

Alan H Handyside

List of Publications by Citations

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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.

88

papers

7,236

citations

43

h-index

84

g-index

99

ext. papers

7,826

ext. citations

6.6

avg, IF

5.49

L-index

#	Paper	IF	Citations
88	HPRT-deficient (Lesch-Nyhan) mouse embryos derived from germline colonization by cultured cells. <i>Nature</i> , 1987 , 326, 292-5	50.4	1077
87	Birth of a normal girl after in vitro fertilization and preimplantation diagnostic testing for cystic fibrosis. <i>New England Journal of Medicine</i> , 1992 , 327, 905-9	59.2	478
86	Multicolour FISH detects frequent chromosomal mosaicism and chaotic division in normal preimplantation embryos from fertile patients. <i>Human Genetics</i> , 1997 , 99, 755-60	6.3	359
85	Human preimplantation development in vitro is not adversely affected by biopsy at the 8-cell stage. <i>Human Reproduction</i> , 1990 , 5, 708-14	5.7	326
84	Karyomapping: a universal method for genome wide analysis of genetic disease based on mapping crossovers between parental haplotypes. <i>Journal of Medical Genetics</i> , 2010 , 47, 651-8	5.8	275
83	Mosaicism of autosomes and sex chromosomes in morphologically normal, monospermic preimplantation human embryos. <i>Prenatal Diagnosis</i> , 1995 , 15, 41-9	3.2	269
82	Detection of aneuploidy and chromosomal mosaicism in human embryos during preimplantation sex determination by fluorescent in situ hybridisation, (FISH). <i>Human Molecular Genetics</i> , 1993 , 2, 1183-5 ^{5.6}	5.6	247
81	Detailed chromosomal and molecular genetic analysis of single cells by whole genome amplification and comparative genomic hybridisation. <i>Nucleic Acids Research</i> , 1999 , 27, 1214-8	20.1	220
80	Identification of the sex of human preimplantation embryos in two hours using an improved spreading method and fluorescent in-situ hybridization (FISH) using directly labelled probes. <i>Human Reproduction</i> , 1994 , 9, 721-4	5.7	203
79	Genome-wide maps of recombination and chromosome segregation in human oocytes and embryos show selection for maternal recombination rates. <i>Nature Genetics</i> , 2015 , 47, 727-735	36.3	173
78	Isothermal whole genome amplification from single and small numbers of cells: a new era for preimplantation genetic diagnosis of inherited disease. <i>Molecular Human Reproduction</i> , 2004 , 10, 767-72 ^{4.4}	4.4	166
77	Polar body array CGH for prediction of the status of the corresponding oocyte. Part I: clinical results. <i>Human Reproduction</i> , 2011 , 26, 3173-80	5.7	161
76	Selection criteria for human embryo transfer: a comparison of pyruvate uptake and morphology. <i>Journal of Assisted Reproduction and Genetics</i> , 1993 , 10, 21-30	3.4	147
75	Multiple meiotic errors caused by predivision of chromatids in women of advanced maternal age undergoing in vitro fertilisation. <i>European Journal of Human Genetics</i> , 2012 , 20, 742-7	5.3	116
74	Oocyte regulation of anti-Müllerian hormone expression in granulosa cells during ovarian follicle development in mice. <i>Developmental Biology</i> , 2004 , 266, 201-8	3.1	115
73	Cell division and death in the mouse blastocyst before implantation. <i>Roux's Archives of Developmental Biology</i> , 1986 , 195, 519-526		112
72	Preimplantation genetic diagnosis: strategies and surprises. <i>Trends in Genetics</i> , 1997 , 13, 270-5	8.5	104

71	Genome-wide karyomapping accurately identifies the inheritance of single-gene defects in human preimplantation embryos in vitro. <i>Genetics in Medicine</i> , 2014 , 16, 838-45	8.1	100
70	The why, the how and the when of PGS 2.0: current practices and expert opinions of fertility specialists, molecular biologists, and embryologists. <i>Molecular Human Reproduction</i> , 2016 , 22, 845-57	4.4	99
69	Preimplantation genetic diagnosis of inherited cancer: familial adenomatous polyposis coli. <i>Journal of Assisted Reproduction and Genetics</i> , 1998 , 15, 140-4	3.4	97
68	Clinical experience with preimplantation diagnosis of sex by dual fluorescent in situ hybridization. <i>Journal of Assisted Reproduction and Genetics</i> , 1994 , 11, 132-43	3.4	96
67	Human embryo biopsy on the 2nd day after insemination for preimplantation diagnosis: removal of a quarter of embryo retards cleavage. <i>Fertility and Sterility</i> , 1992 , 58, 970-6	4.8	93
66	24-chromosome copy number analysis: a comparison of available technologies. <i>Fertility and Sterility</i> , 2013 , 100, 595-602	4.8	90
65	Compaction and surface polarity in the human embryo in vitro. <i>Biology of Reproduction</i> , 1996 , 55, 32-7	3.9	90
64	What next for preimplantation genetic screening? A polar body approach!. <i>Human Reproduction</i> , 2010 , 25, 575-7	5.7	89
63	Polar body array CGH for prediction of the status of the corresponding oocyte. Part II: technical aspects. <i>Human Reproduction</i> , 2011 , 26, 3181-5	5.7	78
62	Spindle abnormalities in normally developing and arrested human preimplantation embryos in vitro identified by confocal laser scanning microscopy. <i>Human Reproduction</i> , 2005 , 20, 672-82	5.7	78
61	Embryo biopsy strategies for preimplantation diagnosis. <i>Fertility and Sterility</i> , 1993 , 59, 943-52	4.8	66
60	XIST expression from the maternal X chromosome in human male preimplantation embryos at the blastocyst stage. <i>Human Molecular Genetics</i> , 1997 , 6, 1323-7	5.6	64
59	Paternal transcripts for glucose-6-phosphate dehydrogenase and adenosine deaminase are first detectable in the human preimplantation embryo at the three- to four-cell stage. <i>Molecular Reproduction and Development</i> , 1997 , 48, 442-8	2.6	61
58	Changes in the organization of the mouse egg plasma membrane upon fertilization and first cleavage: indications from the lateral diffusion rates of fluorescent lipid analogs. <i>Developmental Biology</i> , 1981 , 85, 195-8	3.1	61
57	A comparison of different lysis buffers to assess allele dropout from single cells for preimplantation genetic diagnosis. <i>Prenatal Diagnosis</i> , 2001 , 21, 490-7	3.2	57
56	Immunofluorescence techniques for determining the numbers of inner and outer blastomeres in mouse morulae. <i>Journal of Reproductive Immunology</i> , 1981 , 2, 339-50	4.2	56
55	Dynamics and ethics of comprehensive preimplantation genetic testing: a review of the challenges. <i>Human Reproduction Update</i> , 2013 , 19, 366-75	15.8	54
54	Use of BRL-conditioned medium in combination with feeder layers to isolate a diploid embryonal stem cell line. <i>Roux's Archives of Developmental Biology</i> , 1989 , 198, 48-56		50

53	Comparison of effects of zona drilling by non-contact infrared laser or acid Tyrode [®] on the development of human biopsied embryos as revealed by blastomere viability, cytoskeletal analysis and molecular cytogenetics. <i>Reproductive BioMedicine Online</i> , 2005 , 11, 697-710	4	47
52	Presence of chromosomal mosaicism in abnormal preimplantation embryos detected by fluorescence in situ hybridisation. <i>Human Genetics</i> , 1994 , 94, 609-15	6.3	47
51	Karyomapping-a comprehensive means of simultaneous monogenic and cytogenetic PGD: comparison with standard approaches in real time for Marfan syndrome. <i>Journal of Assisted Reproduction and Genetics</i> , 2015 , 32, 347-56	3.4	46
50	Assessment of the reliability of single blastomere analysis for preimplantation diagnosis of the delta F508 deletion causing cystic fibrosis in clinical practice. <i>Prenatal Diagnosis</i> , 1998 , 18, 1402-12	3.2	46
49	Polar body analysis by array comparative genomic hybridization accurately predicts aneuploidies of maternal meiotic origin in cleavage stage embryos of women of advanced maternal age. <i>Human Reproduction</i> , 2013 , 28, 1426-34	5.7	45
48	Metabolism and cell allocation during parthenogenetic preimplantation mouse development. <i>Molecular Reproduction and Development</i> , 1996 , 43, 313-22	2.6	45
47	Chromosomal mosaicism in cleavage-stage human embryos and the accuracy of single-cell genetic analysis. <i>Journal of Assisted Reproduction and Genetics</i> , 1998 , 15, 276-80	3.4	43
46	Towards the isolation of embryonal stem cell lines from the sheep. <i>Roux's Archives of Developmental Biology</i> , 1987 , 196, 185-190		43
45	Live birth after PGD with confirmation by a comprehensive approach (karyomapping) for simultaneous detection of monogenic and chromosomal disorders. <i>Reproductive BioMedicine Online</i> , 2014 , 29, 600-5	4	42
44	Reduced allele dropout in single-cell analysis for preimplantation genetic diagnosis of cystic fibrosis. <i>Journal of Assisted Reproduction and Genetics</i> , 1996 , 13, 104-6	3.4	42
43	Preimplantation genetic testing for Huntington disease and certain other dominantly inherited disorders. <i>Clinical Genetics</i> , 1996 , 49, 57-8	4	40
42	Cytoskeletal analysis of human blastocysts by confocal laser scanning microscopy following vitrification. <i>Human Reproduction</i> , 2012 , 27, 106-13	5.7	39
41	The current status of preimplantation diagnosis. <i>Current Obstetrics & Gynaecology</i> , 1994 , 4, 143-149		39
40	Preimplantation genetic diagnosis after 20 years. <i>Reproductive BioMedicine Online</i> , 2010 , 21, 280-2	4	36
39	Preimplantation diagnosis of aneuploidy using fluorescent in-situ hybridization: evaluation using a chromosome 18-specific probe. <i>Human Reproduction</i> , 1993 , 8, 296-301	5.7	36
38	The centrosome and early embryogenesis: clinical insights. <i>Reproductive BioMedicine Online</i> , 2008 , 16, 485-91	4	35
37	Tripolar mitosis and partitioning of the genome arrests human preimplantation development in vitro. <i>Scientific Reports</i> , 2017 , 7, 9744	4.9	33
36	Clinical experience with preimplantation genetic diagnosis of cystic fibrosis (delta F508). <i>Prenatal Diagnosis</i> , 1996 , 16, 137-42	3.2	32

35	Tripolar chromosome segregation drives the association between maternal genotype at variants spanning PLK4 and aneuploidy in human preimplantation embryos. <i>Human Molecular Genetics</i> , 2018 , 27, 2573-2585	5.6	31
34	PGD and aneuploidy screening for 24 chromosomes by genome-wide SNP analysis: seeing the wood and the trees. <i>Reproductive BioMedicine Online</i> , 2011 , 23, 686-91	4	31
33	Effect of microvilli on lateral diffusion measurements made by the fluorescence photobleaching recovery technique. <i>Biophysical Journal</i> , 1982 , 38, 295-7	2.9	30
32	Use of a non-contact, infrared laser for zona drilling of mouse embryos: assessment of immediate effects on blastomere viability. <i>Reproductive BioMedicine Online</i> , 2001 , 2, 178-187	4	29
31	Single-cell analysis of the RhD blood type for use in preimplantation diagnosis in the prevention of severe hemolytic disease of the newborn. <i>American Journal of Obstetrics and Gynecology</i> , 1995 , 172, 533-40	6.4	28
30	Preimplantation genetic diagnosis of compound heterozygous mutations leading to ablation of plakophilin-1 (PKP1) and resulting in skin fragility ectodermal dysplasia syndrome: a case report. <i>Prenatal Diagnosis</i> , 2000 , 20, 1055-62	3.2	22
29	Scoring of sperm chromosomal abnormalities by manual and automated approaches: qualitative and quantitative comparisons. <i>Asian Journal of Andrology</i> , 2010 , 12, 257-62	2.8	22
28	Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. <i>Nature Protocols</i> , 2016 , 11, 1229-43	18.8	20
27	Obstetric outcome of pregnancies resulting from embryos biopsied for pre-implantation diagnosis of inherited disease. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 1996 , 103, 784-8	3.7	19
26	Successful preimplantation genetic diagnosis for sex Link Lesch--Nyhan Syndrome using specific diagnosis. <i>Prenatal Diagnosis</i> , 1999 , 19, 1237-41	3.2	18
25	An algorithm for determining the origin of trisomy and the positions of chiasmata from SNP genotype data. <i>Chromosome Research</i> , 2011 , 19, 155-63	4.4	17
24	Diagnosis of inherited disease before implantation. <i>Reproductive Medicine Review</i> , 1993 , 2, 51-61		17
23	The dawn of the future: 30 years from the first biopsy of a human embryo. The detailed history of an ongoing revolution. <i>Human Reproduction Update</i> , 2020 , 26, 453-473	15.8	17
22	Cell allocation in twin half mouse embryos bisected at the 8-cell stage: implications for preimplantation diagnosis. <i>Molecular Reproduction and Development</i> , 1993 , 36, 16-22	2.6	16
21	Nuclear organisation in totipotent human nuclei and its relationship to chromosomal abnormality. <i>Journal of Cell Science</i> , 2008 , 121, 655-63	5.3	15
20	A pregnancy following PGD for X-linked dominant [correction of X-linked autosomal dominant] incontinentia pigmenti (Bloch-Sulzberger syndrome): case report. <i>Human Reproduction</i> , 2000 , 15, 2650-257	5.7	15
19	Preimplantation sexing and diagnosis of hypoxanthine phosphoribosyl transferase deficiency in mice by biochemical microassay. <i>American Journal of Medical Genetics Part A</i> , 1990 , 35, 201-5		14
18	Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. <i>Reproductive BioMedicine Online</i> , 2015 , 31, 776-82	4	13

17	Screening oocytes and preimplantation embryos for aneuploidy. <i>Current Opinion in Obstetrics and Gynecology</i> , 1999 , 11, 301-5	2.4	13
16	Pregnancies resulting from embryos biopsied for preimplantation diagnosis of genetic disease: biochemical and ultrasonic studies in the first trimester of pregnancy. <i>Journal of Assisted Reproduction and Genetics</i> , 1996 , 13, 254-8	3.4	12
15	Let parents decide. <i>Nature</i> , 2010 , 464, 978-9	50.4	11
14	Preimplantation genetic diagnosis comes of age. <i>Seminars in Reproductive Medicine</i> , 2012 , 30, 255-8	1.4	11
13	Abnormal cleavage and developmental arrest of human preimplantation embryos in vitro. <i>European Journal of Medical Genetics</i> , 2020 , 63, 103651	2.6	11
12	Paternal inheritance of a 16qh-polymorphism in a patient with repeated IVF failure. <i>Reproductive BioMedicine Online</i> , 2006 , 13, 864-7	4	10
11	Polarized distribution of membrane components on two-cell mouse embryos. <i>Roux's Archives of Developmental Biology</i> , 1987 , 196, 273-278		10
10	High implantation and clinical pregnancy rates with single vitrified-warmed blastocyst transfer and optional aneuploidy testing for all patients. <i>Human Fertility</i> , 2020 , 23, 256-267	1.9	9
9	Naturally immortalised mouse embryonic fibroblast lines support human embryonic stem cell growth. <i>Cloning and Stem Cells</i> , 2009 , 11, 453-62		8
8	Karyomapping for simultaneous genomic evaluation and aneuploidy screening of preimplantation bovine embryos: The first live-born calves. <i>Theriogenology</i> , 2019 , 125, 249-258	2.8	8
7	Questions about the accuracy of polar body analysis for preimplantation genetic screening. <i>Human Reproduction</i> , 2013 , 28, 1732-3	5.7	6
6	Potential for pre-implantation determination of human platelet antigen type using DNA amplification: a strategy for prevention of allo-immune thrombocytopenia. <i>Fetal Diagnosis and Therapy</i> , 1994 , 9, 229-32	2.4	5
5	Analysis of bovine blastocysts indicates ovarian stimulation does not induce chromosome errors, nor discordance between inner-cell mass and trophectoderm lineages. <i>Theriogenology</i> , 2021 , 161, 108-119	2.8	4
4	Copy number analysis of meiotic and postzygotic mitotic aneuploidies in trophectoderm cells biopsied at the blastocyst stage and arrested embryos. <i>Prenatal Diagnosis</i> , 2021 , 41, 525-535	3.2	3
3	Commonsense as applied to eugenics: response to Testart and S[e]. <i>Human Reproduction</i> , 1996 , 11, 707	5.7	2
2	The evolution of preimplantation genetic testing for aneuploidy. <i>Reproductive BioMedicine Online</i> , 2019 , 38, e1	4	1
1	BABI in dispute. <i>Nature Genetics</i> , 1992 , 1, 320	36.3	