Daniel R Brison

List of Publications by Year
in descending order

84 papers	4,241 citations	159358 30 h-index	114278 63 g-index
89 all docs	89 docs citations	89 times ranked	5006 citing authors

#	Article	IF	Citations
1	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. Nature Biotechnology, 2011, 29, 1132-1144.	9.4	509
2	Metabolomics: Current technologies and future trends. Proteomics, 2006, 6, 4716-4723.	1.3	471
3	Apoptosis during Mouse Blastocyst Formation: Evidence for a Role for Survival Factors Including Transforming Growth Factor Î±1. Biology of Reproduction, 1997, 56, 1088-1096.	1.2	361
4	Directed differentiation of human embryonic stem cells toward chondrocytes. Nature Biotechnology, 2010, 28, 1187-1194.	9.4	271
5	Metabolism of the viable mammalian embryo: quietness revisited. Molecular Human Reproduction, 2008, 14, 667-672.	1.3	228
6	When and how should new technology be introduced into the IVF laboratory?. Human Reproduction, 2012, 27, 303-313.	0.4	146
7	Time to take human embryo culture seriously: Table I. Human Reproduction, 2016, 31, 2174-2182.	0.4	131
8	Increased Incidence of Apoptosis in Transforming Growth Factor Î±-Deficient Mouse Blastocysts1. Biology of Reproduction, 1998, 59, 136-144.	1.2	105
9	Cryopreserved-thawed embryo transfer in natural or down-regulated hormonally controlled cycles: a retrospective study. Fertility and Sterility, 2006, 85, 603-609.	0.5	99
10	Ovarian response to gonadotropins after laparoscopic salpingectomy or the division of fallopian tubes for hydrosalpinges. Fertility and Sterility, 2006, 85, 1464-1468.	0.5	95
11	Expression of 11 members of the BCL-2 family of apoptosis regulatory molecules during human preimplantation embryo development and fragmentation. Molecular Reproduction and Development, 2004, 68, 35-50.	1.0	94
12	Apoptosis in the preimplantation mouse embryo: Effect of strain difference and in vitro culture. Molecular Reproduction and Development, 2002, 61, 67-77.	1.0	87
13	Physiological, hyaluronan-selected intracytoplasmic sperm injection for infertility treatment (HABSelect): a parallel, two-group, randomised trial. Lancet, The, 2019, 393, 416-422.	6.3	85
14	Assessing embryo viability by measurement of amino acid turnover. Reproductive BioMedicine Online, 2008, 17, 486-496.	1.1	83
15	Apoptosis in mammalian preimplantation embryos: Regulation by survival factors. Human Fertility, 2000, 3, 36-47.	0.7	74
16	Biological optimization, the Goldilocks principle, and how much islagomin the preimplantation embryo. Molecular Reproduction and Development, 2016, 83, 748-754.	1.0	66
17	Elective Single Embryo Transfer: an update to UK Best Practice Guidelines. Human Fertility, 2015, 18, 165-183.	0.7	62
18	Apposition to endometrial epithelial cells activates mouse blastocysts for implantation. Molecular Human Reproduction, 2017, 23, 617-627.	1.3	55

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19	The Molecular Karyotype of 25 Clinical-Grade Human Embryonic Stem Cell Lines. Scientific Reports, 2015, 5, 17258.	1.6	54
20	Predicting human embryo viability: the road to non-invasive analysis of the secretome using metabolic footprinting. Reproductive BioMedicine Online, 2007, 15, 296-302.	1.1	50
21	How should we assess the safety of IVF technologies?. Reproductive BioMedicine Online, 2013, 27, 710-721.	1.1	49
22	The growth of assisted reproductive treatment-conceived children from birth to 5Âyears: a national cohort study. BMC Medicine, 2018, 16, 224.	2.3	47
23	The optimal length of â€˜coasting protocolâ€™ in women at risk of ovarian hyperstimulation syndrome undergoingin vitrofertilization. Human Fertility, 2006, 9, 175-180.	0.7	45
24	Comparison of gene expression in fresh and frozenâ€“thawed human preimplantation embryos. Reproduction, 2012, 144, 569-582.	1.1	45
25	No common denominator: a review of outcome measures in IVF RCTs. Human Reproduction, 2016, 31, 2714-2722.	0.4	45
26	HighÂquality clinicalÂgrade human embryonic stem cell lines derived from fresh discarded embryos. Stem Cell Research and Therapy, 2017, 8, 128.	2.4	37
27	Application of extracellular flux analysis for determining mitochondrial function in mammalian oocytes and early embryos. Scientific Reports, 2019, 9, 16778.	1.6	36
28	Metabolic heterogeneity during preimplantation development: the missing link?. Human Reproduction Update, 2014, 20, 632-640.	5.2	35
29	Ultrastructural Preservation of Ovarian Cortical Tissue Cryopreserved in Dimethylsulfoxide for Subsequent Transplantation into Young Female Cancer Patients. Ultrastructural Pathology, 2004, 28, 239-245.	0.4	33
30	Reducing the incidence of twins from IVF treatments: predictive modelling from a retrospective cohort. Human Reproduction, 2011, 26, 569-575.	0.4	33
31	Global Gene Expression Profiling of Individual Human Oocytes and Embryos Demonstrates Heterogeneity in Early Development. PLoS ONE, 2013, 8, e64192.	1.1	33
32	Investigating the Glycating Effects of Glucose, Glyoxal and Methylglyoxal on Human Sperm. Scientific Reports, 2018, 8, 9002.	1.6	33
33	Human spermbots for patient-representative 3D ovarian cancer cell treatment. Nanoscale, 2020, 12, 20467-20481.	2.8	31
34	Chemical signals from eggs facilitate cryptic female choice in humans. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200805.	1.2	30
35	The impact of IVF on birthweight from 1991 to 2015: a cross-sectional study. Human Reproduction, 2019, 34, 920-931.	0.4	28
36	The impact of selected embryo culture conditions on ART treatment cycle outcomes: a UK national study. Human Reproduction Open, 2020, 2020, hoz031.	2.3	28

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37	Trophectoderm differentiation to invasive syncytiotrophoblast is promoted by endometrial epithelial cells during human embryo implantation. Human Reproduction, 2022, 37, 777-792.	0.4	28
38	Modelling the impact of single embryo transfer in a national health service IVF programme. Human Reproduction, 2008, 24, 122-131.	0.4	27
39	Clinically failed eggs as a source of normal human embryo stem cells. Stem Cell Research, 2009, 2, 188-197.	0.3	27
40	ACE consensus meeting report: oocyte and embryo cryopreservation Sheffield 17.05.11. Human Fertility, 2012, 15, 69-74.	0.7	23
41	Elective freezing of embryos versus fresh embryo transfer in IVF: a multicentre randomized controlled trial in the UK (E-Freeze). Human Reproduction, 2022, 37, 476-487.	0.4	23
42	Embryo morphology as a predictor of IVF success: An evaluation of the proposed UK ACE grading scheme for cleavage stage embryos. Human Fertility, 2012, 15, 11-17.	0.7	22
43	Working Party on Sperm Donation Services in the UK. Human Fertility, 2008, 11, 147-158.	0.7	21
44	Characterisation of Osteopontin in an In Vitro Model of Embryo Implantation. Cells, 2019, 8, 432.	1.8	21
45	The role of exogenous energy substrates in blastocoele fluid accumulation in the rat. Zygote, 1994, 2, 69-77.	0.5	20
46	ACE consensus meeting report: Culture systems. Human Fertility, 2014, 17, 239-251.	0.7	20
47	Associations of sperm telomere length with semen parameters, clinical outcomes and lifestyle factors in human normozoospermic samples. Andrology, 2020, 8, 583-593.	1.9	19
48	The effects of hyaluronate-containing medium on human embryo attachment to endometrial epithelial cells in vitro. Human Reproduction Open, 2020, 2020, hoz033.	2.3	18
49	Human feeder cell line for derivation and culture of hESc/hiPSc. Stem Cell Research, 2011, 7, 154-162.	0.3	17
50	Study protocol: E-freeze - freezing of embryos in assisted conception: a randomised controlled trial evaluating the clinical and cost effectiveness of a policy of freezing embryos followed by thawed frozen embryo transfer compared with a policy of fresh embryo transfer, in women undergoing in vitro fertilisation. Reproductive Health, 2019, 16, 81.	1.2	17
51	The Quiet Embryo Hypothesis: 20 years on. Frontiers in Physiology, 2022, 13, .	1.3	17
52	Amplification of representative cDNA pools from single human oocytes and pronucleate embryos. Molecular Reproduction and Development, 2003, 65, 1-8.	1.0	16
53	Live birth rate following undisturbed embryo culture at low oxygen in a time-lapse incubator compared to a high-quality benchtop incubator. Human Fertility, 2022, 25, 147-153.	0.7	16
54	Derivation of Man-1 and Man-2 research grade human embryonic stem cell lines. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 386-394.	0.7	15

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55	Temperature of embryo culture for assisted reproduction. The Cochrane Library, 2019, 9, CD012192.	1.5	13
56	Associations of IVF singleton birthweight and gestation with clinical treatment and laboratory factors: a multicentre cohort study. Human Reproduction, 2020, 35, 2860-2870.	0.4	12
57	Naturally Immortalised Mouse Embryonic Fibroblast Lines Support Human Embryonic Stem Cell Growth. Cloning and Stem Cells, 2009, 11, 453-462.	2.6	9
58	Prognostic factors influencing fresh and frozen IVF outcomes: an analysis of the UK national database. Reproductive BioMedicine Online, 2011, 22, 437-448.	1.1	9
59	Optimized Protocol for Derivation of Human Embryonic Stem Cell Lines. Stem Cell Reviews and Reports, 2012, 8, 1011-1020.	5.6	9
60	Going to extremes: the Goldilocks/Lagom principle and data distribution. BMJ Open, 2019, 9, e027767.	0.8	9
61	Protein O-GlcNAcylation Promotes Trophoblast Differentiation at Implantation. Cells, 2020, 9, 2246.	1.8	9
62	Sperm selection for assisted reproduction by prior hyaluronan binding: the HABSelect RCT. Efficacy and Mechanism Evaluation, 2019, 6, 1-80.	0.9	9
63	The use of single embryo transfer to reduce the incidence of twins: Implications and questions for practice from the â€˜towardSET?â€™ project. Human Fertility, 2011, 14, 89-96.	0.7	8
64	Clinical efficacy of hyaluronate-containing embryo transfer medium in IVF/ICSI treatment cycles: a cohort study. Human Reproduction Open, 2021, 2021, hoab004.	2.3	8
65	Waiting forin vitrofertilization treatment: Spontaneous and ART live births. Human Fertility, 2003, 6, 116-121.	0.7	7
66	Testing for hypersensitivity to seminal fluid-free spermatozoa. Human Fertility, 2013, 16, 128-131.	0.7	7
67	Factors affecting embryo viability and uterine receptivity: insights from an analysis of the UK registry data. Reproductive BioMedicine Online, 2016, 32, 197-206.	1.1	7
68	Use eggs, not embryos, to derive stem cells. BMJ: British Medical Journal, 2003, 327, 872-a-872.	2.4	7
69	Gene expression analysis of a new source of human oocytes and embryos for research and human embryonic stem cell derivation. Fertility and Sterility, 2011, 95, 1410-1415.	0.5	5
70	Osmotic stress induces JNK-dependent embryo invasion in a model of implantation. Reproduction, 2018, 156, 421-428.	1.1	5
71	Glucose concentration during equine in vitro maturation alters mitochondrial function. Reproduction, 2020, 160, 227-237.	1.1	5
72	Transfer of thawed frozen embryo versus fresh embryo to improve the healthy baby rate in women undergoing IVF: the E-Freeze RCT. Health Technology Assessment, 2022, 26, 1-142.	1.3	5

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73	Cohort profile: a national, population-based cohort of children born after assisted conception in the UK (1992â€“2009): methodology and birthweight analysis. BMJ Open, 2021, 11, e050931.	0.8	4
74	The expression and activity of Toll-like receptors in the preimplantation human embryo suggest a new role for innate immunity. Human Reproduction, 2021, 36, 2661-2675.	0.4	3
75	Challenges imposed by scientific development in ART. Human Fertility, 2005, 8, 93-96.	0.7	2
76	The role of Trp53 in the mouse embryonic response to DNA damage. Molecular Human Reproduction, 2019, 25, 397-407.	1.3	2
77	Transport of embryos resulting from intracytoplasmic sperm injection, but not oocytes, adversely affects implantation. Fertility and Sterility, 2003, 80, 1529-1531.	0.5	1
78	Embryonic Stem Cells. , 2018, , 1-51.		1
79	Overview: Are blastocysts better. Human Fertility, 2000, 3, 227-228.	0.7	0
80	Professor Henry J Leese: honorary member of the European Society of Human Reproduction and Embryology. Human Fertility, 2016, 19, 220-221.	0.7	0
81	Reply I: Embryo culture media effects. Human Reproduction, 2017, 32, 719.	0.4	0
82	0393â€…A systematic literature review: organophosphate (op) pesticide exposure and semen quality. , 2017, , .		0
83	The Female Reproductive Tract and Early Embryo Development. , 0, , 99-108.		0
84	Embryonic Stem Cells. , 2020, , 315-365.		0