Tom A E Stout

List of Publications by Year
in descending order

87 papers	2,059 citations	257101 24 h-index	276539 41 g-index
93 all docs	93 docs citations	93 times ranked	1994 citing authors

#	Article	IF	Citations
1	The Predictive Value of Semen Analysis in the Evaluation of Stallion Fertility. Reproduction in Domestic Animals, 2003, 38, 305-311.	0.6	136
2	Effects of In Vitro Production on Horse Embryo Morphology, Cytoskeletal Characteristics, and Blastocyst Capsule Formation. Biology of Reproduction, 2003, 69, 1895-1906.	1.2	115
3	An oviduct-on-a-chip provides an enhanced in vitro environment for zygote genome reprogramming. Nature Communications, 2018, 9, 4934.	5.8	93
4	Numerical chromosomal abnormalities in equine embryos produced in vivo and in vitro. Molecular Reproduction and Development, 2005, 72, 77-87.	1.0	70
5	Stage-specific formation of the equine blastocyst capsule is instrumental to hatching and to embryonic survival in vivo. Animal Reproduction Science, 2005, 87, 269-281.	0.5	68
6	Organisation of the cytoskeleton during in vitro maturation of horse oocytes. Molecular Reproduction and Development, 2001, 60, 260-269.	1.0	66
7	The roles of the epididymis and prostasomes in the attainment of fertilizing capacity by stallion sperm. Animal Reproduction Science, 2008, 107, 237-248.	0.5	65
8	Equine embryo transfer: review of developing potential. Equine Veterinary Journal, 2010, 38, 467-478.	0.9	61
9	Endometrial oxytocin receptor and uterine prostaglandin secretion in mares during the oestrous cycle and early pregnancy. Reproduction, 1998, 113, 173-179.	1.1	59
10	Designing 3-Dimensional In Vitro Oviduct Culture Systems to Study Mammalian Fertilization and Embryo Production. Annals of Biomedical Engineering, 2017, 45, 1731-1744.	1.3	56
11	Horse Y chromosome assembly displays unique evolutionary features and putative stallion fertility genes. Nature Communications, 2018, 9, 2945.	5.8	56
12	Effect of maturation stage at cryopreservation on post-thaw cytoskeleton quality and fertilizability of equine oocytes. Molecular Reproduction and Development, 2006, 73, 627-637.	1.0	54
13	Advancing maternal age predisposes to mitochondrial damage and loss during maturation of equine oocytes inÂvitro. Theriogenology, 2014, 81, 959-965.	0.9	51
14	Effect of cryopreservation on the cellular integrity of equine embryos. Reproduction, 2005, 129, 789-798.	1.1	49
15	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.	3.1	49
16	Progesterone induces acrosome reaction in stallion spermatozoa via a protein tyrosine kinase dependent pathway. Molecular Reproduction and Development, 2003, 64, 120-128.	1.0	48
17	Potential Health and Environmental Risks of Three-Dimensional Engineered Polymers. Environmental Science and Technology Letters, 2018, 5, 80-85.	3.9	45
18	Update on mammalian sperm capacitation: how much does the horse differ from other species?. Reproduction, 2019, 157, R181-R197.	1.1	45

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19	Oxytocin administration prolongs luteal function in cyclic mares. Reproduction, 1999, 116, 315-320.	1.1	41
20	Effect of pregnancy on endometrial expression of luteolytic pathway components in the mare. Reproduction, Fertility and Development, 2015, 27, 834.	0.1	35
21	Metabolomic profiles of bovine cumulus cells and cumulus-oocyte-complex-conditioned medium during maturation in vitro. Scientific Reports, 2018, 8, 9477.	1.6	35
22	Maternal age and in vitro culture affect mitochondrial number and function in equine oocytes and embryos. Reproduction, Fertility and Development, 2015, 27, 957.	0.1	32
23	Validating reference microRNAs for normalizing qRT-PCR data in bovine oocytes and preimplantation embryos. BMC Developmental Biology, 2015, 15, 25.	2.1	29
24	From Peptide Masses to Pregnancy Maintenance: A Comprehensive Proteomic Analysis of The Early Equine Embryo Secretome, Blastocoel Fluid, and Capsule. Proteomics, 2017, 17, 1600433.	1.3	29
25	Advanced mare age impairs the ability of inÂvitroâ€matured oocytes to correctly align chromosomes on the metaphase plate. Equine Veterinary Journal, 2019, 51, 252-257.	0.9	28
26	Cryopreservation of Equine Embryos: Current Stateâ€ofâ€theâ€Art. Reproduction in Domestic Animals, 2012, 47, 84-89.	0.6	24
27	Embryoâ€“maternal communication during the first 4Âweeks ofÂequine pregnancy. Theriogenology, 2016, 86, 349-354.	0.9	24
28	Dual spindles assemble in bovine zygotes despite the presence of paternal centrosomes. Journal of Cell Biology, 2021, 220, .	2.3	23
29	Influence of the uterine environment on the development of in vitro-produced equine embryos. Reproduction, 2012, 143, 173-181.	1.1	20
30	Fibroblast growth factor-2 expression in the preimplantation equine conceptus and endometrium of pregnant and cyclic mares. Theriogenology, 2013, 80, 979-989.	0.9	20
31	Combined addition of superoxide dismutase, catalase and glutathione peroxidase improves quality of cooled stored stallion semen. Animal Reproduction Science, 2019, 210, 106195.	0.5	19
32	An alkaline follicular fluid fraction induces capacitation and limited release of oviduct epithelium-bound stallion sperm. Reproduction, 2015, 150, 193-208.	1.1	18
33	Success rate in a clinical equine inÂvitro embryo production program. Theriogenology, 2022, 187, 215-218.	0.9	18
34	MicroRNA Expression in Bovine Cumulus Cells in Relation to Oocyte Quality. Non-coding RNA, 2017, 3, 12.	1.3	17
35	Vitrifying immature equine oocytes impairs their ability to correctly align the chromosomes on the MII spindle. Reproduction, Fertility and Development, 2019, 31, 1330.	0.1	17
36	Mitochondrial DNA replication is initiated at blastocyst formation in equine embryos. Reproduction, Fertility and Development, 2019, 31, 570.	0.1	17

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37	Gastrulation and the establishment of the three germ layers in the early horse conceptus. Theriogenology, 2014, 82, 354-365.	0.9	16
38	TACC3 Is Important for Correct Progression of Meiosis in Bovine Oocytes. PLoS ONE, 2015, 10, e0132591.	1.1	16
39	Liquid storage of equine semen: Assessing the effect of d-penicillamine on longevity of ejaculated and epididymal stallion sperm. Animal Reproduction Science, 2015, 159, 155-162.	0.5	16
40	Combined albumin and bicarbonate induces head-to-head sperm agglutination which physically prevents equine spermâ€“oviduct binding. Reproduction, 2016, 151, 313-330.	1.1	16
41	Initiation of X Chromosome Inactivation during Bovine Embryo Development. Cells, 2020, 9, 1016.	1.8	16
42	Expression of glucose transporters in the endometrium and early conceptus membranes of the horse. Placenta, 2018, 68, 23-32.	0.7	15
43	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.	0.3	14
44	Cellular damage suffered by equine embryos after exposure to cryoprotectants or cryopreservation by slowâ€freezing or vitrification. Equine Veterinary Journal, 2015, 47, 701-707.	0.9	14
45	Negative uterine asynchrony retards early equine conceptus development and upregulation of placental imprinted genes. Placenta, 2017, 57, 175-182.	0.7	14
46	Exposure to elevated glucose concentrations alters the metabolomic profile of bovine blastocysts. PLoS ONE, 2018, 13, e0199310.	1.1	13
47	Mare and stallion effects on blastocyst production in a commercial equine ovum pick-upâ€“intracytoplasmic sperm injection program. Reproduction, Fertility and Development, 2019, 31, 1894.	0.1	13
48	Monozygotic multiple pregnancies after transfer of single in vitro produced equine embryos. Equine Veterinary Journal, 2020, 52, 258-261.	0.9	13
49	Amino acid transporter expression in the endometrium and conceptus membranes during early equine pregnancy. Reproduction, Fertility and Development, 2018, 30, 1675.	0.1	12
50	PIWIL3 Forms a Complex with TDRKH in Mammalian Oocytes. Cells, 2020, 9, 1356.	1.8	12
51	pH-dependent effects of procaine on equine gamete activationâ€. Biology of Reproduction, 2019, 101, 1056-1074.	1.2	11
52	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.	0.1	11
53	The horse as a natural model to study reproductive aging-induced aneuploidy and weakened centromeric cohesion in oocytes. Aging, 2020, 12, 22220-22232.	1.4	11
54	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.	1.1	11

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55	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.	0.7	10
56	The Role of Conceptusâ€“maternal Signalling in the Acquisition of Uterine Receptivity to Implantation in Mammals. Reproduction in Domestic Animals, 2015, 50, 7-14.	0.6	10
57	Expression of leukaemia inhibitory factor at the conceptusâ€“maternal interface during preimplantation development and in the endometrium during the oestrous cycle in the mare. Reproduction, Fertility and Development, 2016, 28, 1642.	0.1	10
58	Effect of longâ€term overfeeding of a highâ€energy diet on glucose tolerance in Shetland pony mares. Journal of Veterinary Internal Medicine, 2020, 34, 1339-1349.	0.6	10
59	Dystocia in Friesian mares: Prevalence, causes and outcome following caesarean section. Equine Veterinary Education, 2010, 22, 190-195.	0.3	9
60	Effect of the duration of estradiol priming prior to progesterone administration on endometrial gene expression in anestrous mares. Theriogenology, 2019, 131, 96-105.	0.9	9
61	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.	0.1	9
62	Speed of in vitro embryo development affects the likelihood of foaling and the foal sex ratio. Reproduction, Fertility and Development, 2020, 32, 468.	0.1	8
63	Small day 8 equine embryos cannot be rescued by a less advanced recipient mare uterus. Theriogenology, 2019, 126, 36-40.	0.9	7
64	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, 2562.	1.8	7
65	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.	1.8	7
66	Effects of Exogenous Insulin on Luteolysis and Reproductive Cyclicity in the Mare. Reproduction in Domestic Animals, 2008, 43, 422-428.	0.6	6
67	Clinical insights: Assisted reproductive technologies. Equine Veterinary Journal, 2019, 51, 427-428.	0.9	6
68	Report of the <scp>H</scp>avemeyer <scp>F</scp>oundation <scp>W</scp>orkshop on <scp>E</scp>quine <scp>I</scp>mplantation: Is early pregnancy loss the only important potential consequence of disturbed preimplantation development?. Equine Veterinary Journal, 2015, 47, 381-383.	0.9	5
69	Overfeeding Extends the Period of Annual Cyclicity but Increases the Risk of Early Embryonic Death in Shetland Pony Mares. Animals, 2021, 11, 361.	1.0	5
70	Effect of a longâ€term highâ€energy diet on cardiovascular parameters in Shetland pony mares. Journal of Veterinary Internal Medicine, 2021, 35, 2427-2436.	0.6	5
71	Spinal cord trauma in a recently foaled Friesian mare as a complication of ventral abdominal rupture. Equine Veterinary Education, 2007, 19, 247-250.	0.3	4
72	Lysophosphatidic Acid Accelerates Bovine In Vitro-Produced Blastocyst Formation through the Hippo/YAP Pathway. International Journal of Molecular Sciences, 2021, 22, 5915.	1.8	4

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73	Reverse transcription priming methods affect normalisation choices for gene expression levels in oocytes and early embryos. Molecular Human Reproduction, 2021, 27, .	1.3	4
74	Cellular Fragments in the Perivitelline Space Are Not a Predictor of Expanded Blastocyst Quality. Frontiers in Cell and Developmental Biology, 2020, 8, 616801.	1.8	4
75	The Effect of Different Flushing Media Used to Aspirate Follicles on the Outcome of a Commercial Ovum Pickupâ€“ICSI Program in Mares. Journal of Equine Veterinary Science, 2019, 75, 74-77.	0.4	3
76	Microinjection induces changes in the transcriptome of bovine oocytes. Scientific Reports, 2020, 10, 11211.	1.6	3
77	Bicarbonate-Stimulated Membrane Reorganization in Stallion Spermatozoa. Frontiers in Cell and Developmental Biology, 2021, 9, 772254.	1.8	3
78	A Modified Flotation Density Gradient Centrifugation Technique Improves the Semen Quality of Stallions with a High DNA Fragmentation Index. Animals, 2021, 11, 1973.	1.0	2
79	Effect of Overfeeding Shetland Pony Mares on Embryonic Glucose and Lipid Accumulation, and Expression of Imprinted Genes. Animals, 2021, 11, 2504.	1.0	2
80	The diagnostic challenge of scrotal enlargement in the stallion. Equine Veterinary Education, 2015, 27, 116-118.	0.3	1
81	Singleâ€stage reconstruction of thirdâ€degree perineal lacerations in horses under general anesthesia: Utrecht repair method. Veterinary Surgery, 2019, 48, 1299-1308.	0.5	1
82	Clinical insights: Assisted reproductive techniques: More than a solution to subfertility?. Equine Veterinary Journal, 2021, 53, 1084-1087.	0.9	1
83	Developing a reproducible protocol for culturing functional confluent monolayers of differentiated equine oviduct epithelial cells. Biology of Reproduction, 2021, , .	1.2	1
84	Horse. , 2018, , 667-673.		0
85	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.	0.2	0
86	Indications for and how to perform Caslick's operation in the mare. UK-Vet Equine, 2022, 6, 6-10.	0.1	0
87	WR 'Twink' Allen: A career revolutionising the study and practice of equine reproduction. Equine Veterinary Journal, 2022, 54, 5-10.	0.9	0