Tom A E Stout

List of Publications by Citations

82 papers	1,492 citations	22 h-index	35 g-index
93 ext. papers	1,780 ext. citations	3.2 avg, IF	4.83 L-index

#	Paper	IF	Citations
82	The predictive value of semen analysis in the evaluation of stallion fertility. *Reproduction in Domestic Animals*, **2003**, 38, 305-11	1.6	114
81	Effects of in vitro production on horse embryo morphology, cytoskeletal characteristics, and blastocyst capsule formation. *Biology of Reproduction*, **2003**, 69, 1895-906	3.9	101
80	An oviduct-on-a-chip provides an enhanced in vitro environment for zygote genome reprogramming. *Nature Communications*, **2018**, 9, 4934	17.4	62
79	Stage-specific formation of the equine blastocyst capsule is instrumental to hatching and to embryonic survival in vivo. *Animal Reproduction Science*, **2005**, 87, 269-81	2.1	60
78	Numerical chromosomal abnormalities in equine embryos produced in vivo and in vitro. *Molecular Reproduction and Development*, **2005**, 72, 77-87	2.6	59
77	Organisation of the cytoskeleton during in vitro maturation of horse oocytes. *Molecular Reproduction and Development*, **2001**, 60, 260-9	2.6	59
76	The roles of the epididymis and prostasomes in the attainment of fertilizing capacity by stallion sperm. *Animal Reproduction Science*, **2008**, 107, 237-48	2.1	53
75	Effect of maturation stage at cryopreservation on post-thaw cytoskeleton quality and fertilizability of equine oocytes. *Molecular Reproduction and Development*, **2006**, 73, 627-37	2.6	50
74	Endometrial oxytocin receptor and uterine prostaglandin secretion in mares during the oestrous cycle and early pregnancy. *Reproduction*, **1998**, 113, 173-9	3.8	50
73	Equine embryo transfer: review of developing potential. *Equine Veterinary Journal*, **2006**, 38, 467-78	2.4	46
72	Progesterone induces acrosome reaction in stallion spermatozoa via a protein tyrosine kinase dependent pathway. *Molecular Reproduction and Development*, **2003**, 64, 120-8	2.6	43
71	Effect of cryopreservation on the cellular integrity of equine embryos. *Reproduction*, **2005**, 129, 789-98	3.8	43
70	Advancing maternal age predisposes to mitochondrial damage and loss during maturation of equine oocytes in vitro. *Theriogenology*, **2014**, 81, 959-65	2.8	40
69	Oxytocin administration prolongs luteal function in cyclic mares. *Reproduction*, **1999**, 116, 315-20	3.8	37
68	Improved bovine embryo production in an oviduct-on-a-chip system: prevention of poly-spermic fertilization and parthenogenic activation. *Lab on A Chip*, **2017**, 17, 905-916	7.2	35
67	Horse Y chromosome assembly displays unique evolutionary features and putative stallion fertility genes. *Nature Communications*, **2018**, 9, 2945	17.4	35
66	Designing 3-Dimensional In Vitro Oviduct Culture Systems to Study Mammalian Fertilization and Embryo Production. *Annals of Biomedical Engineering*, **2017**, 45, 1731-1744	4.7	33

65	Update on mammalian sperm capacitation: how much does the horse differ from other species?. *Reproduction*, **2019**, 157, R181-R197	3.8	29
64	Validating reference microRNAs for normalizing qRT-PCR data in bovine oocytes and preimplantation embryos. *BMC Developmental Biology*, **2015**, 15, 25	3.1	26
63	Potential Health and Environmental Risks of Three-Dimensional Engineered Polymers. *Environmental Science and Technology Letters*, **2018**, 5, 80-85	11	26
62	Maternal age and in vitro culture affect mitochondrial number and function in equine oocytes and embryos. *Reproduction, Fertility and Development*, **2015**, 27, 957-68	1.8	25
61	Effect of pregnancy on endometrial expression of luteolytic pathway components in the mare. *Reproduction, Fertility and Development*, **2015**, 27, 834-45	1.8	25
60	Cryopreservation of equine embryos: current state-of-the-art. *Reproduction in Domestic Animals*, **2012**, 47 Suppl 3, 84-9	1.6	22
59	From Peptide Masses to Pregnancy Maintenance: A Comprehensive Proteomic Analysis of The Early Equine Embryo Secretome, Blastocoel Fluid, and Capsule. *Proteomics*, **2017**, 17, 1600433	4.8	20
58	Influence of the uterine environment on the development of in vitro-produced equine embryos. *Reproduction*, **2012**, 143, 173-81	3.8	20
57	Fibroblast growth factor-2 expression in the preimplantation equine conceptus and endometrium of pregnant and cyclic mares. *Theriogenology*, **2013**, 80, 979-89	2.8	18
56	Embryo-maternal communication during the first 4 weeks of equine pregnancy. *Theriogenology*, **2016**, 86, 349-54	2.8	17
55	Metabolomic profiles of bovine cumulus cells and cumulus-oocyte-complex-conditioned medium during maturation in vitro. *Scientific Reports*, **2018**, 8, 9477	4.9	17
54	An alkaline follicular fluid fraction induces capacitation and limited release of oviduct epithelium-bound stallion sperm. *Reproduction*, **2015**, 150, 193-208	3.8	15
53	Advanced mare age impairs the ability of in vitro-matured oocytes to correctly align chromosomes on the metaphase plate. *Equine Veterinary Journal*, **2019**, 51, 252-257	2.4	15
52	Combined addition of superoxide dismutase, catalase and glutathione peroxidase improves quality of cooled stored stallion semen. *Animal Reproduction Science*, **2019**, 210, 106195	2.1	14
51	Combined albumin and bicarbonate induces head-to-head sperm agglutination which physically prevents equine sperm-oviduct binding. *Reproduction*, **2016**, 151, 313-30	3.8	13
50	TACC3 Is Important for Correct Progression of Meiosis in Bovine Oocytes. *PLoS ONE*, **2015**, 10, e0132591	3.7	13
49	Vitrifying immature equine oocytes impairs their ability to correctly align the chromosomes on the MII spindle. *Reproduction, Fertility and Development*, **2019**,	1.8	12
48	Gastrulation and the establishment of the three germ layers in the early horse conceptus. *Theriogenology*, **2014**, 82, 354-65	2.8	12

47	Removal by laparoscopic partial ovariohysterectomy of a uterine leiomyoma assumed to have caused fetal death in a mare. *Equine Veterinary Education*, **2009**, 21, 198-203	0.6	12
46	Oestrogens and pregnancy maintenance in the mare: For or against?. *Pferdeheilkunde*, **2001**, 17, 579-582	1.8	12
45	Mitochondrial DNA replication is initiated at blastocyst formation in equine embryos. *Reproduction, Fertility and Development*, **2019**, 31, 570-578	1.8	10
44	MicroRNA Expression in Bovine Cumulus Cells in Relation to Oocyte Quality. *Non-coding RNA*, **2017**, 3,	7.1	10
43	Negative uterine asynchrony retards early equine conceptus development and upregulation of placental imprinted genes. *Placenta*, **2017**, 57, 175-182	3.4	10
42	Prostaglandin E(2) and F(2 alpha) production by equine conceptuses and concentrations in conceptus fluids and uterine flushings recovered from early pregnant and dioestrous mares. *Reproduction*, **2002**, 123, 261-8	3.8	10
41	Liquid storage of equine semen: Assessing the effect of d-penicillamine on longevity of ejaculated and epididymal stallion sperm. *Animal Reproduction Science*, **2015**, 159, 155-62	2.1	9
40	Cellular damage suffered by equine embryos after exposure to cryoprotectants or cryopreservation by slow-freezing or vitrification. *Equine Veterinary Journal*, **2015**, 47, 701-7	2.4	9
39	Exposure to elevated glucose concentrations alters the metabolomic profile of bovine blastocysts. *PLoS ONE*, **2018**, 13, e0199310	3.7	8
38	The effect of consignment to broodmare sales on physiological stress measured by faecal glucocorticoid metabolites in pregnant Thoroughbred mares. *BMC Veterinary Research*, **2014**, 10, 25	2.7	8
37	The Role of Conceptus-maternal Signalling in the Acquisition of Uterine Receptivity to Implantation in Mammals. *Reproduction in Domestic Animals*, **2015**, 50 Suppl 3, 7-14	1.6	8
36	Initiation of X Chromosome Inactivation during Bovine Embryo Development. *Cells*, **2020**, 9,	7.9	7
35	pH-dependent effects of procaine on equine gamete activation *Biology of Reproduction*, **2019**, 101, 1056-1074	3.9	7
34	Dystocia in Friesian mares: Prevalence, causes and outcome following caesarean section. *Equine Veterinary Education*, **2010**, 22, 190-195	0.6	7
33	Selection and management of the embryo transfer donor mare. *Pferdeheilkunde*, **2003**, 19, 685-688	1.8	7
32	Expression of leukaemia inhibitory factor at the conceptus?maternal interface during preimplantation development and in the endometrium during the oestrous cycle in the mare. *Reproduction, Fertility and Development*, **2015**,	1.8	6
31	PIWIL3 Forms a Complex with TDRKH in Mammalian Oocytes. *Cells*, **2020**, 9,	7.9	6
30	Expression of glucose transporters in the endometrium and early conceptus membranes of the horse. *Placenta*, **2018**, 68, 23-32	3.4	6

29	Effect of the duration of estradiol priming prior to progesterone administration on endometrial gene expression in anestrous mares. *Theriogenology*, **2019**, 131, 96-105	2.8	5
28	Effect of long-term overfeeding of a high-energy diet on glucose tolerance in Shetland pony mares. *Journal of Veterinary Internal Medicine*, **2020**, 34, 1339-1349	3.1	5
27	Effects of exogenous insulin on luteolysis and reproductive cyclicity in the mare. *Reproduction in Domestic Animals*, **2008**, 43, 422-8	1.6	5
26	In vitro-produced horse embryos exhibit a very narrow window of acceptable recipient mare uterine synchrony compared with in vivo-derived embryos. *Reproduction, Fertility and Development*, **2019**, 31, 1904-1911	1.8	5
25	Dual spindles assemble in bovine zygotes despite the presence of paternal centrosomes. *Journal of Cell Biology*, **2021**, 220,	7.3	5
24	The horse as a natural model to study reproductive aging-induced aneuploidy and weakened centromeric cohesion in oocytes. *Aging*, **2020**, 12, 22220-22232	5.6	4
23	Mare and stallion effects on blastocyst production in a commercial equine ovum pick-up-intracytoplasmic sperm injection program. *Reproduction, Fertility and Development*, **2019**, 31, 1894-1903	1.8	4
22	Monozygotic multiple pregnancies after transfer of single in vitro produced equine embryos. *Equine Veterinary Journal*, **2020**, 52, 258-261	2.4	4
21	Amino acid transporter expression in the endometrium and conceptus membranes during early equine pregnancy. *Reproduction, Fertility and Development*, **2018**, 30, 1675-1688	1.8	3
20	Spinal cord trauma in a recently foaled Friesian mare as a complication of ventral abdominal rupture. *Equine Veterinary Education*, **2007**, 19, 247-250	0.6	3
19	Non-rodent mammalian zygotes assemble dual spindles despite the presence of paternal centrosomes		3
18	Compromised MPS1 Activity Induces Multipolar Spindle Formation in Oocytes From Aged Mares: Establishing the Horse as a Natural Animal Model to Study Age-Induced Oocyte Meiotic Spindle Instability. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 657366	5.7	3
17	In vitro production of horse embryos predisposes to micronucleus formation, whereas time to blastocyst formation affects likelihood of pregnancy. *Reproduction, Fertility and Development*, **2019**, 31, 1830-1839	1.8	3
16	Small day 8 equine embryos cannot be rescued by a less advanced recipient mare uterus. *Theriogenology*, **2019**, 126, 36-40	2.8	3
15	Effect of a long-term high-energy diet on cardiovascular parameters in Shetland pony mares. *Journal of Veterinary Internal Medicine*, **2021**, 35, 2427-2436	3.1	3
14	The Effect of Different Flushing Media Used to Aspirate Follicles on the Outcome of a Commercial Ovum Pickup-ICSI Program in Mares. *Journal of Equine Veterinary Science*, **2019**, 75, 74-77	1.2	2
13	Speed of in vitro embryo development affects the likelihood of foaling and the foal sex ratio. *Reproduction, Fertility and Development*, **2020**, 32, 468-473	1.8	2
12	Asynchronous Embryo Transfer Followed by Comparative Transcriptomic Analysis of Conceptus Membranes and Endometrium Identifies Processes Important to the Establishment of Equine Pregnancy. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	1

11	Single-stage reconstruction of third-degree perineal lacerations in horses under general anesthesia: Utrecht repair method. *Veterinary Surgery*, **2019**, 48, 1299-1308	1.7	1
10	The diagnostic challenge of scrotal enlargement in the stallion. *Equine Veterinary Education*, **2015**, 27, 116-118	0.6	1
9	Lysophosphatidic Acid Accelerates Bovine In Vitro-Produced Blastocyst Formation through the Hippo/YAP Pathway. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
8	Overfeeding Extends the Period of Annual Cyclicity but Increases the Risk of Early Embryonic Death in Shetland Pony Mares. *Animals*, **2021**, 11,	3.1	1
7	Cellular Fragments in the Perivitelline Space Are Not a Predictor of Expanded Blastocyst Quality. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 616801	5.7	1
6	Success rate in a clinical equine in vitro embryo production program. *Theriogenology*, **2022**, 187, 215-215	2.8	1
5	Microinjection induces changes in the transcriptome of bovine oocytes. *Scientific Reports*, **2020**, 10, 11214	4.9	0
4	Bicarbonate-Stimulated Membrane Reorganization in Stallion Spermatozoa. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 772254	5.7	0
3	Failure to detect equid herpesvirus types 1 and 4 DNA in placentae and healthy new-born Thoroughbred foals. *Journal of the South African Veterinary Association*, **2019**, 90, e1-e5	0.8	
2	Horse **2018**, 667-673		
1	Indications for and how to perform Caslick's operation in the mare. *UK-Vet Equine*, **2022**, 6, 6-10	0.2	