

Alan H Handyside

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8912856/publications.pdf>

Version: 2024-02-01

98
papers

8,608
citations

47006

47
h-index

45317

90
g-index

99
all docs

99
docs citations

99
times ranked

4377
citing authors

#	ARTICLE	IF	CITATIONS
1	HPRT-deficient (Lesch-Nyhan) mouse embryos derived from germline colonization by cultured cells. <i>Nature</i> , 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. <i>New England Journal of Medicine</i> , 1992, 327, 905-909.	27.0	557
3	Multicolour FISH detects frequent chromosomal mosaicism and chaotic division in normal preimplantation embryos from fertile patients. <i>Human Genetics</i> , 1997, 99, 755-760.	3.8	393
4	Human preimplantation development in vitro is not adversely affected by biopsy at the 8-cell stage. <i>Human Reproduction</i> , 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. <i>Journal of Medical Genetics</i> , 2010, 47, 651-658.	3.2	335
6	Mosaicism of autosomes and sex chromosomes in morphologically normal, monospermic preimplantation human embryos. <i>Prenatal Diagnosis</i> , 1995, 15, 41-49.	2.3	310
7	Detection of aneuploidy and chromosomal mosaicism in human embryos during preimplantation sex determination by fluorescent <i>in situ</i> hybridisation, (FISH). <i>Human Molecular Genetics</i> , 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. <i>Nucleic Acids Research</i> , 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. <i>Nature Genetics</i> , 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. <i>Human Reproduction</i> , 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. <i>Molecular Human Reproduction</i> , 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. <i>Human Reproduction</i> , 2011, 26, 3173-3180.	0.9	179
13	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.	2.5	168
14	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, 742-747.	2.8	155
15	Cell division and death in the mouse blastocyst before implantation. <i>Roux's Archives of Developmental Biology</i> , 1986, 195, 519-526.	1.2	148
16	Oocyte regulation of anti-Müllerian hormone expression in granulosa cells during ovarian follicle development in mice. <i>Developmental Biology</i> , 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. <i>Human Reproduction</i> , 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. <i>Genetics in Medicine</i> , 2014, 16, 838-845.	2.4	126

#	ARTICLE	IF	CITATIONS
19	Preimplantation genetic diagnosis of inherited cancer: familial adenomatous polyposis coli. <i>Journal of Assisted Reproduction and Genetics</i> , 1998, 15, 140-144.	2.5	124
20	Preimplantation genetic diagnosis: strategies and surprises. <i>Trends in Genetics</i> , 1997, 13, 270-275.	6.7	119
21	Clinical experience with preimplantation diagnosis of sex by dual fluorescent in situ hybridization. <i>Journal of Assisted Reproduction and Genetics</i> , 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. <i>Molecular Human Reproduction</i> , 2016, 22, 845-857.	2.8	116
23	Compaction and Surface Polarity in the Human Embryo in Vitro. <i>Biology of Reproduction</i> , 1996, 55, 32-37.	2.7	106
24	24-chromosome copy number analysis: a comparison of available technologies. <i>Fertility and Sterility</i> , 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. <i>Fertility and Sterility</i> , 1992, 58, 970-976.	1.0	100
26	What next for preimplantation genetic screening? A polar body approach!. <i>Human Reproduction</i> , 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. <i>Human Reproduction</i> , 2005, 20, 672-682.	0.9	96
28	XIST expression from the maternal X chromosome in human male preimplantation embryos at the blastocyst stage. <i>Human Molecular Genetics</i> , 1997, 6, 1323-1327.	2.9	77
29	Embryo biopsy strategies for preimplantation diagnosis. <i>Fertility and Sterility</i> , 1993, 59, 943-952.	1.0	72
30	Dynamics and ethics of comprehensive preimplantation genetic testing: a review of the challenges. <i>Human Reproduction Update</i> , 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. <i>Molecular Reproduction and Development</i> , 1997, 48, 442-448.	2.0	67
32	Presence of chromosomal mosaicism in abnormal preimplantation embryos detected by fluorescence in situ hybridisation. <i>Human Genetics</i> , 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. <i>Developmental Biology</i> , 1981, 85, 195-198.	2.0	64
34	Immunofluorescence techniques for determining the numbers of inner and outer blastomeres in mouse morulae. <i>Journal of Reproductive Immunology</i> , 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. <i>Roux's Archives of Developmental Biology</i> , 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. <i>Prenatal Diagnosis</i> , 2001, 21, 490-497.	2.3	61

#	ARTICLE	IF	CITATIONS
37	Tripolar mitosis and partitioning of the genome arrests human preimplantation development in vitro. <i>Scientific Reports</i> , 2017, 7, 9744.	3.3	60
38	Towards the isolation of embryonal stem cell lines from the sheep. <i>Roux's Archives of Developmental Biology</i> , 1987, 196, 185-190.	1.2	59
39	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, 347-356.	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. <i>Reproductive BioMedicine Online</i> , 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. <i>Human Molecular Genetics</i> , 2018, 27, 2573-2585.	2.9	55
42	The current status of preimplantation diagnosis. <i>Current Obstetrics & Gynaecology</i> , 1994, 4, 143-149.	0.2	54
43	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, 276-280.	2.5	54
44	Metabolism and cell allocation during parthenogenetic preimplantation mouse development. <i>Molecular Reproduction and Development</i> , 1996, 43, 313-322.	2.0	53
45	CLINICAL EXPERIENCE WITH PREIMPLANTATION GENETIC DIAGNOSIS OF CYSTIC FIBROSIS (ΔF508). , 1996, 16, 137-142.		53
46	Assessment of the reliability of single blastomere analysis for preimplantation diagnosis of the ΔF508 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. <i>Human Reproduction</i> , 2013, 28, 1426-1434.	0.9	53
48	Preimplantation genetic testing for Huntington disease and certain other dominantly inherited disorders. <i>Clinical Genetics</i> , 1996, 49, 57-58.	2.0	52
49	Cytoskeletal analysis of human blastocysts by confocal laser scanning microscopy following vitrification. <i>Human Reproduction</i> , 2012, 27, 106-113.	0.9	49
50	The pros and cons of preimplantation genetic testing for aneuploidy: clinical and laboratory perspectives. <i>Fertility and Sterility</i> , 2018, 110, 353-361.	1.0	49
51	Reduced allele dropout in single-cell analysis for preimplantation genetic diagnosis of cystic fibrosis. <i>Journal of Assisted Reproduction and Genetics</i> , 1996, 13, 104-106.	2.5	48
52	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, 600-605.	2.4	46
53	The centrosome and early embryogenesis: clinical insights. <i>Reproductive BioMedicine Online</i> , 2008, 16, 485-491.	2.4	45
54	Preimplantation diagnosis of aneuploidy using fluorescent in-situ hybridization: evaluation using a chromosome 18-specific probe. <i>Human Reproduction</i> , 1993, 8, 296-301.	0.9	43

#	ARTICLE	IF	CITATIONS
55	Preimplantation genetic diagnosis after 20years. <i>Reproductive BioMedicine Online</i> , 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. <i>Reproductive BioMedicine Online</i> , 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. <i>American Journal of Obstetrics and Gynecology</i> , 1995, 172, 533-540.	1.3	37
58	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.	10.8	35
59	Effect of Microvilli on Lateral Diffusion Measurements Made by the Fluorescence Photobleaching Recovery Technique. <i>Biophysical Journal</i> , 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. <i>Reproductive BioMedicine Online</i> , 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. <i>Reproductive Medicine Review</i> , 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. <i>Prenatal Diagnosis</i> , 2000, 20, 1055-1062.	2.3	25
64	Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. <i>Nature Protocols</i> , 2016, 11, 1229-1243.	12.0	24
65	Scoring of sperm chromosomal abnormalities by manual and automated approaches: qualitative and quantitative comparisons. <i>Asian Journal of Andrology</i> , 2010, 12, 257-262.	1.6	24
66	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, 784-788.	2.3	23
67	An algorithm for determining the origin of trisomy and the positions of chiasmata from SNP genotype data. <i>Chromosome Research</i> , 2011, 19, 155-163.	2.2	23
68	Abnormal cleavage and developmental arrest of human preimplantation embryos in vitro. <i>European Journal of Medical Genetics</i> , 2020, 63, 103651.	1.3	23
69	Karyomapping for simultaneous genomic evaluation and aneuploidy screening of preimplantation bovine embryos: The first live-born calves. <i>Theriogenology</i> , 2019, 125, 249-258.	2.1	22
70	A pregnancy following PGD for X-linked autosomal dominant Incontinentia Pigmenti (Bloch-Sulzberger syndrome): Case Report. <i>Human Reproduction</i> , 2000, 15, 2650-2652.	0.9	18
71	Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. <i>Reproductive BioMedicine Online</i> , 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. <i>Theriogenology</i> , 2021, 161, 108-119.	2.1	18

#	ARTICLE	IF	CITATIONS
73	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.	2.3	18
74	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.	2.0	17
75	Screening oocytes and preimplantation embryos for aneuploidy. <i>Current Opinion in Obstetrics and Gynecology</i> , 1999, 11, 301-305.	2.0	17
76	Nuclear organisation in totipotent human nuclei and its relationship to chromosomal abnormality. <i>Journal of Cell Science</i> , 2008, 121, 655-663.	2.0	16
77	Live births following karyomapping – a key milestone in the development of preimplantation genetic diagnosis. <i>Reproductive BioMedicine Online</i> , 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. <i>Human Fertility</i> , 2020, 23, 256-267.	1.7	15
79	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, 201-205.	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. <i>Journal of Assisted Reproduction and Genetics</i> , 1996, 13, 254-258.	2.5	14
81	Let parents decide. <i>Nature</i> , 2010, 464, 978-979.	27.8	13
82	Noninvasive preimplantation genetic testing: dream or reality?. <i>Fertility and Sterility</i> , 2016, 106, 1324-1325.	1.0	13
83	Preimplantation Genetic Diagnosis Comes of Age. <i>Seminars in Reproductive Medicine</i> , 2012, 30, 255-258.	1.1	12
84	Polarized distribution of membrane components on two-cell mouse embryos. <i>Roux's Archives of Developmental Biology</i> , 1987, 196, 273-278.	1.2	11
85	Paternal inheritance of a 16qh- polymorphism in a patient with repeated IVF failure. <i>Reproductive BioMedicine Online</i> , 2006, 13, 864-867.	2.4	11
86	Is preimplantation genetic testing for aneuploidy an essential tool for embryo selection or a costly –add-on– of no clinical benefit?. <i>Fertility and Sterility</i> , 2018, 110, 351-352.	1.0	10
87	Naturally Immortalised Mouse Embryonic Fibroblast Lines Support Human Embryonic Stem Cell Growth. <i>Cloning and Stem Cells</i> , 2009, 11, 453-462.	2.6	9
88	Preconception and preimplantation diagnosis of human genetic disease. <i>Trends in Genetics</i> , 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. <i>Fetal Diagnosis and Therapy</i> , 1994, 9, 229-232.	1.4	6
90	Questions about the accuracy of polar body analysis for preimplantation genetic screening. <i>Human Reproduction</i> , 2013, 28, 1732-1733.	0.9	6

#	ARTICLE	IF	CITATIONS
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