Barry A Ball

List of Publications by Year
in descending order

118 papers	3,215 citations	201674 27 h-index	175258 52 g-index
122 all docs	122 docs citations	122 times ranked	2105 citing authors

#	Article	IF	Citations
1	Reactive Oxygen Species and Cryopreservation Promote DNA Fragmentation in Equine Spermatozoa. Journal of Andrology, 2003, 24, 621-628.	2.0	246
2	Oxidative stress, osmotic stress and apoptosis: Impacts on sperm function and preservation in the horse. Animal Reproduction Science, 2008, 107, 257-267.	1.5	215
3	The effect of reactive oxygen species on equine sperm motility, viability, acrosomal integrity, mitochondrial membrane potential, and membrane lipid peroxidation. Journal of Andrology, 2000, 21, 895-902.	2.0	175
4	Assessment of equine sperm mitochondrial function using JC-1. Theriogenology, 2000, 53, 1691-1703.	2.1	144
5	Osmotic Tolerance of Equine Spermatozoa and the Effects of Soluble Cryoprotectants on Equine Sperm Motility, Viability, and Mitochondrial Membrane Potential. Journal of Andrology, 2001, 22, 1061-1069.	2.0	139
6	Membrane Contact with Oviductal Epithelium Modulates the Intracellular Calcium Concentration of Equine Spermatozoa in Vitro1. Biology of Reproduction, 1997, 56, 861-869.	2.7	123
7	Interaction of Equine Spermatozoa with Oviduct Epithelial Cell Explants is Affected by Estrous Cycle and Anatomic Origin of Explant1. Biology of Reproduction, 1994, 51, 222-228.	2.7	105
8	Survival of Day-4 embryos from young, normal mares and aged, subfertile mares after transfer to normal recipient mares. Reproduction, 1989, 85, 187-194.	2.6	102
9	Reactive oxygen species promote tyrosine phosphorylation and capacitation in equine spermatozoa. Theriogenology, 2003, 60, 1239-1247.	2.1	100
10	Pregnancy rates at Days 2 and 14 and estimated embryonic loss rates prior to day 14 in normal and subfertile mares. Theriogenology, 1986, 26, 611-619.	2.1	91
11	Biological and clinical significance of anti-MÃ¼llerian hormone determination in blood serum of the mare. Theriogenology, 2011, 76, 1393-1403.	2.1	77
12	Expression of anti-MÃ¼llerian hormone (AMH) in equine granulosa-cell tumors and in normal equine ovaries. Theriogenology, 2008, 70, 968-977.	2.1	64
13	Determination of serum antiâ€MÃ¼llerian hormone concentrations for the diagnosis of granulosaâ€cell tumours in mares. Equine Veterinary Journal, 2013, 45, 199-203.	1.7	59
14	Serum anti-MÃ¼llerian hormone concentrations in stallions: Developmental changes, seasonal variation, and differences betweenÂintact stallions, cryptorchid stallions, and geldings. Theriogenology, 2013, 79, 1229-1235.	2.1	59
15	Embryonic Loss in Mares: Incidence, Possible Causes, and Diagnostic Considerations. Veterinary Clinics of North America Equine Practice, 1988, 4, 263-290.	0.7	58
16	Apoptotic-like changes in equine spermatozoa separated by density-gradient centrifugation or after cryopreservation. Theriogenology, 2008, 69, 1041-1055.	2.1	58
17	Pregnancy without progesterone in horses defines a second endogenous biopotent progesterone receptor agonist, 5Î±-dihydroprogesterone. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3365-3370.	7.1	53
18	Serum Amyloid A and Haptoglobin Concentrations are Increased in Plasma of Mares with Ascending Placentitis in the Absence of Changes in Peripheral Leukocyte Counts or Fibrinogen Concentration. American Journal of Reproductive Immunology, 2014, 72, 376-385.	1.2	52

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19	The dynamic steroid landscape of equine pregnancy mapped by mass spectrometry. Reproduction, 2016, 151, 421-430.	2.6	49
20	The interrelationship between antiâ€‹<scp>M</scp>Ã¼llerian hormone, ovarian follicular populations and age in mares. Equine Veterinary Journal, 2015, 47, 537-541.	1.7	41
21	Equine fetal adrenal, gonadal and placental steroidogenesis. Reproduction, 2017, 154, 445-454.	2.6	37
22	Expression of anti-MÃ¼llerian hormone (AMH) in the equine testis. Theriogenology, 2008, 69, 624-631.	2.1	34
23	Changes in maternal androgens and oestrogens in mares with experimentallyâ€induced ascending placentitis. Equine Veterinary Journal, 2017, 49, 244-249.	1.7	33
24	Expression of receptors for ovarian steroids and prostaglandin E2 in the endometrium and myometrium of mares during estrus, diestrus and early pregnancy. Animal Reproduction Science, 2014, 151, 169-181.	1.5	32
25	Alpha-fetoprotein is present in the fetal fluids and is increased in plasma of mares with experimentally induced ascending placentitis. Animal Reproduction Science, 2015, 154, 48-55.	1.5	32
26	Detection of lipid peroxidation in equine spermatozoa based upon the lipophilic fluorescent dye C1l-BODIPY581/591. Journal of Andrology, 2002, 23, 259-69.	2.0	32
27	Steroids in the establishment and maintenance of pregnancy and at parturition in the mare. Reproduction, 2019, 158, R197-R208.	2.6	30
28	Patterns of growth and regression of ovarian follicles during the oestrous cycle and after hemiovariectomy in mares. Equine Veterinary Journal, 1989, 21, 43-48.	1.7	28
29	Expression of steroidogenic enzymes during equine testicular development. Reproduction, 2011, 141, 841-848.	2.6	26
30	Expression of anti-MÃ¼llerian hormone, cyclin-dependent kinase inhibitor (CDKN1B), androgen receptor, and connexin 43 in equine testes during puberty. Theriogenology, 2012, 77, 847-857.	2.1	26
31	Characterization of prostaglandin E2 receptors (EP2, EP4) in the horse oviduct. Animal Reproduction Science, 2013, 142, 35-41.	1.5	25
32	The effect of select seminal plasma proteins on endometrial <scp>mRNA</scp> cytokine expression in mares susceptible to persistent matingâ€induced endometritis. Reproduction in Domestic Animals, 2017, 52, 89-96.	1.4	25
33	Steroidogenic enzyme activities in the pre- and post-parturient equine placenta. Reproduction, 2018, 155, 51-59.	2.6	24
34	Decreasing pH of mammary gland secretions is associated with parturition and is correlated with electrolyte concentrations in prefoaling mares. Veterinary Record, 2013, 173, 218-218.	0.3	23
35	Kinetics of the chromosome 14 microRNA cluster ortholog and its potential role during placental development in the pregnant mare. BMC Genomics, 2018, 19, 954.	2.8	23
36	Expression of antiâ€‹<scp>M</scp>Ã¼llerian hormone, <scp>CDKN1B</scp>, connexin 43, androgen receptor and steroidogenic enzymes in the equine cryptorchid testis. Equine Veterinary Journal, 2013, 45, 538-545.	1.7	22

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37	Endocrine changes, fetal growth, and uterine artery hemodynamics after chronic estrogen suppression during the last trimester of equine pregnancyâ€. Biology of Reproduction, 2017, 96, 414-423.	2.7	22
38	The anti-inflammatory effect of exogenous lactoferrin on breeding-induced endometritis when administered post-breeding in susceptible mares. Theriogenology, 2018, 114, 63-69.	2.1	21
39	Lipidomics of equine amniotic fluid: Identification of amphiphilic (O-acyl)-Ï‰-hydroxy-fatty acids. Theriogenology, 2018, 105, 120-125.	2.1	21
40	A comparison of progesterone assays for determination of peripheral pregnane concentrations in the late pregnant mare. Theriogenology, 2018, 106, 127-133.	2.1	21
41	Progestin withdrawal at parturition in the mare. Reproduction, 2016, 152, 323-331.	2.6	19
42	The influence of age, antral follicle count and diestrous ovulations on estrous cycle characteristics of mares. Theriogenology, 2017, 97, 34-40.	2.1	19
43	Cellular localization of androgen synthesis in equine granulosa-theca cell tumors: Immunohistochemical expression of 17Î±-hydroxylase/17,20-lyase cytochrome P450. Theriogenology, 2010, 74, 393-401.	2.1	17
44	How to Perform Transabdominal Ultrasound-Guided Fetal Fluid Sampling in Mares. Journal of Equine Veterinary Science, 2014, 34, 1143-1147.	0.9	17
45	Molecular changes in the equine follicle in relation to variations in antral follicle count and antiâ€MÃ¼llerian hormone concentrations. Equine Veterinary Journal, 2016, 48, 741-748.	1.7	17
46	Cytofluorescent assay to quantify adhesion of equine spermatozoa to oviduct epithelial cells in vitro. Molecular Reproduction and Development, 1996, 43, 55-61.	2.0	16
47	Attempts to induce nocardioform placentitis (<i><scp>C</scp>rossiela equi</i>) experimentally in mares. Equine Veterinary Journal, 2015, 47, 91-95.	1.7	16
48	The fetoâ€maternal immune response to equine placentitis. American Journal of Reproductive Immunology, 2019, 82, e13179.	1.2	15
49	Characterization of the placental transcriptome through mid to late gestation in the mare. PLoS ONE, 2019, 14, e0224497.	2.5	15
50	Hormone-responsive organoids from domestic mare and endangered Przewalskiâ€™s horse endometrium. Reproduction, 2020, 160, 819-831.	2.6	15
51	Equine 5Î±-reductase activity and expression in epididymis. Journal of Endocrinology, 2016, 231, 23-33.	2.6	14
52	The proteome of fetal fluids in mares with experimentally-induced placentitis. Placenta, 2018, 64, 71-78.	1.5	14
53	Equine granulosa cell tumours among other ovarian conditions: Diagnostic challenges. Equine Veterinary Journal, 2021, 53, 60-70.	1.7	14
54	A Retrospective Analysis of 2,253 Cases Submitted for Endocrine Diagnosis of Possible Granulosa Cell Tumors in Mares. Journal of Equine Veterinary Science, 2014, 34, 307-313.	0.9	13

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55	Use of a Qualitative Horse-Side Test to Measure SerumÂAmyloid A in Mares With Experimentally InducedÂAscending Placentitis. Journal of Equine Veterinary Science, 2015, 35, 54-59.	0.9	13
56	Characterization of the cervical mucus plug in mares. Reproduction, 2017, 153, 197-210.	2.6	13
57	Serum Anti-MÃ¼llerian Hormone Concentrations in Mares With Granulosa Cell Tumors Versus Other Ovarian Abnormalities. Journal of Equine Veterinary Science, 2018, 60, 6-10.	0.9	13
58	Identification of Reference Genes for Analysis of microRNA Expression Patterns in Equine Chorioallantoic Membrane and Serum. Molecular Biotechnology, 2018, 60, 62-73.	2.4	13
59	Changes in maternal pregnane concentrations in mares with experimentally-induced, ascending placentitis. Theriogenology, 2018, 122, 130-136.	2.1	13
60	Relationship between anti-MÃ¼llerian hormone and fertility in the mare. Theriogenology, 2019, 125, 335-341.	2.1	13
61	Effects of a GnRH cytotoxin on reproductive function in peripubertal male dogs. Theriogenology, 2006, 66, 766-774.	2.1	12
62	Biological Functions and Clinical Applications of Anti-MÃ¼llerian Hormone in Stallions and Mares. Veterinary Clinics of North America Equine Practice, 2016, 32, 451-464.	0.7	12
63	Concentrations of sulphated estrone, estradiol and dehydroepiandrosterone measured by mass spectrometry in pregnant mares. Equine Veterinary Journal, 2019, 51, 802-808.	1.7	12
64	Expression Profile of the Chromosome 14 MicroRNA Cluster (C14MC) Ortholog in Equine Maternal Circulation throughout Pregnancy and Its Potential Implications. International Journal of Molecular Sciences, 2019, 20, 6285.	4.1	12
65	Alterations in T cell-related transcripts at the feto-maternal interface throughout equine gestation. Placenta, 2020, 89, 78-87.	1.5	12
66	Evaluation of circulating miRNAs during late pregnancy in the mare. PLoS ONE, 2017, 12, e0175045.	2.5	12
67	Estrogens Regulate Placental Angiogenesis in Horses. International Journal of Molecular Sciences, 2021, 22, 12116.	4.1	12
68	Alteration of the mare's immune system by the synthetic progestin, altrenogest. American Journal of Reproductive Immunology, 2019, 82, e13145.	1.2	11
69	Equine placentitis is associated with a downregulation in myometrial progestin signaling. Biology of Reproduction, 2019, 101, 162-176.	2.7	11
70	Uterine cervix as a fundamental part of the pathogenesis of pregnancy loss associated with ascending placentitis in mares. Theriogenology, 2020, 145, 167-175.	2.1	11
71	Equine hydrallantois is associated with impaired angiogenesis in the placenta. Placenta, 2020, 93, 101-112.	1.5	11
72	Transcriptomic analysis reveals the key regulators and molecular mechanisms underlying myometrial activation during equine placentitisâ€. Biology of Reproduction, 2020, 102, 1306-1325.	2.7	11

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73	Uterus unicornis in two mares. Australian Veterinary Journal, 2007, 85, 371-374.	1.1	10
74	Current methods for the diagnosis and management of twin pregnancy in the mare. Equine Veterinary Education, 2008, 20, 493-502.	0.6	10
75	Transcriptomic analysis of equine placenta reveals key regulators and pathways involved in ascending placentitisâ€. Biology of Reproduction, 2021, 104, 638-656.	2.7	9
76	Parental bias in expression and interaction of genes in the equine placenta. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
77	The imbalance of the Th17/Treg axis following equine ascending placental infection. Journal of Reproductive Immunology, 2021, 144, 103268.	1.9	9
78	Steroid synthesis and metabolism in the equine placenta during placentitis. Reproduction, 2020, 159, 289-302.	2.6	9
79	Unilateral testicular mastocytoma in a Peruvian Paso stallion. Equine Veterinary Education, 2008, 20, 172-175.	0.6	8
80	Use of a Single-Layer Density Centrifugation Method Enhances Sperm Quality in Cryopreservedâ€"Thawed Equine Spermatozoa. Journal of Equine Veterinary Science, 2013, 33, 547-551.	0.9	8
81	Inhibin-A and inhibin-B in cyclic and pregnant mares, and mares with granulosa-theca cell tumors: Physiological and diagnostic implications. Theriogenology, 2018, 108, 192-200.	2.1	8
82	Landscape of Overlapping Gene Expression in the Equine Placenta. Genes, 2019, 10, 503.	2.4	8
83	Small RNA (sRNA) expression in the chorioallantois, endometrium and serum of mares following experimental induction of placentitis. Reproduction, Fertility and Development, 2019, 31, 1144.	0.4	8
84	Transcriptomic analysis of equine chorioallantois reveals immune networks and molecular mechanisms involved in nocardioform placentitis. Veterinary Research, 2021, 52, 103.	3.0	8
85	Characterisation of lymphocyte subsets in the equine oviduct. Equine Veterinary Journal, 2010, 38, 214-218.	1.7	7
86	Age and season affect serum testosterone concentrations in cryptorchid stallions. Veterinary Record, 2013, 173, 168-168.	0.3	7
87	Reversible downregulation of the hypothalamic-pituitary-gonadal axis in stallions with a novel GnRH antagonist. Theriogenology, 2016, 86, 2272-2280.	2.1	7
88	Kinetics of placenta-specific 8 (PLAC8) in equine placenta during pregnancy and placentitis. Theriogenology, 2021, 160, 81-89.	2.1	7
89	Clinical, pathologic, and epidemiologic features of nocardioform placentitis in the mare. Theriogenology, 2021, 171, 155-161.	2.1	7
90	Inhibition of 5Î±-reductase alters pregnane metabolism in the late pregnant mare. Reproduction, 2018, 155, 251-258.	2.6	5

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91	5Î±-dihydroprogesterone concentrations and synthesis in non-pregnant mares. Journal of Endocrinology, 2018, 238, 25-32.	2.6	5
92	A High Protein Model Alters the Endometrial Transcriptome of Mares. Genes, 2019, 10, 576.	2.4	5
93	Fetal-fluid proteome analyses in late-term healthy pregnant mares and in mares with experimentally induced ascending placentitis. Reproduction, Fertility and Development, 2019, 31, 1486.	0.4	5
94	Relationships between blood and follicular fluid urea nitrogen concentrations and between blood urea nitrogen and embryo survival in mares. Theriogenology, 2021, 160, 142-150.	2.1	5
95	Paternally expressed retrotransposon Gag-like 1 gene, RTL1, is one of the crucial elements for placental angiogenesis in horses. Biology of Reproduction, 2021, 104, 1386-1399.	2.7	5
96	Equine cervical remodeling during placentitis and the prepartum period: a transcriptomic approach. Reproduction, 2021, 161, 603-621.	2.6	5
97	Uterine B cell lymphoma in a mare. Equine Veterinary Education, 2015, 27, e5.	0.6	4
98	Sex-steroid receptors, prostaglandin E2 receptors, and cyclooxygenase in the equine cervix during estrus, diestrus and pregnancy: Gene expression and cellular localization. Animal Reproduction Science, 2017, 187, 141-151.	1.5	4
99	The Effect of Mycobacterium Cell Wall Fraction on Histologic, Immunologic, and Clinical Parameters of Postpartum Involution in the Mare. Journal of Equine Veterinary Science, 2020, 90, 103013.	0.9	4
100	Alterations of Circulating Biomarkers During Late Term Pregnancy Complications in the Horse Part I: Cytokines. Journal of Equine Veterinary Science, 2021, 99, 103425.	0.9	4
101	Extraction of RNA from formalinâ€fixed, paraffinâ€embedded equine placenta. Reproduction in Domestic Animals, 2019, 54, 627-634.	1.4	3
102	Inhibin-A and Inhibin-B in stallions: Seasonal changes and changes after down-regulation of the hypothalamic-pituitary-gonadal axis. Theriogenology, 2019, 123, 108-115.	2.1	3
103	Elevated blood urea nitrogen alters the transcriptome of equine embryos. Reproduction, Fertility and Development, 2020, 32, 1239.	0.4	3
104	Interleukinâ€6 pathobiology in equine placental infection. American Journal of Reproductive Immunology, 2021, 85, e13363.	1.2	3
105	Serum amyloid A, Serum Amyloid A1 and Haptoglobin in pregnant mares and their fetuses after experimental induction of placentitis. Animal Reproduction Science, 2021, 229, 106766.	1.5	3
106	Acute phase proteins and total leukocyte counts in blood of mares with experimentally induced ascending placentitis. Journal of Equine Veterinary Science, 2014, 34, 215.	0.9	2
107	Transcriptomic Analysis of the Chorioallantois from Mares with Nocardioform Placentitis. Journal of Equine Veterinary Science, 2018, 66, 231.	0.9	2
108	Immunolocalization of anti-MÃ¼llerian Hormone and Its Receptor in Granulosa Cell Tumors in Mares. Journal of Equine Veterinary Science, 2019, 74, 9-12.	0.9	2

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109	Alterations of Circulating Biomarkers During Late Term Pregnancy Complications in the Horse Part II: Steroid Hormones and Alpha-Fetoprotein. Journal of Equine Veterinary Science, 2021, 99, 103395.	0.9	2
110	Cytofluorescent assay to quantify adhesion of equine spermatozoa to oviduct epithelial cells in vitro. Molecular Reproduction and Development, 1996, 43, 55-61.	2.0	2
111	Transcriptomic analysis of the chorioallantois in equine premature placental separation. Equine Veterinary Journal, 2023, 55, 405-418.	1.7	2
112	Tumor necrosis factor signaling during equine placental infection leads to pro-apoptotic and necroptotic outcomes. Journal of Reproductive Immunology, 2022, 152, 103655.	1.9	2
113	Reciprocal Paternal and Maternal Control of Angiogenesis in Equine Chorioallantois. Journal of Equine Veterinary Science, 2018, 66, 224.	0.9	1
114	Changes in circulating concentrations of testosterone and estrone sulfate after human chorionic gonadotropin administration and subsequent to castration of 2-year-old stallions. Animal Reproduction Science, 2021, 225, 106670.	1.5	1
115	Steroidogenic Enzyme and Steroid Receptor Expression in the Equine Accessory Sex Glands. Animals, 2021, 11, 2322.	2.3	1
116	Effect of oral urea supplementation on the endometrial transcriptome of mares. Animal Reproduction Science, 2020, 216, 106464.	1.5	0
117	Use of Tubo-Ovarian Ligation Via Colpotomy as A Potential Method for Sterilization in Mares. Journal of Equine Veterinary Science, 2021, 104, 103683.	0.9	0
118	Development and Use of an Enzyme-Linked Immunosorbent Assay to Determine Temporal Exposure Patterns to Putative Agents of Nocardioform Placentitis. Journal of Equine Veterinary Science, 2021, , 103826.	0.9	0