William Vincent Holt

List of Publications by Year
in descending order

93	3,546	109137	143772
papers	citations	35 h-index	57 g-index

93	93	93	3131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sperm Subpopulations in Boar (Sus scrofa) and Gazelle (Gazella dama mhorr) Semen as Revealed by Pattern Analysis of Computer-Assisted Motility Assessments. Biology of Reproduction, 1999, 60, 32-41.	1.2	181
2	Sperm-Oviduct Interaction: Induction of Capacitation and Preferential Binding of Uncapacitated Spermatozoa to Oviductal Epithelial Cells in Porcine Species1. Biology of Reproduction, 1999, 60, 879-886.	1.2	177
3	Identification of Amplified Restriction Fragment Length Polymorphism Markers Linked to Genes Controlling Boar Sperm Viability Following Cryopreservation1. Biology of Reproduction, 2002, 66, 545-554.	1.2	152
4	Concepts in sperm heterogeneity, sperm selection and sperm competition as biological foundations for laboratory tests of semen quality. Reproduction, 2004, 127, 527-535.	1.1	148
5	Sperm-Induced Modification of the Oviductal Gene Expression Profile After Natural Insemination in Mice1. Biology of Reproduction, 2004, 71, 60-65.	1.2	147
6	The oviduct as a complex mediator of mammalian sperm function and selection. Molecular Reproduction and Development, 2010, 77, 934-943.	1.0	119
7	Relationships between the dynamics of iatrogenic DNA damage and genomic design in mammalian spermatozoa from eleven species. Molecular Reproduction and Development, 2011, 78, 951-961.	1.0	119
8	The significance of cooling rates and animal variability for boar sperm cryopreservation: insights from the cryomicroscope. Theriogenology, 2005, 63, 370-382.	0.9	103
9	The battle of the sexes starts in the oviduct: modulation of oviductal transcriptome by X and Y-bearing spermatozoa. BMC Genomics, 2014, 15, 293.	1.2	101
10	CRYPTIC CHOICE OF CONSPECIFIC SPERM CONTROLLED BY THE IMPACT OF OVARIAN FLUID ON SPERM SWIMMING BEHAVIOR. Evolution; International Journal of Organic Evolution, 2013, 67, 3523-3536.	1.1	92
11	Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish (Danio rerio). Aquatic Toxicology, 2007, 83, 134-142.	1.9	89
12	Effects of HSPA8, an evolutionarily conserved oviductal protein, on boar and bull spermatozoa. Reproduction, 2009, 137, 191-203.	1.1	89
13	Sperm Storage in the Female Reproductive Tract. Annual Review of Animal Biosciences, 2016, 4, 291-310.	3.6	87
14	Wildlife conservation and reproductive cloning. Reproduction, 2004, 127, 317-324.	1.1	84
15	Atlantic salmon eggs favour sperm in competition that have similar major histocompatibility alleles. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 559-566.	1.2	83
16	Applications and interpretation of computer-assisted sperm analyses and sperm sorting methods in assisted breeding and comparative research. Reproduction, Fertility and Development, 2007, 19, 709.	0.1	80
17	Sperm selection and competition in pigs may be mediated by the differential motility activation and suppression of sperm subpopulations within the oviduct. Journal of Experimental Biology, 2006, 209, 1560-1572.	0.8	79
18	Breakthroughs and new horizons in reproductive biology of rare and endangered animal species. Biology of Reproduction, 2019, 101, 514-525.	1.2	73

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19	Mechanisms of Sperm Storage in the Female Reproductive Tract: an Interspecies Comparison. Reproduction in Domestic Animals, 2011, 46, 68-74.	0.6	72
20	Do sperm possess a molecular passport? Mechanistic insights into sperm selection in the female reproductive tract. Molecular Human Reproduction, 2015, 21, 491-501.	1.3	70
21	Importance of sperm morphology during sperm transport and fertilization in mammals. Asian Journal of Andrology, 2016, 18, 844.	0.8	65
22	Effects of oviductal fluid on the development, quality, and gene expression of porcine blastocysts produced in vitro. Reproduction, 2009, 137, 679-687.	1.1	60
23	Effect of parental age and associated size on fecundity, growth and survival in the yellow seahorse Hippocampus kuda. Journal of Experimental Biology, 2006, 209, 3055-3061.	0.8	57
24	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. Journal of Andrology, 2002, 23, 557-65.	2.0	56
25	Global Profiling of Surface Plasma Membrane Proteome of Oviductal Epithelial Cells. Journal of Proteome Research, 2006, 5, 3029-3037.	1.8	55
26	Cryobanking of viable biomaterials: implementation of new strategies for conservation purposes. Molecular Ecology, 2009, 18, 1030-1033.	2.0	55
27	Metal contamination increases the sensitivity of larvae but not gametes to ocean acidification in the polychaete Pomatoceros lamarckii (Quatrefages). Marine Biology, 2013, 160, 2089-2101.	0.7	54
28	Oviductal Cell Proteome Alterations during the Reproductive Cycle in Pigs. Journal of Proteome Research, 2008, 7, 2825-2833.	1.8	53
29	A dynamic assessment of sperm DNA fragmentation versus sperm viability in proven fertile human donors. Fertility and Sterility, 2009, 92, 1915-1919.	0.5	50
30	Recent Advances and Prospects in Germplasm Preservation of Rare and Endangered Species. Advances in Experimental Medicine and Biology, 2014, 753, 331-356.	0.8	46
31	Impacts of climate change and environmental factors on reproduction and development in wildlife. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 3313-3319.	1.8	45
32	Glutathione-supplemented tris-citric acid extender improves the post-thaw quality and in vivo fertility of buffalo (Bubalus bubalis) bull spermatozoa. Reproductive Biology, 2012, 12, 271-276.	0.9	45
33	Evidence that single-stranded DNA breaks are a normal feature of koala sperm chromatin, while double-stranded DNA breaks are indicative of DNA damage. Reproduction, 2009, 138, 267-278.	1.1	43
34	Heat-shock protein A8 restores sperm membrane integrity by increasing plasma membrane fluidity. Reproduction, 2014, 147, 719-732.	1.1	40
35	Dimorphic sperm and the unlikely route to fertilisation in the yellow seahorse. Journal of Experimental Biology, 2007, 210, 432-437.	0.8	39
36	The Relationship Between Sperm Morphology and Chromatin Integrity in the Koala (<i>Phascolarctos) Tj ETQq0 0 0 rgBT /Overlock 10 T 28, 891-899.	2.0	36

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37	Successful Artificial Insemination in the Koala (Phascolarctos cinereus) Using Extended and Extended-Chilled Semen Collected by Electroejaculation1. Biology of Reproduction, 2008, 78, 661-666.	1.2	34
38	Functional types of diving beetle (Coleoptera: Hygrobiidae and Dytiscidae), as identified by comparative swimming behaviour. Biological Journal of the Linnean Society, 1997, 61, 537-558.	0.7	31
39	Post-thaw functional status of boar spermatozoa cryopreserved using three controlled rate freezers: a comparison. Theriogenology, 2003, 60, 101-113.	0.9	29
40	Dimethylacetamide can be used as an alternative to glycerol for the successful cryopreservation of koala (Phascolarctos cinereus) spermatozoa. Reproduction, Fertility and Development, 2008, 20, 724.	0.1	27
41	Collective dynamics of sperm cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190384.	1.8	24
42	Cryopreservation of kangaroo spermatozoa using alternative approaches that reduce cytotoxic exposure to glycerol. Cryobiology, 2008, 57, 304-307.	0.3	23
43	Identification and functional prediction of mitochondrial complex III and IV mutations associated with glioblastoma. Neuro-Oncology, 2015, 17, 942-952.	0.6	23
44	Ultrastructure, osmotic tolerance, glycerol toxicity and cryopreservation of caput and cauda epididymidal kangaroo spermatozoa. Reproduction, Fertility and Development, 2006, 18, 469.	0.1	22
45	Effects of cryopreservation on mitochondrial function and heterogeneity, lipid raft stability and phosphatidylserine translocation in koala (Phascolarctos cinereus) spermatozoa. Reproduction, Fertility and Development, 2007, 19, 850.	0.1	20
46	Embryonic developmental plasticity in the long-snouted seahorse (Hippocampus reidi, Ginsburg 1933) in relation to parental preconception diet. Reproduction, Fertility and Development, 2016, 28, 1020.	0.1	20
47	Molecular mechanisms during sperm capacitation. Human Fertility, 2005, 8, 253-261.	0.7	19
48	Cross talk during the periconception period. Theriogenology, 2016, 86, 438-442.	0.9	16
49	Reproductive Science as an Essential Component of Conservation Biology. Advances in Experimental Medicine and Biology, 2014, 753, 3-14.	0.8	16
50	Control of the koala (Phascolarctos cinereus) anterior pituitary-gonadal axis with analogues of GnRH. Reproduction, Fertility and Development, 2008, 20, 598.	0.1	15
51	Sperm DNA Fragmentation and Its Role in Wildlife Conservation. Advances in Experimental Medicine and Biology, 2014, 753, 357-384.	0.8	14
52	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. Evolutionary Applications, 2014, 7, 493-505.	1.5	14
53	Implications of the Nagoya Protocol for genome resource banks composed of biomaterials from rare and endangered species. Reproduction, Fertility and Development, 2016, 28, 1145.	0.1	14
54	The Koala (Phascolarctos cinereus): A Case Study in the Development of Reproductive Technology in a Marsupial. Advances in Experimental Medicine and Biology, 2014, 753, 171-203.	0.8	14

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55	Endocrine correlates of sexual behavior in the Mohor gazelle (Gazella dama mhorr). Hormones and Behavior, 2003, 44, 303-310.	1.0	13
56	Ultrastructural observations of cryoinjury in kangaroo spermatozoa. Cryobiology, 2007, 54, 271-280.	0.3	13
57	Impacts of Endocrine Disrupting Chemicals on Reproduction in Wildlife. Advances in Experimental Medicine and Biology, 2014, 753, 55-70.	0.8	13
58	The effect of cryoprotectant on kangaroo sperm ultrastructure and mitochondrial function. Cryobiology, 2008, 57, 297-303.	0.3	12
59	Making the most of sperm activation responses: experiments with boar spermatozoa and bicarbonate. Reproduction, Fertility and Development, 2018, 30, 842.	0.1	12
60	Validation of a Method for Measuring Sperm Quality and Quantity in Reproductive Toxicity Tests with Pair-Breeding Male Fathead Minnows (Pimephales promelas). ILAR Journal, 2009, 50, E1-E10.	1.8	11
61	Ovarian activity in Arabian leopards (Panthera pardus nimr): sexual behaviour and faecal steroid monitoring during the follicular cycle, mating and pregnancy. Reproduction, Fertility and Development, 2007, 19, 822.	0.1	10
62	Does apoptosis hold the key to longâ€term sperm storage mechanisms in vivo?. Molecular Reproduction and Development, 2011, 78, 464-465.	1.0	10
63	Integrated Approach Reveals Role of Mitochondrial Germ-Line Mutation F18L in Respiratory Chain, Oxidative Alterations, Drug Sensitivity, and Patient Prognosis in Glioblastoma. International Journal of Molecular Sciences, 2019, 20, 3364.	1.8	10
64	Time-critical influences of gestational diet in a seahorse model of male pregnancy. Journal of Experimental Biology, 2020, 223, .	0.8	9
65	The Response of Bovine Spermatozoa to Bicarbonate and Its Use to Assess the Influence of Added Oviductal Epithelial Proteins on Cryopreservation. Journal of Andrology, 2006, 28, 407-415.	2.0	8
66	When natural history collections reveal secrets on data deficient threatened species: Atlantic seahorses as a case study. Biodiversity and Conservation, 2017, 26, 2791-2802.	1.2	8
67	Cryobiology, wildlife conservation and reality. Cryo-Letters, 2008, 29, 43-52.	0.1	8
68	Genetic resource banks for species conservation. , 2002, , 267-280.		7
69	Trajectory Variance and Autocorrelations Within Single-Sperm Tracks as Population-Level Descriptors of Sperm Track Complexity, Predictability, and Energy-Generating Ability. Journal of Andrology, 2012, 33, 216-228.	2.0	7
70	Exploitation of Non-mammalian Model Organisms in Epigenetic Research. Advances in Experimental Medicine and Biology, 2017, 1014, 155-173.	0.8	7
71	Recent Progress in Spermatology Contributing to the Knowledge and Conservation of Rare and Endangered Species. Annual Review of Animal Biosciences, 2022, 10, .	3.6	7
72	Proteomics of the periconception milieu. Proteomics, 2015, 15, 649-655.	1.3	6

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73	Honey as an Alternative to Antibiotics for Cryopreservation of Nili-Ravi Buffalo Bull Spermatozoa. Biopreservation and Biobanking, 2020, 18, 25-32.	0.5	6
74	Validation of computer-assisted sperm-motility analysis in the amphibian Silurana tropicalis. Reproduction, Fertility and Development, 2015, 27, 1049.	0.1	5
75	Opportunities and Limitations for Reproductive Science in Species Conservation. Annual Review of Animal Biosciences, 2022, 10, .	3.6	5
76	Advances in understanding mechanisms of long-term sperm storage-the soft-shelled turtle model. Histology and Histopathology, 2020, 35, 1-23.	0.5	5
77	Fecal progesterone metabolites and ovarian activity in cycling and pregnant mountain gazelles (Gazella gazella). Theriogenology, 2011, 75, 542-548.	0.9	4
78	Composition of marsupial zona pellucida: a molecular and phylogenetic approach. Reproduction, Fertility and Development, 2018, 30, 721.	0.1	4
79	Extracellular vesicles in the male reproductive tract of the softshell turtle. Reproduction, Fertility and Development, 2021, 33, 519.	0.1	4
80	Conclusions: Environmental Change, Wildlife Conservation and Reproduction. Advances in Experimental Medicine and Biology, 2014, 753, 503-514.	0.8	4
81	British Andrology Society Workshop: Sperm interactions with epithelia and their products. Human Fertility, 2000, 3, 166-171.	0.7	2
82	Contraception in wildlife. Journal of Family Planning and Reproductive Health Care, 2007, 33, 48-52.	0.9	2
83	Investigation of pig sperm plasma membrane reorganization using progesterone-albumin-fluorescein probes. Asian Pacific Journal of Reproduction, 2012, 1, 27-33.	0.2	2
84	Foreword. Theriogenology, 2012, 77, 701-702.	0.9	2
85	Who Needs Cytoplasm? Genomic Preservation for the 21st Century. Biology of Reproduction, 2013, 88, 140-140.	1.2	2
86	Introduction: A Brief Guide to the Periconception Environment. Advances in Experimental Medicine and Biology, 2017, 1014, 1-14.	0.8	2
87	Premature birth stunts early growth and is a possible driver of stressâ€induced maternal effects in the guppy Poecilia reticulata. Journal of Fish Biology, 2020, 96, 506-515.	0.7	2
88	How can mating systems inform future biobanking strategies? An illustration using two Indonesian bovids, banteng (Bos javanicus) and lowland anoa (Bubalus depressicornis). Animal Reproduction Science, 2022, 238, 106943.	0.5	2
89	Subcellular localization of copper in foetal deer liver. Biochemical Society Transactions, 1986, 14, 1175-1175.	1.6	1
90	A chemometrical approach to study interactions between ethynylestradiol and an AhRâ€agonist in stickleback (Gasterosteus aculeatus). Journal of Chemometrics, 2010, 24, 768-778.	0.7	1

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91	Sperm motility activation, sperm heterogeneity and spermâ€“female tract interactions in Bennett's wallaby (Macropus rufogriseus rufogriseus). Reproduction, Fertility and Development, 2011, 23, 603.	0.1	1
92	Sperm transport and male pregnancy in seahorses: An unusual model for reproductive science. Animal Reproduction Science, 2021, , 106854.	0.5	0
93	Sperm Assessment; Is the Average Spermatozoon Any Good? The View from the Zoo!. Biology of Reproduction, 2011, 85, 21-21.	1.2	0