Alan H Handyside

List of Publications by Year
in descending order

98 papers	8,608 citations	47004 47 h-index	45310 90 g-index
99 all docs	99 docs citations	99 times ranked	4377 citing authors

#	Article	IF	Citations
1	HPRT-deficient (Leschâ€“Nyhan) mouse embryos derived from germline colonization by cultured cells. Nature, 1987, 326, 292-295.	27.8	1,186
2	Birth of a Normal Girl after in Vitro Fertilization and Preimplantation Diagnostic Testing for Cystic Fibrosis. New England Journal of Medicine, 1992, 327, 905-909.	27.0	557
3	Multicolour FISH detects frequent chromosomal mosaicism and chaotic division in normal preimplantation embryos from fertile patients. Human Genetics, 1997, 99, 755-760.	3.8	393
4	Human preimplantation development in vitro is not adversely affected by biopsy at the 8-cell stage. Human Reproduction, 1990, 5, 708-714.	0.9	351
5	Karyomapping: a universal method for genome wide analysis of genetic disease based on mapping crossovers between parental haplotypes. Journal of Medical Genetics, 2010, 47, 651-658.	3.2	335
6	Mosaicism of autosomes and sex chromosomes in morphologically normal, monospermic preimplantation human embryos. Prenatal Diagnosis, 1995, 15, 41-49.	2.3	310
7	Detection of aneuploidy and chromosomal mosaicism in human embryos during preimplantation sex determination by fluorescent in situ hybridisation, (FISH). Human Molecular Genetics, 1993, 2, 1183-1185.	2.9	290
8	Detailed chromosomal and molecular genetic analysis of single cells by whole genome amplification and comparative genomic hybridisation. Nucleic Acids Research, 1999, 27, 1214-1218.	14.5	269
9	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.	21.4	229
10	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, 721-724.	0.9	219
11	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, 767-772.	2.8	189
12	Polar body array CGH for prediction of the status of the corresponding oocyte. Part I: clinical results. Human Reproduction, 2011, 26, 3173-3180.	0.9	179
13	Selection criteria for human embryo transfer: A comparison of pyruvate uptake and morphology. Journal of Assisted Reproduction and Genetics, 1993, 10, 21-30.	2.5	168
14	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, 742-747.	2.8	155
15	Cell division and death in the mouse blastocyst before implantation. Roux's Archives of Developmental Biology, 1986, 195, 519-526.	1.2	148
16	Oocyte regulation of anti-MÃ¼llerian hormone expression in granulosa cells during ovarian follicle development in mice. Developmental Biology, 2004, 266, 201-208.	2.0	133
17	Polar body array CGH for prediction of the status of the corresponding oocyte. Part II: technical aspects. Human Reproduction, 2011, 26, 3181-3185.	0.9	130
18	Genome-wide karyomapping accurately identifies the inheritance of single-gene defects in human preimplantation embryos in vitro. Genetics in Medicine, 2014, 16, 838-845.	2.4	126

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19	Preimplantation genetic diagnosis of inherited cancer: familial adenomatous polyposis coli. Journal of Assisted Reproduction and Genetics, 1998, 15, 140-144.	2.5	124
20	Preimplantation genetic diagnosis: strategies and surprises. Trends in Genetics, 1997, 13, 270-275.	6.7	119
21	Clinical experience with preimplantation diagnosis of sex by dual fluorescent in situ hybridization. Journal of Assisted Reproduction and Genetics, 1994, 11, 132-143.	2.5	117
22	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, 845-857.	2.8	116
23	Compaction and Surface Polarity in the Human Embryo in Vitro. Biology of Reproduction, 1996, 55, 32-37.	2.7	106
24	24-chromosome copy number analysis: a comparison of available technologies. Fertility and Sterility, 2013, 100, 595-602.	1.0	105
25	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, 970-976.	1.0	100
26	What next for preimplantation genetic screening? A polar body approach!. Human Reproduction, 2010, 25, 575-577.	0.9	99
27	Spindle abnormalities in normally developing and arrested human preimplantation embryos in vitro identified by confocal laser scanning microscopy. Human Reproduction, 2005, 20, 672-682.	0.9	96
28	XIST expression from the maternal X chromosome in human male preimplantation embryos at the blastocyst stage. Human Molecular Genetics, 1997, 6, 1323-1327.	2.9	77
29	Embryo biopsy strategies for preimplantation diagnosis. Fertility and Sterility, 1993, 59, 943-952.	1.0	72
30	Dynamics and ethics of comprehensive preimplantation genetic testing: a review of the challenges. Human Reproduction Update, 2013, 19, 366-375.	10.8	68
31	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, 442-448.	2.0	67
32	Presence of chromosomal mosaicism in abnormal preimplantation embryos detected by fluorescence in situ hybridisation. Human Genetics, 1994, 94, 609-15.	3.8	66
33	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, 195-198.	2.0	64
34	Immunofluorescence techniques for determining the numbers of inner and outer blastomeres in mouse morulae. Journal of Reproductive Immunology, 1981, 2, 339-350.	1.9	62
35	Use of BRL-conditioned medium in combination with feeder layers to isolate a diploid embryonal stem cell line. Roux's Archives of Developmental Biology, 1989, 198, 48-56.	1.2	62
36	A comparison of different lysis buffers to assess allele dropout from single cells for preimplantation genetic diagnosis. Prenatal Diagnosis, 2001, 21, 490-497.	2.3	61

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37	Tripolar mitosis and partitioning of the genome arrests human preimplantation development in vitro. Scientific Reports, 2017, 7, 9744.	3.3	60
38	Towards the isolation of embryonal stem cell lines from the sheep. Roux's Archives of Developmental Biology, 1987, 196, 185-190.	1.2	59
39	Karyomappingâ€”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, 347-356.	2.5	57
40	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.	2.4	56
41	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.	2.9	55
42	The current status of preimplantation diagnosis. Current Obstetrics & Gynaecology, 1994, 4, 143-149.	0.2	54
43	Chromosomal mosaicism in cleavage-stage human embryos and the accuracy of single-cell genetic analysis. Journal of Assisted Reproduction and Genetics, 1998, 15, 276-280.	2.5	54
44	Metabolism and cell allocation during parthenogenetic preimplantation mouse development. Molecular Reproduction and Development, 1996, 43, 313-322.	2.0	53
45	CLINICAL EXPERIENCE WITH PREIMPLANTATION GENETIC DIAGNOSIS OF CYSTIC FIBROSIS (Î”F508). , 1996, 16, 137-142.		53
46	Assessment of the reliability of single blastomere analysis for preimplantation diagnosis of the Î”F508 deletion causing cystic fibrosis in clinical practice. , 1998, 18, 1402-1412.		53
47	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, 1426-1434.	0.9	53
48	Preimplantation genetic testing for Huntington disease and certain other dominantly inherited disorders. Clinical Genetics, 1996, 49, 57-58.	2.0	52
49	Cytoskeletal analysis of human blastocysts by confocal laser scanning microscopy following vitrification. Human Reproduction, 2012, 27, 106-113.	0.9	49
50	The pros and cons of preimplantation genetic testing for aneuploidy: clinical and laboratory perspectives. Fertility and Sterility, 2018, 110, 353-361.	1.0	49
51	Reduced allele dropout in single-cell analysis for preimplantation genetic diagnosis of cystic fibrosis. Journal of Assisted Reproduction and Genetics, 1996, 13, 104-106.	2.5	48
52	Live birth after PGD with confirmation by a comprehensive approach (karyomapping) for simultaneous detection of monogenic and chromosomal disorders. Reproductive BioMedicine Online, 2014, 29, 600-605.	2.4	46
53	The centrosome and early embryogenesis: clinical insights. Reproductive BioMedicine Online, 2008, 16, 485-491.	2.4	45
54	Preimplantation diagnosis of aneuploidy using fluorescent in-situ hybridization: evaluation using a chromosome 18-specific probe. Human Reproduction, 1993, 8, 296-301.	0.9	43

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55	Preimplantation genetic diagnosis after 20years. Reproductive BioMedicine Online, 2010, 21, 280-282.	2.4	41
56	PGD and aneuploidy screening for 24 chromosomes by genome-wide SNP analysis: seeing the wood and the trees. Reproductive BioMedicine Online, 2011, 23, 686-691.	2.4	40
57	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, 533-540.	1.3	37
58	The dawn of the future: 30Âyears from the first biopsy of a human embryo. The detailed history of an ongoing revolution. Human Reproduction Update, 2020, 26, 453-473.	10.8	35
59	Effect of Microvilli on Lateral Diffusion Measurements Made by the Fluorescence Photobleaching Recovery Technique. Biophysical Journal, 1982, 38, 295-297.	0.5	31
60	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.	2.4	31
61	Successful preimplantation genetic diagnosis for sex linked Lesch-Nyhan syndrome using specific diagnosis. , 1999, 19, 1237-1241.		27
62	Diagnosis of inherited disease before implantation. Reproductive Medicine Review, 1993, 2, 51-61.	0.3	26
63	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, 1055-1062.	2.3	25
64	Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. Nature Protocols, 2016, 11, 1229-1243.	12.0	24
65	Scoring of sperm chromosomal abnormalities by manual and automated approaches: qualitative and quantitative comparisons. Asian Journal of Andrology, 2010, 12, 257-262.	1.6	24
66	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, 784-788.	2.3	23
67	An algorithm for determining the origin of trisomy and the positions of chiasmata from SNP genotype data. Chromosome Research, 2011, 19, 155-163.	2.2	23
68	Abnormal cleavage and developmental arrest of human preimplantation embryos in vitro. European Journal of Medical Genetics, 2020, 63, 103651.	1.3	23
69	Karyomapping for simultaneous genomic evaluation and aneuploidy screening of preimplantation bovine embryos: The first live-born calves. Theriogenology, 2019, 125, 249-258.	2.1	22
70	A pregnancy following PGD for X-linked autosomal dominant Incontinentia Pigmenti (Bloch-Sulzberger syndrome): Case Report. Human Reproduction, 2000, 15, 2650-2652.	0.9	18
71	Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. Reproductive BioMedicine Online, 2015, 31, 776-782.	2.4	18
72	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.	2.1	18

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73	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.	2.3	18
74	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.	2.0	17
75	Screening oocytes and preimplantation embryos for aneuploidy. Current Opinion in Obstetrics and Gynecology, 1999, 11, 301-305.	2.0	17
76	Nuclear organisation in totipotent human nuclei and its relationship to chromosomal abnormality. Journal of Cell Science, 2008, 121, 655-663.	2.0	16
77	Live births following karyomapping â€“ a â€œkeyâ€•milestone in the development of preimplantation genetic diagnosis. Reproductive BioMedicine Online, 2015, 31, 307-308.	2.4	16
78	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.	1.7	15
79	Preimplantation sexing and diagnosis of hypoxanthine phosphoribosyl transferase deficiency in mice by biochemical microassay. American Journal of Medical Genetics Part A, 1990, 35, 201-205.	2.4	14
80	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, 254-258.	2.5	14
81	Let parents decide. Nature, 2010, 464, 978-979.	27.8	13
82	Noninvasive preimplantation genetic testing: dream or reality?. Fertility and Sterility, 2016, 106, 1324-1325.	1.0	13
83	Preimplantation Genetic Diagnosis Comes of Age. Seminars in Reproductive Medicine, 2012, 30, 255-258.	1.1	12
84	Polarized distribution of membrane components on two-cell mouse embryos. Roux's Archives of Developmental Biology, 1987, 196, 273-278.	1.2	11
85	Paternal inheritance of a 16qh- polymorphism in a patient with repeated IVF failure. Reproductive BioMedicine Online, 2006, 13, 864-867.	2.4	11
86	Is preimplantation genetic testing for aneuploidy an essential tool for embryo selection or a costly â€˜add-onâ€™ of no clinical benefit?. Fertility and Sterility, 2018, 110, 351-352.	1.0	10
87	Naturally Immortalised Mouse Embryonic Fibroblast Lines Support Human Embryonic Stem Cell Growth. Cloning and Stem Cells, 2009, 11, 453-462.	2.6	9
88	Preconception and preimplantation diagnosis of human genetic disease. Trends in Genetics, 1993, 9, 369-370.	6.7	6
89	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, 229-232.	1.4	6
90	Questions about the accuracy of polar body analysis for preimplantation genetic screening. Human Reproduction, 2013, 28, 1732-1733.	0.9	6

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91	Commonsense as applied to eugenics: response to Testart and Sele. Human Reproduction, 1996, 11, 707-707.	0.9	5
92	Preimplantation genetic testing for aneuploidy: a pragmatic, multicenter randomized clinical trial of single frozen euploid embryo transfer versus selection by morphology alone. Reproductive BioMedicine Online, 2019, 38, e9.	2.4	2
93	Cattle karyomapping to optimise food production and delivery of superior genetics: the first liveborn calves. Reproductive BioMedicine Online, 2018, 36, e20.	2.4	1
94	POLAR BODY ANALYSIS FOR PREIMPLANTATION GENETIC TESTING. Reproductive BioMedicine Online, 2019, 39, e9.	2.4	1
95	The evolution of preimplantation genetic testing for aneuploidy. Reproductive BioMedicine Online, 2019, 38, e1.	2.4	1
96	Preimplantation Genetic Testing for Aneuploidy Versus Morphology as Selection Criteria for Single Frozen-Thawed Embryo Transfer in Good-Prognosis Patients: A Multicenter Randomized Clinical Trial. Obstetrical and Gynecological Survey, 2020, 75, 241-242.	0.4	1
97	BABI in dispute. Nature Genetics, 1992, 1, 320-320.	21.4	0
98	Preimplantation diagnosis of genetic diseases: A new technique in assisted reproduction. Trends in Genetics, 1993, 9, 368.	6.7	0