

Dean H Betts

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

2,251
citations

29
h-index

45
g-index

84
ext. papers

2,476
ext. citations

3.4
avg, IF

4.81
L-index

#	Paper	IF	Citations
74	Isolation of mesenchymal stem cells from equine umbilical cord blood. <i>BMC Biotechnology</i> , 2007 , 7, 26	3.5	150
73	Apoptosis in the early bovine embryo. <i>Zygote</i> , 2000 , 8, 57-68	1.6	127
72	Genetic regulation of embryo death and senescence. <i>Theriogenology</i> , 2001 , 55, 171-91	2.8	120
71	Permanent embryo arrest: molecular and cellular concepts. <i>Molecular Human Reproduction</i> , 2008 , 14, 445-53	4.4	93
70	High levels of p66shc and intracellular ROS in permanently arrested early embryos. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 1201-10	7.8	93
69	The effects of antibodies to heat shock protein 70 in fertilization and embryo development. <i>Molecular Human Reproduction</i> , 2001 , 7, 829-37	4.4	89
68	Characterization and Immunomodulatory Effects of Canine Adipose Tissue- and Bone Marrow-Derived Mesenchymal Stromal Cells. <i>PLoS ONE</i> , 2016 , 11, e0167442	3.7	69
67	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, 3594-607	0.9	65
66	Chondrogenic potential of mesenchymal stromal cells derived from equine bone marrow and umbilical cord blood. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2009 , 22, 363-70	1.2	63
65	Reprogramming of telomerase activity and rebuilding of telomere length in cloned cattle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1077-82	11.5	61
64	Telomerase activity and telomere detection during early bovine development. <i>Genesis</i> , 1999 , 25, 397-403		56
63	Gene expression regulating blastocyst formation. <i>Theriogenology</i> , 1999 , 51, 117-33	2.8	56
62	The early embryo response to intracellular reactive oxygen species is developmentally regulated. <i>Reproduction, Fertility and Development</i> , 2011 , 23, 561-75	1.8	55
61	p66shc, but not p53, is involved in early arrest of in vitro-produced bovine embryos. <i>Molecular Human Reproduction</i> , 2004 , 10, 383-92	4.4	54
60	Differential involvement of Na(+),K(+)-ATPase isozymes in preimplantation development of the mouse. <i>Developmental Biology</i> , 2000 , 222, 486-98	3.1	52
59	Ouabain sensitivity and expression of Na/K-ATPase alpha- and beta-subunit isoform genes during bovine early development. <i>Molecular Reproduction and Development</i> , 1997 , 46, 114-26	2.6	50
58	The impact of oocyte maturation media on early bovine embryonic development. <i>Molecular Reproduction and Development</i> , 2006 , 73, 1255-70	2.6	48

57	Characterization of canine embryonic stem cell lines derived from different niche microenvironments. <i>Stem Cells and Development</i> , 2009 , 18, 1167-78	4.4	47
56	Global gene expression response to telomerase in bovine adrenocortical cells. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 335, 925-36	3.4	47
55	The oxidative stress adaptor p66Shc is required for permanent embryo arrest in vitro. <i>BMC Developmental Biology</i> , 2007 , 7, 132	3.1	44
54	Na/K-ATPase-mediated 86Rb+ uptake and asymmetrical trophectoderm localization of alpha1 and alpha3 Na/K-ATPase isoforms during bovine preattachment development. <i>Developmental Biology</i> , 1998 , 197, 77-92	3.1	42
53	S-adenosylhomocysteine treatment of adult female fibroblasts alters X-chromosome inactivation and improves in vitro embryo development after somatic cell nuclear transfer. <i>Reproduction</i> , 2008 , 135, 815-28	3.8	40
52	Expression profiles of p53 and p66shc during oxidative stress-induced senescence in fetal bovine fibroblasts. <i>Experimental Cell Research</i> , 2004 , 299, 36-48	4.2	39
51	Proteomic analysis of extracellular matrices used in stem cell culture. <i>Proteomics</i> , 2011 , 11, 3983-91	4.8	37
50	Role of chromosome stability and telomere length in the production of viable cell lines for somatic cell nuclear transfer. <i>BMC Developmental Biology</i> , 2006 , 6, 41	3.1	35
49	Mass spectrometry-based proteomic analysis of the matrix microenvironment in pluripotent stem cell culture. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, 1924-36	7.6	33
48	Improved isolation protocol for equine cord blood-derived mesenchymal stromal cells. <i>Cytotherapy</i> , 2009 , 11, 443-7	4.8	33
47	Different culture media requirements of IVF and nuclear transfer bovine embryos. <i>Reproduction in Domestic Animals</i> , 2004 , 39, 462-7	1.6	32
46	Stem cell therapy for joint problems using the horse as a clinically relevant animal model. <i>Expert Opinion on Biological Therapy</i> , 2007 , 7, 1621-6	5.4	30
45	Concepts for the clinical use of stem cells in equine medicine. <i>Canadian Veterinary Journal</i> , 2008 , 49, 1009-17	0.5	29
44	The role of telomeres and telomerase reverse transcriptase isoforms in pluripotency induction and maintenance. <i>RNA Biology</i> , 2016 , 13, 707-19	4.8	28
43	The long and short of it: the role of telomeres in fetal origins of adult disease. <i>Journal of Pregnancy</i> , 2012 , 2012, 638476	2.5	27
42	Genomic stability and physiological assessments of live offspring sired by a bull clone, Starbuck II. <i>Theriogenology</i> , 2007 , 67, 116-26	2.8	25
41	Telomere length status of somatic cell sheep clones and their offspring. <i>Molecular Reproduction and Development</i> , 2007 , 74, 1525-37	2.6	24
40	Low oxygen delays fibroblast senescence despite shorter telomeres. <i>Biogerontology</i> , 2008 , 9, 19-31	4.5	24

39	Telomere length analysis in goat clones and their offspring. <i>Molecular Reproduction and Development</i> , 2005 , 72, 461-70	2.6	24
38	The p66(Shc) adaptor protein controls oxidative stress response in early bovine embryos. <i>PLoS ONE</i> , 2014 , 9, e86978	3.7	22
37	Synaptically-competent neurons derived from canine embryonic stem cells by lineage selection with EGF and Noggin. <i>PLoS ONE</i> , 2011 , 6, e19768	3.7	22
36	The impact of chromosomal alteration on embryo development. <i>Theriogenology</i> , 2006 , 65, 166-77	2.8	22
35	Alternative splicing and expression analysis of bovine DNA methyltransferase 1. <i>Developmental Dynamics</i> , 2008 , 237, 1051-9	2.9	19
34	p66Shc activation promotes increased oxidative phosphorylation and renders CNS cells more vulnerable to amyloid beta toxicity. <i>Scientific Reports</i> , 2018 , 8, 17081	4.9	19
33	Long telomeres bypass the requirement for telomere maintenance in human tumorigenesis. <i>Cell Reports</i> , 2012 , 1, 91-8	10.6	17
32	Connexin43 Mutant Patient-Derived Induced Pluripotent Stem Cells Exhibit Altered Differentiation Potential. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1368-1385	6.3	15
31	Lactate preconditioning promotes a HIF-1 β -mediated metabolic shift from OXPHOS to glycolysis in normal human diploid fibroblasts. <i>Scientific Reports</i> , 2020 , 10, 8388	4.9	13
30	Canine Pluripotent Stem Cells: Are They Ready for Clinical Applications?. <i>Frontiers in Veterinary Science</i> , 2015 , 2, 41	3.1	13
29	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	4.4	12
28	Use of somatic cell nuclear transfer to study meiosis in female cattle carrying a sex-dependent fertility-impairing X-chromosome abnormality. <i>Cloning and Stem Cells</i> , 2007 , 9, 118-29		11
27	Small-Molecule Induction of Canine Embryonic Stem Cells Toward Naïve Pluripotency. <i>Stem Cells and Development</i> , 2016 , 25, 1208-22	4.4	9
26	Telomerase activity in clinically normal dogs and dogs with malignant lymphoma. <i>American Journal of Veterinary Research</i> , 2001 , 62, 1442-6	1.1	9
25	P66Shc, a key regulator of metabolism and mitochondrial ROS production, is dysregulated by mouse embryo culture. <i>Molecular Human Reproduction</i> , 2016 , 22, 634-47	4.4	9
24	The use of induced pluripotent stem cells in domestic animals: a narrative review. <i>BMC Veterinary Research</i> , 2020 , 16, 477	2.7	8
23	Osteogenic differentiation of equine cord blood multipotent mesenchymal stromal cells within coralline hydroxyapatite scaffolds in vitro. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2011 , 24, 354-62	1.2	8
22	Dynamic regulation of connexins in stem cell pluripotency. <i>Stem Cells</i> , 2020 , 38, 52-66	5.8	8

21	Quantitative analysis of telomerase activity and telomere length in domestic animal clones. <i>Methods in Molecular Biology</i> , 2006 , 325, 149-80	1.4	7
20	Derivation and culture of canine embryonic stem cells. <i>Methods in Molecular Biology</i> , 2013 , 1074, 69-83	1.4	7
19	Elevated p66Shc is associated with intracellular redox imbalance in developmentally compromised bovine embryos. <i>Molecular Reproduction and Development</i> , 2013 , 80, 22-34	2.6	6
18	In vitro developmental potential of nuclear transfer embryos cloned with enucleation methods using pre-denuded bovine oocytes. <i>Reproduction in Domestic Animals</i> , 2011 , 46, 1035-42	1.6	6
17	Analysis of Mitochondrial Dimensions and Cristae Structure in Pluripotent Stem Cells Using Transmission Electron Microscopy. <i>Current Protocols in Stem Cell Biology</i> , 2018 , 47, e67	2.8	6
16	Metabolic plasticity during transition to naïve-like pluripotency in canine embryo-derived stem cells. <i>Stem Cell Research</i> , 2018 , 30, 22-33	1.6	6
15	Viable iPSC mice: a step closer to therapeutic applications in humans?. <i>Molecular Human Reproduction</i> , 2010 , 16, 57-62	4.4	5
14	Targeted expression profiling reveals distinct stages of early canine fibroblast reprogramming are regulated by 2-oxoglutarate hydroxylases. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 528	8.3	4
13	Pannexin 1 binds Ectenin to modulate melanoma cell growth and metabolism. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100478	5.4	4
12	Low levels of X-inactive specific transcript in somatic cell nuclear transfer embryos derived from female bovine freemartin donor cells. <i>Sexual Development</i> , 2012 , 6, 151-9	1.6	3
11	Early pregnancy diagnosis by serum progesterone and ultrasound in sheep carrying somatic cell nuclear transfer-derived pregnancies. <i>Reproduction in Domestic Animals</i> , 2008 , 43, 207-11	1.6	3
10	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	3	2
9	Localization of Esubunits and comparison of Esubunit transcript levels in single cultured and in vivo bovine blastocysts. <i>Theriogenology</i> , 1997 , 47, 316	2.8	2
8	Extracellular vesicles, microRNA and the preimplantation embryo: non-invasive clues of embryo well-being. <i>Reproductive BioMedicine Online</i> , 2021 , 42, 39-54	4	2
7	Delivering Antisense Morpholino Oligonucleotides to Target Telomerase Splice Variants in Human Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2016 , 1341, 133-42	1.4	1
6	Knockdown of p66Shc Alters Lineage-Associated Transcription Factor Expression in Mouse Blastocysts. <i>Stem Cells and Development</i> , 2018 , 27, 1479-1493	4.4	1
5	Cell Therapy in Veterinary Medicine as a Proof-of-Concept for Human Therapies: Perspectives From the North American Veterinary Regenerative Medicine Association.. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 779109	3.1	1
4	CD-1 mouse fertility rapidly declines and is accompanied with early pregnancy loss under conventional housing conditions. <i>Theriogenology</i> , 2018 , 108, 245-254	2.8	0

- 3 Differential localization patterns of pyruvate kinase isoforms in murine naïve, formative, and primed pluripotent states. *Experimental Cell Research*, **2021**, 405, 112714 4.2 ○
- 2 Flow Cytometric Characterization of Pluripotent Cell Protein Markers in Naïve, Formative, and Primed Pluripotent Stem Cells.. *Methods in Molecular Biology*, **2022**, 2490, 81-92 1.4
- 1 3D Immunofluorescent Image Colocalization Quantification in Mouse Epiblast Stem Cells.. *Methods in Molecular Biology*, **2022**, 2490, 69-79 1.4