

David L Keefe

List of Publications by Year in descending order

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84
papers

6,041
citations

66234

42
h-index

74018

75
g-index

144
all docs

144
docs citations

144
times ranked

6242
citing authors

#	ARTICLE	IF	CITATIONS
1	Telomere lengthening early in development. <i>Nature Cell Biology</i> , 2007, 9, 1436-1441.	4.6	330
2	Telomere elongation in induced pluripotent stem cells from dyskeratosis congenita patients. <i>Nature</i> , 2010, 464, 292-296.	13.7	302
3	Mitochondrial deoxyribonucleic acid deletions in oocytes and reproductive aging in women. <i>Fertility and Sterility</i> , 1995, 64, 577-583.	0.5	282
4	Limited recovery of meiotic spindles in living human oocytes after cooling–rearming observed using polarized light microscopy. <i>Human Reproduction</i> , 2001, 16, 2374-2378.	0.4	272
5	Oxidative Phosphorylation-Dependent and -Independent Oxygen Consumption by Individual Preimplantation Mouse Embryos1. <i>Biology of Reproduction</i> , 2000, 62, 1866-1874.	1.2	223
6	Resveratrol protects against age-associated infertility in mice. <i>Human Reproduction</i> , 2013, 28, 707-717.	0.4	221
7	Mitochondrial dysfunction leads to telomere attrition and genomic instability. <i>Aging Cell</i> , 2002, 1, 40-46.	3.0	211
8	Oxidative Stress Contributes to Arsenic-induced Telomere Attrition, Chromosome Instability, and Apoptosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 31998-32004.	1.6	182
9	Oocyte competency is the key to embryo potential. <i>Fertility and Sterility</i> , 2015, 103, 317-322.	0.5	147
10	Irregular telomeres impair meiotic synapsis and recombination in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6496-6501.	3.3	146
11	An Essential Role for Functional Telomeres in Mouse Germ Cells during Fertilization and Early Development. <i>Developmental Biology</i> , 2002, 249, 74-84.	0.9	145
12	A reliable, noninvasive technique for spindle imaging and enucleation of mammalian oocytes. <i>Nature Biotechnology</i> , 2000, 18, 223-225.	9.4	141
13	Delay in oocyte aging in mice by the antioxidant N-acetyl-L-cysteine (NAC). <i>Human Reproduction</i> , 2012, 27, 1411-1420.	0.4	132
14	Estrogen modifies the temperature effects of progesterone. <i>Journal of Applied Physiology</i> , 2000, 88, 1643-1649.	1.2	128
15	The telomere theory of reproductive senescence in women. <i>Current Opinion in Obstetrics and Gynecology</i> , 2006, 18, 280-285.	0.9	128
16	Telomerase deficiency impairs differentiation of mesenchymal stem cells. <i>Experimental Cell Research</i> , 2004, 294, 1-8.	1.2	123
17	Association of telomere length with authentic pluripotency of ES/iPS cells. <i>Cell Research</i> , 2011, 21, 779-792.	5.7	123
18	Telomere length predicts embryo fragmentation after in vitro fertilization in women–Toward a telomere theory of reproductive aging in women. <i>American Journal of Obstetrics and Gynecology</i> , 2005, 192, 1256-1260.	0.7	122

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19	The first polar body does not predict accurately the location of the metaphase II meiotic spindle in mammalian oocytes. <i>Fertility and Sterility</i> , 1999, 71, 719-721.	0.5	119
20	Germline stem cells and neo-oogenesis in the adult human ovary. <i>Developmental Biology</i> , 2007, 306, 112-120.	0.9	119
21	mTORC1/2 inhibition preserves ovarian function and fertility during genotoxic chemotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3186-3191.	3.3	118
22	Imaging meiotic spindles by polarization light microscopy: principles and applications to IVF. <i>Reproductive BioMedicine Online</i> , 2003, 7, 24-29.	1.1	117
23	Telomeres and human reproduction. <i>Fertility and Sterility</i> , 2013, 99, 23-29.	0.5	116
24	Defective cohesin is associated with age-dependent misaligned chromosomes in oocytes. <i>Reproductive BioMedicine Online</i> , 2008, 16, 103-112.	1.1	113
25	Widespread Transcriptional Scanning in the Testis Modulates Gene Evolution Rates. <i>Cell</i> , 2020, 180, 248-262.e21.	13.5	111
26	Rigorous thermal control during intracytoplasmic sperm injection stabilizes the meiotic spindle and improves fertilization and pregnancy rates. <i>Fertility and Sterility</i> , 2002, 77, 1274-1277.	0.5	108
27	Rif1 Maintains Telomere Length Homeostasis of ESCs by Mediating Heterochromatin Silencing. <i>Developmental Cell</i> , 2014, 29, 7-19.	3.1	102
28	Telomeres and reproductive aging. <i>Reproduction, Fertility and Development</i> , 2009, 21, 10.	0.1	97
29	Requirement of functional telomeres for metaphase chromosome alignments and integrity of meiotic spindles. <i>EMBO Reports</i> , 2002, 3, 230-234.	2.0	94
30	Noninvasive polarized light microscopy quantitatively distinguishes the multilaminar structure of the zona pellucida of living human eggs and embryos. <i>Fertility and Sterility</i> , 2004, 81, 850-856.	0.5	93
31	Increased Birefringence in the Meiotic Spindle Provides a New Marker for the Onset of Activation in Living Oocytes ¹ . <i>Biology of Reproduction</i> , 2000, 63, 251-258.	1.2	83
32	In Vivo Effects of Arsenite on Meiosis, Preimplantation Development, and Apoptosis in the Mouse ¹ . <i>Biology of Reproduction</i> , 2004, 70, 980-985.	1.2	72
33	Tet Enzymes Regulate Telomere Maintenance and Chromosomal Stability of Mouse ESCs. <i>Cell Reports</i> , 2016, 15, 1809-1821.	2.9	67
34	Robust measurement of telomere length in single cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1906-12.	3.3	62
35	Telomeres, Reproductive Aging, and Genomic Instability During Early Development. <i>Reproductive Sciences</i> , 2016, 23, 1612-1615.	1.1	61
36	Telomere shortening and DNA damage of embryonic stem cells induced by cigarette smoke. <i>Reproductive Toxicology</i> , 2013, 35, 89-95.	1.3	58

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37	Physiological variability of fluid-regulation hormones in young women. <i>Journal of Applied Physiology</i> , 1999, 86, 1092-1096.	1.2	55
38	Effects of cigarette smoke on fertilization and embryo development in vivo. <i>Fertility and Sterility</i> , 2009, 92, 1456-1465.	0.5	55
39	Increased DNA damage and repair deficiency in granulosa cells are associated with ovarian aging in rhesus monkey. <i>Journal of Assisted Reproduction and Genetics</i> , 2015, 32, 1069-1078.	1.2	55
40	Low Vitamin D levels predict clinical features of schizophrenia. <i>Schizophrenia Research</i> , 2014, 159, 543-545.	1.1	53
41	Telomere length, family history, and paternal age in schizophrenia. <i>Molecular Genetics & Genomic Medicine</i> , 2014, 2, 326-331.	0.6	47
42	A single-cell assay for telomere DNA content shows increasing telomere length heterogeneity, as well as increasing mean telomere length in human spermatozoa with advancing age. <i>Journal of Assisted Reproduction and Genetics</i> , 2015, 32, 1685-1690.	1.2	46
43	No evidence for neo-oogenesis may link to ovarian senescence in adult monkey. <i>Stem Cells</i> , 2013, 31, 2538-2550.	1.4	43
44	Nuclear Origin of Aging-Associated Meiotic Defects in Senescence-Accelerated Mice1. <i>Biology of Reproduction</i> , 2004, 71, 1724-1729.	1.2	39
45	Inflammatory biomarkers and telomere length in women with polycystic ovary syndrome. <i>Fertility and Sterility</i> , 2015, 103, 542-547.e2.	0.5	37
46	Epigenetics and Female Reproductive Aging. <i>Frontiers in Endocrinology</i> , 2019, 10, 473.	1.5	37
47	Telomeres and genomic instability during early development. <i>European Journal of Medical Genetics</i> , 2020, 63, 103638.	0.7	36
48	Telomeres and Female Reproductive Aging. <i>Seminars in Reproductive Medicine</i> , 2015, 33, 389-395.	0.5	34
49	Telomere Length Reprogramming in Embryos and Stem Cells. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	31
50	The reproducibility of trophoctoderm biopsies in euploid, aneuploid, and mosaic embryos using independently verified next-generation sequencing (NGS): a pilot study. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 559-571.	1.2	30
51	A non-invasive method for measuring preimplantation embryo physiology. <i>Zygote</i> , 2000, 8, 15-24.	0.5	29
52	Management and counseling of the male with advanced paternal age. <i>Fertility and Sterility</i> , 2017, 107, 324-328.	0.5	27
53	Molecular Features of Polycystic Ovary Syndrome Revealed by Transcriptome Analysis of Oocytes and Cumulus Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 735684.	1.8	26
54	Telomere Length and Telomerase Activity in Immature Oocytes and Cumulus Cells of Women with Polycystic Ovary Syndrome. <i>Reproductive Sciences</i> , 2020, 27, 1293-1303.	1.1	21

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55	Direct visual and circadian pathways target neuroendocrine cells in primates. <i>European Journal of Neuroscience</i> , 2004, 20, 2767-2776.	1.2	20
56	Control of LINE-1 Expression Maintains Genome Integrity in Germline and Early Embryo Development. <i>Reproductive Sciences</i> , 2022, 29, 328-340.	1.1	19
57	Telomere length and early trauma in schizophrenia. <i>Schizophrenia Research</i> , 2018, 199, 426-430.	1.1	16
58	Impaired reproductive function and fertility preservation in a woman with a dyskeratosis congenita. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 1221-1225.	1.2	16
59	Telomere Elongation and Naive Pluripotent Stem Cells Achieved from Telomerase Haplo-Insufficient Cells by Somatic Cell Nuclear Transfer. <i>Cell Reports</i> , 2014, 9, 1603-1609.	2.9	14
60	Telomere erosion as a placental clock: From placental pathologies to adverse pregnancy outcomes. <i>Placenta</i> , 2020, 97, 101-107.	0.7	14
61	Generation of pluripotent stem cells from eggs of aging mice. <i>Aging Cell</i> , 2010, 9, 113-125.	3.0	13
62	Telomere length variability is related to symptoms and cognition in schizophrenia. <i>Schizophrenia Research</i> , 2015, 164, 268-269.	1.1	12
63	Ovarian Aging: Breaking Up Is Hard to Fix. <i>Science Translational Medicine</i> , 2013, 5, 172fs5.	5.8	11
64	Uroplakins play conserved roles in egg fertilization and acquired additional urothelial functions during mammalian divergence. <i>Molecular Biology of the Cell</i> , 2018, 29, 3128-3143.	0.9	11
65	Relationship of Anxiety, Inflammation, and Telomere Length in Postpartum Women: A Pilot Study. <i>Biological Research for Nursing</i> , 2020, 22, 256-262.	1.0	11
66	Reconstitution of ovarian function following transplantation of primordial germ cells. <i>Scientific Reports</i> , 2017, 7, 1427.	1.6	10
67	New Approaches to Assisted Reproductive Technologies. <i>Seminars in Reproductive Medicine</i> , 2005, 23, 301-308.	0.5	8
68	Uterus transplantation in women who are genetically XY. <i>Journal of Medical Ethics</i> , 2019, 45, 687-689.	1.0	8
69	Telomere Shortening and Fusions: A Link to Aneuploidy in Early Human Embryo Development. <i>Obstetrical and Gynecological Survey</i> , 2021, 76, 429-436.	0.2	8
70	Generation of developmentally competent oocytes and fertile mice from parthenogenetic embryonic stem cells. <i>Protein and Cell</i> , 2021, 12, 947-964.	4.8	8
71	Zscan4 Contributes to Telomere Maintenance in Telomerase-Deficient Late Generation Mouse ESCs and Human ALT Cancer Cells. <i>Cells</i> , 2022, 11, 456.	1.8	8
72	Amyloid-like substance in mice and human oocytes and embryos. <i>Journal of Assisted Reproduction and Genetics</i> , 2019, 36, 1877-1890.	1.2	7

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73	Inhibition of LINE-1 retrotransposition represses telomere reprogramming during mouse 2-cell embryo development. <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 3145-3153.	1.2	7
74	Posthumous assisted reproduction policies among a cohort of United States™ in vitro fertilization clinics. <i>F&S Reports</i> , 2020, 1, 66-70.	0.4	5
75	Nuclear Transfer Methods to Study Aging. <i>Methods in Molecular Biology</i> , 2007, 371, 191-207.	0.4	5
76	Easing US restrictions on mitochondrial replacement therapy would protect research interests but grease the slippery slope. <i>Journal of Assisted Reproduction and Genetics</i> , 2019, 36, 1781-1785.	1.2	4
77	Oocyte stimulation parameters influence the number and proportion of mature oocytes retrieved in assisted reproductive technology cycles. <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 2283-2289.	1.2	4
78	Idiopathic early ovarian aging: is there a relation with premenopausal accelerated biological aging in young women with diminished response to ART?. <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 3027-3038.	1.2	4
79	In every end there is a beginning telomeres in male reproduction. <i>Fertility and Sterility</i> , 2014, 102, 690-691.	0.5	3
80	Impact of superovulation and in vitro fertilization on LINE-1 copy number and telomere length in C57BL/6J mice blastocysts. <i>Molecular Biology Reports</i> , 2022, 49, 4909-4917.	1.0	3
81	Inhibition of line-1 transposition blocks telomere elongation and downregulates totipotency genes during mouse embryo development. <i>Fertility and Sterility</i> , 2019, 112, e126.	0.5	2
82	Zidovudine inhibits telomere elongation, increases the transposable element LINE-1 copy number and compromises mouse embryo development. <i>Molecular Biology Reports</i> , 2021, 48, 7767-7773.	1.0	2
83	Can cell-free DNA (cfDNA) testing alleviate psychological distress in early miscarriage? A commentary. <i>Journal of Assisted Reproduction and Genetics</i> , 2022, 39, 1219-1224.	1.2	2
84	Response from the Authors Re: Letter to the Editor for Our Manuscript "Oocyte stimulation parameters influence the number and proportion of mature oocytes retrieved in assisted reproductive technology cycles". <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 2805-2805.	1.2	1