En-Kui Duan

List of Publications by Year in Descending Order

96 papers	3,655 citations	28 h-index	59 g-index
100 ext. papers	4,604 ext. citations	8.1 avg, IF	5.36 L-index

#	Paper	IF	Citations
96	RNA Modification Signature of Peripheral Blood as a Potential Diagnostic Marker for Pulmonary Hypertension.. *Hypertension*, **2022**, HYPERTENSIONAHA12118724	8.5	0
95	High-Efficiency Differentiation of Human Pluripotent Stem Cells to Hematopoietic Stem/Progenitor Cells in Random Positioning Machine Bioreactors. *Methods in Molecular Biology*, **2021**, 55	1.4	1
94	Simulated Microgravity Potentiates Hematopoietic Differentiation of Human Pluripotent Stem Cells and Supports Formation of 3D Hematopoietic Cluster.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 797060	5.7	1
93	Cooperation-based sperm clusters mediate sperm oviduct entry and fertilization. *Protein and Cell*, **2021**, 12, 810-817	7.2	4
92	Development of mouse preimplantation embryos in space. *National Science Review*, **2020**, 7, 1437-1446	10.8	4
91	Impacts of Caffeine during Pregnancy. *Trends in Endocrinology and Metabolism*, **2020**, 31, 218-227	8.8	15
90	Analysis of uterine peristalsis in the non-pregnant female mouse. *Interface Focus*, **2019**, 9, 20180082	3.9	4
89	LncRNAs and paraspeckles predict cell fate in early mouse embryo*Biology of Reproduction*, **2019**, 100, 1129-1131	3.9	
88	Chemically induced transformation of human dermal fibroblasts to hair-inducing dermal papilla-like cells. *Cell Proliferation*, **2019**, 52, e12652	7.9	5
87	Introduction to Results of Life Sciences from SJ-10 Recoverable Satellite. *Research for Development* , **2019**, 1-8	0.4	
86	Induction of differentiation of human stem cells : Toward large-scale platelet production. *World Journal of Stem Cells*, **2019**, 11, 666-676	5.6	
85	Advances of Mammalian Reproduction and Embryonic Development Under Microgravity. *Research for Development*, **2019**, 281-315	0.4	2
84	Dnmt2 mediates intergenerational transmission of paternally acquired metabolic disorders through sperm small non-coding RNAs. *Nature Cell Biology*, **2018**, 20, 535-540	23.4	183
83	Fighting against Skin Aging: The Way from Bench to Bedside. *Cell Transplantation*, **2018**, 27, 729-738	4	199
82	Caffeine consumption during early pregnancy impairs oviductal embryo transport, embryonic development and uterine receptivity in mice. *Biology of Reproduction*, **2018**, 99, 1266-1275	3.9	5
81	Effect of microgravity on proliferation and differentiation of embryonic stem cells in an automated culturing system during the TZ-1 space mission. *Cell Proliferation*, **2018**, 51, e12466	7.9	15
80	Cover Image, Volume 51, Issue 5. *Cell Proliferation*, **2018**, 51, e12535	7.9	78

79	BCAS2 is involved in alternative mRNA splicing in spermatogonia and the transition to meiosis. *Nature Communications*, **2017**, 8, 14182	17.4	23
78	Estrogen receptors in granulosa cells govern meiotic resumption of pre-ovulatory oocytes in mammals. *Cell Death and Disease*, **2017**, 8, e2662	9.8	51
77	Uterine Fluid in Pregnancy: A Biological and Clinical Outlook. *Trends in Molecular Medicine*, **2017**, 23, 604-614	10.9	27
76	Silk fibroin/chitosan scaffold with tunable properties and low inflammatory response assists the differentiation of bone marrow mesenchymal stem cells. *International Journal of Biological Macromolecules*, **2017**, 105, 584-597	7.9	41
75	GPR39 is region-specifically expressed in mouse oviduct correlating with the Zn distribution. *Theriogenology*, **2017**, 88, 98-105	2.8	4
74	Decidual Stromal Cell Necroptosis Contributes to Polyinosinic-Polycytidylic Acid-Triggered Abnormal Murine Pregnancy. *Frontiers in Immunology*, **2017**, 8, 916	8.4	5
73	Sperm tsRNAs contribute to intergenerational inheritance of an acquired metabolic disorder. *Science*, **2016**, 351, 397-400	33.3	713
72	Integrated Biophysical and Biochemical Signals Augment Megakaryopoiesis and Thrombopoiesis in a Three-Dimensional Rotary Culture System. *Stem Cells Translational Medicine*, **2016**, 5, 175-85	6.9	21
71	Exogenous R-Spondin1 Induces Precocious Telogen-to-Anagen Transition in Mouse Hair Follicles. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	13
70	Expansion of Hair Follicle Stem Cells Sticking to Isolated Sebaceous Glands to Generate in Vivo Epidermal Structures. *Cell Transplantation*, **2016**, 25, 2071-2082	4	9
69	BTG4 is a key regulator for maternal mRNA clearance during mouse early embryogenesis. *Journal of Molecular Cell Biology*, **2016**, 8, 366-8	6.3	36
68	Uniform Embryoid Body Production and Enhanced Mesendoderm Differentiation with Murine Embryonic Stem Cells in a Rotary Suspension Bioreactor. *Methods in Molecular Biology*, **2016**, 1502, 63-75	1.4	7
67	Epigenetic inheritance of acquired traits through sperm RNAs and sperm RNA modifications. *Nature Reviews Genetics*, **2016**, 17, 733-743	30.1	298
66	Senescence of human skin-derived precursors regulated by Akt-FOXO3-p27(KIP□)/p15(INKB) signaling. *Cellular and Molecular Life Sciences*, **2015**, 72, 2949-60	10.3	16
65	MSX2 mediates entry of human pluripotent stem cells into mesendoderm by simultaneously suppressing SOX2 and activating NODAL signaling. *Cell Research*, **2015**, 25, 1314-32	24.7	43
64	Dynamic transcriptional symmetry-breaking in pre-implantation mammalian embryo development revealed by single-cell RNA-seq. *Development (Cambridge)*, **2015**, 142, 3468-77	6.6	67
63	Effect of Short-Term Hypergravity Treatment on Mouse 2-Cell Embryo Development. *Microgravity Science and Technology*, **2015**, 27, 465-471	1.6	5
62	Mechano-biological Coupling of Cellular Responses to Microgravity. *Microgravity Science and Technology*, **2015**, 27, 505-514	1.6	10

61	Aquaporin-dependent excessive intrauterine fluid accumulation is a major contributor in hyper-estrogen induced aberrant embryo implantation. *Cell Research*, **2015**, 25, 139-42	24.7	25
60	GPR39 marks specific cells within the sebaceous gland and contributes to skin wound healing. *Scientific Reports*, **2015**, 5, 7913	4.9	17
59	Ovine Hair Follicle Stem Cells Derived from Single Vibrissae Reconstitute Haired Skin. *International Journal of Molecular Sciences*, **2015**, 16, 17779-97	6.3	10
58	Spatiotemporal Expression of p63 in Mouse Epidermal Commitment. *International Journal of Molecular Sciences*, **2015**, 16, 29542-53	6.3	5
57	mTOR signaling promotes stem cell activation via counterbalancing BMP-mediated suppression during hair regeneration. *Journal of Molecular Cell Biology*, **2015**, 7, 62-72	6.3	50
56	Epigenetic regulations on skin wound healing: implications from current researches. *Annals of Translational Medicine*, **2015**, 3, 227	3.2	3
55	Rotary suspension culture enhances mesendoderm differentiation of embryonic stem cells through modulation of Wnt/β-catenin pathway. *Stem Cell Reviews and Reports*, **2014**, 10, 526-38	6.4	21
54	Uterine Rbpj is required for embryonic-uterine orientation and decidual remodeling via Notch pathway-independent and -dependent mechanisms. *Cell Research*, **2014**, 24, 925-42	24.7	51
53	Atg7 is required for acrosome biogenesis during spermatogenesis in mice. *Cell Research*, **2014**, 24, 852-69	24.7	156
52	Egr1 protein acts downstream of estrogen-leukemia inhibitory factor (LIF)-STAT3 pathway and plays a role during implantation through targeting Wnt4. *Journal of Biological Chemistry*, **2014**, 289, 23534-45	5.4	45
51	Three-dimensional hydrogel scaffolds facilitate in vitro self-renewal of human skin-derived precursors. *Acta Biomaterialia*, **2014**, 10, 3177-87	10.8	10
50	Navigating the site for embryo implantation: biomechanical and molecular regulation of intrauterine embryo distribution. *Molecular Aspects of Medicine*, **2013**, 34, 1024-42	16.7	49
49	Epidermal development in mammals: key regulators, signals from beneath, and stem cells. *International Journal of Molecular Sciences*, **2013**, 14, 10869-95	6.3	64
48	Hormonal regulation of ovarian bursa fluid in mice and involvement of aquaporins. *PLoS ONE*, **2013**, 8, e63823	3.7	11
47	Excessive intrauterine fluid cause aberrant implantation and pregnancy outcome in mice. *PLoS ONE* , **2013**, 8, e78446	3.7	16
46	Determinants of uterine aging: lessons from rodent models. *Science China Life Sciences*, **2012**, 55, 687-93	8.5	14
45	A novel class of tRNA-derived small RNAs extremely enriched in mature mouse sperm. *Cell Research* , **2012**, 22, 1609-12	24.7	212
44	Hair follicle stem cells derived from single rat vibrissa via organ culture reconstitute hair follicles in vivo. *Cell Transplantation*, **2012**, 21, 1075-85	4	14

43	Estrogen leads to reversible hair cycle retardation through inducing premature catagen and maintaining telogen. *PLoS ONE*, **2012**, 7, e40124	3.7	28
42	Aquaporin 7 expression in postimplantation mouse uteri: a potential role for glycerol transport in uterine decidualization. *Fertility and Sterility*, **2011**, 95, 1514-7.e1-3	4.8	14
41	GPR39, a putative receptor of Zn2+, is region specifically localized in different lobes of the mouse prostate. *Urology*, **2011**, 77, 1010.e1-6	1.6	3
40	The PI3K-Akt pathway inhibits senescence and promotes self-renewal of human skin-derived precursors in vitro. *Aging Cell*, **2011**, 10, 661-74	9.9	57
39	Aquaporin3 is a sperm water channel essential for postcopulatory sperm osmoadaptation and migration. *Cell Research*, **2011**, 21, 922-33	24.7	100
38	Transient {beta}2-adrenoceptor activation confers pregnancy loss by disrupting embryo spacing at implantation. *Journal of Biological Chemistry*, **2011**, 286, 4349-56	5.4	35
37	Gonadotrophin-induced paracrine regulation of human oocyte maturation by BDNF and GDNF secreted by granulosa cells. *Human Reproduction*, **2011**, 26, 695-702	5.7	43
36	NASA-approved rotary bioreactor enhances proliferation of human epidermal stem cells and supports formation of 3D epidermis-like structure. *PLoS ONE*, **2011**, 6, e26603	3.7	56
35	Skeletal myogenic potential of mouse skin-derived precursors. *Stem Cells and Development*, **2010**, 19, 259-68	4.4	19
34	mTOR supports long-term self-renewal and suppresses mesoderm and endoderm activities of human embryonic stem cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7840-5	11.5	157
33	CXCL14 inhibits trophoblast outgrowth via a paracrine/autocrine manner during early pregnancy in mice. *Journal of Cellular Physiology*, **2009**, 221, 448-57	7	26
32	Adam12 plays a role during uterine decidualization in mice. *Cell and Tissue Research*, **2009**, 338, 413-21	4.2	15
31	Embryo implantation: A time for recalling and forwarding. *Science Bulletin*, **2009**, 54, 4083-4093		5
30	Roles of Dickkopf-1 and its receptor Kremen1 during embryonic implantation in mice. *Fertility and Sterility*, **2008**, 90, 1470-9	4.8	13
29	Effects of Wnt3a on proliferation and differentiation of human epidermal stem cells. *Biochemical and Biophysical Research Communications*, **2008**, 368, 483-8	3.4	25
28	Enrichment of putative human epidermal stem cells based on cell size and collagen type IV adhesiveness. *Cell Research*, **2008**, 18, 360-71	24.7	38
27	Dickkopf-1 secreted by decidual cells promotes trophoblast cell invasion during murine placentation. *Reproduction*, **2008**, 135, 367-75	3.8	48
26	Advances in the study on induced pluripotent stem cells. *Science Bulletin*, **2008**, 53, 709-717		1

25	Real-Time Micrography of Mouse Preimplantation Embryos in an Orbit Module on SJ-8 Satellite. *Microgravity Science and Technology*, **2008**, 20, 127-136	1.6	8
24	Nitric oxide affects preimplantation embryonic development in a rotating wall vessel bioreactor simulating microgravity. *Cell Biology International*, **2007**, 31, 24-9	4.5	12
23	Role of sonic hedgehog in maintaining a pool of proliferating stem cells in the human fetal epidermis. *Human Reproduction*, **2006**, 21, 1698-704	5.7	35
22	Leptin-directed embryo implantation: leptin regulates adhesion and outgrowth of mouse blastocysts and receptivity of endometrial epithelial cells. *Animal Reproduction Science*, **2006**, 92, 155-67	2.1	27
21	Dickkopf-1 induced apoptosis in human placental choriocarcinoma is independent of canonical Wnt signaling. *Biochemical and Biophysical Research Communications*, **2006**, 350, 641-7	3.4	36
20	Expression and hormonal regulation of calcyclin-binding protein (CacyBP) in the mouse uterus during early pregnancy. *Life Sciences*, **2006**, 78, 753-60	6.8	19
19	Matrix metalloproteinases (MMPs) and trophoblast invasion. *Science Bulletin*, **2005**, 50, 1169-1173		3
18	Enrichment and identification of human 'fetal' epidermal stem cells. *Human Reproduction*, **2004**, 19, 968-74	3.4	16
17	Enrichment and characterization of mouse putative epidermal stem cells. *Cell Biology International*, **2004**, 28, 523-9	4.5	21
16	Dual roles of progesterone in embryo implantation in mouse. *Endocrine*, **2003**, 21, 123-32		20
15	Regulation of mouse blastocyst adhesion, outgrowth and matrix metalloproteinase-2 by focal adhesion kinase. *Science Bulletin*, **2003**, 48, 475-479		
14	Interfamily pregnancy and expression of CD57, CD68 in deciduas between golden hamster and mouse. *Science Bulletin*, **2003**, 48, 1956-1961		
13	Effects of fibronectin, VEGF and angiostatin on the expression of MMPs through different signaling pathways in the JEG-3 cells. *American Journal of Reproductive Immunology*, **2003**, 50, 273-85	3.8	7
12	Effect of matrix metallo-proteinase-26 (MMP-26) during embryo implantation in the mouse. *Science Bulletin*, **2002**, 47, 1884-1888		
11	Expression of matrix metalloproteinase-26 and tissue inhibitor of metalloproteinase-4 in human normal cytotrophoblast cells and a choriocarcinoma cell line, JEG-3. *Molecular Human Reproduction*, **2002**, 8, 659-66	4.4	52
10	IGF-II and IGFBP-1 reversely regulate blastocyst implantation in mouse. *Science Bulletin*, **2002**, 47, 1816-1820		
9	Advances in stem cell research. *Science Bulletin*, **2001**, 46, 793-795		1
8	Advances in interspecific pregnancy. *Science Bulletin*, **2001**, 46, 1772-1778		3

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7	Expression of vascular endothelial growth factor in rat uterus during peri-implantation. *Science Bulletin*, **2001**, 46, 1178-1181	1
6	The expression and function of VEGF at embryo implantation window in the mouse. *Science Bulletin*, **2001**, 46, 409-411	7
5	Effect of fibronectin and leukaemia inhibitory factor on matrix metalloproteinases in mouse blastocyst. *Science Bulletin*, **2001**, 46, 1296-1299	2
4	Induction of matrix metalloproteinase-9 and -2 activity in mouse blastocyst by fibronectin-integrin interaction. *Science Bulletin*, **2000**, 45, 1266-1270	6
3	Role of V3 integrin in embryo implantation in the mouse. *Science Bulletin*, **2000**, 45, 2077-2081	8
2	Effects of blocking LeY oligosaccharide on cell surface to MMPs secreted by blastocysts and epithelial cells in mousein vitro. *Science Bulletin*, **1998**, 43, 1461-1465	5
1	Expression, distribution and function of the focal adhesion kinase (pp125FAK) during murine ectoplacental cone outgrowthin vitro. *Science Bulletin*, **1998**, 43, 1473-1480	5