

En-Kui Duan

List of Publications by Citations

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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.

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	Sperm tsRNAs contribute to intergenerational inheritance of an acquired metabolic disorder. <i>Science</i> , 2016 , 351, 397-400	33.3	713
95	Epigenetic inheritance of acquired traits through sperm RNAs and sperm RNA modifications. <i>Nature Reviews Genetics</i> , 2016 , 17, 733-743	30.1	298
94	A novel class of tRNA-derived small RNAs extremely enriched in mature mouse sperm. <i>Cell Research</i> , 2012 , 22, 1609-12	24.7	212
93	Fighting against Skin Aging: The Way from Bench to Bedside. <i>Cell Transplantation</i> , 2018 , 27, 729-738	4	199
92	Dnmt2 mediates intergenerational transmission of paternally acquired metabolic disorders through sperm small non-coding RNAs. <i>Nature Cell Biology</i> , 2018 , 20, 535-540	23.4	183
91	mTOR supports long-term self-renewal and suppresses mesoderm and endoderm activities of human embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7840-5	11.5	157
90	Atg7 is required for acrosome biogenesis during spermatogenesis in mice. <i>Cell Research</i> , 2014 , 24, 852-62	24.7	156
89	Aquaporin3 is a sperm water channel essential for postcopulatory sperm osmoadaptation and migration. <i>Cell Research</i> , 2011 , 21, 922-33	24.7	100
88	Cover Image, Volume 51, Issue 5. <i>Cell Proliferation</i> , 2018 , 51, e12535	7.9	78
87	Dynamic transcriptional symmetry-breaking in pre-implantation mammalian embryo development revealed by single-cell RNA-seq. <i>Development (Cambridge)</i> , 2015 , 142, 3468-77	6.6	67
86	Epidermal development in mammals: key regulators, signals from beneath, and stem cells. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 10869-95	6.3	64
85	The PI3K-Akt pathway inhibits senescence and promotes self-renewal of human skin-derived precursors in vitro. <i>Aging Cell</i> , 2011 , 10, 661-74	9.9	57
84	NASA-approved rotary bioreactor enhances proliferation of human epidermal stem cells and supports formation of 3D epidermis-like structure. <i>PLoS ONE</i> , 2011 , 6, e26603	3.7	56
83	Expression of matrix metalloproteinase-26 and tissue inhibitor of metalloproteinase-4 in human normal cytotrophoblast cells and a choriocarcinoma cell line, JEG-3. <i>Molecular Human Reproduction</i> , 2002 , 8, 659-66	4.4	52
82	Estrogen receptors in granulosa cells govern meiotic resumption of pre-ovulatory oocytes in mammals. <i>Cell Death and Disease</i> , 2017 , 8, e2662	9.8	51
81	Uterine Rbpj is required for embryonic-uterine orientation and decidual remodeling via Notch pathway-independent and -dependent mechanisms. <i>Cell Research</i> , 2014 , 24, 925-42	24.7	51
80	mTOR signaling promotes stem cell activation via counterbalancing BMP-mediated suppression during hair regeneration. <i>Journal of Molecular Cell Biology</i> , 2015 , 7, 62-72	6.3	50

79	Navigating the site for embryo implantation: biomechanical and molecular regulation of intrauterine embryo distribution. <i>Molecular Aspects of Medicine</i> , 2013 , 34, 1024-42	16.7	49
78	Dickkopf-1 secreted by decidual cells promotes trophoblast cell invasion during murine placentation. <i>Reproduction</i> , 2008 , 135, 367-75	3.8	48
77	Egr1 protein acts downstream of estrogen-leukemia inhibitory factor (LIF)-STAT3 pathway and plays a role during implantation through targeting Wnt4. <i>Journal of Biological Chemistry</i> , 2014 , 289, 23534-45	5.4	45
76	MSX2 mediates entry of human pluripotent stem cells into mesendoderm by simultaneously suppressing SOX2 and activating NODAL signaling. <i>Cell Research</i> , 2015 , 25, 1314-32	24.7	43
75	Gonadotrophin-induced paracrine regulation of human oocyte maturation by BDNF and GDNF secreted by granulosa cells. <i>Human Reproduction</i> , 2011 , 26, 695-702	5.7	43
74	Silk fibroin/chitosan scaffold with tunable properties and low inflammatory response assists the differentiation of bone marrow mesenchymal stem cells. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 584-597	7.9	41
73	Enrichment of putative human epidermal stem cells based on cell size and collagen type IV adhesiveness. <i>Cell Research</i> , 2008 , 18, 360-71	24.7	38
72	Dickkopf-1 induced apoptosis in human placental choriocarcinoma is independent of canonical Wnt signaling. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 350, 641-7	3.4	36
71	BTG4 is a key regulator for maternal mRNA clearance during mouse early embryogenesis. <i>Journal of Molecular Cell Biology</i> , 2016 , 8, 366-8	6.3	36
70	Transient {beta}2-adrenoceptor activation confers pregnancy loss by disrupting embryo spacing at implantation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 4349-56	5.4	35
69	Role of sonic hedgehog in maintaining a pool of proliferating stem cells in the human fetal epidermis. <i>Human Reproduction</i> , 2006 , 21, 1698-704	5.7	35
68	Estrogen leads to reversible hair cycle retardation through inducing premature catagen and maintaining telogen. <i>PLoS ONE</i> , 2012 , 7, e40124	3.7	28
67	Uterine Fluid in Pregnancy: A Biological and Clinical Outlook. <i>Trends in Molecular Medicine</i> , 2017 , 23, 604-614	11.5	27
66	Leptin-directed embryo implantation: leptin regulates adhesion and outgrowth of mouse blastocysts and receptivity of endometrial epithelial cells. <i>Animal Reproduction Science</i> , 2006 , 92, 155-67	2.1	27
65	CXCL14 inhibits trophoblast outgrowth via a paracrine/autocrine manner during early pregnancy in mice. <i>Journal of Cellular Physiology</i> , 2009 , 221, 448-57	7	26
64	Aquaporin-dependent excessive intrauterine fluid accumulation is a major contributor in hyper-estrogen induced aberrant embryo implantation. <i>Cell Research</i> , 2015 , 25, 139-42	24.7	25
63	Effects of Wnt3a on proliferation and differentiation of human epidermal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 368, 483-8	3.4	25
62	BCAS2 is involved in alternative mRNA splicing in spermatogonia and the transition to meiosis. <i>Nature Communications</i> , 2017 , 8, 14182	17.4	23

61	Integrated Biophysical and Biochemical Signals Augment Megakaryopoiesis and Thrombopoiesis in a Three-Dimensional Rotary Culture System. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 175-85	6.9	21
60	Rotary suspension culture enhances mesendoderm differentiation of embryonic stem cells through modulation of Wnt/ β -catenin pathway. <i>Stem Cell Reviews and Reports</i> , 2014 , 10, 526-38	6.4	21
59	Enrichment and characterization of mouse putative epidermal stem cells. <i>Cell Biology International</i> , 2004 , 28, 523-9	4.5	21
58	Dual roles of progesterone in embryo implantation in mouse. <i>Endocrine</i> , 2003 , 21, 123-32		20
57	Skeletal myogenic potential of mouse skin-derived precursors. <i>Stem Cells and Development</i> , 2010 , 19, 259-68	4.4	19
56	Expression and hormonal regulation of calcyclin-binding protein (CacyBP) in the mouse uterus during early pregnancy. <i>Life Sciences</i> , 2006 , 78, 753-60	6.8	19
55	GPR39 marks specific cells within the sebaceous gland and contributes to skin wound healing. <i>Scientific Reports</i> , 2015 , 5, 7913	4.9	17
54	Senescence of human skin-derived precursors regulated by Akt-FOXO3-p27(KIP1)/p15(INKB) signaling. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 2949-60	10.3	16
53	Enrichment and identification of human 'fetal' epidermal stem cells. <i>Human Reproduction</i> , 2004 , 19, 968-74	3.4	16
52	Excessive intrauterine fluid cause aberrant implantation and pregnancy outcome in mice. <i>PLoS ONE</i> , 2013 , 8, e78446	3.7	16
51	Effect of microgravity on proliferation and differentiation of embryonic stem cells in an automated culturing system during the TZ-1 space mission. <i>Cell Proliferation</i> , 2018 , 51, e12466	7.9	15
50	Adam12 plays a role during uterine decidualization in mice. <i>Cell and Tissue Research</i> , 2009 , 338, 413-21	4.2	15
49	Impacts of Caffeine during Pregnancy. <i>Trends in Endocrinology and Metabolism</i> , 2020 , 31, 218-227	8.8	15
48	Determinants of uterine aging: lessons from rodent models. <i>Science China Life Sciences</i> , 2012 , 55, 687-93	8.5	14
47	Aquaporin 7 expression in postimplantation mouse uteri: a potential role for glycerol transport in uterine decidualization. <i>Fertility and Sterility</i> , 2011 , 95, 1514-7.e1-3	4.8	14
46	Hair follicle stem cells derived from single rat vibrissa via organ culture reconstitute hair follicles in vivo. <i>Cell Transplantation</i> , 2012 , 21, 1075-85	4	14
45	Roles of Dickkopf-1 and its receptor Kremen1 during embryonic implantation in mice. <i>Fertility and Sterility</i> , 2008 , 90, 1470-9	4.8	13
44	Exogenous R-Spondin1 Induces Precocious Telogen-to-Anagen Transition in Mouse Hair Follicles. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	13

43	Nitric oxide affects preimplantation embryonic development in a rotating wall vessel bioreactor simulating microgravity. <i>Cell Biology International</i> , 2007 , 31, 24-9	4.5	12
42	Hormonal regulation of ovarian bursa fluid in mice and involvement of aquaporins. <i>PLoS ONE</i> , 2013 , 8, e63823	3.7	11
41	Mechano-biological Coupling of Cellular Responses to Microgravity. <i>Microgravity Science and Technology</i> , 2015 , 27, 505-514	1.6	10
40	Ovine Hair Follicle Stem Cells Derived from Single Vibrissae Reconstitute Haired Skin. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 17779-97	6.3	10
39	Three-dimensional hydrogel scaffolds facilitate in vitro self-renewal of human skin-derived precursors. <i>Acta Biomaterialia</i> , 2014 , 10, 3177-87	10.8	10
38	Expansion of Hair Follicle Stem Cells Sticking to Isolated Sebaceous Glands to Generate in Vivo Epidermal Structures. <i>Cell Transplantation</i> , 2016 , 25, 2071-2082	4	9
37	Real-Time Micrography of Mouse Preimplantation Embryos in an Orbit Module on SJ-8 Satellite. <i>Microgravity Science and Technology</i> , 2008 , 20, 127-136	1.6	8
36	Role of $\alpha 5 \beta 1$ integrin in embryo implantation in the mouse. <i>Science Bulletin</i> , 2000 , 45, 2077-2081		8
35	Effects of fibronectin, VEGF and angiostatin on the expression of MMPs through different signaling pathways in the JEG-3 cells. <i>American Journal of Reproductive Immunology</i> , 2003 , 50, 273-85	3.8	7
34	The expression and function of VEGF at embryo implantation window in the mouse. <i>Science Bulletin</i> , 2001 , 46, 409-411		7
33	Uniform Embryoid Body Production and Enhanced Mesendoderm Differentiation with Murine Embryonic Stem Cells in a Rotary Suspension Bioreactor. <i>Methods in Molecular Biology</i> , 2016 , 1502, 63-75	1.4	7
32	Induction of matrix metalloproteinase-9 and -2 activity in mouse blastocyst by fibronectin-integrin interaction. <i>Science Bulletin</i> , 2000 , 45, 1266-1270		6
31	Effect of Short-Term Hypergravity Treatment on Mouse 2-Cell Embryo Development. <i>Microgravity Science and Technology</i> , 2015 , 27, 465-471	1.6	5
30	Caffeine consumption during early pregnancy impairs oviductal embryo transport, embryonic development and uterine receptivity in mice. <i>Biology of Reproduction</i> , 2018 , 99, 1266-1275	3.9	5
29	Chemically induced transformation of human dermal fibroblasts to hair-inducing dermal papilla-like cells. <i>Cell Proliferation</i> , 2019 , 52, e12652	7.9	5
28	Decidual Stromal Cell Necroptosis Contributes to Polyinosinic-Polycytidylic Acid-Triggered Abnormal Murine Pregnancy. <i>Frontiers in Immunology</i> , 2017 , 8, 916	8.4	5
27	Spatiotemporal Expression of p63 in Mouse Epidermal Commitment. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 29542-53	6.3	5
26	Embryo implantation: A time for recalling and forwarding. <i>Science Bulletin</i> , 2009 , 54, 4083-4093		5

25	Effects of blocking LeY oligosaccharide on cell surface to MMPs secreted by blastocysts and epithelial cells in mouse in vitro. <i>Science Bulletin</i> , 1998 , 43, 1461-1465		5
24	Expression, distribution and function of the focal adhesion kinase (pp125FAK) during murine ectoplacental cone outgrowth in vitro. <i>Science Bulletin</i> , 1998 , 43, 1473-1480		5
23	Analysis of uterine peristalsis in the non-pregnant female mouse. <i>Interface Focus</i> , 2019 , 9, 20180082	3.9	4
22	Development of mouse preimplantation embryos in space. <i>National Science Review</i> , 2020 , 7, 1437-1446	10.8	4
21	GPR39 is region-specifically expressed in mouse oviduct correlating with the Zn distribution. <i>Theriogenology</i> , 2017 , 88, 98-105	2.8	4
20	Cooperation-based sperm clusters mediate sperm oviduct entry and fertilization. <i>Protein and Cell</i> , 2021 , 12, 810-817	7.2	4
19	GPR39, a putative receptor of Zn ²⁺ , is region specifically localized in different lobes of the mouse prostate. <i>Urology</i> , 2011 , 77, 1010.e1-6	1.6	3
18	Matrix metalloproteinases (MMPs) and trophoblast invasion. <i>Science Bulletin</i> , 2005 , 50, 1169-1173		3
17	Advances in interspecific pregnancy. <i>Science Bulletin</i> , 2001 , 46, 1772-1778		3
16	Epigenetic regulations on skin wound healing: implications from current researches. <i>Annals of Translational Medicine</i> , 2015 , 3, 227	3.2	3
15	Effect of fibronectin and leukaemia inhibitory factor on matrix metalloproteinases in mouse blastocyst. <i>Science Bulletin</i> , 2001 , 46, 1296-1299		2
14	Advances of Mammalian Reproduction and Embryonic Development Under Microgravity. <i>Research for Development</i> , 2019 , 281-315	0.4	2
13	Advances in the study on induced pluripotent stem cells. <i>Science Bulletin</i> , 2008 , 53, 709-717		1
12	Advances in stem cell research. <i>Science Bulletin</i> , 2001 , 46, 793-795		1
11	Expression of vascular endothelial growth factor in rat uterus during peri-implantation. <i>Science Bulletin</i> , 2001 , 46, 1178-1181		1
10	High-Efficiency Differentiation of Human Pluripotent Stem Cells to Hematopoietic Stem/Progenitor Cells in Random Positioning Machine Bioreactors. <i>Methods in Molecular Biology</i> , 2021 , 55	1.4	1
9	Simulated Microgravity Potentiates Hematopoietic Differentiation of Human Pluripotent Stem Cells and Supports Formation of 3D Hematopoietic Cluster.. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 797060	5.7	1
8	RNA Modification Signature of Peripheral Blood as a Potential Diagnostic Marker for Pulmonary Hypertension.. <i>Hypertension</i> , 2022 , HYPERTENSIONAHA12118724	8.5	0

- 7 LncRNAs and paraspeckles predict cell fate in early mouse embryo *Biology of Reproduction*, **2019**, 100, 1129-1131 3.9
- 6 Effect of matrix metallo-proteinase-26 (MMP-26) during embryo implantation in the mouse. *Science Bulletin*, **2002**, 47, 1884-1888
- 5 Regulation of mouse blastocyst adhesion, outgrowth and matrix metalloproteinase-2 by focal adhesion kinase. *Science Bulletin*, **2003**, 48, 475-479
- 4 Interfamily pregnancy and expression of CD57, CD68 in deciduas between golden hamster and mouse. *Science Bulletin*, **2003**, 48, 1956-1961
- 3 IGF-II and IGFBP-1 reversely regulate blastocyst implantation in mouse. *Science Bulletin*, **2002**, 47, 1816-1820
- 2 Introduction to Results of Life Sciences from SJ-10 Recoverable Satellite. *Research for Development*, **2019**, 1-8 0.4
- 1 Induction of differentiation of human stem cells : Toward large-scale platelet production. *World Journal of Stem Cells*, **2019**, 11, 666-676 5.6