

Stephen D Johnston

List of Publications by Year in descending order

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78
papers

1,158
citations

471061

17
h-index

500791

28
g-index

81
all docs

81
docs citations

81
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA Damage and Repair in Human Reproductive Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 31.	1.8	88
2	Platypus and echidna genomes reveal mammalian biology and evolution. <i>Nature</i> , 2021, 592, 756-762.	13.7	85
3	The piRNA Response to Retroviral Invasion of the Koala Genome. <i>Cell</i> , 2019, 179, 632-643.e12.	13.5	73
4	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, 267-278.	1.1	43
5	Can DNA fragmentation of neat or swim-up spermatozoa be used to predict pregnancy following ICSI of fertile oocyte donors?. <i>Asian Journal of Andrology</i> , 2013, 15, 812-818.	0.8	39
6	The Relationship Between Sperm Morphology and Chromatin Integrity in the Koala (<i>Phascolarctos</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 28, 891-899.	2.0	36
7	Artificial insemination in marsupials. <i>Theriogenology</i> , 2009, 71, 176-189.	0.9	35
8	Successful Artificial Insemination in the Koala (<i>Phascolarctos cinereus</i>) Using Extended and Extended-Chilled Semen Collected by Electroejaculation1. <i>Biology of Reproduction</i> , 2008, 78, 661-666.	1.2	34
9	Interpreting sperm DNA damage in a diverse range of mammalian sperm by means of the two-tailed comet assay. <i>Frontiers in Genetics</i> , 2014, 5, 404.	1.1	31
10	Modification of Crocodile Spermatozoa Refutes the Tenet That Post-testicular Sperm Maturation Is Restricted To Mammals*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, S58-S76.	2.5	30
11	Development and application of two multiplex real-time PCR assays for detection and speciation of bacterial pathogens in the koala. <i>Journal of Veterinary Diagnostic Investigation</i> , 2018, 30, 523-529.	0.5	28
12	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.	0.1	27
13	Multi-centre assessment of nitroblue tetrazolium reactivity in human semen as a potential marker of oxidative stress. <i>Reproductive BioMedicine Online</i> , 2017, 34, 513-521.	1.1	26
14	Association of polymorphisms in genes coding for antioxidant enzymes and human male infertility. <i>Annals of Human Genetics</i> , 2019, 83, 63-72.	0.3	24
15	Magnetic cell sorting of semen containing spermatozoa with high DNA fragmentation in ICSI cycles decreases miscarriage rate. <i>Reproductive BioMedicine Online</i> , 2017, 34, 506-512.	1.1	22
16	The Role of Bioacoustic Signals in Koala Sexual Selection: Insights from Seasonal Patterns of Associations Revealed with GPS-Proximity Units. <i>PLoS ONE</i> , 2015, 10, e0130657.	1.1	21
17	The Effect of Chilled Storage and Cryopreservation on the Sperm DNA Fragmentation Dynamics of a Captive Population of Koalas. <i>Journal of Andrology</i> , 2012, 33, 1007-1015.	2.0	20
18	<i>Chlamydia pecorum</i> Infection in the Male Reproductive System of Koalas (<i>Phascolarctos</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.8 19	0.8	19

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19	Genetic diversity in natural and introduced island populations of koalas in Queensland. <i>Australian Journal of Zoology</i> , 2012, 60, 303.	0.6	18
20	Wombat reproduction (Marsupialia; Vombatidae): an update and future directions for the development of artificial breeding technology. <i>Reproduction</i> , 2013, 145, R157-R173.	1.1	18
21	Advances in the captive breeding and reproductive biology of the short-beaked echidna (<i>Tachyglossus</i>). <i>Trends in Ecology and Evolution</i> , 2014, 29, 100-108.	0.6	18
22	The Australian saltwater crocodile (<i>Crocodylus porosus</i>) provides evidence that the capacitation of spermatozoa may extend beyond the mammalian lineage. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160495.	1.2	17
23	Magnetic-activated cell sorting is not completely effective at reducing sperm DNA fragmentation. <i>Journal of Assisted Reproduction and Genetics</i> , 2018, 35, 2215-2221.	1.2	17
24	Use of a GnRH Agonist and hCG to Obtain an Index of Testosterone Secretory Capacity in the Koala (<i>Phascolarctos cinereus</i>). <i>Journal of Andrology</i> , 2006, 27, 720-724.	2.0	15
25	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.	0.1	15
26	Individual variability in post-thaw sperm survival in a captive koala population. <i>Cryobiology</i> , 2009, 59, 69-74.	0.3	15
27	Seasonal reproduction in wild and captive male koala (<i>Phascolarctos cinereus</i>) populations in south-east Queensland. <i>Reproduction, Fertility and Development</i> , 2010, 22, 695.	0.1	15
28	Kinematic and head morphometric characterisation of spermatozoa from the Brown Caiman (<i>Caiman</i>). <i>Trends in Ecology and Evolution</i> , 2014, 29, 100-108.	0.5	15
29	Transient role of the middle ear as a lower jaw support across mammals. <i>ELife</i> , 2020, 9, .	2.8	15
30	Anthropogenic changes to the landscape resulted in colonization of koalas in north-east New South Wales, Australia. <i>Austral Ecology</i> , 2013, 38, 355-363.	0.7	14
31	Sperm DNA Fragmentation and Its Role in Wildlife Conservation. <i>Advances in Experimental Medicine and Biology</i> , 2014, 753, 357-384.	0.8	14
32	Rapid point-of-care diagnostics for the detection of <i>Chlamydia pecorum</i> in koalas (<i>Phascolarctos cinereus</i>) using loop-mediated isothermal amplification without nucleic acid purification. <i>MicrobiologyOpen</i> , 2019, 8, e916.	1.2	14
33	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.	0.8	14
34	Reduced sperm DNA longevity is associated with an increased incidence of still born; evidence from a multi-ovulating sequential artificial insemination animal model. <i>Journal of Assisted Reproduction and Genetics</i> , 2016, 33, 1231-1238.	1.2	13
35	New insights into the spermatogenesis of the black tiger prawn, <i>Penaeus monodon</i> . <i>Journal of Morphology</i> , 2017, 278, 689-703.	0.6	13
36	Developing noninvasive methodologies to assess koala population health through detecting <i>Chlamydia</i> from scats. <i>Molecular Ecology Resources</i> , 2019, 19, 957-969.	2.2	12

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37	The incidence and etiology of sperm DNA fragmentation in the ejaculates of males with spinal cord injuries. <i>Spinal Cord</i> , 2020, 58, 803-810.	0.9	12
38	Koala retrovirus genetic diversity and transmission dynamics within captive koala populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
39	The effect of Chlamydia infection on koala (<i>Phascolarctos cinereus</i>) semen quality. <i>Theriogenology</i> , 2021, 167, 99-110.	0.9	10
40	Proteomic analysis of koala (<i>phascolarctos cinereus</i>) spermatozoa and prostatic bodies. <i>Proteomics</i> , 2021, 21, e2100067.	1.3	10
41	Non-invasive urine collection in the female southern hairy-nosed wombat (<i>Lasiorhinus</i>)	0.5	9
42	Sperm fractions obtained following density gradient centrifugation in human ejaculates show differences in sperm DNA longevity. <i>Asian Pacific Journal of Reproduction</i> , 2014, 3, 116-120.	0.2	8
43	Three-dimensional reconstruction of black tiger prawn (<i>Penaeus monodon</i>) spermatozoa using serial block-face scanning electron microscopy. <i>Journal of Morphology</i> , 2016, 277, 565-574.	0.6	8
44	Challenges associated with the development and transfer of assisted breeding technology in marsupials and monotremes: lessons from the koala, wombat and short-beaked echidna. <i>Reproduction, Fertility and Development</i> , 2019, 31, 1305.	0.1	8
45	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.	0.8	8
46	Ultrasonographic assessment of the male koala (<i>Phascolarctos cinereus</i>) reproductive tract. <i>Research in Veterinary Science</i> , 2018, 117, 219-223.	0.9	7
47	A morphological study of the male reproductive tract, post-testicular acrosome maturation and spermatophore formation in the black tiger prawn (<i>Penaeus monodon</i>). <i>Journal of Morphology</i> , 2018, 279, 1290-1300.	0.6	7
48	DNA fragmentation of human spermatozoa: Simple assessment of single- and double-strand DNA breaks and their respective dynamic behavioral response. <i>Andrology</i> , 2020, 8, 1287-1303.	1.9	7
49	Post-testicular sperm maturation in the saltwater crocodile <i>Crocodylus porosus</i> : assessing the temporal acquisition of sperm motility. <i>Reproduction, Fertility and Development</i> , 2021, 33, 530.	0.1	7
50	Plasma progesterone secretion during gestation of the captive short-beaked echidna. <i>Reproduction</i> , 2021, 162, 267-275.	1.1	7
51	Modelling Genetic Benefits and Financial Costs of Integrating Biobanking into the Captive Management of Koalas. <i>Animals</i> , 2022, 12, 990.	1.0	7
52	Gross and microanatomy of the male reproductive duct system of the saltwater crocodile. <i>Reproduction, Fertility and Development</i> , 2021, 33, 540-554.	0.1	6
53	Assisted breeding technology in the saltwater crocodile. <i>Reproduction, Fertility and Development</i> , 2021, 33, 503-518.	0.1	6
54	The seminiferous epithelial cycle and microanatomy of the koala (<i>phascolarctos</i>)	0.9	5

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55	Amphibian Sperm Chromatin Structure and Function and Its Relevance to Sperm Preservation. Journal of Herpetology, 2018, 52, 486-491.	0.2	5
56	Assessment of avian sperm DNA fragmentation using the sperm chromatin dispersion assay. Reproduction, Fertility and Development, 2020, 32, 948.	0.1	5
57	Sperm Chromatin Dispersion (SCD) Assay. , 2018, , 137-152.		5
58	Reproductive biology of captive southern hairy-nosed wombats (<i>Lasiorhinus latifrons</i>). Part 1: oestrous cycle characterisation. Reproduction, Fertility and Development, 2018, 30, 1412.	0.1	4
59	Co-incubation of spermatozoa with human follicular fluid reduces sperm DNA fragmentation by mitigating DNase activity in the seminal plasma. Journal of Assisted Reproduction and Genetics, 2020, 37, 63-69.	1.2	4
60	Antibiotic toxicity on human spermatozoa assessed using the sperm DNA fragmentation dynamic assay. Andrologia, 2022, 54, e14328.	1.0	4
61	Cumulus Cell DNA Damage as an Index of Human Oocyte Competence. Reproductive Sciences, 2022, 29, 3194-3200.	1.1	4
62	Reproductive biology of captive female southern hairy-nosed wombats (<i>Lasiorhinus latifrons</i>). Part 2: oestrous behaviour. Reproduction, Fertility and Development, 2018, 30, 1424.	0.1	3
63	Evaluating the impact of moulting and chilled storage of spermatophores on the integrity of plasma membrane, acrosome and DNA of black tiger prawn (<i>Penaeus monodon</i>) spermatozoa. Aquaculture Research, 2019, 50, 226-235.	0.9	3
64	The occurrence and pathology of chlamydiosis in the male reproductive tract of non-human mammals: A review. Theriogenology, 2020, 154, 152-160.	0.9	3
65	Microencapsulation of human spermatozoa increases membrane stability and DNA longevity. Andrologia, 2021, 53, e13924.	1.0	3
66	Investigation of pathology associated with <i>Chlamydia pecorum</i> infection in the male reproductive tract, and the effect on spermatogenesis and semen quality in the koala (<i>Phascolarctos cinereus</i>). Theriogenology, 2022, 180, 30-39.	0.9	3
67	EPIDEMIOLOGY OF CHLAMYDIA-INDUCED REPRODUCTIVE DISEASE IN MALE KOALAS (<i>Phascolarctos cinereus</i>) FROM SOUTHEAST QUEENSLAND, AUSTRALIA AS ASSESSED FROM PENILE URETHRAL SWABS AND SEMEN. Journal of Wildlife Diseases, 2020, 56, 82-92.	0.3	3
68	The functional anatomy of external genitalia in the black tiger prawn (<i>Penaeus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (n Journal of Morphology, 2018, 279, 1346-1354.	0.6	2
69	Free circulating DNA and DNase activity in the ejaculates of men with spinal cord injury. Spinal Cord, 2021, 59, 167-174.	0.9	2
70	Plasma and acrosomal membrane lipid content of saltwater crocodile spermatozoa. Reproduction, Fertility and Development, 2021, 33, 596-604.	0.1	2
71	Protamine composition of koala and wombat spermatozoa provides new insights into DNA stability following cryopreservation. Reproduction, Fertility and Development, 2019, 31, 1558.	0.1	1
72	DNase activity in human seminal plasma and follicular fluid and its inhibition by follicular fluid chelating agents. Reproductive BioMedicine Online, 2021, 43, 1079-1086.	1.1	1

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73	Genetic sex test for the short-beaked echidna (<i>Tachyglossus aculeatus</i>). <i>Conservation Genetics Resources</i> , 2022, 14, 271-278.	0.4	1
74	Sperm DNA fragmentation and its relevance to men with spinal cord injury. , 2022, , 93-104.		1
75	Sperm dna damage in men with spinal cord injury: The relative incidence of single- and double-strand dna breakS. <i>Andrology</i> , 0, , .	1.9	1
76	The Unique Penile Morphology of the Short-Beaked Echidna, <i>Tachyglossus aculeatus</i> . <i>Sexual Development</i> , 2021, 15, 262-271.	1.1	0
77	Preliminary evaluation of urinary cytology and running wheel activity to detect oestrus and the effect of daily handling on breeding success of fat-tailed dunnarts <i>Sminthopsis crassicaudata</i> . <i>Reproduction, Fertility and Development</i> , 2020, , .	0.1	0
78	In vitro transmission of Chlamydia using naturally infected koala (<i>Phascolarctos cinereus</i>) semen. <i>Reproduction, Fertility and Development</i> , 2022, , .	0.1	0