Alan H Handyside

List of Publications by Year in Descending Order

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	Analysis of bovine blastocysts indicates ovarian stimulation does not induce chromosome errors, nor discordance between inner-cell mass and trophectoderm lineages. *Theriogenology*, **2021**, 161, 108-119	2.8	4
87	Copy number analysis of meiotic and postzygotic mitotic aneuploidies in trophectoderm cells biopsied at the blastocyst stage and arrested embryos. *Prenatal Diagnosis*, **2021**, 41, 525-535	3.2	3
86	The dawn of the future: 30 years from the first biopsy of a human embryo. The detailed history of an ongoing revolution. *Human Reproduction Update*, **2020**, 26, 453-473	15.8	17
85	High implantation and clinical pregnancy rates with single vitrified-warmed blastocyst transfer and optional aneuploidy testing for all patients. *Human Fertility*, **2020**, 23, 256-267	1.9	9
84	Abnormal cleavage and developmental arrest of human preimplantation embryos in vitro. *European Journal of Medical Genetics*, **2020**, 63, 103651	2.6	11
83	The evolution of preimplantation genetic testing for aneuploidy. *Reproductive BioMedicine Online*, **2019**, 38, e1	4	1
82	Karyomapping for simultaneous genomic evaluation and aneuploidy screening of preimplantation bovine embryos: The first live-born calves. *Theriogenology*, **2019**, 125, 249-258	2.8	8
81	Tripolar chromosome segregation drives the association between maternal genotype at variants spanning PLK4 and aneuploidy in human preimplantation embryos. *Human Molecular Genetics*, **2018**, 27, 2573-2585	5.6	31
80	Tripolar mitosis and partitioning of the genome arrests human preimplantation development in vitro. *Scientific Reports*, **2017**, 7, 9744	4.9	33
79	The why, the how and the when of PGS 2.0: current practices and expert opinions of fertility specialists, molecular biologists, and embryologists. *Molecular Human Reproduction*, **2016**, 22, 845-57	4.4	99
78	Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. *Nature Protocols*, **2016**, 11, 1229-43	18.8	20
77	Genome-wide maps of recombination and chromosome segregation in human oocytes and embryos show selection for maternal recombination rates. *Nature Genetics*, **2015**, 47, 727-735	36.3	173
76	Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. *Reproductive BioMedicine Online*, **2015**, 31, 776-82	4	13
75	Karyomapping-a comprehensive means of simultaneous monogenic and cytogenetic PGD: comparison with standard approaches in real time for Marfan syndrome. *Journal of Assisted Reproduction and Genetics*, **2015**, 32, 347-56	3.4	46
74	Genome-wide karyomapping accurately identifies the inheritance of single-gene defects in human preimplantation embryos in vitro. *Genetics in Medicine*, **2014**, 16, 838-45	8.1	100
73	Live birth after PGD with confirmation by a comprehensive approach (karyomapping) for simultaneous detection of monogenic and chromosomal disorders. *Reproductive BioMedicine Online*, **2014**, 29, 600-5	4	42
72	Dynamics and ethics of comprehensive preimplantation genetic testing: a review of the challenges. *Human Reproduction Update*, **2013**, 19, 366-75	15.8	54

71	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. *Human Reproduction*, **2013**, 28, 1426-34	5.7	45
70	24-chromosome copy number analysis: a comparison of available technologies. *Fertility and Sterility* , **2013**, 100, 595-602	4.8	90
69	Questions about the accuracy of polar body analysis for preimplantation genetic screening. *Human Reproduction*, **2013**, 28, 1732-3	5.7	6
68	Multiple meiotic errors caused by predivision of chromatids in women of advanced maternal age undergoing in vitro fertilisation. *European Journal of Human Genetics*, **2012**, 20, 742-7	5.3	116
67	Cytoskeletal analysis of human blastocysts by confocal laser scanning microscopy following vitrification. *Human Reproduction*, **2012**, 27, 106-13	5.7	39
66	Preimplantation genetic diagnosis comes of age. *Seminars in Reproductive Medicine*, **2012**, 30, 255-8	1.4	11
65	PGD and aneuploidy screening for 24 chromosomes by genome-wide SNP analysis: seeing the wood and the trees. *Reproductive BioMedicine Online*, **2011**, 23, 686-91	4	31
64	Polar body array CGH for prediction of the status of the corresponding oocyte. Part II: technical aspects. *Human Reproduction*, **2011**, 26, 3181-5	5.7	78
63	An algorithm for determining the origin of trisomy and the positions of chiasmata from SNP genotype data. *Chromosome Research*, **2011**, 19, 155-63	4.4	17
62	Polar body array CGH for prediction of the status of the corresponding oocyte. Part I: clinical results. *Human Reproduction*, **2011**, 26, 3173-80	5.7	161
61	Let parents decide. *Nature*, **2010**, 464, 978-9	50.4	11
60	Karyomapping: a universal method for genome wide analysis of genetic disease based on mapping crossovers between parental haplotypes. *Journal of Medical Genetics*, **2010**, 47, 651-8	5.8	275
59	Preimplantation genetic diagnosis after 20 years. *Reproductive BioMedicine Online*, **2010**, 21, 280-2	4	36
58	What next for preimplantation genetic screening? A polar body approach!. *Human Reproduction*, **2010**, 25, 575-7	5.7	89
57	Scoring of sperm chromosomal abnormalities by manual and automated approaches: qualitative and quantitative comparisons. *Asian Journal of Andrology*, **2010**, 12, 257-62	2.8	22
56	Naturally immortalised mouse embryonic fibroblast lines support human embryonic stem cell growth. *Cloning and Stem Cells*, **2009**, 11, 453-62		8
55	The centrosome and early embryogenesis: clinical insights. *Reproductive BioMedicine Online*, **2008**, 16, 485-91	4	35
54	Nuclear organisation in totipotent human nuclei and its relationship to chromosomal abnormality. *Journal of Cell Science*, **2008**, 121, 655-63	5.3	15

53	Paternal inheritance of a 16qh-polymorphism in a patient with repeated IVF failure. *Reproductive BioMedicine Online*, **2006**, 13, 864-7	4	10
52	Spindle abnormalities in normally developing and arrested human preimplantation embryos in vitro identified by confocal laser scanning microscopy. *Human Reproduction*, **2005**, 20, 672-82	5.7	78
51	Comparison of effects of zona drilling by non-contact infrared laser or acid Tyrode's on the development of human biopsied embryos as revealed by blastomere viability, cytoskeletal analysis and molecular cytogenetics. *Reproductive BioMedicine Online*, **2005**, 11, 697-710	4	47
50	Isothermal whole genome amplification from single and small numbers of cells: a new era for preimplantation genetic diagnosis of inherited disease. *Molecular Human Reproduction*, **2004**, 10, 767-72	4.4	166
49	Oocyte regulation of anti-Müllerian hormone expression in granulosa cells during ovarian follicle development in mice. *Developmental Biology*, **2004**, 266, 201-8	3.1	115
48	Use of a non-contact, infrared laser for zona drilling of mouse embryos: assessment of immediate effects on blastomere viability. *Reproductive BioMedicine Online*, **2001**, 2, 178-187	4	29
47	A comparison of different lysis buffers to assess allele dropout from single cells for preimplantation genetic diagnosis. *Prenatal Diagnosis*, **2001**, 21, 490-7	3.2	57
46	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. *Prenatal Diagnosis*, **2000**, 20, 1055-62	3.2	22
45	A pregnancy following PGD for X-linked dominant [correction of X-linked autosomal dominant] incontinentia pigmenti (Bloch-Sulzberger syndrome): case report. *Human Reproduction*, **2000**, 15, 2650-2	5.7	15
44	Detailed chromosomal and molecular genetic analysis of single cells by whole genome amplification and comparative genomic hybridisation. *Nucleic Acids Research*, **1999**, 27, 1214-8	20.1	220
43	Successful preimplantation genetic diagnosis for sex Link Lesch--Nyhan Syndrome using specific diagnosis. *Prenatal Diagnosis*, **1999**, 19, 1237-41	3.2	18
42	Screening oocytes and preimplantation embryos for aneuploidy. *Current Opinion in Obstetrics and Gynecology*, **1999**, 11, 301-5	2.4	13
41	Chromosomal mosaicism in cleavage-stage human embryos and the accuracy of single-cell genetic analysis. *Journal of Assisted Reproduction and Genetics*, **1998**, 15, 276-80	3.4	43
40	Preimplantation genetic diagnosis of inherited cancer: familial adenomatous polyposis coli. *Journal of Assisted Reproduction and Genetics*, **1998**, 15, 140-4	3.4	97
39	Assessment of the reliability of single blastomere analysis for preimplantation diagnosis of the delta F508 deletion causing cystic fibrosis in clinical practice. *Prenatal Diagnosis*, **1998**, 18, 1402-12	3.2	46
38	XIST expression from the maternal X chromosome in human male preimplantation embryos at the blastocyst stage. *Human Molecular Genetics*, **1997**, 6, 1323-7	5.6	64
37	Preimplantation genetic diagnosis: strategies and surprises. *Trends in Genetics*, **1997**, 13, 270-5	8.5	104
36	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. *Molecular Reproduction and Development*, **1997**, 48, 442-8	2.6	61

35	Multicolour FISH detects frequent chromosomal mosaicism and chaotic division in normal preimplantation embryos from fertile patients. *Human Genetics*, **1997**, 99, 755-60	6.3	359
34	Preimplantation genetic testing for Huntington disease and certain other dominantly inherited disorders. *Clinical Genetics*, **1996**, 49, 57-8	4	40
33	Commonsense as applied to eugenics: response to Testart and Sèle. *Human Reproduction*, **1996**, 11, 707	5.7	2
32	Metabolism and cell allocation during parthenogenetic preimplantation mouse development. *Molecular Reproduction and Development*, **1996**, 43, 313-22	2.6	45
31	Pregnancies resulting from embryos biopsied for preimplantation diagnosis of genetic disease: biochemical and ultrasonic studies in the first trimester of pregnancy. *Journal of Assisted Reproduction and Genetics*, **1996**, 13, 254-8	3.4	12
30	Reduced allele dropout in single-cell analysis for preimplantation genetic diagnosis of cystic fibrosis. *Journal of Assisted Reproduction and Genetics*, **1996**, 13, 104-6	3.4	42
29	Clinical experience with preimplantation genetic diagnosis of cystic fibrosis (delta F508). *Prenatal Diagnosis*, **1996**, 16, 137-42	3.2	32
28	Obstetric outcome of pregnancies resulting from embryos biopsied for pre-implantation diagnosis of inherited disease. *BJOG: an International Journal of Obstetrics and Gynaecology*, **1996**, 103, 784-8	3.7	19
27	Compaction and surface polarity in the human embryo in vitro. *Biology of Reproduction*, **1996**, 55, 32-7	3.9	90
26	Mosaicism of autosomes and sex chromosomes in morphologically normal, monospermic preimplantation human embryos. *Prenatal Diagnosis*, **1995**, 15, 41-9	3.2	269
25	Single-cell analysis of the RhD blood type for use in preimplantation diagnosis in the prevention of severe hemolytic disease of the newborn. *American Journal of Obstetrics and Gynecology*, **1995**, 172, 533-40	6.4	28
24	Clinical experience with preimplantation diagnosis of sex by dual fluorescent in situ hybridization. *Journal of Assisted Reproduction and Genetics*, **1994**, 11, 132-43	3.4	96
23	Presence of chromosomal mosaicism in abnormal preimplantation embryos detected by fluorescence in situ hybridisation. *Human Genetics*, **1994**, 94, 609-15	6.3	47
22	The current status of preimplantation diagnosis. *Current Obstetrics & Gynaecology*, **1994**, 4, 143-149		39
21	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. *Human Reproduction*, **1994**, 9, 721-4	5.7	203
20	Potential for pre-implantation determination of human platelet antigen type using DNA amplification: a strategy for prevention of allo-immune thrombocytopenia. *Fetal Diagnosis and Therapy*, **1994**, 9, 229-32	2.4	5
19	Detection of aneuploidy and chromosomal mosaicism in human embryos during preimplantation sex determination by fluorescent in situ hybridisation, (FISH). *Human Molecular Genetics*, **1993**, 2, 1183-5	5.6	247
18	Embryo biopsy strategies for preimplantation diagnosis. *Fertility and Sterility*, **1993**, 59, 943-52	4.8	66

17	Diagnosis of inherited disease before implantation. *Reproductive Medicine Review*, **1993**, 2, 51-61		17
16	Preimplantation diagnosis of aneuploidy using fluorescent in-situ hybridization: evaluation using a chromosome 18-specific probe. *Human Reproduction*, **1993**, 8, 296-301	5.7	36
15	Selection criteria for human embryo transfer: a comparison of pyruvate uptake and morphology. *Journal of Assisted Reproduction and Genetics*, **1993**, 10, 21-30	3.4	147
14	Cell allocation in twin half mouse embryos bisected at the 8-cell stage: implications for preimplantation diagnosis. *Molecular Reproduction and Development*, **1993**, 36, 16-22	2.6	16
13	Birth of a normal girl after in vitro fertilization and preimplantation diagnostic testing for cystic fibrosis. *New England Journal of Medicine*, **1992**, 327, 905-9	59.2	478
12	Human embryo biopsy on the 2nd day after insemination for preimplantation diagnosis: removal of a quarter of embryo retards cleavage. *Fertility and Sterility*, **1992**, 58, 970-6	4.8	93
11	BABI in dispute. *Nature Genetics*, **1992**, 1, 320	36.3	
10	Human preimplantation development in vitro is not adversely affected by biopsy at the 8-cell stage. *Human Reproduction*, **1990**, 5, 708-14	5.7	326
9	Preimplantation sexing and diagnosis of hypoxanthine phosphoribosyl transferase deficiency in mice by biochemical microassay. *American Journal of Medical Genetics Part A*, **1990**, 35, 201-5		14
8	Use of BRL-conditioned medium in combination with feeder layers to isolate a diploid embryonal stem cell line. *Rouxs Archives of Developmental Biology*, **1989**, 198, 48-56		50
7	Towards the isolation of embryonal stem cell lines from the sheep. *Rouxs Archives of Developmental Biology*, **1987**, 196, 185-190		43
6	Polarized distribution of membrane components on two-cell mouse embryos. *Rouxs Archives of Developmental Biology*, **1987**, 196, 273-278		10
5	HPRT-deficient (Lesch-Nyhan) mouse embryos derived from germline colonization by cultured cells. *Nature*, **1987**, 326, 292-5	50.4	1077
4	Cell division and death in the mouse blastocyst before implantation. *Rouxs Archives of Developmental Biology*, **1986**, 195, 519-526		112
3	Effect of microvilli on lateral diffusion measurements made by the fluorescence photobleaching recovery technique. *Biophysical Journal*, **1982**, 38, 295-7	2.9	30
2	Immunofluorescence techniques for determining the numbers of inner and outer blastomeres in mouse morulae. *Journal of Reproductive Immunology*, **1981**, 2, 339-50	4.2	56
1	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. *Developmental Biology*, **1981**, 85, 195-8	3.1	61