

# En-Kui Duan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	RNA Modification Signature of Peripheral Blood as a Potential Diagnostic Marker for Pulmonary Hypertension. <i>Hypertension</i> , 2022, 79, HYPERTENSIONAHA12118724.	2.7	1
2	Cooperation-based sperm clusters mediate sperm oviduct entry and fertilization. <i>Protein and Cell</i> , 2021, 12, 810-817.	11.0	14
3	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, , 55-66.	0.9	1
4	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.	3.7	7
5	Impacts of Caffeine during Pregnancy. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 218-227.	7.1	34
6	Development of mouse preimplantation embryos in space. <i>National Science Review</i> , 2020, 7, 1437-1446.	9.5	20
7	Chemically induced transformation of human dermal fibroblasts to hair-inducing dermal papilla-like cells. <i>Cell Proliferation</i> , 2019, 52, e12652.	5.3	10
8	Analysis of <i>in vivo</i> uterine peristalsis in the non-pregnant female mouse. <i>Interface Focus</i> , 2019, 9, 20180082.	3.0	13
9	LncRNAs and paraspeckles predict cell fate in early mouse embryo. <i>Biology of Reproduction</i> , 2019, 100, 1129-1131.	2.7	3
10	Advances of Mammalian Reproduction and Embryonic Development Under Microgravity. <i>Research for Development</i> , 2019, , 281-315.	0.4	6
11	Introduction to Results of Life Sciences from SJ-10 Recoverable Satellite. <i>Research for Development</i> , 2019, , 1-8.	0.4	0
12	Induction of differentiation of human stem cells <i>ex vivo</i> : Toward large-scale platelet production. <i>World Journal of Stem Cells</i> , 2019, 11, 666-676.	2.8	0
13	Dnmt2 mediates intergenerational transmission of paternally acquired metabolic disorders through sperm small non-coding RNAs. <i>Nature Cell Biology</i> , 2018, 20, 535-540.	10.3	302
14	Fighting against Skin Aging. <i>Cell Transplantation</i> , 2018, 27, 729-738.	2.5	403
15	Cover Image, Volume 51, Issue 5. <i>Cell Proliferation</i> , 2018, 51, e12535.	5.3	0
16	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.	2.7	12
17	Effect of microgravity on proliferation and differentiation of embryonic stem cells in an automated culturing system during the <i>TZ-1</i> space mission. <i>Cell Proliferation</i> , 2018, 51, e12466.	5.3	29
18	BCAS2 is involved in alternative mRNA splicing in spermatogonia and the transition to meiosis. <i>Nature Communications</i> , 2017, 8, 14182.	12.8	53

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19	Estrogen receptors in granulosa cells govern meiotic resumption of pre-ovulatory oocytes in mammals. <i>Cell Death and Disease</i> , 2017, 8, e2662-e2662.	6.3	82
20	Uterine Fluid in Pregnancy: A Biological and Clinical Outlook. <i>Trends in Molecular Medicine</i> , 2017, 23, 604-614.	6.7	40
21	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.	7.5	61
22	GPR39 is region-specifically expressed in mouse oviduct correlating with the Zn <sup>2+</sup> distribution. <i>Theriogenology</i> , 2017, 88, 98-105.	2.1	5
23	Decidual Stromal Cell Necroptosis Contributes to Polyinosinic-Polycytidylic Acid-Triggered Abnormal Murine Pregnancy. <i>Frontiers in Immunology</i> , 2017, 8, 916.	4.8	12
24	Exogenous R-Spondin1 Induces Precocious Telogen-to-Anagen Transition in Mouse Hair Follicles. <i>International Journal of Molecular Sciences</i> , 2016, 17, 582.	4.1	22
25	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.	2.5	10
26	BTG4 is a key regulator for maternal mRNA clearance during mouse early embryogenesis. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 366-368.	3.3	85
27	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.	0.9	8
28	Epigenetic inheritance of acquired traits through sperm RNAs and sperm RNA modifications. <i>Nature Reviews Genetics</i> , 2016, 17, 733-743.	16.3	427
29	Sperm tsRNAs contribute to intergenerational inheritance of an acquired metabolic disorder. <i>Science</i> , 2016, 351, 397-400.	12.6	1,042
30	Integrated Biophysical and Biochemical Signals Augment Megakaryopoiesis and Thrombopoiesis in a Three-Dimensional Rotary Culture System. <i>Stem Cells Translational Medicine</i> , 2016, 5, 175-185.	3.3	26
31	GPR39 marks specific cells within the sebaceous gland and contributes to skin wound healing. <i>Scientific Reports</i> , 2015, 5, 7913.	3.3	22
32	Ovine Hair Follicle Stem Cells Derived from Single Vibrissae Reconstitute Haired Skin. <i>International Journal of Molecular Sciences</i> , 2015, 16, 17779-17797.	4.1	13
33	Spatiotemporal Expression of p63 in Mouse Epidermal Commitment. <i>International Journal of Molecular Sciences</i> , 2015, 16, 29542-29553.	4.1	7
34	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.	3.3	71
35	Senescence of human skin-derived precursors regulated by Akt-FOXO3-p27KIP1/p15INK4b signaling. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 2949-2960.	5.4	19
36	MSX2 mediates entry of human pluripotent stem cells into mesendoderm by simultaneously suppressing SOX2 and activating NODAL signaling. <i>Cell Research</i> , 2015, 25, 1314-1332.	12.0	60

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37	Dynamic transcriptional symmetry-breaking in pre-implantation mammalian embryo development revealed by single-cell RNA-seq. <i>Development (Cambridge)</i> , 2015, 142, 3468-77.	2.5	75
38	Effect of Short-Term Hypergravity Treatment on Mouse 2-Cell Embryo Development. <i>Microgravity Science and Technology</i> , 2015, 27, 465-471.	1.4	5
39	Mechano-biological Coupling of Cellular Responses to Microgravity. <i>Microgravity Science and Technology</i> , 2015, 27, 505-514.	1.4	10
40	Aquaporin-dependent excessive intrauterine fluid accumulation is a major contributor in hyper-estrogen induced aberrant embryo implantation. <i>Cell Research</i> , 2015, 25, 139-142.	12.0	35
41	Epigenetic regulations on skin wound healing: implications from current researches. <i>Annals of Translational Medicine</i> , 2015, 3, 227.	1.7	5
42	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, 23534-23545.	3.4	68
43	Three-dimensional hydrogel scaffolds facilitate in vitro self-renewal of human skin-derived precursors. <i>Acta Biomaterialia</i> , 2014, 10, 3177-3187.	8.3	12
44	Rotary Suspension Culture Enhances Mesendoderm Differentiation of Embryonic Stem Cells Through Modulation of Wnt/ $\beta$ -catenin Pathway. <i>Stem Cell Reviews and Reports</i> , 2014, 10, 526-538.	5.6	33
45	Uterine Rbpj is required for embryonic-uterine orientation and decidual remodeling via Notch pathway-independent and -dependent mechanisms. <i>Cell Research</i> , 2014, 24, 925-942.	12.0	68
46	Atg7 is required for acrosome biogenesis during spermatogenesis in mice. <i>Cell Research</i> , 2014, 24, 852-869.	12.0	213
47	Introduction to the special issue "Molecular Players in Early Pregnancy" Molecular Aspects of Medicine, 2013, 34, vi-vii.	6.4	1
48	Navigating the site for embryo implantation: Biomechanical and molecular regulation of intrauterine embryo distribution. <i>Molecular Aspects of Medicine</i> , 2013, 34, 1024-1042.	6.4	67
49	Epidermal Development in Mammals: Key Regulators, Signals from Beneath, and Stem Cells. <i>International Journal of Molecular Sciences</i> , 2013, 14, 10869-10895.	4.1	85
50	Hormonal Regulation of Ovarian Bursa Fluid in Mice and Involvement of Aquaporins. <i>PLoS ONE</i> , 2013, 8, e63823.	2.5	17
51	Excessive Intrauterine Fluid Cause Aberrant Implantation and Pregnancy Outcome in Mice. <i>PLoS ONE</i> , 2013, 8, e78446.	2.5	23
52	A novel class of tRNA-derived small RNAs extremely enriched in mature mouse sperm. <i>Cell Research</i> , 2012, 22, 1609-1612.	12.0	287
53	Hair Follicle Stem Cells Derived from Single Rat Vibrissa via Organ Culture Reconstitute Hair Follicles in Vivo. <i>Cell Transplantation</i> , 2012, 21, 1075-1085.	2.5	18
54	Determinants of uterine aging: lessons from rodent models. <i>Science China Life Sciences</i> , 2012, 55, 687-693.	4.9	22

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55	Estrogen Leads to Reversible Hair Cycle Retardation through Inducing Premature Catagen and Maintaining Telogen. <i>PLoS ONE</i> , 2012, 7, e40124.	2.5	42
56	Aquaporin 7 expression in postimplantation mouse uteri: a potential role for glycerol transport in uterine decidualization. <i>Fertility and Sterility</i> , 2011, 95, 1514-1517.e3.	1.0	16
57	GPR39, a Putative Receptor of Zn <sup>2+</sup> , Is Region Specifically Localized in Different Lobes of the Mouse Prostate. <i>Urology</i> , 2011, 77, 1010.e1-1010.e6.	1.0	3
58	The PI3K/Akt pathway inhibits senescence and promotes self-renewal of human skin-derived precursors <i>in vitro</i> . <i>Aging Cell</i> , 2011, 10, 661-674.	6.7	72
59	Aquaporin3 is a sperm water channel essential for postcopulatory sperm osmoadaptation and migration. <i>Cell Research</i> , 2011, 21, 922-933.	12.0	118
60	Transient $\beta$ 2-Adrenoceptor Activation Confers Pregnancy Loss by Disrupting Embryo Spacing at Implantation. <i>Journal of Biological Chemistry</i> , 2011, 286, 4349-4356.	3.4	44
61	Gonadotrophin-induced paracrine regulation of human oocyte maturation by BDNF and GDNF secreted by granulosa cells. <i>Human Reproduction</i> , 2011, 26, 695-702.	0.9	53
62	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.	2.5	68
63	Skeletal Myogenic Potential of Mouse Skin-Derived Precursors. <i>Stem Cells and Development</i> , 2010, 19, 259-268.	2.1	21
64	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, 7840-7845.	7.1	193
65	CXCL14 inhibits trophoblast outgrowth via a paracrine/autocrine manner during early pregnancy in mice. <i>Journal of Cellular Physiology</i> , 2009, 221, 448-457.	4.1	30
66	Adam12 plays a role during uterine decidualization in mice. <i>Cell and Tissue Research</i> , 2009, 338, 413-421.	2.9	17
67	Embryo implantation: A time for recalling and forwarding. <i>Science Bulletin</i> , 2009, 54, 4083-4093.	1.7	6
68	Advances in the study on induced pluripotent stem cells. <i>Science Bulletin</i> , 2008, 53, 709-717.	1.7	2
69	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.	1.4	10
70	Roles of Dickkopf-1 and its receptor Kremen1 during embryonic implantation in mice. <i>Fertility and Sterility</i> , 2008, 90, 1470-1479.	1.0	15
71	Effects of Wnt3a on proliferation and differentiation of human epidermal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 368, 483-488.	2.1	30
72	Enrichment of putative human epidermal stem cells based on cell size and collagen type IV adhesiveness. <i>Cell Research</i> , 2008, 18, 360-371.	12.0	44

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73	Dickkopf-1 secreted by decidual cells promotes trophoblast cell invasion during murine placentation. <i>Reproduction</i> , 2008, 135, 367-375.	2.6	52
74	Nitric oxide affects preimplantation embryonic development in a rotating wall vessel bioreactor simulating microgravity. <i>Cell Biology International</i> , 2007, 31, 24-29.	3.0	14
75	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, 155-167.	1.5	32
76	Dickkopf-1 induced apoptosis in human placental choriocarcinoma is independent of canonical Wnt signaling. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 641-647.	2.1	39
77	Expression and hormonal regulation of calcyclin-binding protein (CacyBP) in the mouse uterus during early pregnancy. <i>Life Sciences</i> , 2006, 78, 753-760.	4.3	20
78	Role of sonic hedgehog in maintaining a pool of proliferating stem cells in the human fetal epidermis. <i>Human Reproduction</i> , 2006, 21, 1698-1704.	0.9	39
79	Matrix metalloproteinases (MMPs) and trophoblast invasion. <i>Science Bulletin</i> , 2005, 50, 1169-1173.	1.7	4
80	Enrichment and identification of human 'fetal' epidermal stem cells. <i>Human Reproduction</i> , 2004, 19, 968-974.	0.9	19
81	Enrichment and characterization of mouse putative epidermal stem cells. <i>Cell Biology International</i> , 2004, 28, 523-529.	3.0	25
82	Dual Roles of Progesterone in Embryo Implantation in Mouse. <i>Endocrine</i> , 2003, 21, 123-132.	2.2	21
83	Regulation of mouse blastocyst adhesion, outgrowth and matrix metalloproteinase-2 by focal adhesion kinase. <i>Science Bulletin</i> , 2003, 48, 475-479.	1.7	1
84	Interfamily pregnancy and expression of CD57, CD68 in deciduas between golden hamster and mouse. <i>Science Bulletin</i> , 2003, 48, 1956-1961.	1.7	0
85	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, 273-285.	1.2	9
86	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, 659-666.	2.8	61
87	IGF-II and IGFBP-1 reversely regulate blastocyst implantation in mouse. <i>Science Bulletin</i> , 2002, 47, 1816-1820.	9.0	0
88	Effect of matrix metallo-proteinase-26 (MMP-26) during embryo implantation in the mouse. <i>Science Bulletin</i> , 2002, 47, 1884-1888.	1.7	0
89	Advances in stem cell research. <i>Science Bulletin</i> , 2001, 46, 793-795.	1.7	1
90	Advances in interspecific pregnancy. <i>Science Bulletin</i> , 2001, 46, 1772-1778.	1.7	3

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91	Expression of vascular endothelial growth factor in rat uterus during peri-implantation. Science Bulletin, 2001, 46, 1178-1181.	1.7	3
92	The expression and function of VEGF at embryo implantation "window" in the mouse. Science Bulletin, 2001, 46, 409-411.	1.7	9
93	Effect of fibronectin and leukaemia inhibitory factor on matrix metalloproteinases in mouse blastocyst. Science Bulletin, 2001, 46, 1296-1299.	1.7	5
94	Induction of matrix metalloproteinase-9 and -2 activity in mouse blastocyst by fibronectin-integrin interaction. Science Bulletin, 2000, 45, 1266-1270.	1.7	9
95	Role of $\alpha 3$ integrin in embryo implantation in the mouse. Science Bulletin, 2000, 45, 2077-2081.	1.7	10
96	Effects of blocking LeY oligosaccharide on cell surface to MMPs secreted by blastocysts and epithelial cells in mouse in vitro. Science Bulletin, 1998, 43, 1461-1465.	1.7	7
97	Expression, distribution and function of the focal adhesion kinase (pp125FAK) during murine ectoplacental cone outgrowth in vitro. Science Bulletin, 1998, 43, 1473-1480.	1.7	6
98	Three-Dimensional Visualization of Mouse Endometrial Remodeling After Superovulation. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	3