Claudia Spits

List of Publications by Year
in descending order

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51 papers	2,910 citations	236612 25 h-index	197535 49 g-index
55 all docs	55 docs citations	55 times ranked	3873 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	Whole-genome multiple displacement amplification from single cells. Nature Protocols, 2006, 1, 1965-1970.	5.5	260
3	Recurrent chromosomal abnormalities in human embryonic stem cells. Nature Biotechnology, 2008, 26, 1361-1363.	9.4	230
4	Single-cell chromosomal imbalances detection by array CGH. Nucleic Acids Research, 2006, 34, e68-e68.	6.5	188
5	Microarray analysis reveals abnormal chromosomal complements in over 70% of 14 normally developing human embryos. Human Reproduction, 2013, 28, 256-264.	0.4	167
6	Optimization and evaluation of single-cell whole-genome multiple displacement amplification. Human Mutation, 2006, 27, 496-503.	1.1	137
7	Current issues in medically assisted reproduction and genetics in Europe: research, clinical practice, ethics, legal issues and policy. European Journal of Human Genetics, 2013, 21, S1-S21.	1.4	120
8	Gain of 20q11.21 in human embryonic stem cells improves cell survival by increased expression of Bcl-xL. Molecular Human Reproduction, 2014, 20, 168-177.	1.3	97
9	Huntington's and myotonic dystrophy hESCs: down-regulated trinucleotide repeat instability and mismatch repair machinery expression upon differentiation. Human Molecular Genetics, 2011, 20, 176-185.	1.4	83
10	Human embryonic stem cell lines derived from single blastomeres of two 4-cell stage embryos. Human Reproduction, 2009, 24, 2709-2717.	0.4	77
11	Genetic and epigenetic instability in human pluripotent stem cells. Human Reproduction Update, 2013, 19, 187-205.	5.2	75
12	CpG Methylation, a Parent-of-Origin Effect for Maternal-Biased Transmission of Congenital Myotonic Dystrophy. American Journal of Human Genetics, 2017, 100, 488-505.	2.6	74
13	Higher-Density Culture in Human Embryonic Stem Cells Results in DNA Damage and Genome Instability. Stem Cell Reports, 2016, 6, 330-341.	2.3	72
14	Current issues in medically assisted reproduction and genetics in Europe: research, clinical practice, ethics, legal issues and policy. Human Reproduction, 2014, 29, 1603-1609.	0.4	57
15	Preimplantation genetic diagnosis for neurofibromatosis type 1. Molecular Human Reproduction, 2005, 11, 381-387.	1.3	55
16	PGD for monogenic disorders: aspects of molecular biology. Prenatal Diagnosis, 2009, 29, 50-56.	1.1	55
17	Evolution of aneuploidy up to Day 4 of human preimplantation development. Human Reproduction, 2013, 28, 1716-1724.	0.4	53
18	Preimplantation genetic diagnosis for Marfan syndrome. Fertility and Sterility, 2006, 86, 310-320.	0.5	40

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19	Real and expected delivery rates of patients with myotonic dystrophy undergoing intracytoplasmic sperm injection and preimplantation genetic diagnosis. Human Reproduction, 2008, 23, 1654-1660.	0.4	40
20	Genetic and epigenetic factors which modulate differentiation propensity in human pluripotent stem cells. Human Reproduction Update, 2018, 24, 162-175.	5.2	39
21	Gain of 20q11.21 in Human Pluripotent Stem Cells Impairs TGF-Î²-Dependent Neuroectodermal Commitment. Stem Cell Reports, 2019, 13, 163-176.	2.3	39
22	Low-grade chromosomal mosaicism in human somatic and embryonic stem cell populations. Nature Communications, 2014, 5, 4227.	5.8	37
23	Chromosome constitution of human embryos generated after in vitro maturation including 3-isobutyl-1-methylxanthine in the oocyte collection medium. Human Reproduction, 2015, 30, 653-663.	0.4	36
24	Derivation, culture, and characterization of VUB hESC lines. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 300-308.	0.7	35
25	Mitotic spindle disruption in human preimplantation embryos activates the spindle assembly checkpoint but not apoptosis until Day 5 of development. Molecular Human Reproduction, 2017, 23, 321-329.	1.3	29
26	Human embryonic stem cells commonly display large mitochondrial DNA deletions. Nature Biotechnology, 2013, 31, 20-23.	9.4	28
27	The role of methylation, DNA polymorphisms and microRNAs on HLA-G expression in human embryonic stem cells. Stem Cell Research, 2017, 19, 118-127.	0.3	23
28	Random Mutagenesis, Clonal Events, and Embryonic or Somatic Origin Determine the mtDNA Variant Type and Load in Human Pluripotent StemÂCells. Stem Cell Reports, 2018, 11, 102-114.	2.3	23
29	Characterization of CD30 expression in human embryonic stem cell lines cultured in serum-free media and passaged mechanically. Human Reproduction, 2009, 24, 2477-2489.	0.4	22
30	Expression of adhesion and extracellular matrix genes in human blastocysts upon attachment in a 2D co-culture system. Molecular Human Reproduction, 2018, 24, 375-387.	1.3	22
31	The effect of polymorphisms in FSHR and FSHB genes on ovarian response: a prospective multicenter multinational study in Europe and Asia. Human Reproduction, 2021, 36, 1711-1721.	0.4	21
32	Female human pluripotent stem cells rapidly lose X chromosome inactivation marks and progress to a skewed methylation pattern during culture. Molecular Human Reproduction, 2016, 22, 285-298.	1.3	20
33	Accurate and comprehensive analysis of single nucleotide variants and large deletions of the human mitochondrial genome in DNA and single cells. European Journal of Human Genetics, 2017, 25, 1229-1236.	1.4	16
34	Methylation of the CpG sites in the myotonic dystrophy locus does not correlate with CTG expansion size or with the congenital form of the disease. Journal of Medical Genetics, 2010, 47, 700-703.	1.5	13
35	A Bumpy Ride on the Diagnostic Bench of Massive Parallel Sequencing, the Case of the Mitochondrial Genome. PLoS ONE, 2014, 9, e112950.	1.1	13
36	Uncovering low-level mosaicism in human embryonic stem cells using high throughput single cell shallow sequencing. Scientific Reports, 2019, 9, 14844.	1.6	12

#	Article	IF	Citations
37	The Impact of Acquired Genetic Abnormalities on the Clinical Translation of Human Pluripotent Stem Cells. Cells, 2021, 10, 3246.	1.8	12
38	On the origins and fate of chromosomal abnormalities in human preimplantation embryos: an unsolved riddle. Molecular Human Reproduction, 2022, 28, .	1.3	12
39	Recent developments in genetics and medically-assisted reproduction: from research to clinical applicationsâ€â€¡. Human Reproduction Open, 2017, 2017, hox015.	2.3	11
40	Human embryonic stem cells show low-grade microsatellite instability. Molecular Human Reproduction, 2014, 20, 981-989.	1.3	10
41	A High Proliferation Rate is Critical for Reproducible and Standardized Embryoid Body Formation from Laminin-521-Based Human Pluripotent Stem Cell Cultures. Stem Cell Reviews and Reports, 2016, 12, 721-730.	5.6	8
42	Myotonic dystrophy type 1 embryonic stem cells show decreased myogenic potential, increased CpG methylation at the DMPK locus and RNA mis-splicing. Biology Open, 2022, 11, .	0.6	8
43	Endogenous suppression of WNT signalling in human embryonic stem cells leads to low differentiation propensity towards definitive endoderm. Scientific Reports, 2021, 11, 6137.	1.6	6
44	Detection of Heteroplasmic Variants in the Mitochondrial Genome through Massive Parallel Sequencing. Bio-protocol, 2019, 9, e3283.	0.2	6
45	Human pluripotent stem cells in regenerative medicine: where do we stand?. Reproduction, 2018, 156, R143-R153.	1.1	5
46	MSH2knock-down shows CTG repeat stability and concomitant upstream demethylation at theDMPKlocus in myotonic dystrophy type 1 human embryonic stem cells. Human Molecular Genetics, 2021, 29, 3566-3577.	1.4	4
47	A step forward in disease modelling for mitochondrial diseases. Stem Cell Investigation, 2017, 4, 89-89.	1.3	3
48	Detecting mosaicism in trophectoderm biopsies. Human Reproduction, 2017, 32, 712-713.	0.4	2
49	Mitochondrial DNA variants segregate during human preimplantation development into genetically different cell lineages that are maintained postnatally. Human Molecular Genetics, 2022, 31, 3629-3642.	1.4	2
50	Gains of 12p13.31 Delay WNT-Mediated Initiation of hPSC Differentiation and Promote Residual Pluripotency in a Cell Cycle Dependent Manner. SSRN Electronic Journal, 0, , .	0.4	1
51	Measuring Early Germ-Layer Specification Bias in Human Pluripotent Stem Cells. Methods in Molecular Biology, 2022, 2429, 57-72.	0.4	0