

Eduardo Gastal

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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.

129
papers

2,654
citations

28
h-index

43
g-index

142
ext. papers

2,985
ext. citations

2.5
avg, IF

4.75
L-index

#	Paper	IF	Citations
129	Comparative study of the dynamics of follicular waves in mares and women. <i>Biology of Reproduction</i> , 2004 , 71, 1195-201	3.9	120
128	Role of diameter differences among follicles in selection of a future dominant follicle in mares. <i>Biology of Reproduction</i> , 1997 , 57, 1320-7	3.9	114
127	Systemic concentrations of hormones during the development of follicular waves in mares and women: a comparative study. <i>Reproduction</i> , 2005 , 130, 379-88	3.8	99
126	Regulation of circulating gonadotropins by the negative effects of ovarian hormones in mares. <i>Biology of Reproduction</i> , 2005 , 73, 315-23	3.9	85
125	Changes in vascular perfusion of the endometrium in association with changes in location of the embryonic vesicle in mares. <i>Biology of Reproduction</i> , 2005 , 72, 755-61	3.9	72
124	Luteal blood flow and progesterone production in mares. <i>Animal Reproduction Science</i> , 2007 , 99, 213-20	2.1	68
123	Follicle deviation and intrafollicular and systemic estradiol concentrations in mares. <i>Biology of Reproduction</i> , 1999 , 61, 31-9	3.9	68
122	Relationships of changes in B-mode echotexture and colour-Doppler signals in the wall of the preovulatory follicle to changes in systemic oestradiol concentrations and the effects of human chorionic gonadotrophin in mares. <i>Reproduction</i> , 2006 , 131, 699-709	3.8	64
121	Role of luteinizing hormone in follicle deviation based on manipulating progesterone concentrations in mares. <i>Biology of Reproduction</i> , 1999 , 61, 1492-8	3.9	63
120	In vitro culture of bovine preantral follicles: a review. <i>Reproductive Biology and Endocrinology</i> , 2014 , 12, 78	5	62
119	Relationship of vascular perfusion of the wall of the preovulatory follicle to in vitro fertilisation and embryo development in heifers. <i>Reproduction</i> , 2009 , 137, 689-97	3.8	52
118	Temporal relationships and repeatability of follicle diameters and hormone concentrations within individuals in mares. <i>Reproduction in Domestic Animals</i> , 2009 , 44, 92-9	1.6	50
117	Incidence, Endocrinology, Vascularity, and Morphology of Hemorrhagic Anovulatory Follicles in Mares. <i>Journal of Equine Veterinary Science</i> , 2007 , 27, 130-139	1.2	44
116	Experimental assumption of dominance by a smaller follicle and associated hormonal changes in mares. <i>Biology of Reproduction</i> , 1999 , 61, 724-30	3.9	42
115	The suitability of echotexture characteristics of the follicular wall for identifying the optimal breeding day in mares. <i>Theriogenology</i> , 1998 , 50, 1025-38	2.8	40
114	Differential blood flow changes between the future dominant and subordinate follicles precede diameter changes during follicle selection in mares. <i>Biology of Reproduction</i> , 2004 , 71, 502-7	3.9	39
113	Effect of prostaglandin F2alpha on ovarian, adrenal, and pituitary hormones and on luteal blood flow in mares. <i>Domestic Animal Endocrinology</i> , 2007 , 32, 315-28	2.3	38

112	Negative effect of estradiol on luteinizing hormone throughout the ovulatory luteinizing hormone surge in mares. <i>Biology of Reproduction</i> , 2007 , 77, 543-50	3.9	36
111	Temporal interrelationships among luteolysis, FSH and LH concentrations and follicle deviation in mares. <i>Theriogenology</i> , 2000 , 53, 925-40	2.8	36
110	Effect of embryo age and recipient asynchrony on pregnancy rates in a commercial equine embryo transfer program. <i>Theriogenology</i> , 2012 , 77, 1159-66	2.8	33
109	Dose-response study of intrafollicular injection of insulin-like growth factor-I on follicular fluid factors and follicle dominance in mares. <i>Biology of Reproduction</i> , 2004 , 70, 1063-9	3.9	33
108	Uterine blood flow and perfusion in mares with uterine cysts: effect of the size of the cystic area and age. <i>Reproduction</i> , 2008 , 135, 541-50	3.8	32
107	Effects of age on follicle and hormone dynamics during the oestrous cycle in mares. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 955-63	1.8	32
106	Response of estradiol and inhibin to experimentally reduced luteinizing hormone during follicle deviation in mares. <i>Biology of Reproduction</i> , 2001 , 65, 426-32	3.9	31
105	The Mare Model to Study the Effects of Ovarian Dynamics on Preantral Follicle Features. <i>PLoS ONE</i> , 2016 , 11, e0149693	3.7	31
104	Critical role of insulin-like growth factor system in follicle selection and dominance in mares. <i>Biology of Reproduction</i> , 2004 , 70, 1374-9	3.9	30
103	In vitro development of bovine secondary follicles in two- and three-dimensional culture systems using vascular endothelial growth factor, insulin-like growth factor-1, and growth hormone. <i>Theriogenology</i> , 2014 , 82, 1246-53	2.8	29
102	Number and density of equine preantral follicles in different ovarian histological section thicknesses. <i>Theriogenology</i> , 2015 , 83, 1048-55	2.8	28
101	Relationships of follicle versus oocyte maturity to ultrasound morphology, blood flow, and hormone concentrations of the preovulatory follicle in mares. <i>Biology of Reproduction</i> , 2007 , 77, 202-8	3.9	28
100	Quantification, morphology, and viability of equine preantral follicles obtained via the Biopsy Pick-Up method. <i>Theriogenology</i> , 2013 , 79, 599-609	2.8	27
99	In vitro culture of equine preantral follicles obtained via the Biopsy Pick-Up method. <i>Theriogenology</i> , 2013 , 79, 911-7	2.8	26
98	Factors related to the time of fixation of the conceptus in mares. <i>Theriogenology</i> , 1996 , 46, 1171-80	2.8	26
97	Temporal relationships of the LH surge and ovulation to echotexture and power Doppler signals of blood flow in the wall of the preovulatory follicle in heifers. <i>Reproduction, Fertility and Development</i> , 2010 , 22, 1110-7	1.8	25
96	Changes in steady-state concentrations of messenger ribonucleic acids in luteal tissue during prostaglandin F2alpha induced luteolysis in mares. <i>Animal Reproduction Science</i> , 2005 , 90, 273-85	2.1	25
95	Dynamics of the Equine Preovulatory Follicle and Perioovulatory Hormones: What's New?. <i>Journal of Equine Veterinary Science</i> , 2008 , 28, 454-460	1.2	24

94	Follicle and systemic hormone interrelationships during spontaneous and ablation-induced ovulatory waves in mares. <i>Animal Reproduction Science</i> , 2008 , 106, 181-7	2.1	24
93	Follicle diameters and hormone concentrations in the development of single versus double ovulations in mares. <i>Theriogenology</i> , 2008 , 69, 583-90	2.8	24
92	Interrelationships among follicles during the common-growth phase of a follicular wave and capacity of individual follicles for dominance in mares. <i>Reproduction</i> , 2004 , 128, 417-22	3.8	24
91	Effect of ejaculation frequency and season on donkey jack semen. <i>Theriogenology</i> , 1997 , 47, 627-38	2.8	23
90	Treatment with human chorionic gonadotropin (hCG) for ovulation induction is associated with an immediate 17beta-estradiol decrease and a more rapid LH increase in mares. <i>Animal Reproduction Science</i> , 2009 , 114, 311-7	2.1	22
89	Sexual behavior of donkey jacks: influence of ejaculatory frequency and season. <i>Theriogenology</i> , 1996 , 46, 593-603	2.8	22
88	Equine preantral follicles obtained via the Biopsy Pick-Up method: histological evaluation and validation of a mechanical isolation technique. <i>Theriogenology</i> , 2013 , 79, 735-43	2.8	21
87	Steady-state level of insulin-like growth factor-I (IGF-I) receptor mRNA and the effect of IGF-I on the in vitro culture of caprine preantral follicles. <i>Theriogenology</i> , 2012 , 77, 206-13	2.8	21
86	Induction of haemorrhagic anovulatory follicles in mares. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 947-54	1.8	21
85	Serrated granulosa and other discrete ultrasound indicators of impending ovulation in mares. <i>Journal of Equine Veterinary Science</i> , 2006 , 26, 67-73	1.2	21
84	Ultrasound-guided intrafollicular treatment in mares. <i>Theriogenology</i> , 1995 , 44, 1027-37	2.8	21
83	Anethole reduces oxidative stress and improves in vitro survival and activation of primordial follicles. <i>Brazilian Journal of Medical and Biological Research</i> , 2018 , 51, e7129	2.8	20
82	Gene Expression During Early Folliculogenesis in Goats Using Microarray Analysis. <i>Biology of Reproduction</i> , 2013 , 89, 19	3.9	20
81	Echotextural changes in the follicular wall during follicle deviation in mares. <i>Theriogenology</i> , 1999 , 52, 803-14	2.8	20
80	Age-related dynamics of follicles and hormones during an induced ovulatory follicular wave in mares. <i>Theriogenology</i> , 2009 , 71, 780-8	2.8	19
79	FSH supplementation to culture medium is beneficial for activation and survival of preantral follicles enclosed in equine ovarian tissue. <i>Theriogenology</i> , 2016 , 85, 1106-12	2.8	18
78	Pre-ovulatory follicle affects corpus luteum diameter, blood flow, and progesterone production in mares. <i>Animal Reproduction Science</i> , 2017 , 187, 1-12	2.1	18
77	Effect of HCG in the presence of HCG antibodies on the follicle, hormone concentrations, and oocyte in mares. <i>Reproduction in Domestic Animals</i> , 2009 , 44, 474-9	1.6	18

76	Effect of PGE2 on uterine contractility and tone in mares. <i>Theriogenology</i> , 1998 , 50, 989-99	2.8	18
75	Spatial Relationships between Serrated Granulosa and Vascularity of the Preovulatory Follicle and Developing Corpus Luteum. <i>Journal of Equine Veterinary Science</i> , 2007 , 27, 20-27	1.2	18
74	The mare as a model for luteinized unruptured follicle syndrome: intrafollicular endocrine milieu. <i>Reproduction</i> , 2016 , 151, 271-83	3.8	17
73	Fat harvesting site is an important determinant of proliferation and pluripotency of adipose-derived stem cells. <i>Biologicals</i> , 2016 , 44, 12-8	1.8	17
72	Long-term in vitro culture of ovarian cortical tissue in goats: effects of FSH and IGF-I on preantral follicular development and FSH and IGF-I receptor mRNA expression. <i>Cell and Tissue Research</i> , 2012 , 350, 503-11	4.2	17
71	Intrafollicular effect of IGF1 on development of follicle dominance in mares. <i>Animal Reproduction Science</i> , 2008 , 105, 417-23	2.1	17
70	Preantral follicle density in ovarian biopsy fragments and effects of mare age. <i>Reproduction, Fertility and Development</i> , 2017 , 29, 867-875	1.8	16
69	Ovarian fragment sizes affect viability and morphology of preantral follicles during storage at 4°C. <i>Reproduction</i> , 2017 , 153, 577-587	3.8	16
68	Follicle deviation in ovulatory follicular waves with one or two dominant follicles in mares. <i>Reproduction in Domestic Animals</i> , 2009 , 44, 248-54	1.6	16
67	Effect of oxytocin, prostaglandin F2 alpha, and clenbuterol on uterine dynamics in mares. <i>Theriogenology</i> , 1998 , 50, 521-34	2.8	16
66	Miniature ponies: 1. Follicular, luteal and endometrial dynamics during the oestrous cycle. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 376-85	1.8	16
65	Temporal relationships among LH, estradiol, and follicle vascularization preceding the first compared with later ovulations during the year in mares. <i>Animal Reproduction Science</i> , 2007 , 102, 314-21	2.1	16
64	Follicle vascularity coordinates corpus luteum blood flow and progesterone production. <i>Reproduction, Fertility and Development</i> , 2017 , 29, 448-457	1.8	15
63	Long-term in vitro culture of bovine preantral follicles: Effect of base medium and medium replacement methods. <i>Animal Reproduction Science</i> , 2015 , 161, 23-31	2.1	15
62	Insulin improves in vitro survival of equine preantral follicles enclosed in ovarian tissue and reduces reactive oxygen species production after culture. <i>Theriogenology</i> , 2016 , 85, 1063-9	2.8	15
61	Role of EGF on in situ culture of equine preantral follicles and metabolomics profile. <i>Research in Veterinary Science</i> , 2017 , 115, 155-164	2.5	14
60	Equine ovarian tissue viability after cryopreservation and in vitro culture. <i>Theriogenology</i> , 2017 , 97, 139-147	1.4	14
59	In vivo effects of pregnancy-associated plasma protein-A, activin-A and vascular endothelial growth factor on other follicular-fluid factors during follicle deviation in mares. <i>Reproduction</i> , 2005 , 129, 489-96	3.8	14

58	Seasonal variation in equine follicular fluid proteome. <i>Reproductive Biology and Endocrinology</i> , 2019 , 17, 29	5	13
57	Association of glucose-6-phosphate dehydrogenase activity with oocyte cytoplasmic lipid content, developmental competence, and expression of candidate genes in a sheep model. <i>Journal of Assisted Reproduction and Genetics</i> , 2014 , 31, 1089-98	3.4	13
56	Glucocorticoid metabolism in equine follicles and oocytes. <i>Domestic Animal Endocrinology</i> , 2017 , 59, 11-22	3	13
55	Alpha lipoic acid (ALA) effects on developmental competence of equine preantral follicles in short-term culture. <i>Theriogenology</i> , 2018 , 105, 169-173	2.8	12
54	Changes in intrafollicular concentrations of free IGF-1, activin A, inhibin A, VEGF, estradiol, and prolactin before ovulation in mares. <i>Theriogenology</i> , 2016 , 85, 1491-8	2.8	12
53	In vitro culture of isolated preantral and antral follicles of goats using human recombinant FSH: Concentration-dependent and stage-specific effect. <i>Animal Reproduction Science</i> , 2018 , 196, 120-129	2.1	12
52	Relationships between follicle and corpus luteum diameter, blood flow, and progesterone production in beef cows and heifers: preliminary results. <i>Animal Reproduction</i> , 2016 , 13, 81-92	1.7	12
51	Effects of Cryoprotectant Agents on Equine Ovarian Biopsy Fragments in Preparation for Cryopreservation. <i>Journal of Equine Veterinary Science</i> , 2017 , 53, 86-93	1.2	11
50	Effect of suppression of FSH with a GnRH antagonist (acyline) before and during follicle deviation in the mare. <i>Reproduction in Domestic Animals</i> , 2009 , 44, 504-11	1.6	11
49	Effects of FSH addition to an enriched medium containing insulin and EGF after long-term culture on functionality of equine ovarian biopsy tissue. <i>Theriogenology</i> , 2017 , 99, 124-133	2.8	10
48	Short-term feed restriction decreases the systemic and intrafollicular concentrations of leptin and increases the vascularity of the preovulatory follicle in mares. <i>Theriogenology</i> , 2010 , 73, 1202-9	2.8	10
47	Effect of Cooling System and Rate of Cooling on Sperm Quality of Donkey Semen Preserved at 5°C. <i>Biology of Reproduction</i> , 1995 , 52, 761-767	3.9	10
46	Effect of sequential medium on in vitro culture of goat ovarian cortical tissue. <i>Animal Reproduction Science</i> , 2012 , 132, 159-68	2.1	9
45	Nuclear configuration, spindle morphology and cytoskeletal organization of in vivo maturing horse oocytes. <i>Reproduction in Domestic Animals</i> , 2009 , 44, 435-40	1.6	9
44	Development of one vs multiple ovulatory follicles and associated systemic hormone concentrations in mares. <i>Reproduction in Domestic Animals</i> , 2009 , 44, 441-9	1.6	9
43	Central Nervous System and Vertebrae Development in Horses: a Chronological Study with Differential Temporal Expression of Nestin and GFAP. <i>Journal of Molecular Neuroscience</i> , 2017 , 61, 61-78 ³⁻³	3	8
42	Ultrastructural Morphology and Nuclear Maturation Rates of Immature Equine Oocytes Vitrified with Different Solutions and Exposure Times. <i>Journal of Equine Veterinary Science</i> , 2014 , 34, 632-640	1.2	8
41	Accumulation of Fluid in the Infundibulum During the Estrous Cycle in Mares. <i>Journal of Equine Veterinary Science</i> , 2007 , 27, 251-259	1.2	8

40	Follicle growth and endocrine dynamics in women with spontaneous luteinized unruptured follicles versus ovulation. <i>Human Reproduction</i> , 2018 , 33, 1130-1140	5.7	7
39	Mating Pattern and Chromosome Analysis of a Mule and Her Offspring. <i>Biology of Reproduction</i> , 1995 , 52, 273-279	3.9	7
38	Oocyte maturation with royal jelly increases embryo development and reduces apoptosis in goats. <i>Animal Reproduction</i> , 2018 , 15, 124-134	1.7	7
37	First pregnancy after in vitro culture of early antral follicles in goats: Positive effects of anethole on follicle development and steroidogenesis. <i>Molecular Reproduction and Development</i> , 2020 , 87, 966-977	2.6	7
36	Linolenic acid improves oocyte developmental competence and decreases apoptosis of in vitro-produced blastocysts in goat. <i>Zygote</i> , 2016 , 24, 537-48	1.6	7
35	Passage of postovulatory follicular fluid into the peritoneal cavity and the effect on concentrations of circulating hormones in mares. <i>Animal Reproduction Science</i> , 2008 , 107, 1-8	2.1	6
34	Elevated plasma testosterone concentrations during stallion-like sexual behavior in mares (<i>Equus caballus</i>). <i>Hormones and Behavior</i> , 2007 , 52, 205-10	3.7	6
33	Laparoscopic ovarian biopsy pick-up method for goats. <i>Theriogenology</i> , 2018 , 107, 219-225	2.8	6
32	Supportive techniques to investigate in vitro culture and cryopreservation efficiencies of equine ovarian tissue: A review. <i>Theriogenology</i> , 2020 , 156, 296-309	2.8	5
31	Ovarian features in white-tailed deer (<i>Odocoileus virginianus</i>) fawns and does. <i>PLoS ONE</i> , 2017 , 12, e0173357	3.7	5
30	Cryopreservation and in vitro culture of white-tailed deer ovarian tissue. <i>Theriogenology</i> , 2018 , 113, 253-280	2.8	5
29	In vivo antral follicle wall biopsy: a new research technique to study ovarian function at the cellular and molecular levels. <i>Reproductive Biology and Endocrinology</i> , 2018 , 16, 71	5	5
28	Spatial distribution of preantral follicles in the equine ovary. <i>PLoS ONE</i> , 2018 , 13, e0198108	3.7	5
27	Miniature Ponies: Similarities and Differences from Larger Breeds in Follicles and Hormones during the Estrous Cycle. <i>Journal of Equine Veterinary Science</i> , 2008 , 28, 508-517	1.2	5
26	Miniature ponies: 2. Endocrinology of the oestrous cycle. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 386-90	1.8	5
25	Pluripotency Crossroads: Junction of Transcription Factors, Epigenetic Mechanisms, MicroRNAs, and Long Non-coding RNAs. <i>Current Stem Cell Research and Therapy</i> , 2017 , 12, 300-311	3.6	5
24	Anethole Supplementation During Oocyte Maturation Improves In Vitro Production of Bovine Embryos. <i>Reproductive Sciences</i> , 2020 , 27, 1602-1608	3	5
23	Heterotopic ovarian allotransplantation in goats: Preantral follicle viability and tissue remodeling. <i>Animal Reproduction Science</i> , 2020 , 215, 106310	2.1	4

22	Prenatal development of the digestive system in the horse. <i>Anatomical Record</i> , 2014 , 297, 1218-27	2.1	4
21	Follicle suppression of circulating follicle-stimulating hormone and luteinizing hormone before versus after emergence of the ovulatory wave in mares. <i>Theriogenology</i> , 2009 , 72, 445-52	2.8	4
20	Stallion-like Behavior in Mares: Review of Incidence, Characteristics, Ovarian Activity, and Role of Testosterone. <i>Journal of Equine Veterinary Science</i> , 2007 , 27, 390-393	1.2	4
19	Effect of cryopreservation techniques on proliferation and apoptosis of cultured equine ovarian tissue. <i>Theriogenology</i> , 2019 , 126, 88-94	2.8	4
18	Anethole Supplementation During Oocyte Maturation Improves In Vitro Production of Bovine Embryos. <i>Reproductive Sciences</i> , 2019 , 1933719119831783	3	3
17	Harvesting, processing, and evaluation of in vitro-manipulated equine preantral follicles: A review. <i>Theriogenology</i> , 2020 , 156, 283-295	2.8	3
16	A new alternative for embryo transfer and artificial insemination in mares: ultrasound-guided intrauterine injection. <i>Journal of Equine Veterinary Science</i> , 2004 , 24, 324-332	1.2	3
15	Heterotopic autotransplantation of ovarian tissue in a large animal model: Effects of cooling and VEGF. <i>PLoS ONE</i> , 2020 , 15, e0241442	3.7	3
14	Organogenesis of the Musculoskeletal System in Horse Embryos and Early Fetuses. <i>Anatomical Record</i> , 2016 , 299, 722-9	2.1	3
13	Preovulatory Follicle Dynamics, and Ovulatory and Endometrial Responses to Different Doses of hCG and Prediction of Ovulation in Mares. <i>Journal of Equine Veterinary Science</i> , 2017 , 56, 40-51	1.2	2
12	Novel prospects for evaluation of follicle wall blood flow using color-Doppler ultrasonography. <i>Animal Reproduction</i> , 2016 , 13, 762-771	1.7	2
11	Impact of ethanol and heat stress-dependent effect of ultra-diluted <i>Arnica montana</i> 6cH on in vitro embryo production in cattle. <i>Theriogenology</i> , 2021 , 162, 105-110	2.8	2
10	Reproductive system development in male and female horse embryos and fetuses: Gonadal hyperplasia revisited. <i>Theriogenology</i> , 2018 , 108, 118-126	2.8	2
9	Transition to the ovulatory season in mares: An investigation of antral follicle receptor gene expression in vivo. <i>Molecular Reproduction and Development</i> , 2019 , 86, 1832-1845	2.6	1
8	Pituitary porcine FSH, and recombinant bovine and human FSH differentially affect growth and relative abundances of mRNA transcripts of preantral and early developing antral follicles in goats. <i>Animal Reproduction Science</i> , 2020 , 219, 106461	2.1	1
7	The mule (<i>Equus mulus</i>) as a recipient of horse (<i>Equus caballus</i>) embryos: Comparative aspects of early pregnancy with mares. <i>Theriogenology</i> , 2020 , 145, 217-225	2.8	1
6	Deficiency in proliferative, angiogenic, and LH receptors in the follicle wall: implications of season toward the anovulatory condition. <i>Domestic Animal Endocrinology</i> , 2020 , 70, 106382	2.3	1
5	Folliculogenesis-related genes are differently expressed in secondary and tertiary ovarian follicles. <i>Zygote</i> , 2021 , 29, 503-506	1.6	0

4	Reproductive patterns and follicular waves in postpartum lactating versus non-postpartum cycling mares. <i>Journal of Equine Veterinary Science</i> , 2021 , 107, 103732	1.2	0
3	Equine ovarian tissue xenografting: impacts of cooling, vitrification, and VEGF.. <i>Reproduction and Fertility</i> , 2021 , 2, 251-266	1.1	0
2	Emergence and selection of the dominant follicle and gonadotropin dynamics in postpartum lactating versus non-postpartum cycling mares.. <i>Reproductive Biology</i> , 2022 , 22, 100618	2.3	0
1	Heterotopic autotransplantation of equine ovarian tissue using intramuscular versus subvulvar grafting sites: Preliminary results. <i>Theriogenology</i> , 2021 , 172, 123-132	2.8	