions. Reproductive Biology and Endocrinology, 2012, 10, 62.	1.4	9
189	Heterologous murine and bovine IVF using bottlenose dolphin (Tursiops truncatus) spermatozoa. Theriogenology, 2015, 84, 983-994.	0.9	9
190	Sex-Dimorphic Behavioral Alterations and Altered Neurogenesis in U12 Intron Splicing-Defective Zrsr1 Mutant Mice. International Journal of Molecular Sciences, 2019, 20, 3543.	1.8	9
191	An approach to study the local embryo effect on gene expression in the bovine oviduct epithelium in vivo. Reproduction in Domestic Animals, 2019, 54, 1516-1523.	0.6	9
192	Longitudinal analysis of somatic and germâ€cell telomere dynamics in outbred mice. Molecular Reproduction and Development, 2019, 86, 1033-1043.	1.0	9
193	Study of the Metabolomics of Equine Preovulatory Follicular Fluid: A Way to Improve Current In Vitro Maturation Media. Animals, 2020, 10, 883.	1.0	9
194	New Challenges in the Analysis of Gene Transcription in Bovine Blastocysts. Reproduction in Domestic Animals, 2011, 46, 2-10.	0.6	8
195	Expression and localization of ARTEMIN in the bovine uterus and embryos. Theriogenology, 2017, 90, 153-162.	0.9	8
196	Extracellular vesicles derived from endometrial human mesenchymal stem cells improve IVF outcome in an aged murine model. Reproduction in Domestic Animals, 2018, 53, 46-49.	0.6	8
197	The Presence of D-Penicillamine during the In Vitro Capacitation of Stallion Spermatozoa Prolongs Hyperactive-Like Motility and Allows for Sperm Selection by Thermotaxis. Animals, 2020, 10, 1467.	1.0	8
198	ZP4 Is Present in Murine Zona Pellucida and Is Not Responsible for the Specific Gamete Interaction. Frontiers in Cell and Developmental Biology, 2020, 8, 626679.	1.8	8

#	Article	IF	Citations
199	Sperm Metabolomics through Nuclear Magnetic Resonance Spectroscopy. Animals, 2021, 11, 1669.	1.0	8
200	A drastic shift in the energetic landscape of toothed whale sperm cells. Current Biology, 2021, 31, 3648-3655.e9.	1.8	8
201	Treatment with cholesterol-loaded methyl-Î²-cyclodextrin increased the cholesterol in rabbit oocytes, but did not improve developmental competence of cryopreserved oocytes. Cryobiology, 2013, 67, 106-108.	0.3	7
202	Transgenic mouse offspring generated by ROSI. Journal of Reproduction and Development, 2016, 62, 37-42.	0.5	7
203	Ascorbic acidâ€“cyclodextrin complex alters the expression of genes associated with lipid metabolism in bovine in vitro produced embryos. Reproduction in Domestic Animals, 2019, 54, 55-62.	0.6	7
204	D-Chiro-Inositol Treatment Affects Oocyte and Embryo Quality and Improves Glucose Intolerance in Both Aged Mice and Mouse Models of Polycystic Ovarian Syndrome. International Journal of Molecular Sciences, 2020, 21, 6049.	1.8	7
205	Isolation, Characterization, and MicroRNA Analysis of Extracellular Vesicles from Bovine Oviduct and Uterine Fluids. Methods in Molecular Biology, 2021, 2273, 219-238.	0.4	7
206	Genome-wide DNA methylation dynamics during epigenetic reprogramming in the porcine germline. Clinical Epigenetics, 2021, 13, 27.	1.8	7
207	Nobiletin enhances the development and quality of bovine embryos in vitro during two key periods of embryonic genome activation. Scientific Reports, 2021, 11, 11796.	1.6	7
208	Embryo gene expression in response to maternal supplementation with glycogenic precursors in the rabbit. Animal Reproduction Science, 2013, 142, 173-182.	0.5	6
209	Effect of urokinase type plasminogen activator on in vitro bovine oocyte maturation. Reproduction, 2017, 154, 331-340.	1.1	6
210	Gene expression profiles of bovine genital ridges during sex determination and early differentiation of the gonadsâ€. Biology of Reproduction, 2020, 102, 38-52.	1.2	6
211	MicroRNAs in amniotic fluid and maternal blood plasma associated with sex determination and early gonad differentiation in cattle. Biology of Reproduction, 2021, 105, 345-358.	1.2	6
212	Postnatal Catch-Up Growth Programs Telomere Dynamics and Glucose Intolerance in Low Birth Weight Mice. International Journal of Molecular Sciences, 2021, 22, 3657.	1.8	6
213	Expression of bovine Î²-lactoglobulin transgenic mice. Journal of Dairy Research, 1999, 66, 289-294.	0.7	5
214	Bottlenose Dolphin (Tursiops truncatus) Spermatozoa: Collection, Cryopreservation, and Heterologous In Vitro Fertilization. Journal of Visualized Experiments, 2017, , .	0.2	5
215	Inhibiting diacylglycerol acyltransferase-1 reduces lipid biosynthesis in bovine blastocysts produced inÂvitro. Theriogenology, 2020, 158, 267-276.	0.9	5
216	Aberrant Alternative Splicing in U2af1/Tet2 Double Mutant Mice Contributes to Major Hematological Phenotypes. International Journal of Molecular Sciences, 2021, 22, 6963.	1.8	5

#	Article	IF	Citations
217	The impact of CD160 deficiency on alloreactive CD8 T cell responses and allograft rejection. Translational Research, 2021, , .	2.2	5
218	Transcriptome profiling of liver of non-genetic low birth weight and long term health consequences. BMC Genomics, 2014, 15, 327.	1.2	4
219	Cultured bovine embryo biopsy conserves methylation marks from original embryoâ€. Biology of Reproduction, 2017, 97, 189-196.	1.2	4
220	Effects of the HDAC inhibitor scriptaid on the inÂvitro development of bovine embryos and on imprinting gene expression levels. Theriogenology, 2018, 110, 79-85.	0.9	4
221	A high glucose concentration during early stages of in vitro equine embryo development alters expression of genes involved in glucose metabolism. Equine Veterinary Journal, 2021, 53, 787-795.	0.9	4
222	Transit along the vas deferens results in a high percentage of filiform spermatozoa with compacted		

#	Article	IF	Citations
235	Effect of an altered hormonal environment by blood plasma collected after adrenocorticotropic administration on embryo development and gene expression in porcine embryos. Theriogenology, 2021, 162, 15-21.	0.9	1
236	Expression of the FUS domain restores liposarcoma development in CHOP transgenic mice. , 0, .		1
237	The Role of Aquaporin 7 in the Movement of Water and Cryoprotectants in Bovine In Vitro Matured Oocytes. Animals, 2022, 12, 530.	1.0	1
238	Postnatal Effects of Sperm Chromatin Damage. , 2011, , 465-478.		0
239	Germâ€cell culture conditions facilitate the production of mouse embryonic stem cells. Molecular Reproduction and Development, 2014, 81, 794-804.	1.0	0
240	Effects of Zrsr2 Mutations in Mice Oogenesis, Peripheral Blood Cells and Muscle Strength. SSRN Electronic Journal, 0, , .	0.4	0
241	Postnatal Effects of Sperm Chromatin Damage. , 2013, , 277-296.		0
242	Experimental Studies on Sperm DNA Fragmentation and Reproductive Outcomes. , 2018, , 349-363.		0
243	Epigenetic and Assisted Reproduction Experimental Studies. , 2018, , 169-181.		0
244	Minor Splicing Factors <i>Zrsr1</i> and <i>Zrsr2</i> Essential for Gametogenesis, Early Embryo Development and Conversion of Stem Cells into 2C-Like. SSRN Electronic Journal, 0, , .	0.4	0