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List of Publications by Year
in descending order

57 papers	2,473 citations	236612 25 h-index	205818 48 g-index
58 all docs	58 docs citations	58 times ranked	2014 citing authors

#	Article	IF	Citations
1	Oocyte activation, phospholipase C zeta and human infertility. Human Reproduction Update, 2010, 16, 690-703.	5.2	232
2	Treatment option for sperm- or oocyte-related fertilization failure: assisted oocyte activation following diagnostic heterologous ICSI. Human Reproduction, 2005, 20, 2237-2241.	0.4	195
3	Efficiency of assisted oocyte activation as a solution for failed intracytoplasmic sperm injection. Reproductive BioMedicine Online, 2008, 17, 662-668.	1.1	140
4	Assisted oocyte activation following ICSI fertilization failure. Reproductive BioMedicine Online, 2014, 28, 560-571.	1.1	131
5	Alternative Routes to Induce NaÃ¯ve Pluripotency in Human Embryonic Stem Cells. Stem Cells, 2015, 33, 2686-2698.	1.4	118
6	A maternally inherited autosomal point mutation in human phospholipase C zeta (PLCÂ) leads to male infertility. Human Reproduction, 2012, 27, 222-231.	0.4	117
7	Chromosomal mosaicism in human blastocysts: the ultimate challenge of preimplantation genetic testing?. Human Reproduction, 2018, 33, 1342-1354.	0.4	94
8	Genome engineering through CRISPR/Cas9 technology in the human germline and pluripotent stem cells. Human Reproduction Update, 2016, 22, 411-419.	5.2	93
9	Extended <i>in vitro</i> culture of human embryos demonstrates the complex nature of diagnosing chromosomal mosaicism from a single trophectoderm biopsy. Human Reproduction, 2019, 34, 758-769.	0.4	93
10	Assisted oocyte activation is not beneficial for all patients with a suspected oocyte-related activation deficiency. Human Reproduction, 2012, 27, 1977-1984.	0.4	81
11	Diagnostic and prognostic value of calcium oscillatory pattern analysis for patients with ICSI fertilization failure. Human Reproduction, 2013, 28, 87-98.	0.4	77
12	Loss of activity mutations in phospholipase C zeta (PLCÂ) abolishes calcium oscillatory ability of human recombinant protein in mouse oocytes. Human Reproduction, 2011, 26, 3372-3387.	0.4	75
13	Direct comparison of distinct naive pluripotent states in human embryonic stem cells. Nature Communications, 2017, 8, 15055.	5.8	60
14	Effect of two assisted oocyte activation protocols used to overcome fertilization failure on the activation potential and calcium releasing pattern. Fertility and Sterility, 2016, 105, 798-806.e2.	0.5	59
15	Two decades of embryonic stem cells: a historical overview. Human Reproduction Open, 2019, 2019, hoy024.	2.3	59
16	Stem cells in reproductive medicine: ready for the patient?: Figure 1. Human Reproduction, 2015, 30, 2014-2021.	0.4	58
17	Comparative analysis of naive, primed and ground state pluripotency in mouse embryonic stem cells originating from the same genetic background. Scientific Reports, 2018, 8, 5884.	1.6	54
18	Effect of Culture Media on In Vitro Development of Cloned Mouse Embryos. Cloning, 2001, 3, 41-50.	2.1	53

#	ARTICLE	IF	CITATIONS
19	Embryo development after successful somatic cell nuclear transfer to in vitro matured human germinal vesicle oocytes. Human Reproduction, 2007, 22, 1982-1990.	0.4	53
20	Oocyte cryopreservation and in vitro culture affect calcium signalling during human fertilization. Human Reproduction, 2014, 29, 29-40.	0.4	48
21	Modelling human embryogenesis: embryo-like structures spark ethical and policy debate. Human Reproduction Update, 2020, 26, 779-798.	5.2	36
22	Human oocyte calcium analysis predicts the response to assisted oocyte activation in patients experiencing fertilization failure after ICSI. Human Reproduction, 2018, 33, 416-425.	0.4	34
23	Single Ca2+ transients vs oscillatory Ca2+ signaling for assisted oocyte activation: limitations and benefits. Reproduction, 2018, 155, R105-R119.	1.1	31
24	Developmental potential of cloned mouse embryos reconstructed by a conventional technique of nuclear injection. Reproduction, 2002, 124, 197-207.	1.1	28
25	Comparison of pre- and post-implantation development following the application of three artificial activating stimuli in a mouse model with round-headed sperm cells deficient for oocyte activation. Human Reproduction, 2013, 28, 1190-1198.	0.4	27
26	Assessment of nuclear transfer techniques to prevent the transmission of heritable mitochondrial disorders without compromising embryonic development competence in mice. Mitochondrion, 2014, 18, 27-33.	1.6	27
27	Exogenous supplementation of Activin A enhances germ cell differentiation of human embryonic stem cellsâ€. Molecular Human Reproduction, 2015, 21, 410-423.	1.3	26
28	Aberrant spindle structures responsible for recurrent human metaphase I oocyte arrest with attempts to induce meiosis artificially. Human Reproduction, 2011, 26, 791-800.	0.4	25
29	Treatment of human embryos with the TGFÂ inhibitor SB431542 increases epiblast proliferation and permits successful human embryonic stem cell derivation. Human Reproduction, 2014, 29, 41-48.	0.4	25
30	Mutation-free baby born from a mitochondrial encephalopathy, lactic acidosis and stroke-like syndrome carrier after blastocyst trophectoderm preimplantation genetic diagnosis. Mitochondrion, 2014, 18, 12-17.	1.6	22
31	Sperm involved in recurrent partial hydatidiform moles cannot induce the normal pattern of calcium oscillations. Fertility and Sterility, 2014, 102, 581-588.e1.	0.5	20
32	Chromosome number and development of artificial mouse oocytes and zygotes. Human Reproduction, 2004, 19, 1189-1194.	0.4	19
33	A systematic analysis of the suitability of preimplantation genetic diagnosis for mitochondrial diseases in a heteroplasmic mitochondrial mouse model. Human Reproduction, 2014, 29, 852-859.	0.4	18
34	Efficiency of polarized microscopy as a predictive tool for human oocyte quality. Human Reproduction, 2011, 26, 535-544.	0.4	17
35	The post-inner cell mass intermediate: implications for stem cell biology and assisted reproductive technology. Human Reproduction Update, 2015, 21, 616-626.	5.2	17
36	Germline nuclear transfer in mice may rescue poor embryo development associated with advanced maternal age and early embryo arrest. Human Reproduction, 2020, 35, 1562-1577.	0.4	17

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37	Human in vitro spermatogenesis from pluripotent stem cells: in need of a stepwise differentiation protocol?. Molecular Human Reproduction, 2018, 24, 47-54.	1.3	16
38	Strand-specific single-cell methylomics reveals distinct modes of DNA demethylation dynamics during early mammalian development. Nature Communications, 2021, 12, 1286.	5.8	16
39	Cellular Heterogeneity in the Level of mtDNA Heteroplasmy in Mouse Embryonic Stem Cells. Cell Reports, 2015, 13, 1304-1309.	2.9	14
40	The role of the reprogramming method and pluripotency state in gamete differentiation from patient-specific human pluripotent stem cells. Molecular Human Reproduction, 2018, 24, 173-184.	1.3	14
41	Cyclin E1 plays a key role in balancing between totipotency and differentiation in human embryonic cells. Molecular Human Reproduction, 2015, 21, 942-956.	1.3	13
42	Strontium fails to induce Ca2+ release and activation in human oocytes despite the presence of functional TRPV3 channels. Human Reproduction Open, 2018, 2018, hoy005.	2.3	13
43	Assessment of the calcium releasing machinery in oocytes that failed to fertilize after conventional ICSI and assisted oocyte activation. Reproductive BioMedicine Online, 2019, 38, 497-507.	1.1	13
44	<i>TEAD4</i> regulates trophectoderm differentiation upstream of <i>CDX2</i> in a <i>GATA3</i>-independent manner in the human preimplantation embryo. Human Reproduction, 2022, 37, 1760-1773.	0.4	13
45	Comparative analysis of mouse and human preimplantation development following <i>POU5F1</i> CRISPR/Cas9 targeting reveals interspecies differences. Human Reproduction, 2021, 36, 1242-1252.	0.4	12
46	Comparative analysis of different nuclear transfer techniques to prevent the transmission of mitochondrial DNA variants. Molecular Human Reproduction, 2019, 25, 797-810.	1.3	11
47	Comparative study of preimplantation development following distinct assisted oocyte activation protocols in a PLC-zeta knockout mouse model. Molecular Human Reproduction, 2020, 26, 801-815.	1.3	11
48	SPERM FACTORS AND EGG ACTIVATION: Fertilization failure after human ICSI and the clinical potential of PLCZ1. Reproduction, 2022, 164, F39-F51.	1.1	11
49	The influence of patient and cohort parameters on the incidence and developmental potential of embryos with poor quality traits for use in human embryonic stem cell derivation. Human Reproduction, 2012, 27, 1581-1589.	0.4	10
50	CRISPR/Cas gene editing in the human germline. Seminars in Cell and Developmental Biology, 2022, 131, 93-107.	2.3	8
51	Platelet-activating factor acetylhydrolase 1B3 (PAFAH1B3) is required for the formation of the meiotic spindle during in vitro oocyte maturation. Reproduction, Fertility and Development, 2018, 30, 1739.	0.1	7
52	Transcriptional landscape changes during human embryonic stem cell derivation. Molecular Human Reproduction, 2018, 24, 543-555.	1.3	5
53	Robust protocol for feeder-free adaptation of cryopreserved human pluripotent stem cells. In Vitro Cellular and Developmental Biology - Animal, 2019, 55, 777-783.	0.7	4
54	Pan-cancer pharmacogenetics: targeted sequencing panels or exome sequencing?. Pharmacogenomics, 2020, 21, 1073-1084.	0.6	3

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55	Intracellular localisation of platelet-activating factor during mammalian embryo development in vitro: a comparison of cattle, mouse and human. Reproduction, Fertility and Development, 2019, 31, 658.	0.1	0
56	Pâ€“429 Calcium analysis and embryonic development of in vitro matured oocytes from transgender men. Human Reproduction, 2021, 36, .	0.4	0
57	P-238â€ƒTreatment options to overcome impaired fertilization and embryonic development caused by an oocyte-related deficiency in the Patl2-/- mouse model. Human Reproduction, 2022, 37, .	0.4	0