

# William V Holt

## List of Publications by Year in Descending Order

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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 | Recent Progress in Spermatology Contributing to the Knowledge and Conservation of Rare and Endangered Species. <i>Annual Review of Animal Biosciences</i> , <b>2021</b> ,  | 13.7 | 1         |
| 77 | Sperm transport and male pregnancy in seahorses: An unusual model for reproductive science. <i>Animal Reproduction Science</i> , <b>2021</b> , 106854  | 2.1  |           |
| 76 | Collective dynamics of sperm cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2020</b> , 375, 20190384  | 5.8  | 9         |
| 75 | Advances in understanding mechanisms of long-term sperm storage-the soft-shelled turtle model. <i>Histology and Histopathology</i> , <b>2020</b> , 35, 1-23  | 1.4  | 0         |
| 74 | Reproductive Science as an Essential Component of Conservation Biology: New Edition. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1200, 1-10   | 3.6  | 5         |
| 73 | 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> , <b>2019</b> , 20, | 6.3  | 5         |
| 72 | From the Ivory Tower to Reality! Conclusions of the New Edition. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1200, 545-550  | 3.6  | 1         |
| 71 | 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> , <b>2019</b> , 1200, 327-362         | 3.6  | 1         |
| 70 | Breakthroughs and new horizons in reproductive biology of rare and endangered animal species. <i>Biology of Reproduction</i> , <b>2019</b> , 101, 514-525  | 3.9  | 39        |
| 69 | Sperm Transport and Selection in Mammals <b>2018</b> , 269-275   |      |           |
| 68 | Is the Classic Spermogram Still Informative? How Did It Develop and Where Is It Going? <b>2018</b> , 1-19  |      |           |
| 67 | Computer-assisted sperm analysis and reproductive science; a gift for understanding gamete biology from multidisciplinary perspectives. <i>Reproduction, Fertility and Development</i> , <b>2018</b> , 30, iii   | 1.8  | 13        |
| 66 | Making the most of sperm activation responses: experiments with boar spermatozoa and bicarbonate. <i>Reproduction, Fertility and Development</i> , <b>2018</b> , 30, 842-849   | 1.8  | 8         |
| 65 | When natural history collections reveal secrets on data deficient threatened species: Atlantic seahorses as a case study. <i>Biodiversity and Conservation</i> , <b>2017</b> , 26, 2791-2802   | 3.4  | 5         |
| 64 | Battle of the Sexes: How the Selection of Spermatozoa in the Female Reproductive Tract Manipulates the Sex Ratio of Offspring <b>2017</b> , 251-267  |      | 1         |
| 63 | Introduction: A Brief Guide to the Periconception Environment. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 1014, 1-14   | 3.6  | 1         |
| 62 | Exploitation of Non-mammalian Model Organisms in Epigenetic Research. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 1014, 155-173   | 3.6  | 4         |

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| 61 | 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> , <b>2016</b> , 28, 1020-1028                        | 1.8  | 15 |
| 60 | Sperm Storage in the Female Reproductive Tract. <i>Annual Review of Animal Biosciences</i> , <b>2016</b> , 4, 291-310   | 13.7 | 51 |
| 59 | Importance of sperm morphology during sperm transport and fertilization in mammals. <i>Asian Journal of Andrology</i> , <b>2016</b> , 18, 844-850   | 2.8  | 32 |
| 58 | Cross talk during the periconception period. <i>Theriogenology</i> , <b>2016</b> , 86, 438-42   | 2.8  | 12 |
| 57 | Implications of the Nagoya Protocol for genome resource banks composed of biomaterials from rare and endangered species. <i>Reproduction, Fertility and Development</i> , <b>2016</b> ,   | 1.8  | 12 |
| 56 | Do sperm possess a molecular passport? Mechanistic insights into sperm selection in the female reproductive tract. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 491-501  | 4.4  | 57 |
| 55 | Identification and functional prediction of mitochondrial complex III and IV mutations associated with glioblastoma. <i>Neuro-Oncology</i> , <b>2015</b> , 17, 942-52   | 1    | 14 |
| 54 | Validation of computer-assisted sperm-motility analysis in the amphibian <i>Silurana tropicalis</i> . <i>Reproduction, Fertility and Development</i> , <b>2015</b> , 27, 1049-56  | 1.8  | 5  |
| 53 | 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> , <b>2014</b> , 7, 493-505 | 4.8  | 13 |
| 52 | Recent advances and prospects in germplasm preservation of rare and endangered species. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 753, 331-56  | 3.6  | 28 |
| 51 | Heat-shock protein A8 restores sperm membrane integrity by increasing plasma membrane fluidity. <i>Reproduction</i> , <b>2014</b> , 147, 719-32   | 3.8  | 34 |
| 50 | 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> , <b>2014</b> , 81, 805-19                      | 2.6  | 24 |
| 49 | Sperm DNA fragmentation and its role in wildlife conservation. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 753, 357-84   | 3.6  | 10 |
| 48 | Reproductive science as an essential component of conservation biology. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 753, 3-14  | 3.6  | 11 |
| 47 | Conclusions: environmental change, wildlife conservation and reproduction. <i>Advances in Experimental Medicine and Biology</i> , <b>2014</b> , 753, 503-14   | 3.6  | 4  |
| 46 | 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> , <b>2014</b> , 753, 171-203   | 3.6  | 7  |
| 45 | 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> , <b>2013</b> , 160, 2089-2101   | 2.5  | 45 |
| 44 | Cryptic choice of conspecific sperm controlled by the impact of ovarian fluid on sperm swimming behavior. <i>Evolution; International Journal of Organic Evolution</i> , <b>2013</b> , 67, 3523-36  | 3.8  | 73 |

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| 43 | 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> , <b>2012</b> , 33, 216-28 |     | 5   |
| 42 | Fecal progesterone metabolites and ovarian activity in cycling and pregnant mountain gazelles ( <i>Gazella gazella</i> ). <i>Theriogenology</i> , <b>2011</b> , 75, 542-8  | 2.8 | 2   |
| 41 | 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> , <b>2011</b> , 23, 603-17       | 1.8 | 1   |
| 40 | Mechanisms of sperm storage in the female reproductive tract: an interspecies comparison. <i>Reproduction in Domestic Animals</i> , <b>2011</b> , 46 Suppl 2, 68-74  | 1.6 | 58  |
| 39 | Relationships between the dynamics of iatrogenic DNA damage and genomic design in mammalian spermatozoa from eleven species. <i>Molecular Reproduction and Development</i> , <b>2011</b> , 78, 951-61                                | 2.6 | 96  |
| 38 | The oviduct as a complex mediator of mammalian sperm function and selection. <i>Molecular Reproduction and Development</i> , <b>2010</b> , 77, 934-43  | 2.6 | 100 |
| 37 | A chemometrical approach to study interactions between ethynylestradiol and an AhR-agonist in stickleback ( <i>Gasterosteus aculeatus</i> ). <i>Journal of Chemometrics</i> , <b>2010</b> , 24, 768-778                              | 1.6 | 1   |
| 36 | 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> , <b>2009</b> , 138, 267-78                               | 3.8 | 38  |
| 35 | Atlantic salmon eggs favour sperm in competition that have similar major histocompatibility alleles. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 276, 559-66                                      | 4.4 | 71  |
| 34 | Effects of HSPA8, an evolutionarily conserved oviductal protein, on boar and bull spermatozoa. <i>Reproduction</i> , <b>2009</b> , 137, 191-203  | 3.8 | 71  |
| 33 | Cryobanking of viable biomaterials: implementation of new strategies for conservation purposes. <i>Molecular Ecology</i> , <b>2009</b> , 18, 1030-3  | 5.7 | 41  |
| 32 | Individual variability in post-thaw sperm survival in a captive koala population. <i>Cryobiology</i> , <b>2009</b> , 59, 69-74   | 2.7 | 14  |
| 31 | A dynamic assessment of sperm DNA fragmentation versus sperm viability in proven fertile human donors. <i>Fertility and Sterility</i> , <b>2009</b> , 92, 1915-9   | 4.8 | 46  |
| 30 | The effect of cryoprotectant on kangaroo sperm ultrastructure and mitochondrial function. <i>Cryobiology</i> , <b>2008</b> , 57, 297-303   | 2.7 | 10  |
| 29 | Cryopreservation of kangaroo spermatozoa using alternative approaches that reduce cytotoxic exposure to glycerol. <i>Cryobiology</i> , <b>2008</b> , 57, 304-7   | 2.7 | 22  |
| 28 | Oviductal cell proteome alterations during the reproductive cycle in pigs. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 2825-33  | 5.6 | 49  |
| 27 | Successful artificial insemination in the koala ( <i>Phascolarctos cinereus</i> ) using extended and extended-chilled semen collected by electroejaculation. <i>Biology of Reproduction</i> , <b>2008</b> , 78, 661-6                | 3.9 | 27  |
| 26 | Control of the koala ( <i>Phascolarctos cinereus</i> ) anterior pituitary-gonadal axis with analogues of GnRH. <i>Reproduction, Fertility and Development</i> , <b>2008</b> , 20, 598-605  | 1.8 | 13  |

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| 25 | 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> , <b>2008</b> , 20, 724-33                                    | 1.8 | 22  |
| 24 | Cryobiology, wildlife conservation and reality. <i>Cryo-Letters</i> , <b>2008</b> , 29, 43-52  | 0.3 | 6   |
| 23 | 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> , <b>2007</b> , 28, 891-9                                    |     | 33  |
| 22 | 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> , <b>2007</b> , 19, 850-60 | 1.8 | 18  |
| 21 | 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> , <b>2007</b> , 19, 822-30                    | 1.8 | 10  |
| 20 | Dimorphic sperm and the unlikely route to fertilisation in the yellow seahorse. <i>Journal of Experimental Biology</i> , <b>2007</b> , 210, 432-7  | 3   | 33  |
| 19 | Applications and interpretation of computer-assisted sperm analyses and sperm sorting methods in assisted breeding and comparative research. <i>Reproduction, Fertility and Development</i> , <b>2007</b> , 19, 709-18   | 1.8 | 70  |
| 18 | Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish ( <i>Danio rerio</i> ). <i>Aquatic Toxicology</i> , <b>2007</b> , 83, 134-42   | 5.1 | 76  |
| 17 | Ultrastructural observations of cryoinjury in kangaroo spermatozoa. <i>Cryobiology</i> , <b>2007</b> , 54, 271-80  | 2.7 | 12  |
| 16 | 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> , <b>2007</b> , 28, 407-15   |     | 7   |
| 15 | Global profiling of surface plasma membrane proteome of oviductal epithelial cells. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 3029-37   | 5.6 | 54  |
| 14 | 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> , <b>2006</b> , 209, 1560-72                                      | 3   | 73  |
| 13 | Ultrastructure, osmotic tolerance, glycerol toxicity and cryopreservation of caput and cauda epididymidal kangaroo spermatozoa. <i>Reproduction, Fertility and Development</i> , <b>2006</b> , 18, 469-76  | 1.8 | 21  |
| 12 | The significance of cooling rates and animal variability for boar sperm cryopreservation: insights from the cryomicroscope. <i>Theriogenology</i> , <b>2005</b> , 63, 370-82   | 2.8 | 89  |
| 11 | Molecular mechanisms during sperm capacitation. <i>Human Fertility</i> , <b>2005</b> , 8, 253-61   | 1.9 | 18  |
| 10 | Sperm-induced modification of the oviductal gene expression profile after natural insemination in mice. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 60-5  | 3.9 | 133 |
| 9  | Concepts in sperm heterogeneity, sperm selection and sperm competition as biological foundations for laboratory tests of semen quality. <i>Reproduction</i> , <b>2004</b> , 127, 527-35  | 3.8 | 134 |
| 8  | Identification of amplified restriction fragment length polymorphism markers linked to genes controlling boar sperm viability following cryopreservation. <i>Biology of Reproduction</i> , <b>2002</b> , 66, 545-54  | 3.9 | 132 |

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| 7 | 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> , <b>2002</b> , 23, 557-65 |     | 54  |
| 6 | Semen cryopreservation: a genetic explanation for species and individual variation?. <i>Cryo-Letters</i> , <b>2002</b> , 23, 255-62  | 0.3 | 44  |
| 5 | British Andrology Society Workshop: sperm interactions with epithelia and their products. <i>Human Fertility</i> , <b>2000</b> , 3, 166-171  | 1.9 | 2   |
| 4 | Sperm-oviduct interaction: induction of capacitation and preferential binding of uncapacitated spermatozoa to oviductal epithelial cells in porcine species. <i>Biology of Reproduction</i> , <b>1999</b> , 60, 879-86                                     | 3.9 | 161 |
| 3 | 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> , <b>1999</b> , 60, 32-41                     | 3.9 | 162 |
| 2 | Collection, Assessment, and Storage of Sperm. <i>Proceedings in Life Sciences</i> , <b>1986</b> , 413-424  |     | 7   |
| 1 | Computer-assisted measurement of sperm swimming speed in human semen: correlation of results with in vitro fertilization assays. <i>Fertility and Sterility</i> , <b>1985</b> , 44, 112-9  | 4.8 | 147 |