

# Milo Charles Wiltbank

## List of Publications by Year in Descending Order

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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.

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	Effect of natural pre-luteolytic prostaglandin F <sub>2</sub> pulses on the bovine luteal transcriptome during spontaneous luteal regression <i>Biology of Reproduction</i> , <b>2021</b> , 105, 1016-1029	3.9	0
103	Prevalence and risk factors related to anovular phenotypes in dairy cows. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 2369-2383	4	2
102	Factors That Optimize Reproductive Efficiency in Dairy Herds with an Emphasis on Timed Artificial Insemination Programs. <i>Animals</i> , <b>2021</b> , 11,	3.1	6
101	Pregnancy-induced changes in the transcriptome of the bovine corpus luteum during and after embryonic interferon-tau secretion <i>Biology of Reproduction</i> , <b>2021</b> , 105, 148-163	3.9	0
100	Hormonal combinations aiming to improve reproductive outcomes of Bos indicus cows submitted to estradiol/progesterone-based timed AI protocols. <i>Theriogenology</i> , <b>2021</b> , 169, 89-99	2.8	3
99	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> , <b>2021</b> , 104, 7583-7603	4.6	6
98	Effect of route of administration of dinoprost tromethamine on plasma profiles of 13,14-dihydro-15-keto-prostaglandin F <sub>2</sub> and progesterone in lactating Holstein cows. <i>JDS Communications</i> , <b>2021</b> ,	1.4	1
97	Effects of feeding rumen-protected methionine pre- and postpartum on reproductive outcomes of multiparous Holstein cows. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 11210-11225	4	0
96	Oxytocin-induced prostaglandin F <sub>2</sub> -alpha release is low in early bovine pregnancy but increases during the second month of pregnancy <i>Biology of Reproduction</i> , <b>2020</b> , 102, 412-423	3.9	1
95	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> , <b>2020</b> , 145, 86-93	2.8	9
94	Progesterone-based timed AI protocols for Bos indicus cattle I: Evaluation of ovarian function. <i>Theriogenology</i> , <b>2020</b> , 145, 126-137	2.8	7
93	Progesterone-based timed AI protocols for Bos indicus cattle III: Comparison of protocol lengths. <i>Theriogenology</i> , <b>2020</b> , 152, 29-35	2.8	2
92	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> , <b>2020</b> , 103, 4846-4857	4	5
91	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> , <b>2020</b> , 102, 316-326	3.9	2
90	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> , <b>2020</b> , 103, 1217-1228	3.9	1
89	Postovulatory treatment with GnRH on day 5 reduces pregnancy loss in recipients receiving an in vitro produced expanded blastocyst. <i>Theriogenology</i> , <b>2020</b> , 141, 202-210	2.8	3
88	Development of a novel 21-day reinsemination program, ReBreed21, in Bos indicus heifers. <i>Theriogenology</i> , <b>2020</b> , 155, 125-131	2.8	1

87	Profiles of prostaglandin F <sub>2</sub> metabolite in dairy cattle during luteal regression and pregnancy: implications for corpus luteum maintenance <i>Biology of Reproduction</i> , <b>2019</b> , 101, 76-90	3.9	13
86	Interferon-Tau Exerts Direct Prosurvival and Antiapoptotic Actions in Luteinized Bovine Granulosa Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 14682	4.9	5
85	Hormonal mechanisms regulating follicular wave dynamics I: Comparison of follicle growth profiles under different physiological conditions in heifers. <i>Theriogenology</i> , <b>2019</b> , 123, 194-201	2.8	7
84	Trio, a novel bovine high fecundity allele: III. Acquisition of dominance and ovulatory capacity at a smaller follicle size. <i>Biology of Reproduction</i> , <b>2018</b> , 98, 350-365	3.9	5
83	Trio a novel bovine high-fecundity allele: II. Hormonal profile and follicular dynamics underlying the high ovulation rate. <i>Biology of Reproduction</i> , <b>2018</b> , 98, 335-349	3.9	5
82	Mechanisms for rescue of corpus luteum during pregnancy: gene expression in bovine corpus luteum following intrauterine pulses of prostaglandins E1 and F <sub>2</sub> <i>Biology of Reproduction</i> , <b>2018</b> , 98, 465-479	3.9	17
81	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> , <b>2018</b> , 98, 323-334	3.9	11
80	Optimizing timed AI protocols for Angus beef heifers: Comparison of induction of synchronized ovulation with estradiol cypionate or GnRH. <i>Theriogenology</i> , <b>2018</b> , 121, 7-12	2.8	2
79	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> , <b>2018</b> , 30, 1643-1650	1.8	4
78	Evolution of fixed-time AI in dairy cattle in Brazil. <i>Animal Reproduction</i> , <b>2018</b> , 15, 940-951	1.7	6
77	Mechanisms regulating follicle selection in ruminants: lessons learned from multiple ovulation models. <i>Animal Reproduction</i> , <b>2018</b> , 15, 660-679	1.7	6
76	Physiological mechanisms involved in maintaining the corpus luteum during the first two months of pregnancy. <i>Animal Reproduction</i> , <b>2018</b> , 15, 805-821	1.7	8
75	Embryo production in heifers with low or high dry matter intake submitted to superovulation. <i>Theriogenology</i> , <b>2017</b> , 92, 30-35	2.8	4
74	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> , <b>2017</b> , 98, 36-40	2.8	4
73	Ovulation rate, antral follicle count, and circulating anti-Müllerian hormone in Trio allele carriers, a novel high fecundity bovine genotype. <i>Theriogenology</i> , <b>2017</b> , 101, 81-90	2.8	2
72	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> , <b>2017</b> , 100, 100-113	2.8	6
71	Effect of feeding rumen-protected methionine on productive and reproductive performance of dairy cows. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189117	3.7	25
70	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> , <b>2017</b> , 89, 214-225	2.8	15

69	Effects of propylene glycol or elevated luteinizing hormone during follicle development on ovulation, fertilization, and early embryo development. <i>Biology of Reproduction</i> , <b>2017</b> , 97, 550-563	3.9	2
68	Effect of uterine size on fertility of lactating dairy cows. <i>Theriogenology</i> , <b>2016</b> , 85, 1357-66	2.8	27
67	Effects of dry matter and energy intake on quality of oocytes and embryos in ruminants. <i>Reproduction, Fertility and Development</i> , <b>2016</b> , 29, 58-65	1.8	5
66	Short communication: Follicle superstimulation before ovum pick-up for in vitro embryo production in Holstein cows. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 9307-9312	4	10
65	Pivotal periods for pregnancy loss during the first trimester of gestation in lactating dairy cows. <i>Theriogenology</i> , <b>2016</b> , 86, 239-53	2.8	173
64	Progesterone supplementation after ovulation: effects on corpus luteum function and on fertility of dairy cows subjected to AI or ET. <i>Theriogenology</i> , <b>2015</b> , 84, 1215-24	2.8	20
63	Effect of a second treatment with prostaglandin F <sub>2</sub> during the Ovsynch protocol on luteolysis and pregnancy in dairy cows. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 8644-54	4	60
62	Relationship between circulating anti-Müllerian hormone (AMH) and superovulatory response of high-producing dairy cows. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 169-78	4	53
61	Induction of chemokines and prostaglandin synthesis pathways in luteinized human granulosa cells: potential role of luteotropin withdrawal and prostaglandin F <sub>2</sub> in regression of the human corpus luteum. <i>Reproductive Biology</i> , <b>2015</b> , 15, 247-56	2.3	6
60	The cow as an induced ovulator: timed AI after synchronization of ovulation. <i>Theriogenology</i> , <b>2014</b> , 81, 170-85	2.8	122
59	Lack of complete regression of the Day 5 corpus luteum after one or two doses of PGF <sub>2</sub> in nonlactating Holstein cows. <i>Theriogenology</i> , <b>2014</b> , 81, 389-95	2.8	27
58	In vivo embryo production in cows superovulated 1 or 2 days after ovum pick-up. <i>Reproduction, Fertility and Development</i> , <b>2014</b> , 26, 527-32	1.8	3
57	Effect of feed restriction on reproductive and metabolic hormones in dairy cows. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 754-63	4	21
56	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> , <b>2014</b> , 97, 764-78	4	10
55	Relationships between fertility and postpartum changes in body condition and body weight in lactating dairy cows. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 3666-83	4	68
54	Effects of deep-horn AI on fertilization and embryo production in superovulated cows and heifers. <i>Theriogenology</i> , <b>2013</b> , 80, 1074-81	2.8	14
53	Effect of increasing GnRH and PGF <sub>2</sub> dose during Double-Ovsynch on ovulatory response, luteal regression, and fertility of lactating dairy cows. <i>Theriogenology</i> , <b>2013</b> , 80, 773-83	2.8	261
52	Effect of glucocorticoid-induced insulin resistance on follicle development and ovulation. <i>Biology of Reproduction</i> , <b>2013</b> , 88, 153	3.9	21

51	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> , <b>2013</b> , 88, 165	3.9	30
50	Estradiol and progesterone exhibit similar patterns of hepatic gene expression regulation in the bovine model. <i>PLoS ONE</i> , <b>2013</b> , 8, e73552	3.7	4
49	Effect of maternal methionine supplementation on the transcriptome of bovine preimplantation embryos. <i>PLoS ONE</i> , <b>2013</b> , 8, e72302	3.7	63
48	RNA-Seq analysis uncovers transcriptomic variations between morphologically similar in vivo- and in vitro-derived bovine blastocysts. <i>BMC Genomics</i> , <b>2012</b> , 13, 118	4.5	82
47	Patterns of gene expression in the bovine corpus luteum following repeated intrauterine infusions of low doses of prostaglandin F2alpha. <i>Biology of Reproduction</i> , <b>2012</b> , 86, 130	3.9	65
46	Improving fertility to timed artificial insemination by manipulation of circulating progesterone concentrations in lactating dairy cattle. <i>Reproduction, Fertility and Development</i> , <b>2011</b> , 24, 238-43	1.8	78
45	Managing the dominant follicle in lactating dairy cows. <i>Theriogenology</i> , <b>2011</b> , 76, 1568-82	2.8	66
44	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> , <b>2011</b> , 152, 2797-805	4.8	20
43	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> , <b>2011</b> , 84, 26-33	3.9	17
42	The role of luteinizing hormone in regulating gene expression during selection of a dominant follicle in cattle. <i>Biology of Reproduction</i> , <b>2011</b> , 84, 369-78	3.9	67
41	Effect of Progesterone Concentration During Follicle Development on Subsequent Ovulation, Fertilization, and Early Embryo Development in Lactating Dairy Cows.. <i>Biology of Reproduction</i> , <b>2011</b> , 85, 685-685	3.9	8
40	Factors affecting fertilisation and early embryo quality in single- and superovulated dairy cattle. <i>Reproduction, Fertility and Development</i> , <b>2010</b> , 22, 151-8	1.8	90
39	Management of dry and transition cows to improve energy balance and reproduction. <i>Journal of Reproduction and Development</i> , <b>2010</b> , 56 Suppl, S22-8	2.1	26
38	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> , <b>2010</b> , 83, 225-225	3.9	
37	Effect of Glucocorticoid Treatment to Induce Insulin Resistance on Follicle Development and Ovulation.. <i>Biology of Reproduction</i> , <b>2010</b> , 83, 600-600	3.9	
36	Managing the dominant follicle in high-producing dairy cows. <i>Society of Reproduction and Fertility Supplement</i> , <b>2010</b> , 67, 231-45		
35	Role of follicular estradiol-17beta in timing of luteolysis in heifers. <i>Biology of Reproduction</i> , <b>2009</b> , 81, 426-37	3.9	70
34	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> , <b>2009</b> , 81, 490-490	3.9	1

33	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> , <b>2009</b> , 81, 53-53	3.9	
32	A new presynchronization system (Double-Ovsynch) increases fertility at first postpartum timed AI in lactating dairy cows. <i>Theriogenology</i> , <b>2008</b> , 70, 208-15	2.8	388
31	DO ESTRADIOL AND PROGESTERONE REGULATE THEIR OWN METABOLISM?. <i>Biology of Reproduction</i> , <b>2007</b> , 77, 214-214	3.9	
30	Distinct regulation by steroids of messenger RNAs for FSHR and CYP19A1 in bovine granulosa cells. <i>Biology of Reproduction</i> , <b>2006</b> , 75, 217-25	3.9	85
29	Changes in reproductive physiology of lactating dairy cows due to elevated steroid metabolism. <i>Theriogenology</i> , <b>2006</b> , 65, 17-29	2.8	271
28	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> , <b>2005</b> , 28, 172-89	2.3	28
27	Length of progesterone exposure needed to resolve large follicle anovular condition in dairy cows. <i>Theriogenology</i> , <b>2005</b> , 63, 202-18	2.8	39
26	Reproductive hormones and follicular growth during development of one or multiple dominant follicles in cattle. <i>Biology of Reproduction</i> , <b>2005</b> , 72, 788-95	3.9	68
25	Follicular cysts occur after a normal estradiol-induced GnRH/LH surge if the corpus hemorrhagicum is removed. <i>Reproduction</i> , <b>2005</b> , 129, 737-45	3.8	21
24	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> , <b>2004</b> , 70, 1886-94	3.9	44
23	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> , <b>2004</b> , 70, 1333-9	3.9	32
22	Regulation of intraluteal production of prostaglandins. <i>Reproductive Biology and Endocrinology</i> , <b>2003</b> , 1, 91	5	67
21	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> , <b>2002</b> , 66, 468-74	3.9	41
20	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> , <b>2002</b> , 66, 1505-14	3.9	34
19	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> , <b>2002</b> , 66, 1689-95	3.9	61
18	Differential regulation of prostaglandin endoperoxide synthase-2 transcription in ovine granulosa and large luteal cells. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2001</b> , 65, 103-16	3.7	9
17	Follicular deviation and acquisition of ovulatory capacity in bovine follicles. <i>Biology of Reproduction</i> , <b>2001</b> , 65, 1403-9	3.9	230
16	Prostaglandin F(2alpha) receptor in the corpus luteum: recent information on the gene, messenger ribonucleic acid, and protein. <i>Biology of Reproduction</i> , <b>2001</b> , 64, 1041-7	3.9	49

15	Transcriptional regulation of cyclooxygenase-2 gene in ovine large luteal cells. <i>Biology of Reproduction</i> , <b>2001</b> , 65, 1565-72	3.9	18
14	Actions of prostaglandin F2alpha and prolactin on intercellular adhesion molecule-1 expression and monocyte/macrophage accumulation in the rat corpus luteum. <i>Biology of Reproduction</i> , <b>2001</b> , 64, 890-7	3.9	7
13	Determination of transfection efficiency by direct polymerase chain reaction. <i>Analytical Biochemistry</i> , <b>1999</b> , 271, 108-11	3.1	5
12	Relationship between follicular development and the decline in the follicle-stimulating hormone surge in heifers. <i>Biology of Reproduction</i> , <b>1999</b> , 60, 72-7	3.9	35
11	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> , <b>1998</b> , 81, 2139-44	4	189
10	Prostaglandin F2alpha regulates distinct physiological changes in early and mid-cycle bovine corpora lutea. <i>Biology of Reproduction</i> , <b>1998</b> , 58, 346-52	3.9	146
9	Hormonal regulation of monocyte chemoattractant protein-1 messenger ribonucleic acid expression in corpora lutea. <i>Endocrinology</i> , <b>1997</b> , 138, 4517-20	4.8	56
8	Prostaglandin F2alpha 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> , <b>1997</b> , 57, 1016-22	3.9	99
7	Reproductive management of lactating dairy cows using synchronization of ovulation. <i>Journal of Dairy Science</i> , <b>1997</b> , 80, 301-6	4	274
6	Quantification of mRNA using competitive RT-PCR with standard-curve methodology. <i>BioTechniques</i> , <b>1996</b> , 21, 862-6	2.5	99
5	Cell types and hormonal mechanisms associated with mid-cycle corpus luteum function. <i>Journal of Animal Science</i> , <b>1994</b> , 72, 1873-83	0.7	63
4	Regulation of cytochrome P450scc synthesis and activity in the ovine corpus luteum. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>1994</b> , 51, 283-90	5.1	20
3	Proteins secreted from the early ovine conceptus block the action of prostaglandin F2 alpha on large luteal cells. <i>Biology of Reproduction</i> , <b>1992</b> , 46, 475-82	3.9	18
2	Regulation of the corpus luteum by protein kinase C. II. Inhibition of lipoprotein-stimulated steroidogenesis by prostaglandin F2 alpha. <i>Biology of Reproduction</i> , <b>1990</b> , 42, 239-45	3.9	63
1	Regulation of blood flow to the rabbit corpus luteum: effects of estradiol and human chorionic gonadotropin. <i>Endocrinology</i> , <b>1989</b> , 124, 605-11	4.8	29