

Milo Charles Wiltbank

List of Publications by Citations

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104
papers

4,374
citations

34
h-index

65
g-index

114
ext. papers

5,079
ext. citations

3.1
avg. IF

5.47
L-index

#	Paper	IF	Citations
104	A new presynchronization system (Double-Ovsynch) increases fertility at first postpartum timed AI in lactating dairy cows. <i>Theriogenology</i> , 2008 , 70, 208-15	2.8	388
103	Reproductive management of lactating dairy cows using synchronization of ovulation. <i>Journal of Dairy Science</i> , 1997 , 80, 301-6	4	274
102	Changes in reproductive physiology of lactating dairy cows due to elevated steroid metabolism. <i>Theriogenology</i> , 2006 , 65, 17-29	2.8	271
101	Effect of increasing GnRH and PGF ₂ dose during Double-Ovsynch on ovulatory response, luteal regression, and fertility of lactating dairy cows. <i>Theriogenology</i> , 2013 , 80, 773-83	2.8	261
100	Follicular deviation and acquisition of ovulatory capacity in bovine follicles. <i>Biology of Reproduction</i> , 2001 , 65, 1403-9	3.9	230
99	Effect of time of artificial insemination on pregnancy rates, calving rates, pregnancy loss, and gender ratio after synchronization of ovulation in lactating dairy cows. <i>Journal of Dairy Science</i> , 1998 , 81, 2139-44	4	189
98	Pivotal periods for pregnancy loss during the first trimester of gestation in lactating dairy cows. <i>Theriogenology</i> , 2016 , 86, 239-53	2.8	173
97	Prostaglandin F ₂ alpha regulates distinct physiological changes in early and mid-cycle bovine corpora lutea. <i>Biology of Reproduction</i> , 1998 , 58, 346-52	3.9	146
96	The cow as an induced ovulator: timed AI after synchronization of ovulation. <i>Theriogenology</i> , 2014 , 81, 170-85	2.8	122
95	Prostaglandin F ₂ alpha induces expression of prostaglandin G/H synthase-2 in the ovine corpus luteum: a potential positive feedback loop during luteolysis. <i>Biology of Reproduction</i> , 1997 , 57, 1016-22	3.9	99
94	Quantification of mRNA using competitive RT-PCR with standard-curve methodology. <i>BioTechniques</i> , 1996 , 21, 862-6	2.5	99
93	Factors affecting fertilisation and early embryo quality in single- and superovulated dairy cattle. <i>Reproduction, Fertility and Development</i> , 2010 , 22, 151-8	1.8	90
92	Distinct regulation by steroids of messenger RNAs for FSHR and CYP19A1 in bovine granulosa cells. <i>Biology of Reproduction</i> , 2006 , 75, 217-25	3.9	85
91	RNA-Seq analysis uncovers transcriptomic variations between morphologically similar in vivo- and in vitro-derived bovine blastocysts. <i>BMC Genomics</i> , 2012 , 13, 118	4.5	82
90	Improving fertility to timed artificial insemination by manipulation of circulating progesterone concentrations in lactating dairy cattle. <i>Reproduction, Fertility and Development</i> , 2011 , 24, 238-43	1.8	78
89	Role of follicular estradiol-17beta in timing of luteolysis in heifers. <i>Biology of Reproduction</i> , 2009 , 81, 426-37	3.9	70
88	Relationships between fertility and postpartum changes in body condition and body weight in lactating dairy cows. <i>Journal of Dairy Science</i> , 2014 , 97, 3666-83	4	68

87	Reproductive hormones and follicular growth during development of one or multiple dominant follicles in cattle. <i>Biology of Reproduction</i> , 2005 , 72, 788-95	3.9	68
86	The role of luteinizing hormone in regulating gene expression during selection of a dominant follicle in cattle. <i>Biology of Reproduction</i> , 2011 , 84, 369-78	3.9	67
85	Regulation of intraluteal production of prostaglandins. <i>Reproductive Biology and Endocrinology</i> , 2003 , 1, 91	5	67
84	Managing the dominant follicle in lactating dairy cows. <i>Theriogenology</i> , 2011 , 76, 1568-82	2.8	66
83	Patterns of gene expression in the bovine corpus luteum following repeated intrauterine infusions of low doses of prostaglandin F2alpha. <i>Biology of Reproduction</i> , 2012 , 86, 130	3.9	65
82	Cell types and hormonal mechanisms associated with mid-cycle corpus luteum function. <i>Journal of Animal Science</i> , 1994 , 72, 1873-83	0.7	63
81	Regulation of the corpus luteum by protein kinase C. II. Inhibition of lipoprotein-stimulated steroidogenesis by prostaglandin F2 alpha. <i>Biology of Reproduction</i> , 1990 , 42, 239-45	3.9	63
80	Effect of maternal methionine supplementation on the transcriptome of bovine preimplantation embryos. <i>PLoS ONE</i> , 2013 , 8, e72302	3.7	63
79	An alteration in the hypothalamic action of estradiol due to lack of progesterone exposure can cause follicular cysts in cattle. <i>Biology of Reproduction</i> , 2002 , 66, 1689-95	3.9	61
78	Effect of a second treatment with prostaglandin F2 during the Ovsynch protocol on luteolysis and pregnancy in dairy cows. <i>Journal of Dairy Science</i> , 2015 , 98, 8644-54	4	60
77	Hormonal regulation of monocyte chemoattractant protein-1 messenger ribonucleic acid expression in corpora lutea. <i>Endocrinology</i> , 1997 , 138, 4517-20	4.8	56
76	Relationship between circulating anti-Müllerian hormone (AMH) and superovulatory response of high-producing dairy cows. <i>Journal of Dairy Science</i> , 2015 , 98, 169-78	4	53
75	Prostaglandin F(2alpha) receptor in the corpus luteum: recent information on the gene, messenger ribonucleic acid, and protein. <i>Biology of Reproduction</i> , 2001 , 64, 1041-7	3.9	49
74	Development and use of an ovarian synchronization model to study the effects of endogenous estrogen and nitric oxide on uterine blood flow during ovarian cycles in sheep. <i>Biology of Reproduction</i> , 2004 , 70, 1886-94	3.9	44
73	Endothelial vasodilator production by uterine and systemic arteries. VIII. Estrogen and progesterone effects on cPLA2, COX-1, and PGIS protein expression. <i>Biology of Reproduction</i> , 2002 , 66, 468-74	3.9	41
72	Length of progesterone exposure needed to resolve large follicle anovular condition in dairy cows. <i>Theriogenology</i> , 2005 , 63, 202-18	2.8	39
71	Relationship between follicular development and the decline in the follicle-stimulating hormone surge in heifers. <i>Biology of Reproduction</i> , 1999 , 60, 72-7	3.9	35
70	Transcriptional regulation of the cyclooxygenase-2 gene changes from protein kinase (PK) A- to PKC-dependence after luteinization of granulosa cells. <i>Biology of Reproduction</i> , 2002 , 66, 1505-14	3.9	34

69	Acquisition of luteolytic capacity: changes in prostaglandin F2alpha regulation of steroid hormone receptors and estradiol biosynthesis in pig corpora lutea. <i>Biology of Reproduction</i> , 2004 , 70, 1333-9	3.9	32
68	Gonadotropin-releasing hormone, estradiol, and inhibin regulation of follicle-stimulating hormone and luteinizing hormone surges: implications for follicle emergence and selection in heifers. <i>Biology of Reproduction</i> , 2013 , 88, 165	3.9	30
67	Regulation of blood flow to the rabbit corpus luteum: effects of estradiol and human chorionic gonadotropin. <i>Endocrinology</i> , 1989 , 124, 605-11	4.8	29
66	Acquisition of luteolytic capacity involves differential regulation by prostaglandin F2alpha of genes involved in progesterone biosynthesis in the porcine corpus luteum. <i>Domestic Animal Endocrinology</i> , 2005 , 28, 172-89	2.3	28
65	Effect of uterine size on fertility of lactating dairy cows. <i>Theriogenology</i> , 2016 , 85, 1357-66	2.8	27
64	Lack of complete regression of the Day 5 corpus luteum after one or two doses of PGF2α in nonlactating Holstein cows. <i>Theriogenology</i> , 2014 , 81, 389-95	2.8	27
63	Management of dry and transition cows to improve energy balance and reproduction. <i>Journal of Reproduction and Development</i> , 2010 , 56 Suppl, S22-8	2.1	26
62	Effect of feeding rumen-protected methionine on productive and reproductive performance of dairy cows. <i>PLoS ONE</i> , 2017 , 12, e0189117	3.7	25
61	Effect of feed restriction on reproductive and metabolic hormones in dairy cows. <i>Journal of Dairy Science</i> , 2014 , 97, 754-63	4	21
60	Effect of glucocorticoid-induced insulin resistance on follicle development and ovulation. <i>Biology of Reproduction</i> , 2013 , 88, 153	3.9	21
59	Follicular cysts occur after a normal estradiol-induced GnRH/LH surge if the corpus hemorrhagicum is removed. <i>Reproduction</i> , 2005 , 129, 737-45	3.8	21
58	Progesterone supplementation after ovulation: effects on corpus luteum function and on fertility of dairy cows subjected to AI or ET. <i>Theriogenology</i> , 2015 , 84, 1215-24	2.8	20
57	Induction of mRNA for chemokines and chemokine receptors by prostaglandin F2αs dependent upon stage of the porcine corpus luteum and intraluteal progesterone. <i>Endocrinology</i> , 2011 , 152, 2797-805	4.8	20
56	Regulation of cytochrome P450 _{scc} synthesis and activity in the ovine corpus luteum. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1994 , 51, 283-90	5.1	20
55	Transcriptional regulation of cyclooxygenase-2 gene in ovine large luteal cells. <i>Biology of Reproduction</i> , 2001 , 65, 1565-72	3.9	18
54	Proteins secreted from the early ovine conceptus block the action of prostaglandin F2 alpha on large luteal cells. <i>Biology of Reproduction</i> , 1992 , 46, 475-82	3.9	18
53	Mechanisms for rescue of corpus luteum during pregnancy: gene expression in bovine corpus luteum following intrauterine pulses of prostaglandins E1 and F2α. <i>Biology of Reproduction</i> , 2018 , 98, 465-479	3.9	17
52	Effect of decreasing intraluteal progesterone on sensitivity of the early porcine corpus luteum to the luteolytic actions of prostaglandin F2alpha. <i>Biology of Reproduction</i> , 2011 , 84, 26-33	3.9	17

51	Proposal of a new model for CL regression or maintenance during pregnancy on the basis of timing of regression of contralateral, accessory CL in pregnant cows. <i>Theriogenology</i> , 2017 , 89, 214-225	2.8	15
50	Effects of deep-horn AI on fertilization and embryo production in superovulated cows and heifers. <i>Theriogenology</i> , 2013 , 80, 1074-81	2.8	14
49	Profiles of prostaglandin F ₂ metabolite in dairy cattle during luteal regression and pregnancy: implications for corpus luteum maintenance. <i>Biology of Reproduction</i> , 2019 , 101, 76-90	3.9	13
48	Trio, a novel high fecundity allele: I. Transcriptome analysis of granulosa cells from carriers and noncarriers of a major gene for bovine ovulation rate. <i>Biology of Reproduction</i> , 2018 , 98, 323-334	3.9	11
47	Short communication: Follicle superstimulation before ovum pick-up for in vitro embryo production in Holstein cows. <i>Journal of Dairy Science</i> , 2016 , 99, 9307-9312	4	10
46	Effects of acute feed restriction combined with targeted use of increasing luteinizing hormone content of follicle-stimulating hormone preparations on ovarian superstimulation, fertilization, and embryo quality in lactating dairy cows. <i>Journal of Dairy Science</i> , 2014 , 97, 764-78	4	10
45	Progesterone-based timed AI protocols for Bos indicus cattle II: Reproductive outcomes of either EB or GnRH-type protocol, using or not GnRH at AI. <i>Theriogenology</i> , 2020 , 145, 86-93	2.8	9
44	Differential regulation of prostaglandin endoperoxide synthase-2 transcription in ovine granulosa and large luteal cells. <i>Prostaglandins and Other Lipid Mediators</i> , 2001 , 65, 103-16	3.7	9
43	Physiological mechanisms involved in maintaining the corpus luteum during the first two months of pregnancy. <i>Animal Reproduction</i> , 2018 , 15, 805-821	1.7	8
42	Effect of Progesterone Concentration During Follicle Development on Subsequent Ovulation, Fertilization, and Early Embryo Development in Lactating Dairy Cows.. <i>Biology of Reproduction</i> , 2011 , 85, 685-685	3.9	8
41	Progesterone-based timed AI protocols for Bos indicus cattle I: Evaluation of ovarian function. <i>Theriogenology</i> , 2020 , 145, 126-137	2.8	7
40	Actions of prostaglandin F ₂ alpha and prolactin on intercellular adhesion molecule-1 expression and monocyte/macrophage accumulation in the rat corpus luteum. <i>Biology of Reproduction</i> , 2001 , 64, 890-7	3.9	7
39	Hormonal mechanisms regulating follicular wave dynamics I: Comparison of follicle growth profiles under different physiological conditions in heifers. <i>Theriogenology</i> , 2019 , 123, 194-201	2.8	7
38	Follicular waves and hormonal profiles during the estrous cycle of carriers and non-carriers of the Trio allele, a major bovine gene for high ovulation and fecundity. <i>Theriogenology</i> , 2017 , 100, 100-113	2.8	6
37	Induction of chemokines and prostaglandin synthesis pathways in luteinized human granulosa cells: potential role of luteotropin withdrawal and prostaglandin F ₂ in regression of the human corpus luteum. <i>Reproductive Biology</i> , 2015 , 15, 247-56	2.3	6
36	Evolution of fixed-time AI in dairy cattle in Brazil. <i>Animal Reproduction</i> , 2018 , 15, 940-951	1.7	6
35	Mechanisms regulating follicle selection in ruminants: lessons learned from multiple ovulation models. <i>Animal Reproduction</i> , 2018 , 15, 660-679	1.7	6
34	Factors That Optimize Reproductive Efficiency in Dairy Herds with an Emphasis on Timed Artificial Insemination Programs. <i>Animals</i> , 2021 , 11,	3.1	6

33	Effects of feeding rumen-protected methionine pre- and postpartum in multiparous Holstein cows: Lactation performance and plasma amino acid concentrations. <i>Journal of Dairy Science</i> , 2021 , 104, 7583-7603	4	6
32	Effects of dry matter and energy intake on quality of oocytes and embryos in ruminants. <i>Reproduction, Fertility and Development</i> , 2016 , 29, 58-65	1.8	5
31	Trio, a novel bovine high fecundity allele: III. Acquisition of dominance and ovulatory capacity at a smaller follicle size. <i>Biology of Reproduction</i> , 2018 , 98, 350-365	3.9	5
30	Trio a novel bovine high-fecundity allele: II. Hormonal profile and follicular dynamics underlying the high ovulation rate. <i>Biology of Reproduction</i> , 2018 , 98, 335-349	3.9	5
29	Interferon-Tau Exerts Direct Prosurvival and Antiapoptotic Actions in Luteinized Bovine Granulosa Cells. <i>Scientific Reports</i> , 2019 , 9, 14682	4.9	5
28	Determination of transfection efficiency by direct polymerase chain reaction. <i>Analytical Biochemistry</i> , 1999 , 271, 108-111	3.1	5
27	Identification of stable genes in the corpus luteum of lactating Holstein cows in pregnancy and luteolysis: Implications for selection of reverse-transcription quantitative PCR reference genes. <i>Journal of Dairy Science</i> , 2020 , 103, 4846-4857	4	5
26	Embryo production in heifers with low or high dry matter intake submitted to superovulation. <i>Theriogenology</i> , 2017 , 92, 30-35	2.8	4
25	Equine chorionic gonadotropin increases fertility of grazing dairy cows that receive fixed-time artificial insemination in the early but not later postpartum period. <i>Theriogenology</i> , 2017 , 98, 36-40	2.8	4
24	Proteomic analysis of follicular fluid in carriers and non-carriers of the Trio allele for high ovulation rate in cattle. <i>Reproduction, Fertility and Development</i> , 2018 , 30, 1643-1650	1.8	4
23	Estradiol and progesterone exhibit similar patterns of hepatic gene expression regulation in the bovine model. <i>PLoS ONE</i> , 2013 , 8, e73552	3.7	4
22	In vivo embryo production in cows superovulated 1 or 2 days after ovum pick-up. <i>Reproduction, Fertility and Development</i> , 2014 , 26, 527-32	1.8	3
21	Postovulatory treatment with GnRH on day 5 reduces pregnancy loss in recipients receiving an <i>in vitro</i> produced expanded blastocyst. <i>Theriogenology</i> , 2020 , 141, 202-210	2.8	3
20	Hormonal combinations aiming to improve reproductive outcomes of <i>Bos indicus</i> cows submitted to estradiol/progesterone-based timed AI protocols. <i>Theriogenology</i> , 2021 , 169, 89-99	2.8	3
19	Ovulation rate, antral follicle count, and circulating anti-Müllerian hormone in Trio allele carriers, a novel high fecundity bovine genotype. <i>Theriogenology</i> , 2017 , 101, 81-90	2.8	2
18	Progesterone-based timed AI protocols for <i>Bos indicus</i> cattle III: Comparison of protocol lengths. <i>Theriogenology</i> , 2020 , 152, 29-35	2.8	2
17	Optimizing timed AI protocols for Angus beef heifers: Comparison of induction of synchronized ovulation with estradiol cypionate or GnRH. <i>Theriogenology</i> , 2018 , 121, 7-12	2.8	2
16	Effects of propylene glycol or elevated luteinizing hormone during follicle development on ovulation, fertilization, and early embryo development. <i>Biology of Reproduction</i> , 2017 , 97, 550-563	3.9	2

15	Up-regulation of endometrial oxytocin receptor is associated with the timing of luteolysis in heifers with two and three follicular waves□ <i>Biology of Reproduction</i> , 2020 , 102, 316-326	3.9	2
14	Prevalence and risk factors related to anovular phenotypes in dairy cows. <i>Journal of Dairy Science</i> , 2021 , 104, 2369-2383	4	2
13	Oxytocin-induced prostaglandin F2-alpha release is low in early bovine pregnancy but increases during the second month of pregnancy□ <i>Biology of Reproduction</i> , 2020 , 102, 412-423	3.9	1
12	Effect of Organic Zinc, Manganese, Copper, and Cobalt on Follicular Growth, Embryo Quality, and Tissue Mineral Concentrations in Lactating Dairy Cows.. <i>Biology of Reproduction</i> , 2009 , 81, 490-490	3.9	1
11	Selection of fewer dominant follicles in Trio carriers given GnRH antagonist and luteinizing hormone action replaced by nonpulsatile human chorionic gonadotropin□ <i>Biology of Reproduction</i> , 2020 , 103, 1217-1228	3.9	1
10	Development of a novel 21-day reinsemination program, ReBreed21, in Bos indicus heifers. <i>Theriogenology</i> , 2020 , 155, 125-131	2.8	1
9	Effect of route of administration of dinoprost tromethamine on plasma profiles of 13,14-dihydro-15-keto-prostaglandin F2 and progesterone in lactating Holstein cows. <i>JDS Communications</i> , 2021 ,	1.4	1
8	Effect of natural pre-luteolytic prostaglandin F2 pulses on the bovine luteal transcriptome during spontaneous luteal regression□ <i>Biology of Reproduction</i> , 2021 , 105, 1016-1029	3.9	0
7	Pregnancy-induced changes in the transcriptome of the bovine corpus luteum during and after embryonic interferon-tau secretion□ <i>Biology of Reproduction</i> , 2021 , 105, 148-163	3.9	0
6	Effects of feeding rumen-protected methionine pre- and postpartum on reproductive outcomes of multiparous Holstein cows. <i>Journal of Dairy Science</i> , 2021 , 104, 11210-11225	4	0
5	DO ESTRADIOL AND PROGESTERONE REGULATE THEIR OWN METABOLISM?. <i>Biology of Reproduction</i> , 2007 , 77, 214-214	3.9	
4	Stage-Specific Responses in Gene Expression and Signaling Pathway Activation after Treatment with Prostaglandin F2 Alpha (PGF) and Interferon-Gamma (IFNG) in Bovine Corpus Luteum (CL) and Luteinizing Granulosa Cells.. <i>Biology of Reproduction</i> , 2009 , 81, 53-53	3.9	
3	Comparison among Different Doses of Prostaglandin F2alpha (PGF) on Luteal Function of the Day 5 Corpus Luteum (CL) in Nonlactating Holstein Cows.. <i>Biology of Reproduction</i> , 2010 , 83, 225-225	3.9	
2	Effect of Glucocorticoid Treatment to Induce Insulin Resistance on Follicle Development and Ovulation.. <i>Biology of Reproduction</i> , 2010 , 83, 600-600	3.9	
1	Managing the dominant follicle in high-producing dairy cows. <i>Society of Reproduction and Fertility Supplement</i> , 2010 , 67, 231-45		