

Andrew J Watson

List of Publications by Year in descending order

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79
papers

4,632
citations

71061

41
h-index

98753

67
g-index

80
all docs

80
docs citations

80
times ranked

2951
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition from maternal to embryonic control in early mammalian development: A comparison of several species. <i>Molecular Reproduction and Development</i> , 1990, 26, 90-100.	1.0	802
2	Expression of growth factor ligand and receptor genes in the preimplantation bovine embryo. <i>Molecular Reproduction and Development</i> , 1992, 31, 87-95.	1.0	295
3	Impact of Bovine Oocyte Maturation Media on Oocyte Transcript Levels, Blastocyst Development, Cell Number, and Apoptosis ¹ . <i>Biology of Reproduction</i> , 2000, 62, 355-364.	1.2	156
4	Immunofluorescence assessment of the timing of appearance and cellular distribution of Na/K-ATPase during mouse embryogenesis. <i>Developmental Biology</i> , 1988, 126, 80-90.	0.9	145
5	The cell biology of blastocyst development. <i>Molecular Reproduction and Development</i> , 1992, 33, 492-504.	1.0	145
6	Expression of Bovine Trophoblast Interferon in Conceptuses Derived by in Vitro Techniques ¹ . <i>Biology of Reproduction</i> , 1992, 47, 374-380.	1.2	137
7	Aquaporin proteins in murine trophoctoderm mediate transepithelial water movements during cavitation. <i>Developmental Biology</i> , 2003, 256, 342-354.	0.9	133
8	Regulation of blastocyst formation. <i>Frontiers in Bioscience - Landmark</i> , 2001, 6, d708.	3.0	126
9	A Growth Factor Phenotype Map for Ovine Preimplantation Development ¹ . <i>Biology of Reproduction</i> , 1994, 50, 725-733.	1.2	107
10	Preimplantation embryo programming: transcription, epigenetics, and culture environment. <i>Reproduction</i> , 2008, 135, 141-150.	1.1	97
11	p38 MAPK signaling during murine preimplantation development. <i>Developmental Biology</i> , 2004, 268, 76-88.	0.9	90
12	Na/K-ATPase β 1 Subunit Expression Is Required for Blastocyst Formation and Normal Assembly of Trophoctoderm Tight Junction-associated Proteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 12127-12134.	1.6	90
13	Preimplantation Development of in Vitro-Matured and in Vitro-Fertilized Ovine Zygotes: Comparison between Coculture on Oviduct Epithelial Cell Monolayers and Culture under Low Oxygen Atmosphere ¹ . <i>Biology of Reproduction</i> , 1994, 50, 715-724.	1.2	88
14	Regulation of blastocyst formation. <i>Frontiers in Bioscience - Landmark</i> , 2001, 6, d708-730.	3.0	86
15	Stress-inducible phosphoprotein 1 has unique cochaperone activity during development and regulates cellular response to ischemia via the prion protein. <i>FASEB Journal</i> , 2013, 27, 3594-3607.	0.2	86
16	A null mutation for Tissue Inhibitor of Metalloproteinases-3 (Timp-3) impairs murine bronchiole branching morphogenesis. <i>Developmental Biology</i> , 2003, 261, 313-323.	0.9	83
17	Cell polarity and development of the first epithelium. <i>BioEssays</i> , 1990, 12, 67-73.	1.2	79
18	Differentiation of an epithelium: Factors affecting the polarized distribution of Na ⁺ ,K ⁺ -ATPase in mouse trophoctoderm. <i>Developmental Biology</i> , 1990, 141, 104-114.	0.9	75

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19	Analysis of variation in relative mRNA abundance for specific gene transcripts in single bovine oocytes and early embryos. <i>Molecular Reproduction and Development</i> , 1998, 49, 119-130.	1.0	71
20	Cyclooxygenase-2 and Prostaglandin E2(PGE2) Receptor Messenger RNAs Are Affected by Bovine Oocyte Maturation Time and Cumulus-Oocyte Complex Quality, and PGE2 Induces Moderate Expansion of the Bovine Cumulus In Vitro. <i>Biology of Reproduction</i> , 2001, 65, 135-140.	1.2	71
21	Effects of maturation and co-culture treatments on the developmental capacity of early bovine embryos. <i>Molecular Reproduction and Development</i> , 1991, 30, 330-338.	1.0	70
22	Bovine Oviductal and Embryonic Insulin-Like Growth Factor Binding Proteins: Possible Regulators of Embryotrophic Insulin-Like Growth Factor Circuits. <i>Biology of Reproduction</i> , 1997, 56, 1415-1423.	1.2	70
23	mRNAs encoding aquaporins are present during murine preimplantation development. <i>Molecular Reproduction and Development</i> , 2000, 57, 323-330.	1.0	66
24	Expression of Na, K-ATPase α and β subunit genes during preimplantation development of the mouse. <i>Genesis</i> , 1990, 11, 41-48.	3.3	63
25	Na ⁺ /K ⁺ -ATPase regulates tight junction formation and function during mouse preimplantation development. <i>Developmental Biology</i> , 2006, 289, 406-419.	0.9	63
26	Implantation Failure in Female Kiss1 ^{-/-} Mice Is Independent of Their Hypogonadic State and Can Be Partially Rescued by Leukemia Inhibitory Factor. <i>Endocrinology</i> , 2014, 155, 3065-3078.	1.4	61
27	Transient Expression of a Translation Initiation Factor Is Conservatively Associated with Embryonic Gene Activation in Murine and Bovine Embryos. <i>Biology of Reproduction</i> , 1998, 59, 969-977.	1.2	59
28	RGS14 Is a Mitotic Spindle Protein Essential from the First Division of the Mammalian Zygote. <i>Developmental Cell</i> , 2004, 7, 763-769.	3.1	59
29	Genomic RNA profiling and the programme controlling preimplantation mammalian development. <i>Molecular Human Reproduction</i> , 2008, 14, 691-701.	1.3	59
30	Mitogen-activated protein kinase (MAPK) pathways mediate embryonic responses to culture medium osmolarity by regulating Aquaporin 3 and 9 expression and localization, as well as embryonic apoptosis. <i>Human Reproduction</i> , 2009, 24, 1373-1386.	0.4	59
31	Reprogramming of Fibroblast Nuclei after Transfer into Bovine Oocytes. <i>Cloning</i> , 1999, 1, 63-69.	2.1	57
32	Differential Involvement of Na ⁺ ,K ⁺ -ATPase Isozymes in Preimplantation Development of the Mouse. <i>Developmental Biology</i> , 2000, 222, 486-498.	0.9	57
33	Genetic reprogramming of lactate dehydrogenase, citrate synthase, and phosphofructokinase mRNA in bovine nuclear transfer embryos produced using bovine fibroblast cell nuclei. <i>Molecular Reproduction and Development</i> , 2000, 56, 458-464.	1.0	56
34	Responsiveness of bovine cumulus-oocyte-complexes (COC) to porcine and recombinant human FSH, and the effect of COC quality on gonadotropin receptor and Cx43 marker gene mRNAs during maturation in vitro. <i>Reproductive Biology and Endocrinology</i> , 2003, 1, 14.	1.4	56
35	Ouabain sensitivity and expression of Na/K-ATPase α - and β -subunit isoform genes during bovine early development. <i>Molecular Reproduction and Development</i> , 1997, 46, 114-126.	1.0	54
36	Expression of IGF ligand and receptor genes during preimplantation mammalian development. <i>Molecular Reproduction and Development</i> , 1993, 35, 414-420.	1.0	52

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37	Na/K-ATPase-Mediated ^{86Rb} +Uptake and Asymmetrical Trophectoderm Localization of $\hat{1}$ and $\hat{3}$ Na/K-ATPase Isoforms during Bovine Preattachment Development. <i>Developmental Biology</i> , 1998, 197, 77-92.	0.9	47
38	Potential and limitations of bovine-specific arrays for the analysis of mRNA levels in early development: preliminary analysis using a bovine embryonic array. <i>Reproduction, Fertility and Development</i> , 2005, 17, 47.	0.1	46
39	p38 mitogen-activated protein kinase (MAPK) first regulates filamentous actin at the 8-16-cell stage during preimplantation development. <i>Biology of the Cell</i> , 2005, 97, 629-640.	0.7	46
40	Mouse preimplantation embryo responses to culture medium osmolarity include increased expression of CCM2 and p38 MAPK activation. <i>BMC Developmental Biology</i> , 2007, 7, 2.	2.1	46
41	Assessment by differential display-RT-PCR of mRNA transcript transitions and γ -amanitin sensitivity during bovine preattachment development. <i>Molecular Reproduction and Development</i> , 2000, 55, 152-163.	1.0	44
42	p38 MAPK Regulates Cavitation and Tight Junction Function in the Mouse Blastocyst. <i>PLoS ONE</i> , 2013, 8, e59528.	1.1	40
43	Effect of serum and cumulus cell expansion on marker gene transcripts in bovine cumulus-oocyte complexes during maturation in vitro. <i>Fertility and Sterility</i> , 2005, 83, 1077-1085.	0.5	38
44	Mitogen-activated protein kinase (MAPK) blockade of bovine preimplantation embryogenesis requires inhibition of both p38 and extracellular signal-regulated kinase (ERK) pathways. <i>Reproduction</i> , 2005, 130, 41-51.	1.1	33
45	How to make a blastocyst. <i>Biochemistry and Cell Biology</i> , 1992, 70, 849-855.	0.9	31
46	Embryo collection induces transient activation of XBP1 arm of the ER stress response while embryo vitrification does not. <i>Molecular Human Reproduction</i> , 2012, 18, 229-242.	1.3	30
47	U2 small nuclear RNA localization and expression during bovine preimplantation development. <i>Molecular Reproduction and Development</i> , 1992, 31, 231-240.	1.0	29
48	Targeting gene expression in the preimplantation mouse embryo using morpholino antisense oligonucleotides. <i>Molecular Reproduction and Development</i> , 2002, 63, 413-421.	1.0	25
49	Ovarian Stanniocalcin Is Structurally Unique in Mammals and Its Production and Release Are Regulated through the Luteinizing Hormone Receptor. <i>Endocrinology</i> , 2002, 143, 3925-3934.	1.4	24
50	Roles of Na,K-ATPase in Early Development and Trophectoderm Differentiation. <i>Seminars in Nephrology</i> , 2005, 25, 352-355.	0.6	21
51	Rac-1 and IQGAP are potential regulators of E-cadherin-catenin interactions during murine preimplantation development. <i>Mechanisms of Development</i> , 2002, 119, S21-S26.	1.7	20
52	Treatment with AICAR inhibits blastocyst development, trophectoderm differentiation and tight junction formation and function in mice. <i>Molecular Human Reproduction</i> , 2017, 23, 771-785.	1.3	17
53	PP2C $\hat{1}$ (Ppm1d, WIP1), an endogenous inhibitor of p38 MAPK, is regulated along WithTrp53 andCdkn2a following p38 MAPK inhibition during mouse preimplantation development. <i>Molecular Reproduction and Development</i> , 2007, 74, 821-834.	1.0	14
54	Oocyte peptides as paracrine tools for ovarian stimulation and oocyte maturation. <i>Molecular Human Reproduction</i> , 2009, 15, 789-794.	1.3	14

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55	Ouabain Stimulates a Na ⁺ /K ⁺ -ATPase-Mediated SFK-Activated Signalling Pathway That Regulates Tight Junction Function in the Mouse Blastocyst. <i>PLoS ONE</i> , 2011, 6, e23704.	1.1	14
56	P66Shc, a key regulator of metabolism and mitochondrial ROS production, is dysregulated by mouse embryo culture. <i>Molecular Human Reproduction</i> , 2016, 22, 634-647.	1.3	14
57	Oleic Acid Counters Impaired Blastocyst Development Induced by Palmitic Acid During Mouse Preimplantation Development: Understanding Obesity-Related Declines in Fertility. <i>Reproductive Sciences</i> , 2020, 27, 2038-2051.	1.1	14
58	SNAI1 and SNAI2 Are Asymmetrically Expressed at the 2-Cell Stage and Become Segregated to the TE in the Mouse Blastocyst. <i>PLoS ONE</i> , 2009, 4, e8530.	1.1	12
59	Regulation of Early Embryonic Development by Growth Factors: Growth Factor Gene Expression in Cloned Bovine Embryos. <i>Journal of Animal Science</i> , 1996, 74, 50.	0.2	10
60	Effect of estrogen-treated porcine ampulla oviductal epithelial cells on early embryonic development in vitro and characterization of their protein synthetic activity. <i>Animal Reproduction Science</i> , 1996, 45, 217-229.	0.5	9
61	Culture medium, gas atmosphere and MAPK inhibition affect regulation of RNA-binding protein targets during mouse preimplantation development. <i>Reproduction</i> , 2011, 142, 689-698.	1.1	8
62	Characterization of a bovine cDNA encoding citrate synthase, and presence of citrate synthase mRNA during bovine pre-attachment development. <i>Molecular Reproduction and Development</i> , 2000, 55, 14-19.	1.0	7
63	Effects of American Ginseng on Preimplantation Development and Pregnancy in Mice. <i>The American Journal of Chinese Medicine</i> , 2016, 44, 981-995.	1.5	7
64	Differential localization patterns of pyruvate kinase isoforms in murine naïve, formative, and primed pluripotent states. <i>Experimental Cell Research</i> , 2021, 405, 112714.	1.2	6
65	Analysis of TERT Isoforms across TCGA, GTEx and CCLE Datasets. <i>Cancers</i> , 2021, 13, 1853.	1.7	5
66	Free fatty acid treatment of mouse preimplantation embryos demonstrates contrasting effects of palmitic acid and oleic acid on autophagy. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C833-C848.	2.1	4
67	Knockdown of p66Shc Alters Lineage-Associated Transcription Factor Expression in Mouse Blastocysts. <i>Stem Cells and Development</i> , 2018, 27, 1479-1493.	1.1	3
68	In vitro fertilization cycles stimulated with follitropin delta result in similar embryo development and quality when compared with cycles stimulated with follitropin alfa or follitropin beta. <i>F&S Reports</i> , 2021, 2, 30-35.	0.4	3
69	Analysis of variation in relative mRNA abundance for specific gene transcripts in single bovine oocytes and early embryos. , 1998, 49, 119.		3
70	Activation of the Embryonic Genome: Comparisons Between Mouse and Bovine Development. , 1993, , 115-130.		3
71	CD-1 mouse fertility rapidly declines and is accompanied with early pregnancy loss under conventional housing conditions. <i>Theriogenology</i> , 2018, 108, 245-254.	0.9	2
72	Genetic reprogramming of lactate dehydrogenase, citrate synthase, and phosphofructokinase mRNA in bovine nuclear transfer embryos produced using bovine fibroblast cell nuclei. <i>Molecular Reproduction and Development</i> , 2000, 56, 458-464.	1.0	2

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73	Outer Space and Oocyte Developmental Competence. <i>Biology of Reproduction</i> , 2012, 86, 75.	1.2	1
74	Effects of palmitic acid on localization of embryo cell fate and blastocyst formation gene products. <i>Reproduction</i> , 2022, 163, 133-143.	1.1	1
75	Role of the $\hat{1}$ and $\hat{2}$ subunits of Na ⁺ , K ⁺ -ATPase in trophoctoderm differentiation and cavitation. <i>Placenta</i> , 1998, 19, 87-99.	0.7	0
76	Prospects for improved pregnancy outcomes by assisted reproductive technologies. <i>Seminars in Fetal and Neonatal Medicine</i> , 1999, 4, 115-123.	2.8	0
77	Analysis of the embryonic transcriptome. , 0, , 269-277.		0
78	Flow Cytometric Characterization of Pluripotent Cell Protein Markers in Na ⁺ -ve, Formative, and Primed Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2022, 2490, 81-92.	0.4	0
79	3D Immunofluorescent Image Colocalization Quantification in Mouse Epiblast Stem Cells. <i>Methods in Molecular Biology</i> , 2022, 2490, 69-79.	0.4	0