

Iain Martin Sheldon

List of Publications by Citations

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124
papers

7,535
citations

45
h-index

85
g-index

128
ext. papers

8,681
ext. citations

3.3
avg, IF

6.09
L-index

#	Paper	IF	Citations
124	Defining postpartum uterine disease in cattle. <i>Theriogenology</i> , 2006 , 65, 1516-30	2.8	747
123	Defining postpartum uterine disease and the mechanisms of infection and immunity in the female reproductive tract in cattle. <i>Biology of Reproduction</i> , 2009 , 81, 1025-32	3.9	520
122	Clinical evaluation of postpartum vaginal mucus reflects uterine bacterial infection and the immune response in cattle. <i>Theriogenology</i> , 2005 , 63, 102-17	2.8	351
121	Influence of uterine bacterial contamination after parturition on ovarian dominant follicle selection and follicle growth and function in cattle. <i>Reproduction</i> , 2002 , 123, 837-845	3.8	313
120	Postpartum uterine health in cattle. <i>Animal Reproduction Science</i> , 2004 , 82-83, 295-306	2.1	273
119	The relationship between uterine pathogen growth density and ovarian function in the postpartum dairy cow. <i>Theriogenology</i> , 2007 , 68, 549-59	2.8	230
118	Ovarian follicular cells have innate immune capabilities that modulate their endocrine function. <i>Reproduction</i> , 2007 , 134, 683-93	3.8	229
117	Uterine diseases in cattle after parturition. <i>Veterinary Journal</i> , 2008 , 176, 115-21	2.5	221
116	Expression and function of Toll-like receptor 4 in the endometrial cells of the uterus. <i>Endocrinology</i> , 2006 , 147, 562-70	4.8	218
115	Specific strains of Escherichia coli are pathogenic for the endometrium of cattle and cause pelvic inflammatory disease in cattle and mice. <i>PLoS ONE</i> , 2010 , 5, e9192	3.7	181
114	Toll-like receptor 4 and MYD88-dependent signaling mechanisms of the innate immune system are essential for the response to lipopolysaccharide by epithelial and stromal cells of the bovine endometrium. <i>Biology of Reproduction</i> , 2012 , 86, 51	3.9	169
113	The high-producing dairy cow and its reproductive performance. <i>Reproduction in Domestic Animals</i> , 2007 , 42 Suppl 2, 17-23	1.6	152
112	Bacterial lipopolysaccharide induces an endocrine switch from prostaglandin F2alpha to prostaglandin E2 in bovine endometrium. <i>Endocrinology</i> , 2009 , 150, 1912-20	4.8	142
111	Dynasore - not just a dynamin inhibitor. <i>Cell Communication and Signaling</i> , 2015 , 13, 24	7.5	139
110	Mechanisms of infertility associated with clinical and subclinical endometritis in high producing dairy cattle. <i>Reproduction in Domestic Animals</i> , 2009 , 44 Suppl 3, 1-9	1.6	135
109	Toll-like receptor and antimicrobial peptide expression in the bovine endometrium. <i>Reproductive Biology and Endocrinology</i> , 2008 , 6, 53	5	133
108	Expression of genes associated with immunity in the endometrium of cattle with disparate postpartum uterine disease and fertility. <i>Reproductive Biology and Endocrinology</i> , 2009 , 7, 55	5	123

107	Lipopolysaccharide initiates inflammation in bovine granulosa cells via the TLR4 pathway and perturbs oocyte meiotic progression in vitro. <i>Endocrinology</i> , 2011 , 152, 5029-40	4.8	111
106	Acute phase protein responses to uterine bacterial contamination in cattle after calving. <i>Veterinary Record</i> , 2001 , 148, 172-5	0.9	103
105	Risk factors for clinical endometritis in postpartum dairy cattle. <i>Theriogenology</i> , 2010 , 74, 127-34	2.8	99
104	Epithelial and stromal cells of bovine endometrium have roles in innate immunity and initiate inflammatory responses to bacterial lipopeptides in vitro via Toll-like receptors TLR2, TLR1, and TLR6. <i>Endocrinology</i> , 2014 , 155, 1453-65	4.8	97
103	The effect of Escherichia coli lipopolysaccharide and tumour necrosis factor alpha on ovarian function. <i>American Journal of Reproductive Immunology</i> , 2008 , 60, 462-73	3.8	94
102	Invited review: Learning from the future-A vision for dairy farms and cows in 2067. <i>Journal of Dairy Science</i> , 2018 , 101, 3722-3741	4	88
101	The postpartum uterus. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2004 , 20, 569-91	4.6	84
100	Innate immunity and inflammation of the bovine female reproductive tract in health and disease. <i>Reproduction</i> , 2014 , 148, R41-51	3.8	83
99	Differential endometrial cell sensitivity to a cholesterol-dependent cytolysin links Trueperella pyogenes to uterine disease in cattle. <i>Biology of Reproduction</i> , 2014 , 90, 54	3.9	76
98	Pathogen-associated molecular patterns initiate inflammation and perturb the endocrine function of bovine granulosa cells from ovarian dominant follicles via TLR2 and TLR4 pathways. <i>Endocrinology</i> , 2013 , 154, 3377-86	4.8	75
97	Comparison of three treatments for bovine endometritis. <i>Veterinary Record</i> , 1998 , 142, 575-9	0.9	72
96	Tolerance and Innate Immunity Shape the Development of Postpartum Uterine Disease and the Impact of Endometritis in Dairy Cattle. <i>Annual Review of Animal Biosciences</i> , 2019 , 7, 361-384	13.7	66
95	Immunity and inflammation in the uterus. <i>Reproduction in Domestic Animals</i> , 2012 , 47 Suppl 4, 402-9	1.6	65
94	Toll-like receptor 4 mediates the response of epithelial and stromal cells to lipopolysaccharide in the endometrium. <i>PLoS ONE</i> , 2010 , 5, e12906	3.7	64
93	Minimum inhibitory concentrations of some antimicrobial drugs against bacteria causing uterine infections in cattle. <i>Veterinary Record</i> , 2004 , 155, 383-7	0.9	64
92	Effect of postpartum manual examination of the vagina on uterine bacterial contamination in cows. <i>Veterinary Record</i> , 2002 , 151, 531-4	0.9	64
91	Lipopolysaccharide reduces the primordial follicle pool in the bovine ovarian cortex ex vivo and in the murine ovary in vivo. <i>Biology of Reproduction</i> , 2013 , 88, 98	3.9	63
90	Bovine herpesvirus 4 is tropic for bovine endometrial cells and modulates endocrine function. <i>Reproduction</i> , 2007 , 134, 183-97	3.8	62

89	PHYSIOLOGY AND ENDOCRINOLOGY SYMPOSIUM: Uterine infection: linking infection and innate immunity with infertility in the high-producing dairy cow. <i>Journal of Animal Science</i> , 2015 , 93, 2021-33	0.7	60
88	Mechanisms linking bacterial infections of the bovine endometrium to disease and infertility. <i>Reproductive Biology</i> , 2016 , 16, 1-7	2.3	57
87	Explants of intact endometrium to model bovine innate immunity and inflammation ex vivo. <i>American Journal of Reproductive Immunology</i> , 2012 , 67, 526-39	3.8	56
86	Bacterial infection of endometrial stromal cells influences bovine herpesvirus 4 immediate early gene activation: a new insight into bacterial and viral interaction for uterine disease. <i>Reproduction</i> , 2008 , 136, 361-6	3.8	56
85	Use of the cow as a large animal model of uterine infection and immunity. <i>Journal of Reproductive Immunology</i> , 2006 , 69, 13-22	4.2	55
84	Association between postpartum pyrexia and uterine bacterial infection in dairy cattle. <i>Veterinary Record</i> , 2004 , 154, 289-93	0.9	55
83	Phenotypic and functional heterogeneity of bovine blood monocytes. <i>PLoS ONE</i> , 2013 , 8, e71502	3.7	54
82	The effects of <i>Arcanobacterium pyogenes</i> on endometrial function in vitro, and on uterine and ovarian function in vivo. <i>Theriogenology</i> , 2007 , 68, 972-80	2.8	53
81	Innate immunity and the sensing of infection, damage and danger in the female genital tract. <i>Journal of Reproductive Immunology</i> , 2017 , 119, 67-73	4.2	51
80	Cryopreservation of epididymal dog sperm. <i>Animal Reproduction Science</i> , 2001 , 67, 101-11	2.1	46
79	Innate immunity in the human endometrium and ovary. <i>American Journal of Reproductive Immunology</i> , 2011 , 66 Suppl 1, 63-71	3.8	43
78	Protective role of the dynamin inhibitor Dynasore against the cholesterol-dependent cytolysin of <i>Trueperella pyogenes</i> . <i>FASEB Journal</i> , 2015 , 29, 1516-28	0.9	42
77	Peripheral and intrauterine neutrophil function in the cow: the influence of endogenous and exogenous sex steroid hormones. <i>Theriogenology</i> , 2000 , 53, 1591-608	2.8	42
76	Signal transducer and activator of transcription-3 licenses Toll-like receptor 4-dependent interleukin (IL)-6 and IL-8 production via IL-6 receptor-positive feedback in endometrial cells. <i>Mucosal Immunology</i> , 2016 , 9, 1125-36	9.2	39
75	Endometrial cells sense and react to tissue damage during infection of the bovine endometrium via interleukin 1. <i>Scientific Reports</i> , 2014 , 4, 7060	4.9	39
74	Ghrelin inhibits LPS-induced release of IL-6 from mouse dopaminergic neurones. <i>Journal of Neuroinflammation</i> , 2013 , 10, 40	10.1	38
73	Markers of the uterine innate immune response of the mare. <i>Animal Reproduction Science</i> , 2010 , 119, 31-9	2.1	38
72	Variability of Manson and Leaver locomotion scores assigned to dairy cows by different observers. <i>Veterinary Record</i> , 2009 , 164, 388-92	0.9	38

71	Bovine endometrial stromal cells display osteogenic properties. <i>Reproductive Biology and Endocrinology</i> , 2008 , 6, 65	5	38
70	Postpartum uterine infection and endometritis in dairy cattle. <i>Animal Reproduction</i> , 2017 , 14, 622-629	1.7	36
69	Effect of Escherichia coli infection of the bovine uterus from the whole animal to the cell. <i>Animal</i> , 2008 , 2, 1153-7	3.1	34
68	Granulosa cells from emerged antral follicles of the bovine ovary initiate inflammation in response to bacterial pathogen-associated molecular patterns via Toll-like receptor pathways. <i>Biology of Reproduction</i> , 2013 , 89, 119	3.9	31
67	Effects of gonadotrophin releasing hormone administered 11 days after insemination on the pregnancy rates of cattle to the first and later services. <i>Veterinary Record</i> , 1993 , 133, 160-3	0.9	31
66	The chemokine IL8 is up-regulated in bovine endometrial stromal cells by the BoHV-4 IE2 gene product, ORF50/Rta: a step ahead toward a mechanism for BoHV-4 induced endometritis. <i>Biology of Reproduction</i> , 2010 , 83, 919-28	3.9	30
65	The effect of intrauterine administration of estradiol on postpartum uterine involution in cattle. <i>Theriogenology</i> , 2003 , 59, 1357-71	2.8	28
64	Peripheral blood leukocytes of cows with subclinical endometritis show an altered cellular composition and gene expression. <i>Theriogenology</i> , 2014 , 81, 906-17	2.8	27
63	Ovarian steroids do not affect bovine endometrial cytokine or chemokine responses to Escherichia coli or LPS in vitro. <i>Reproduction</i> , 2014 , 148, 593-606	3.8	27
62	Polarised bovine endometrial epithelial cells vectorially secrete prostaglandins and chemotactic factors under physiological and pathological conditions. <i>Reproduction</i> , 2013 , 145, 57-72	3.8	27
61	The management of bovine reproduction in elite herds. <i>Veterinary Journal</i> , 2006 , 171, 70-8	2.5	26
60	Glucose Availability and AMP-Activated Protein Kinase Link Energy Metabolism and Innate Immunity in the Bovine Endometrium. <i>PLoS ONE</i> , 2016 , 11, e0151416	3.7	25
59	Enzyme linked immunosorbent assay for quantification of bovine interleukin-8 to study infection and immunity in the female genital tract. <i>American Journal of Reproductive Immunology</i> , 2015 , 73, 372-82 ^{3.8}	3.8	24
58	The influence of ovarian activity and uterine involution determined by ultrasonography on subsequent reproductive performance of dairy cows. <i>Theriogenology</i> , 2000 , 54, 409-19	2.8	24
57	A model of clinical endometritis in Holstein heifers using pathogenic Escherichia coli and Trueperella pyogenes. <i>Journal of Dairy Science</i> , 2019 , 102, 2686-2697	4	22
56	Polarized Epithelial Cells Secrete Interleukin 6 Apically in the Bovine Endometrium. <i>Biology of Reproduction</i> , 2015 , 92, 151	3.9	21
55	Toll-like receptor expression and function in the COV434 granulosa cell line. <i>American Journal of Reproductive Immunology</i> , 2012 , 68, 205-17	3.8	21
54	Inhibiting mevalonate pathway enzymes increases stromal cell resilience to a cholesterol-dependent cytolysin. <i>Scientific Reports</i> , 2017 , 7, 17050	4.9	21

53	Tethered bilayer membranes as a complementary tool for functional and structural studies: The pyolysin case. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2070-2080	3.8	20
52	Isolation and characterization of bovine herpesvirus 4 (BoHV-4) from a cow affected by post partum metritis and cloning of the genome as a bacterial artificial chromosome. <i>Reproductive Biology and Endocrinology</i> , 2009 , 7, 83	5	19
51	Effect of intrauterine administration of oestradiol on postpartum uterine bacterial infection in cattle. <i>Animal Reproduction Science</i> , 2004 , 81, 13-23	2.1	19
50	Preventing postpartum uterine disease in dairy cattle depends on avoiding, tolerating and resisting pathogenic bacteria. <i>Theriogenology</i> , 2020 , 150, 158-165	2.8	18
49	Symposium review: Mechanisms linking metabolic stress with innate immunity in the endometrium. <i>Journal of Dairy Science</i> , 2018 , 101, 3655-3664	4	17
48	Bovine endometrial stromal cells support tumor necrosis factor alpha-induced bovine herpesvirus type 4 enhanced replication. <i>Biology of Reproduction</i> , 2013 , 88, 135	3.9	17
47	Endometrial explant culture for characterizing equine endometritis. <i>American Journal of Reproductive Immunology</i> , 2008 , 59, 105-17	3.8	17
46	Mevalonate Biosynthesis Intermediates Are Key Regulators of Innate Immunity in Bovine Endometritis. <i>Journal of Immunology</i> , 2016 , 196, 823-31	5.3	16
45	Association between clinical hypocalcaemia and postpartum endometritis. <i>Veterinary Record</i> , 2005 , 157, 202-3	0.9	16
44	SOCS genes expression during physiological and perturbed implantation in bovine endometrium. <i>Reproduction</i> , 2014 , 148, 545-57	3.8	15
43	The effect of maternal body condition score before and during pregnancy on the glucose tolerance of adult sheep offspring. <i>Reproductive Sciences</i> , 2008 , 15, 448-56	3	15
42	Persistent effects on bovine granulosa cell transcriptome after resolution of uterine disease. <i>Reproduction</i> , 2019 , 158, 35-46	3.8	15
41	Effect of administration of eCG to postpartum cows on folliculogenesis in the ovary ipsilateral to the previously gravid uterine horn and uterine involution. <i>Reproduction</i> , 2000 , 157-163	3.8	15
40	Analysis of STAT1 expression and biological activity reveals interferon-tau-dependent STAT1-regulated SOCS genes in the bovine endometrium. <i>Reproduction, Fertility and Development</i> , 2016 , 28, 459-74	1.8	14
39	A three-dimensional model of primary bovine endometrium using an electrospun scaffold. <i>Biofabrication</i> , 2015 , 7, 025010	10.5	14
38	Draft Genome Sequence of Escherichia coli MS499, Isolated from the Infected Uterus of a Postpartum Cow with Metritis. <i>Genome Announcements</i> , 2014 , 2,		13
37	Field investigation of perinatal mortality in friesian cattle associated with myocardial degeneration and necrosis. <i>Reproduction in Domestic Animals</i> , 2008 , 43, 339-345	1.6	13
36	Genes and environmental factors that influence disease resistance to microbes in the female reproductive tract of dairy cattle. <i>Reproduction, Fertility and Development</i> , 2014 , 27, 72-81	1.8	12

35	Short communication: Glutamine modulates inflammatory responses to lipopolysaccharide in ex vivo bovine endometrium. <i>Journal of Dairy Science</i> , 2017 , 100, 2207-2212	4	11
34	Isoprenoids increase bovine endometrial stromal cell tolerance to the cholesterol-dependent cytolysin from <i>Trueperella pyogenes</i> . <i>Biology of Reproduction</i> , 2018 , 99, 749-760	3.9	11
33	Genomic characterisation of an endometrial pathogenic <i>Escherichia coli</i> strain reveals the acquisition of genetic elements associated with extra-intestinal pathogenicity. <i>BMC Genomics</i> , 2014 , 15, 1075	4.5	11
32	Bovine fertility - practical implications of the maternal recognition of pregnancy. <i>In Practice</i> , 1997 , 19, 546-556	0.3	11
31	Subclinical endometritis in dairy cattle is associated with distinct mRNA expression patterns in blood and endometrium. <i>PLoS ONE</i> , 2019 , 14, e0220244	3.7	10
30	Draft Genome Sequence of <i>Trueperella pyogenes</i> , Isolated from the Infected Uterus of a Postpartum Cow with Metritis. <i>Genome Announcements</i> , 2014 , 2,		10
29	Effect of the regressing corpus luteum of pregnancy on ovarian folliculogenesis after parturition in cattle. <i>Biology of Reproduction</i> , 2002 , 66, 266-71	3.9	10
28	Detection of Pathogens in Blood for Diagnosis of Sepsis and Beyond. <i>EBioMedicine</i> , 2016 , 9, 13-14	8.8	10
27	Toll-like receptor and related cytokine mRNA expression in bovine corpora lutea during the oestrous cycle and pregnancy. <i>Reproduction in Domestic Animals</i> , 2017 , 52, 495-504	1.6	9
26	The effect of oestradiol on postpartum uterine involution in sheep. <i>Animal Reproduction Science</i> , 2003 , 78, 57-70	2.1	9
25	Reduced conception rates associated with bovine mastitis during a Window of opportunityV <i>Veterinary Record</i> , 2007 , 161, 61-2	0.9	8
24	Uterine infection alters the transcriptome of the bovine reproductive tract three months later. <i>Reproduction</i> , 2020 , 160, 93-107	3.8	7
23	Liquid crystal delivery of ciprofloxacin to treat infections of the female reproductive tract. <i>Biomedical Microdevices</i> , 2019 , 21, 36	3.7	6
22	Maternal metabolism affects endometrial expression of oxidative stress and FOXL2 genes in cattle. <i>PLoS ONE</i> , 2017 , 12, e0189942	3.7	6
21	The postpartum period and modern dairy cow fertility Part 1: Uterine function. <i>Livestock</i> , 2011 , 16, 14-18		6
20	Coordinated Role of Toll-Like Receptor-3 and Retinoic Acid-Inducible Gene-I in the Innate Response of Bovine Endometrial Cells to Virus. <i>Frontiers in Immunology</i> , 2017 , 8, 996	8.4	5
19	Endometrial explant culture to study the response of equine endometrium to insemination. <i>Reproduction in Domestic Animals</i> , 2010 , 45, 670-6	1.6	5
18	Experimentally Induced Endometritis Impairs the Developmental Capacity of Bovine Oocytes□ <i>Biology of Reproduction</i> , 2020 , 103, 508-520	3.9	4

17	Diagnosing postpartum endometritis in dairy cattle. <i>Veterinary Record</i> , 2020 , 186, 88-90	0.9	4
16	Influence of Griseofulvin treatment on semen quality in the dog. <i>Animal Reproduction Science</i> , 2004 , 80, 175-81	2.1	4
15	Oxysterols protect bovine endometrial cells against pore-forming toxins from pathogenic bacteria. <i>FASEB Journal</i> , 2021 , 35, e21889	0.9	4
14	Glutamine supports the protection of tissue cells against the damage caused by cholesterol-dependent cytolysins from pathogenic bacteria. <i>PLoS ONE</i> , 2020 , 15, e0219275	3.7	3
13	Metabolic stress and endometritis in dairy cattle. <i>Veterinary Record</i> , 2018 , 183, 124-125	0.9	3
12	Conceptus-induced, interferon tau-dependent gene expression in bovine endometrial epithelial and stromal cells <i>Biology of Reproduction</i> , 2021 , 104, 669-683	3.9	3
11	Uterine infusion of bacteria alters the transcriptome of bovine oocytes. <i>FASEB BioAdvances</i> , 2020 , 2, 506-520	2.8	3
10	Bisphosphonate inhibitors of squalene synthase protect cells against cholesterol-dependent cytolysins. <i>FASEB Journal</i> , 2021 , 35, e21640	0.9	3
9	Bovine scavenger receptor class A (SR-A) exhibit specific patterns of regulation in the endometrium during the oestrous cycle and early pregnancy. <i>Reproduction, Fertility and Development</i> , 2019 , 31, 1078-1090	1.8	2
8	is a Progesterone Target Gene in the Endometrium of Ruminants. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
7	Pregnancy diagnosis in cattle. <i>In Practice</i> , 1985 , 7, 46, 48-9, 51	0.3	2
6	Lipopolysaccharide and tumor necrosis factor-alpha alter gene expression of oocytes and cumulus cells during bovine in vitro maturation. <i>Molecular Reproduction and Development</i> , 2019 , 86, 1909-1920	2.6	1
5	Oxysterols Protect Epithelial Cells Against Pore-Forming Toxins.. <i>Frontiers in Immunology</i> , 2022 , 13, 815775	7.4	1
4	Manipulating bovine granulosa cell energy metabolism limits inflammation. <i>Reproduction</i> , 2021 , 161, 499-512	3.8	1
3	The Metritis Complex in Cattle 2019 , 408-433		1
2	The endometrial transcriptomic response to pregnancy is altered in cows after uterine infection.. <i>PLoS ONE</i> , 2022 , 17, e0265062	3.7	0
1	The postpartum period and dairy cow fertility Part 2: Ovarian function. <i>Livestock</i> , 2011 , 16, 20-24		