

William V Holt

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

2,723
citations

31
h-index

51
g-index

79
ext. papers

3,018
ext. citations

3.1
avg. IF

5.22
L-index

#	Paper	IF	Citations
78	Sperm subpopulations in boar (<i>Sus scrofa</i>) and gazelle (<i>Gazella dama mhorr</i>) semen as revealed by pattern analysis of computer-assisted motility assessments. <i>Biology of Reproduction</i> , 1999 , 60, 32-41	3.9	162
77	Sperm-oviduct interaction: induction of capacitation and preferential binding of uncapacitated spermatozoa to oviductal epithelial cells in porcine species. <i>Biology of Reproduction</i> , 1999 , 60, 879-86	3.9	161
76	Computer-assisted measurement of sperm swimming speed in human semen: correlation of results with in vitro fertilization assays. <i>Fertility and Sterility</i> , 1985 , 44, 112-9	4.8	147
75	Concepts in sperm heterogeneity, sperm selection and sperm competition as biological foundations for laboratory tests of semen quality. <i>Reproduction</i> , 2004 , 127, 527-35	3.8	134
74	Sperm-induced modification of the oviductal gene expression profile after natural insemination in mice. <i>Biology of Reproduction</i> , 2004 , 71, 60-5	3.9	133
73	Identification of amplified restriction fragment length polymorphism markers linked to genes controlling boar sperm viability following cryopreservation. <i>Biology of Reproduction</i> , 2002 , 66, 545-54	3.9	132
72	The oviduct as a complex mediator of mammalian sperm function and selection. <i>Molecular Reproduction and Development</i> , 2010 , 77, 934-43	2.6	100
71	Relationships between the dynamics of iatrogenic DNA damage and genomic design in mammalian spermatozoa from eleven species. <i>Molecular Reproduction and Development</i> , 2011 , 78, 951-61	2.6	96
70	The significance of cooling rates and animal variability for boar sperm cryopreservation: insights from the cryomicroscope. <i>Theriogenology</i> , 2005 , 63, 370-82	2.8	89
69	Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2007 , 83, 134-42	5.1	76
68	Cryptic choice of conspecific sperm controlled by the impact of ovarian fluid on sperm swimming behavior. <i>Evolution; International Journal of Organic Evolution</i> , 2013 , 67, 3523-36	3.8	73
67	Sperm selection and competition in pigs may be mediated by the differential motility activation and suppression of sperm subpopulations within the oviduct. <i>Journal of Experimental Biology</i> , 2006 , 209, 1560-72	3	73
66	Atlantic salmon eggs favour sperm in competition that have similar major histocompatibility alleles. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 559-66	4.4	71
65	Effects of HSPA8, an evolutionarily conserved oviductal protein, on boar and bull spermatozoa. <i>Reproduction</i> , 2009 , 137, 191-203	3.8	71
64	Applications and interpretation of computer-assisted sperm analyses and sperm sorting methods in assisted breeding and comparative research. <i>Reproduction, Fertility and Development</i> , 2007 , 19, 709-18	1.8	70
63	Mechanisms of sperm storage in the female reproductive tract: an interspecies comparison. <i>Reproduction in Domestic Animals</i> , 2011 , 46 Suppl 2, 68-74	1.6	58
62	Do sperm possess a molecular passport? Mechanistic insights into sperm selection in the female reproductive tract. <i>Molecular Human Reproduction</i> , 2015 , 21, 491-501	4.4	57

61	Global profiling of surface plasma membrane proteome of oviductal epithelial cells. <i>Journal of Proteome Research</i> , 2006 , 5, 3029-37	5.6	54
60	Bicarbonate stimulation of boar sperm motility via a protein kinase A-dependent pathway: between-cell and between-ejaculate differences are not due to deficiencies in protein kinase A activation. <i>Journal of Andrology</i> , 2002 , 23, 557-65		54
59	Sperm Storage in the Female Reproductive Tract. <i>Annual Review of Animal Biosciences</i> , 2016 , 4, 291-310	13.7	51
58	Oviductal cell proteome alterations during the reproductive cycle in pigs. <i>Journal of Proteome Research</i> , 2008 , 7, 2825-33	5.6	49
57	A dynamic assessment of sperm DNA fragmentation versus sperm viability in proven fertile human donors. <i>Fertility and Sterility</i> , 2009 , 92, 1915-9	4.8	46
56	Metal contamination increases the sensitivity of larvae but not gametes to ocean acidification in the polychaete <i>Pomatoceros lamarckii</i> (Quatrefages). <i>Marine Biology</i> , 2013 , 160, 2089-2101	2.5	45
55	Semen cryopreservation: a genetic explanation for species and individual variation?. <i>Cryo-Letters</i> , 2002 , 23, 255-62	0.3	44
54	Cryobanking of viable biomaterials: implementation of new strategies for conservation purposes. <i>Molecular Ecology</i> , 2009 , 18, 1030-3	5.7	41
53	Breakthroughs and new horizons in reproductive biology of rare and endangered animal species. <i>Biology of Reproduction</i> , 2019 , 101, 514-525	3.9	39
52	Evidence that single-stranded DNA breaks are a normal feature of koala sperm chromatin, while double-stranded DNA breaks are indicative of DNA damage. <i>Reproduction</i> , 2009 , 138, 267-78	3.8	38
51	Heat-shock protein A8 restores sperm membrane integrity by increasing plasma membrane fluidity. <i>Reproduction</i> , 2014 , 147, 719-32	3.8	34
50	The relationship between sperm morphology and chromatin integrity in the koala (<i>Phascolarctos cinereus</i>) as assessed by the Sperm Chromatin Dispersion test (SCDt). <i>Journal of Andrology</i> , 2007 , 28, 891-9		33
49	Dimorphic sperm and the unlikely route to fertilisation in the yellow seahorse. <i>Journal of Experimental Biology</i> , 2007 , 210, 432-7	3	33
48	Importance of sperm morphology during sperm transport and fertilization in mammals. <i>Asian Journal of Andrology</i> , 2016 , 18, 844-850	2.8	32
47	Recent advances and prospects in germplasm preservation of rare and endangered species. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 753, 331-56	3.6	28
46	Successful artificial insemination in the koala (<i>Phascolarctos cinereus</i>) using extended and extended-chilled semen collected by electroejaculation. <i>Biology of Reproduction</i> , 2008 , 78, 661-6	3.9	27
45	Viable and morphologically normal boar spermatozoa alter the expression of heat-shock protein genes in oviductal epithelial cells during co-culture in vitro. <i>Molecular Reproduction and Development</i> , 2014 , 81, 805-19	2.6	24
44	Cryopreservation of kangaroo spermatozoa using alternative approaches that reduce cytotoxic exposure to glycerol. <i>Cryobiology</i> , 2008 , 57, 304-7	2.7	22

43	Dimethylacetamide can be used as an alternative to glycerol for the successful cryopreservation of koala (<i>Phascolarctos cinereus</i>) spermatozoa. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 724-33	1.8	22
42	Ultrastructure, osmotic tolerance, glycerol toxicity and cryopreservation of caput and cauda epididymidal kangaroo spermatozoa. <i>Reproduction, Fertility and Development</i> , 2006 , 18, 469-76	1.8	21
41	Effects of cryopreservation on mitochondrial function and heterogeneity, lipid raft stability and phosphatidylserine translocation in koala (<i>Phascolarctos cinereus</i>) spermatozoa. <i>Reproduction, Fertility and Development</i> , 2007 , 19, 850-60	1.8	18
40	Molecular mechanisms during sperm capacitation. <i>Human Fertility</i> , 2005 , 8, 253-61	1.9	18
39	Embryonic developmental plasticity in the long-snouted seahorse (<i>Hippocampus reidi</i> , Ginsburg 1933) in relation to parental preconception diet. <i>Reproduction, Fertility and Development</i> , 2016 , 28, 1020-1028	1.8	15
38	Identification and functional prediction of mitochondrial complex III and IV mutations associated with glioblastoma. <i>Neuro-Oncology</i> , 2015 , 17, 942-52	1	14
37	Individual variability in post-thaw sperm survival in a captive koala population. <i>Cryobiology</i> , 2009 , 59, 69-74	2.7	14
36	Computer-assisted sperm analysis and reproductive science; a gift for understanding gamete biology from multidisciplinary perspectives. <i>Reproduction, Fertility and Development</i> , 2018 , 30, iii	1.8	13
35	Assessing risks of invasion through gamete performance: farm Atlantic salmon sperm and eggs show equivalence in function, fertility, compatibility and competitiveness to wild Atlantic salmon. <i>Evolutionary Applications</i> , 2014 , 7, 493-505	4.8	13
34	Control of the koala (<i>Phascolarctos cinereus</i>) anterior pituitary-gonadal axis with analogues of GnRH. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 598-605	1.8	13
33	Ultrastructural observations of cryoinjury in kangaroo spermatozoa. <i>Cryobiology</i> , 2007 , 54, 271-80	2.7	12
32	Cross talk during the periconception period. <i>Theriogenology</i> , 2016 , 86, 438-42	2.8	12
31	Implications of the Nagoya Protocol for genome resource banks composed of biomaterials from rare and endangered species. <i>Reproduction, Fertility and Development</i> , 2016 ,	1.8	12
30	Reproductive science as an essential component of conservation biology. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 753, 3-14	3.6	11
29	Sperm DNA fragmentation and its role in wildlife conservation. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 753, 357-84	3.6	10
28	The effect of cryoprotectant on kangaroo sperm ultrastructure and mitochondrial function. <i>Cryobiology</i> , 2008 , 57, 297-303	2.7	10
27	Ovarian activity in Arabian leopards (<i>Panthera pardus nimr</i>): sexual behaviour and faecal steroid monitoring during the follicular cycle, mating and pregnancy. <i>Reproduction, Fertility and Development</i> , 2007 , 19, 822-30	1.8	10
26	Collective dynamics of sperm cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190384	5.8	9

25	Making the most of sperm activation responses: experiments with boar spermatozoa and bicarbonate. <i>Reproduction, Fertility and Development</i> , 2018 , 30, 842-849	1.8	8
24	The response of bovine spermatozoa to bicarbonate and its use to assess the influence of added oviductal epithelial proteins on cryopreservation. <i>Journal of Andrology</i> , 2007 , 28, 407-15		7
23	The koala (<i>Phascolarctos cinereus</i>): a case study in the development of reproductive technology in a marsupial. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 753, 171-203	3.6	7
22	Collection, Assessment, and Storage of Sperm. <i>Proceedings in Life Sciences</i> , 1986 , 413-424		7
21	Cryobiology, wildlife conservation and reality. <i>Cryo-Letters</i> , 2008 , 29, 43-52	0.3	6
20	When natural history collections reveal secrets on data deficient threatened species: Atlantic seahorses as a case study. <i>Biodiversity and Conservation</i> , 2017 , 26, 2791-2802	3.4	5
19	Reproductive Science as an Essential Component of Conservation Biology: New Edition. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1200, 1-10	3.6	5
18	Integrated Approach Reveals Role of Mitochondrial Germ-Line Mutation F18L in Respiratory Chain, Oxidative Alterations, Drug Sensitivity, and Patient Prognosis in Glioblastoma. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
17	Validation of computer-assisted sperm-motility analysis in the amphibian <i>Silurana tropicalis</i> . <i>Reproduction, Fertility and Development</i> , 2015 , 27, 1049-56	1.8	5
16	Trajectory variance and autocorrelations within single-sperm tracks as population-level descriptors of sperm track complexity, predictability, and energy-generating ability. <i>Journal of Andrology</i> , 2012 , 33, 216-28		5
15	Exploitation of Non-mammalian Model Organisms in Epigenetic Research. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1014, 155-173	3.6	4
14	Conclusions: environmental change, wildlife conservation and reproduction. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 753, 503-14	3.6	4
13	Fecal progesterone metabolites and ovarian activity in cycling and pregnant mountain gazelles (<i>Gazella gazella</i>). <i>Theriogenology</i> , 2011 , 75, 542-8	2.8	2
12	British Andrology Society Workshop: sperm interactions with epithelia and their products. <i>Human Fertility</i> , 2000 , 3, 166-171	1.9	2
11	Battle of the Sexes: How the Selection of Spermatozoa in the Female Reproductive Tract Manipulates the Sex Ratio of Offspring 2017 , 251-267		1
10	Introduction: A Brief Guide to the Periconception Environment. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1014, 1-14	3.6	1
9	Sperm motility activation, sperm heterogeneity and sperm-female tract interactions in Bennett's wallaby (<i>Macropus rufogriseus rufogriseus</i>). <i>Reproduction, Fertility and Development</i> , 2011 , 23, 603-17	1.8	1
8	A chemometrical approach to study interactions between ethynylestradiol and an AhR-agonist in stickleback (<i>Gasterosteus aculeatus</i>). <i>Journal of Chemometrics</i> , 2010 , 24, 768-778	1.6	1

7	Recent Progress in Spermatology Contributing to the Knowledge and Conservation of Rare and Endangered Species. <i>Annual Review of Animal Biosciences</i> , 2021 ,	13.7	1
6	From the Ivory Tower to Reality! Conclusions of the New Edition. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1200, 545-550	3.6	1
5	Using the Koala (<i>Phascolarctos cinereus</i>) as a Case Study to Illustrate the Development of Artificial Breeding Technology in Marsupials: an Update. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1200, 327-362	3.6	1
4	Advances in understanding mechanisms of long-term sperm storage-the soft-shelled turtle model. <i>Histology and Histopathology</i> , 2020 , 35, 1-23	1.4	0
3	Sperm Transport and Selection in Mammals 2018 , 269-275		
2	Is the Classic Spermogram Still Informative? How Did It Develop and Where Is It Going? 2018 , 1-19		
1	Sperm transport and male pregnancy in seahorses: An unusual model for reproductive science. <i>Animal Reproduction Science</i> , 2021 , 106854	2.1	