

# B Heindryckx

## List of Publications by Year in Descending Order

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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.

52  
papers

1,856  
citations

23  
h-index

42  
g-index

58  
ext. papers

2,163  
ext. citations

5.9  
avg, IF

4.49  
L-index

#	Paper	IF	Citations
52	Comparative analysis of mouse and human preimplantation development following POU5F1 CRISPR/Cas9 targeting reveals interspecies differences. <i>Human Reproduction</i> , <b>2021</b> , 36, 1242-1252	5.7	3
51	Strand-specific single-cell methylomics reveals distinct modes of DNA demethylation dynamics during early mammalian development. <i>Nature Communications</i> , <b>2021</b> , 12, 1286	17.4	2
50	Germline nuclear transfer in mice may rescue poor embryo development associated with advanced maternal age and early embryo arrest. <i>Human Reproduction</i> , <b>2020</b> , 35, 1562-1577	5.7	5
49	Modelling human embryogenesis: embryo-like structures spark ethical and policy debate. <i>Human Reproduction Update</i> , <b>2020</b> , 26, 779-798	15.8	20
48	Pan-cancer pharmacogenetics: targeted sequencing panels or exome sequencing?. <i>Pharmacogenomics</i> , <b>2020</b> , 21, 1073-1084	2.6	1
47	Comparative study of preimplantation development following distinct assisted oocyte activation protocols in a PLC-zeta knockout mouse model. <i>Molecular Human Reproduction</i> , <b>2020</b> , 26, 801-815	4.4	1
46	Two decades of embryonic stem cells: a historical overview. <i>Human Reproduction Open</i> , <b>2019</b> , 2019, hoy024	0.24	34
45	Extended in vitro culture of human embryos demonstrates the complex nature of diagnosing chromosomal mosaicism from a single trophectoderm biopsy. <i>Human Reproduction</i> , <b>2019</b> , 34, 758-769	5.7	48
44	Robust protocol for feeder-free adaptation of cryopreserved human pluripotent stem cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2019</b> , 55, 777-783	2.6	2
43	Comparative analysis of different nuclear transfer techniques to prevent the transmission of mitochondrial DNA variants. <i>Molecular Human Reproduction</i> , <b>2019</b> , 25, 797-810	4.4	9
42	Assessment of the calcium releasing machinery in oocytes that failed to fertilize after conventional ICSI and assisted oocyte activation. <i>Reproductive BioMedicine Online</i> , <b>2019</b> , 38, 497-507	4	5
41	Intracellular localisation of platelet-activating factor during mammalian embryo development in vitro: a comparison of cattle, mouse and human. <i>Reproduction, Fertility and Development</i> , <b>2019</b> , 31, 658-670	1.8	18
40	The role of the reprogramming method and pluripotency state in gamete differentiation from patient-specific human pluripotent stem cells. <i>Molecular Human Reproduction</i> , <b>2018</b> , 24, 173-184	4.4	9
39	Comparative analysis of naive, primed and ground state pluripotency in mouse embryonic stem cells originating from the same genetic background. <i>Scientific Reports</i> , <b>2018</b> , 8, 5884	4.9	35
38	Human in vitro spermatogenesis from pluripotent stem cells: in need of a stepwise differentiation protocol?. <i>Molecular Human Reproduction</i> , <b>2018</b> , 24, 47-54	4.4	11
37	Human oocyte calcium analysis predicts the response to assisted oocyte activation in patients experiencing fertilization failure after ICSI. <i>Human Reproduction</i> , <b>2018</b> , 33, 416-425	5.7	23
36	Platelet-activating factor acetylhydrolase 1B3 (PAFAH1B3) is required for the formation of the meiotic spindle during in vitro oocyte maturation. <i>Reproduction, Fertility and Development</i> , <b>2018</b> , 30, 1739-1750	1.8	5

35	Single Ca transients vs oscillatory Ca signaling for assisted oocyte activation: limitations and benefits. <i>Reproduction</i> , <b>2018</b> , 155, R105-R119	3.8	18
34	Transcriptional landscape changes during human embryonic stem cell derivation. <i>Molecular Human Reproduction</i> , <b>2018</b> , 24, 543-555	4.4	4
33	Strontium fails to induce Ca release and activation in human oocytes despite the presence of functional TRPV3 channels. <i>Human Reproduction Open</i> , <b>2018</b> , 2018, hoy005	6.1	9
32	Chromosomal mosaicism in human blastocysts: the ultimate challenge of preimplantation genetic testing?. <i>Human Reproduction</i> , <b>2018</b> , 33, 1342-1354	5.7	63
31	Direct comparison of distinct naive pluripotent states in human embryonic stem cells. <i>Nature Communications</i> , <b>2017</b> , 8, 15055	17.4	44
30	Effect of two assisted oocyte activation protocols used to overcome fertilization failure on the activation potential and calcium releasing pattern. <i>Fertility and Sterility</i> , <b>2016</b> , 105, 798-806.e2	4.8	41
29	Genome engineering through CRISPR/Cas9 technology in the human germline and pluripotent stem cells. <i>Human Reproduction Update</i> , <b>2016</b> , 22, 411-9	15.8	63
28	Stem cells in reproductive medicine: ready for the patient?. <i>Human Reproduction</i> , <b>2015</b> , 30, 2014-21	5.7	53
27	The post-inner cell mass intermediate: implications for stem cell biology and assisted reproductive technology. <i>Human Reproduction Update</i> , <b>2015</b> , 21, 616-26	15.8	15
26	Cyclin E1 plays a key role in balancing between totipotency and differentiation in human embryonic cells. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 942-56	4.4	10
25	Alternative Routes to Induce Naïve Pluripotency in Human Embryonic Stem Cells. <i>Stem Cells</i> , <b>2015</b> , 33, 2686-98	5.8	91
24	Cellular Heterogeneity in the Level of mtDNA Heteroplasmy in Mouse Embryonic Stem Cells. <i>Cell Reports</i> , <b>2015</b> , 13, 1304-1309	10.6	12
23	Exogenous supplementation of Activin A enhances germ cell differentiation of human embryonic stem cells. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 410-23	4.4	21
22	Oocyte cryopreservation and in vitro culture affect calcium signalling during human fertilization. <i>Human Reproduction</i> , <b>2014</b> , 29, 29-40	5.7	42
21	Assessment of nuclear transfer techniques to prevent the transmission of heritable mitochondrial disorders without compromising embryonic development competence in mice. <i>Mitochondrion</i> , <b>2014</b> , 18, 27-33	4.9	18
20	Sperm involved in recurrent partial hydatidiform moles cannot induce the normal pattern of calcium oscillations. <i>Fertility and Sterility</i> , <b>2014</b> , 102, 581-588.e1	4.8	17
19	Assisted oocyte activation following ICSI fertilization failure. <i>Reproductive BioMedicine Online</i> , <b>2014</b> , 28, 560-71	4	101
18	Mutation-free baby born from a mitochondrial encephalopathy, lactic acidosis and stroke-like syndrome carrier after blastocyst trophectoderm preimplantation genetic diagnosis. <i>Mitochondrion</i> , <b>2014</b> , 18, 12-7	4.9	17

17	A systematic analysis of the suitability of preimplantation genetic diagnosis for mitochondrial diseases in a heteroplasmic mitochondrial mouse model. <i>Human Reproduction</i> , <b>2014</b> , 29, 852-9	5.7	14
16	Treatment of human embryos with the TGF $\beta$ inhibitor SB431542 increases epiblast proliferation and permits successful human embryonic stem cell derivation. <i>Human Reproduction</i> , <b>2014</b> , 29, 41-8	5.7	17
15	Diagnostic and prognostic value of calcium oscillatory pattern analysis for patients with ICSI fertilization failure. <i>Human Reproduction</i> , <b>2013</b> , 28, 87-98	5.7	60
14	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. <i>Human Reproduction</i> , <b>2013</b> , 28, 1190-8	5.7	23
13	A maternally inherited autosomal point mutation in human phospholipase C zeta (PLC $\zeta$ ) leads to male infertility. <i>Human Reproduction</i> , <b>2012</b> , 27, 222-31	5.7	96
12	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. <i>Human Reproduction</i> , <b>2012</b> , 27, 1581-9	5.7	9
11	Assisted oocyte activation is not beneficial for all patients with a suspected oocyte-related activation deficiency. <i>Human Reproduction</i> , <b>2012</b> , 27, 1977-84	5.7	65
10	Efficiency of polarized microscopy as a predictive tool for human oocyte quality. <i>Human Reproduction</i> , <b>2011</b> , 26, 535-44	5.7	17
9	Aberrant spindle structures responsible for recurrent human metaphase I oocyte arrest with attempts to induce meiosis artificially. <i>Human Reproduction</i> , <b>2011</b> , 26, 791-800	5.7	22
8	Loss of activity mutations in phospholipase C zeta (PLC $\zeta$ ) abolishes calcium oscillatory ability of human recombinant protein in mouse oocytes. <i>Human Reproduction</i> , <b>2011</b> , 26, 3372-87	5.7	63
7	Oocyte activation, phospholipase C zeta and human infertility. <i>Human Reproduction Update</i> , <b>2010</b> , 16, 690-703	15.8	197
6	Efficiency of assisted oocyte activation as a solution for failed intracytoplasmic sperm injection. <i>Reproductive BioMedicine Online</i> , <b>2008</b> , 17, 662-8	4	117
5	Embryo development after successful somatic cell nuclear transfer to in vitro matured human germinal vesicle oocytes. <i>Human Reproduction</i> , <b>2007</b> , 22, 1982-90	5.7	50
4	Treatment option for sperm- or oocyte-related fertilization failure: assisted oocyte activation following diagnostic heterologous ICSI. <i>Human Reproduction</i> , <b>2005</b> , 20, 2237-41	5.7	163
3	Chromosome number and development of artificial mouse oocytes and zygotes. <i>Human Reproduction</i> , <b>2004</b> , 19, 1189-94	5.7	18
2	Developmental potential of cloned mouse embryos reconstructed by a conventional technique of nuclear injection. <i>Reproduction</i> , <b>2002</b> , 124, 197-207	3.8	25
1	Effect of culture media on in vitro development of cloned mouse embryos. <i>Cloning</i> , <b>2001</b> , 3, 41-50		46