Geert Hamer

List of Publications by Year
in descending order

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Version: 2024-02-01

47 papers	2,151 citations	257101 24 h-index	243296 44 g-index
52 all docs	52 docs citations	52 times ranked	2841 citing authors

#	Article	IF	Citations
1	Measuring Sperm DNA Fragmentation and Clinical Outcomes of Medically Assisted Reproduction: A Systematic Review and Meta-Analysis. PLoS ONE, 2016, 11, e0165125.	1.1	252
2	DNA Double-Strand Breaks and Î³-H2AX Signaling in the Testis1. Biology of Reproduction, 2003, 68, 628-634.	1.2	179
3	Molecular control of rodent spermatogenesis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1838-1850.	1.8	166
4	Characterization of a novel meiosis-specific protein within the central element of the synaptonemal complex. Journal of Cell Science, 2006, 119, 4025-4032.	1.2	144
5	Progression of meiotic recombination requires structural maturation of the central element of the synaptonemal complex. Journal of Cell Science, 2008, 121, 2445-2451.	1.2	123
6	Unraveling transcriptome dynamics in human spermatogenesis. Development (Cambridge), 2017, 144, 3659-3673.	1.2	117
7	A photoconvertible reporter of the ubiquitin-proteasome system in vivo. Nature Methods, 2010, 7, 473-478.	9.0	112
8	Artificial gametes: a systematic review of biological progress towards clinical application. Human Reproduction Update, 2015, 21, 285-296.	5.2	83
9	Ataxia Telangiectasia Mutated Expression and Activation in the Testis1. Biology of Reproduction, 2004, 70, 1206-1212.	1.2	65
10	Spermatogonial stem cell autotransplantation and germline genomic editing: a future cure for spermatogenic failure and prevention of transmission of genomic diseases. Human Reproduction Update, 2016, 22, 561-573.	5.2	59
11	Disruption of pairing and synapsis of chromosomes causes stage-specific apoptosis of male meiotic cells. Theriogenology, 2008, 69, 333-339.	0.9	57
12	Role for c-Abl and p73 in the radiation response of male germ cells. Oncogene, 2001, 20, 4298-4304.	2.6	53
13	Function of DNA-Protein Kinase Catalytic Subunit During the Early Meiotic Prophase Without Ku70 and Ku861. Biology of Reproduction, 2003, 68, 717-721.	1.2	50
14	Massive expression of germ cell-specific genes is a hallmark of cancer and a potential target for novel treatment development. Oncogene, 2018, 37, 5694-5700.	2.6	45
15	Preantral follicular atresia occurs mainly through autophagy, while antral follicles degenerate mostly through apoptosis. Biology of Reproduction, 2018, 99, 853-863.	1.2	44
16	Role for rodent Smc6 in pericentromeric heterochromatin domains during spermatogonial differentiation and meiosis. Cell Death and Disease, 2013, 4, e749-e749.	2.7	40
17	Resolving complex chromosome structures during meiosis: versatile deployment of Smc5/6. Chromosoma, 2016, 125, 15-27.	1.0	35
18	The SMC5/6 Complex Is Involved in Crucial Processes During Human Spermatogenesis1. Biology of Reproduction, 2014, 91, 22.	1.2	34

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19	Early cleavage of preimplantation embryos is regulated by tRNAGln-TTGâ€“derived small RNAs present in mature spermatozoa. Journal of Biological Chemistry, 2020, 295, 10885-10900.	1.6	33
20	Intercellular bridges and apoptosis in clones of male germ cells. Journal of Developmental and Physical Disabilities, 2003, 26, 348-353.	3.6	32
21	The composition of human preimplantation embryo culture media and their stability during storage and culture. Human Reproduction, 2019, 34, 1450-1461.	0.4	32
22	Potential consequences of clinical application of artificial gametes: a systematic review of stakeholder views. Human Reproduction Update, 2015, 21, 297-309.	5.2	29
23	Spatial and temporal expression of immunoglobulin superfamily member 1 in the rat. Journal of Endocrinology, 2015, 226, 181-191.	1.2	28
24	Distinct prophase arrest mechanisms in human male meiosis. Development (Cambridge), 2018, 145, .	1.2	28
25	High-quality human preimplantation embryos actively influence endometrial stromal cell migration. Journal of Assisted Reproduction and Genetics, 2018, 35, 659-667.	1.2	27
26	Non-SMC Element 2 (NSMCE2) of the SMC5/6 Complex Helps to Resolve Topological Stress. International Journal of Molecular Sciences, 2016, 17, 1782.	1.8	25
27	High-quality human preimplantation embryos stimulate endometrial stromal cell migration via secretion of microRNA hsa-miR-320a. Human Reproduction, 2020, 35, 1797-1807.	0.4	23
28	Cytogenetic testing of pregnancy loss tissue: a meta-analysis. Reproductive BioMedicine Online, 2020, 40, 867-879.	1.1	23
29	The influence of retinoic acid-induced differentiation on the radiation response of male germline stem cells. DNA Repair, 2018, 70, 55-66.	1.3	22
30	Mutations causing specific arrests in the development of mouse primordial germ cells and gonocytes. Biology of Reproduction, 2018, 99, 75-86.	1.2	21
31	InÂVitro Meiosis of Male Germline Stem Cells. Stem Cell Reports, 2020, 15, 1140-1153.	2.3	18
32	Bi-allelic variants in DNA mismatch repair proteins MutS Homolog MSH4 and MSH5 cause infertility in both sexes. Human Reproduction, 2021, 37, 178-189.	0.4	18
33	Transcription Factor USF1 Is Required for Maintenance of Germline Stem Cells in Male Mice. Endocrinology, 2019, 160, 1119-1136.	1.4	16
34	Trivial role for NSMCE2 during in vitro proliferation and differentiation of male germline stem cells. Reproduction, 2017, 154, 181-195.	1.1	15
35	Depletion of SMC5/6 sensitizes male germ cells to DNA damage. Molecular Biology of the Cell, 2018, 29, 3003-3016.	0.9	13
36	Premature expression of the decidualization marker prolactin is associated with repeated implantation failure. Gynecological Endocrinology, 2020, 36, 360-364.	0.7	13

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37	Tumors Widely Express Hundreds of Embryonic Germline Genes. Cancers, 2020, 12, 3812.	1.7	12
38	Longevity pathways are associated with human ovarian ageing. Human Reproduction Open, 2021, 2021, hoab020.	2.3	11
39	pH stability of human preimplantation embryo culture media: effects of culture and batches. Reproductive BioMedicine Online, 2018, 37, 409-414.	1.1	9
40	The addition of a low-quality embryo as part of a fresh day 3 double embryo transfer does not improve ongoing pregnancy rates. Human Reproduction Open, 2017, 2017, hox020.	2.3	8
41	Transcriptional progression during meiotic prophase I reveals sex-specific features and X chromosome dynamics in human fetal female germline. PLoS Genetics, 2021, 17, e1009773.	1.5	8
42	Meiotic Chromosome Synapsis and XY-Body Formation In Vitro. Frontiers in Endocrinology, 2021, 12, 761249.	1.5	7
43	Spermatogonial Stem Cell-Based Therapies: Taking Preclinical Research to the Next Level. Frontiers in Endocrinology, 2022, 13, 850219.	1.5	7
44	The use of spermatogonial stem cells to correct a mutation causing meiotic arrest. Asian Journal of Andrology, 2021, 23, 600.	0.8	4
45	In vitro spermatogenesis: Why meiotic checkpoints matter. Current Topics in Developmental Biology, 2023, , 345-369.	1.0	3
46	Responsibility of scientific community in claiming to have found an association with recurrent pregnancy loss. Journal of Reproductive Immunology, 2019, 134-135, 34.	0.8	2
47	Human uterine fluid composition is distinct from clinically used preimplantation embryo culture media. Fertility and Sterility, 2018, 110, e364.	0.5	1