En-Kui Duan

List of Publications by Year
in descending order

98 papers	5,140 citations	136950 32 h-index	95266 68 g-index
100 all docs	100 docs citations	100 times ranked	6806 citing authors

#	Article	IF	Citations
1	Sperm tsRNAs contribute to intergenerational inheritance of an acquired metabolic disorder. Science, 2016, 351, 397-400.	12.6	1,042
2	Epigenetic inheritance of acquired traits through sperm RNAs and sperm RNA modifications. Nature Reviews Genetics, 2016, 17, 733-743.	16.3	427
3	Fighting against Skin Aging. Cell Transplantation, 2018, 27, 729-738.	2.5	403
4	Dnmt2 mediates intergenerational transmission of paternally acquired metabolic disorders through sperm small non-coding RNAs. Nature Cell Biology, 2018, 20, 535-540.	10.3	302
5	A novel class of tRNA-derived small RNAs extremely enriched in mature mouse sperm. Cell Research, 2012, 22, 1609-1612.	12.0	287
6	Atg7 is required for acrosome biogenesis during spermatogenesis in mice. Cell Research, 2014, 24, 852-869.	12.0	213
7	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, 7840-7845.	7.1	193
8	Aquaporin3 is a sperm water channel essential for postcopulatory sperm osmoadaptation and migration. Cell Research, 2011, 21, 922-933.	12.0	118
9	Epidermal Development in Mammals: Key Regulators, Signals from Beneath, and Stem Cells. International Journal of Molecular Sciences, 2013, 14, 10869-10895.	4.1	85
10	BTG4 is a key regulator for maternal mRNA clearance during mouse early embryogenesis. Journal of Molecular Cell Biology, 2016, 8, 366-368.	3.3	85
11	Estrogen receptors in granulosa cells govern meiotic resumption of pre-ovulatory oocytes in mammals. Cell Death and Disease, 2017, 8, e2662-e2662.	6.3	82
12	Dynamic transcriptional symmetry-breaking in pre-implantation mammalian embryo development revealed by single-cell RNA-seq. Development (Cambridge), 2015, 142, 3468-77.	2.5	75
13	The PI3Kâ€Akt pathway inhibits senescence and promotes selfâ€renewal of human skinâ€derived precursors in vitro. Aging Cell, 2011, 10, 661-674.	6.7	72
14	mTOR signaling promotes stem cell activation via counterbalancing BMP-mediated suppression during hair regeneration. Journal of Molecular Cell Biology, 2015, 7, 62-72.	3.3	71
15	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, 23534-23545.	3.4	68
16	Uterine Rbpj is required for embryonic-uterine orientation and decidual remodeling via Notch pathway-independent and -dependent mechanisms. Cell Research, 2014, 24, 925-942.	12.0	68
17	NASA-Approved Rotary Bioreactor Enhances Proliferation of Human Epidermal Stem Cells and Supports Formation of 3D Epidermis-Like Structure. PLoS ONE, 2011, 6, e26603.	2.5	68
18	Navigating the site for embryo implantation: Biomechanical and molecular regulation of intrauterine embryo distribution. Molecular Aspects of Medicine, 2013, 34, 1024-1042.	6.4	67

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19	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, 659-666.	2.8	61
20	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.	7.5	61
21	MSX2 mediates entry of human pluripotent stem cells into mesendoderm by simultaneously suppressing SOX2 and activating NODAL signaling. Cell Research, 2015, 25, 1314-1332.	12.0	60
22	Gonadotrophin-induced paracrine regulation of human oocyte maturation by BDNF and GDNF secreted by granulosa cells. Human Reproduction, 2011, 26, 695-702.	0.9	53
23	BCAS2 is involved in alternative mRNA splicing in spermatogonia and the transition to meiosis. Nature Communications, 2017, 8, 14182.	12.8	53
24	Dickkopf-1 secreted by decidual cells promotes trophoblast cell invasion during murine placentation. Reproduction, 2008, 135, 367-375.	2.6	52
25	Enrichment of putative human epidermal stem cells based on cell size and collagen type IV adhesiveness. Cell Research, 2008, 18, 360-371.	12.0	44
26	Transient Î²2-Adrenoceptor Activation Confers Pregnancy Loss by Disrupting Embryo Spacing at Implantation. Journal of Biological Chemistry, 2011, 286, 4349-4356.	3.4	44
27	Estrogen Leads to Reversible Hair Cycle Retardation through Inducing Premature Catagen and Maintaining Telogen. PLoS ONE, 2012, 7, e40124.	2.5	42
28	Uterine Fluid in Pregnancy: A Biological and Clinical Outlook. Trends in Molecular Medicine, 2017, 23, 604-614.	6.7	40
29	Dickkopf-1 induced apoptosis in human placental choriocarcinoma is independent of canonical Wnt signaling. Biochemical and Biophysical Research Communications, 2006, 350, 641-647.	2.1	39
30	Role of sonic hedgehog in maintaining a pool of proliferating stem cells in the human fetal epidermis. Human Reproduction, 2006, 21, 1698-1704.	0.9	39
31	Aquaporin-dependent excessive intrauterine fluid accumulation is a major contributor in hyper-estrogen induced aberrant embryo implantation. Cell Research, 2015, 25, 139-142.	12.0	35
32	Impacts of Caffeine during Pregnancy. Trends in Endocrinology and Metabolism, 2020, 31, 218-227.	7.1	34
33	Rotary Suspension Culture Enhances Mesendoderm Differentiation of Embryonic Stem Cells Through Modulation of Wnt/Î²-catenin Pathway. Stem Cell Reviews and Reports, 2014, 10, 526-538.	5.6	33
34	Leptin-directed embryo implantation: Leptin regulates adhesion and outgrowth of mouse blastocysts and receptivity of endometrial epithelial cells. Animal Reproduction Science, 2006, 92, 155-167.	1.5	32
35	Effects of Wnt3a on proliferation and differentiation of human epidermal stem cells. Biochemical and Biophysical Research Communications, 2008, 368, 483-488.	2.1	30
36	CXCL14 inhibits trophoblast outgrowth via a paracrine/autocrine manner during early pregnancy in mice. Journal of Cellular Physiology, 2009, 221, 448-457.	4.1	30

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37	Effect of microgravity on proliferation and differentiation of embryonic stem cells in an automated culturing system during the <scp>TZ</scp>â€1 space mission. Cell Proliferation, 2018, 51, e12466.	5.3	29
38	Integrated Biophysical and Biochemical Signals Augment Megakaryopoiesis and Thrombopoiesis in a Three-Dimensional Rotary Culture System. Stem Cells Translational Medicine, 2016, 5, 175-185.	3.3	26
39	Enrichment and characterization of mouse putative epidermal stem cells. Cell Biology International, 2004, 28, 523-529.	3.0	25
40	Excessive Intrauterine Fluid Cause Aberrant Implantation and Pregnancy Outcome in Mice. PLoS ONE, 2013, 8, e78446.	2.5	23
41	Determinants of uterine aging: lessons from rodent models. Science China Life Sciences, 2012, 55, 687-693.	4.9	22
42	GPR39 marks specific cells within the sebaceous gland and contributes to skin wound healing. Scientific Reports, 2015, 5, 7913.	3.3	22
43	Exogenous R-Spondin1 Induces Precocious Telogen-to-Anagen Transition in Mouse Hair Follicles. International Journal of Molecular Sciences, 2016, 17, 582.	4.1	22
44	Dual Roles of Progesterone in Embryo Implantation in Mouse. Endocrine, 2003, 21, 123-132.	2.2	21
45	Skeletal Myogenic Potential of Mouse Skin-Derived Precursors. Stem Cells and Development, 2010, 19, 259-268.	2.1	21
46	Expression and hormonal regulation of calcyclin-binding protein (CacyBP) in the mouse uterus during early pregnancy. Life Sciences, 2006, 78, 753-760.	4.3	20
47	Development of mouse preimplantation embryos in space. National Science Review, 2020, 7, 1437-1446.	9.5	20
48	Enrichment and identification of human 'fetal' epidermal stem cells. Human Reproduction, 2004, 19, 968-974.	0.9	19
49	Senescence of human skin-derived precursors regulated by Akt-FOXO3-p27KIP1/p15INK4b signaling. Cellular and Molecular Life Sciences, 2015, 72, 2949-2960.	5.4	19
50	Hair Follicle Stem Cells Derived from Single Rat Vibrissa via Organ Culture Reconstitute Hair Follicles in Vivo. Cell Transplantation, 2012, 21, 1075-1085.	2.5	18
51	Adam12 plays a role during uterine decidualization in mice. Cell and Tissue Research, 2009, 338, 413-421.	2.9	17
52	Hormonal Regulation of Ovarian Bursa Fluid in Mice and Involvement of Aquaporins. PLoS ONE, 2013, 8, e63823.	2.5	17
53	Aquaporin 7 expression in postimplantation mouse uteri: a potential role for glycerol transport in uterine decidualization. Fertility and Sterility, 2011, 95, 1514-1517.e3.	1.0	16
54	Roles of Dickkopf-1 and its receptor Kremen1 during embryonic implantation in mice. Fertility and Sterility, 2008, 90, 1470-1479.	1.0	15

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55	Nitric oxide affects preimplantation embryonic development in a rotating wall vessel bioreactor simulating microgravity. Cell Biology International, 2007, 31, 24-29.	3.0	14
56	Cooperation-based sperm clusters mediate sperm oviduct entry and fertilization. Protein and Cell, 2021, 12, 810-817.	11.0	14
57	Ovine Hair Follicle Stem Cells Derived from Single Vibrissae Reconstitute Haired Skin. International Journal of Molecular Sciences, 2015, 16, 17779-17797.	4.1	13
58	Analysis of in vivo uterine peristalsis in the non-pregnant female mouse. Interface Focus, 2019, 9, 20180082.	3.0	13
59	Three-dimensional hydrogel scaffolds facilitate in vitro self-renewal of human skin-derived precursors. Acta Biomaterialia, 2014, 10, 3177-3187.	8.3	12
60	Decidual Stromal Cell Necroptosis Contributes to Polyinosinic-Polycytidylic Acid-Triggered Abnormal Murine Pregnancy. Frontiers in Immunology, 2017, 8, 916.	4.8	12
61	Caffeine consumption during early pregnancy impairs oviductal embryo transport, embryonic development and uterine receptivity in miceâ€. Biology of Reproduction, 2018, 99, 1266-1275.	2.7	12
62	Role of Î±VÎ²3 integrin in embryo implantation in the mouse. Science Bulletin, 2000, 45, 2077-2081.	1.7	10
63	Real-Time Micrography of Mouse Preimplantation Embryos in an Orbit Module on SJ-8 Satellite. Microgravity Science and Technology, 2008, 20, 127-136.	1.4	10
64	Mechano-biological Coupling of Cellular Responses to Microgravity. Microgravity Science and Technology, 2015, 27, 505-514.	1.4	10
65	Expansion of Hair Follicle Stem Cells Sticking to Isolated Sebaceous Glands to Generate in Vivo Epidermal Structures. Cell Transplantation, 2016, 25, 2071-2082.	2.5	10
66	Chemically induced transformation of human dermal fibroblasts to hairâ€inducing dermal papillaâ€like cells. Cell Proliferation, 2019, 52, e12652.	5.3	10
67	Induction of matrix metalloproteinase-9 and -2 activity in mouse blastocyst by fibronectin-integrin interaction. Science Bulletin, 2000, 45, 1266-1270.	1.7	9
68	The expression and function of VEGF at embryo implantation â€œwindowâ€•in the mouse. Science Bulletin, 2001, 46, 409-411.	1.7	9
69	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, 273-285.	1.2	9
70	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.	0.9	8
71	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.	1.7	7
72	Spatiotemporal Expression of p63 in Mouse Epidermal Commitment. International Journal of Molecular Sciences, 2015, 16, 29542-29553.	4.1	7

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73	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.	3.7	7
74	Expression, distribution and function of the focal adhesion kinase (pp125FAK) during murine ectoplacental cone outgrowthin vitro. Science Bulletin, 1998, 43, 1473-1480.	1.7	6
75	Embryo implantation: A time for recalling and forwarding. Science Bulletin, 2009, 54, 4083-4093.	1.7	6
76	Advances of Mammalian Reproduction and Embryonic Development Under Microgravity. Research for Development, 2019, , 281-315.	0.4	6
77	Effect of fibronectin and leukaemia inhibitory factor on matrix metalloproteinases in mouse blastocyst. Science Bulletin, 2001, 46, 1296-1299.	1.7	5
78	Effect of Short-Term Hypergravity Treatment on Mouse 2-Cell Embryo Development. Microgravity Science and Technology, 2015, 27, 465-471.	1.4	5
79	GPR39 is region-specifically expressed in mouse oviduct correlating with the Zn2+ distribution. Theriogenology, 2017, 88, 98-105.	2.1	5
80	Epigenetic regulations on skin wound healing: implications from current researches. Annals of Translational Medicine, 2015, 3, 227.	1.7	5
81	Matrix metalloproteinases (MMPs) and trophoblast invasion. Science Bulletin, 2005, 50, 1169-1173.	1.7	4
82	Advances in interspecific pregnancy. Science Bulletin, 2001, 46, 1772-1778.	1.7	3
83	Expression of vascular endothelial growth factor in rat uterus during peri-implantation. Science Bulletin, 2001, 46, 1178-1181.	1.7	3
84	GPR39, a Putative Receptor of Zn2+, Is Region Specifically Localized in Different Lobes of the Mouse Prostate. Urology, 2011, 77, 1010.e1-1010.e6.	1.0	3
85	LncRNAs and paraspeckles predict cell fate in early mouse embryoâ€. Biology of Reproduction, 2019, 100, 1129-1131.	2.7	3
86	Three-Dimensional Visualization of Mouse Endometrial Remodeling After Superovulation. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	3
87	Advances in the study on induced pluripotent stem cells. Science Bulletin, 2008, 53, 709-717.	1.7	2
88	Advances in stem cell research. Science Bulletin, 2001, 46, 793-795.	1.7	1
89	Regulation of mouse blastocyst adhesion, outgrowth and matrix metalloproteinase-2 by focal adhesion kinase. Science Bulletin, 2003, 48, 475-479.	1.7	1
90	Introduction to the special issue â€œMolecular Players in Early Pregnancyâ€• Molecular Aspects of Medicine, 2013, 34, vi-vii.	6.4	1

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91	High-Efficiency Differentiation of Human Pluripotent Stem Cells to Hematopoietic Stem/Progenitor Cells in Random Positioning Machine Bioreactors. Methods in Molecular Biology, 2021, , 55-66.	0.9	1
92	RNA Modification Signature of Peripheral Blood as a Potential Diagnostic Marker for Pulmonary Hypertension. Hypertension, 2022, 79, HYPERTENSIONAHA12118724.	2.7	1
93	IGF-II and IGFBP-1 reversely regulate blastocyst implantation in mouse. Science Bulletin, 2002, 47, 1816-1820.	9.0	0
94	Effect of matrix metallo-proteinase-26 (MMP-26) during embryo implantation in the mouse. Science Bulletin, 2002, 47, 1884-1888.	1.7	0
95	Interfamily pregnancy and expression of CD57, CD68 in deciduas between golden hamster and mouse. Science Bulletin, 2003, 48, 1956-1961.	1.7	0
96	Cover Image, Volume 51, Issue 5. Cell Proliferation, 2018, 51, e12535.	5.3	0
97	Introduction to Results of Life Sciences from SJ-10 Recoverable Satellite. Research for Development, 2019, , 1-8.	0.4	0
98	Induction of differentiation of human stem cellsex vivo: Toward large-scale platelet production. World Journal of Stem Cells, 2019, 11, 666-676.	2.8	0