

Iain Martin Sheldon

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

9,943
citations

44069

48
h-index

36028

97
g-index

128
all docs

128
docs citations

128
times ranked

4797
citing authors

#	ARTICLE	IF	CITATIONS
1	Defining postpartum uterine disease in cattle. <i>Theriogenology</i> , 2006, 65, 1516-1530.	2.1	992
2	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, 1025-1032.	2.7	685
3	Clinical evaluation of postpartum vaginal mucus reflects uterine bacterial infection and the immune response in cattle. <i>Theriogenology</i> , 2005, 63, 102-117.	2.1	464
4	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.	2.6	427
5	Postpartum uterine health in cattle. <i>Animal Reproduction Science</i> , 2004, 82-83, 295-306.	1.5	365
6	Uterine diseases in cattle after parturition. <i>Veterinary Journal</i> , 2008, 176, 115-121.	1.7	304
7	Ovarian follicular cells have innate immune capabilities that modulate their endocrine function. <i>Reproduction</i> , 2007, 134, 683-693.	2.6	286
8	The relationship between uterine pathogen growth density and ovarian function in the postpartum dairy cow. <i>Theriogenology</i> , 2007, 68, 549-559.	2.1	286
9	Expression and Function of Toll-Like Receptor 4 in the Endometrial Cells of the Uterus. <i>Endocrinology</i> , 2006, 147, 562-570.	2.8	247
10	Specific Strains of <i>Escherichia coli</i> Are Pathogenic for the Endometrium of Cattle and Cause Pelvic Inflammatory Disease in Cattle and Mice. <i>PLoS ONE</i> , 2010, 5, e9192.	2.5	224
11	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.	2.7	214
12	Dynasore - not just a dynamin inhibitor. <i>Cell Communication and Signaling</i> , 2015, 13, 24.	6.5	212
13	The High-Producing Dairy Cow and its Reproductive Performance. <i>Reproduction in Domestic Animals</i> , 2007, 42, 17-23.	1.4	189
14	Mechanisms of Infertility Associated with Clinical and Subclinical Endometritis in High Producing Dairy Cattle. <i>Reproduction in Domestic Animals</i> , 2009, 44, 1-9.	1.4	185
15	Bacterial Lipopolysaccharide Induces an Endocrine Switch from Prostaglandin F _{2α} to Prostaglandin E ₂ in Bovine Endometrium. <i>Endocrinology</i> , 2009, 150, 1912-1920.	2.8	172
16	Toll-like receptor and antimicrobial peptide expression in the bovine endometrium. <i>Reproductive Biology and Endocrinology</i> , 2008, 6, 53.	3.3	167
17	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.	3.3	157
18	Lipopolysaccharide Initiates Inflammation in Bovine Granulosa Cells via the TLR4 Pathway and Perturbs Oocyte Meiotic Progression in Vitro. <i>Endocrinology</i> , 2011, 152, 5029-5040.	2.8	146

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19	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.	3.4	142
20	Risk factors for clinical endometritis in postpartum dairy cattle. <i>Theriogenology</i> , 2010, 74, 127-134.	2.1	138
21	Acute phase protein responses to uterine bacterial contamination in cattle after calving. <i>Veterinary Record</i> , 2001, 148, 172-175.	0.3	122
22	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.	7.4	119
23	ORIGINAL ARTICLE: The Effect of <i>Escherichia coli</i> Lipopolysaccharide and Tumour Necrosis Factor Alpha on Ovarian Function. <i>American Journal of Reproductive Immunology</i> , 2008, 60, 462-473.	1.2	117
24	Innate immunity and inflammation of the bovine female reproductive tract in health and disease. <i>Reproduction</i> , 2014, 148, R41-R51.	2.6	115
25	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, 1453-1465.	2.8	113
26	The postpartum uterus. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2004, 20, 569-591.	1.2	111
27	Differential Endometrial Cell Sensitivity to a Cholesterol-Dependent Cytolysin Links <i>Trueperella pyogenes</i> to Uterine Disease in Cattle. <i>Biology of Reproduction</i> , 2014, 90, 54.	2.7	103
28	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.	2.7	98
29	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, 3377-3386.	2.8	97
30	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, 2021-2033.	0.5	93
31	Comparison of three treatments for bovine endometritis. <i>Veterinary Record</i> , 1998, 142, 575-579.	0.3	89
32	Mechanisms linking bacterial infections of the bovine endometrium to disease and infertility. <i>Reproductive Biology</i> , 2016, 16, 1-7.	1.9	84
33	Immunity and Inflammation in the Uterus. <i>Reproduction in Domestic Animals</i> , 2012, 47, 402-409.	1.4	82
34	Effect of postpartum manual examination of the vagina on uterine bacterial contamination in cows. <i>Veterinary Record</i> , 2002, 151, 531-534.	0.3	80
35	Toll-Like Receptor 4 Mediates the Response of Epithelial and Stromal Cells to Lipopolysaccharide in the Endometrium. <i>PLoS ONE</i> , 2010, 5, e12906.	2.5	73
36	Minimum inhibitory concentrations of some antimicrobial drugs against bacteria causing uterine infections in cattle. <i>Veterinary Record</i> , 2004, 155, 383-387.	0.3	72

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37	Phenotypic and Functional Heterogeneity of Bovine Blood Monocytes. PLoS ONE, 2013, 8, e71502.	2.5	72
38	Bovine herpesvirus 4 is tropic for bovine endometrial cells and modulates endocrine function. Reproduction, 2007, 134, 183-197.	2.6	71
39	Explants of Intact Endometrium to Model Bovine Innate Immunity and Inflammation <i>Ex Vivo</i> . American Journal of Reproductive Immunology, 2012, 67, 526-539.	1.2	69
40	Cryopreservation of epididymal dog sperm. Animal Reproduction Science, 2001, 67, 101-111.	1.5	65
41	Association between postpartum pyrexia and uterine bacterial infection in dairy cattle. Veterinary Record, 2004, 154, 289-293.	0.3	65
42	Use of the cow as a large animal model of uterine infection and immunity. Journal of Reproductive Immunology, 2006, 69, 13-22.	1.9	63
43	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. Reproduction, 2008, 136, 361-366.	2.6	62
44	Innate immunity and the sensing of infection, damage and danger in the female genital tract. Journal of Reproductive Immunology, 2017, 119, 67-73.	1.9	61
45	The effects of Arcanobacterium pyogenes on endometrial function in vitro, and on uterine and ovarian function in vivo. Theriogenology, 2007, 68, 972-980.	2.1	59
46	Postpartum uterine infection and endometritis in dairy cattle. Animal Reproduction, 2017, 14, 622-629.	1.0	58
47	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. Mucosal Immunology, 2016, 9, 1125-1136.	6.0	51
48	Preventing postpartum uterine disease in dairy cattle depends on avoiding, tolerating and resisting pathogenic bacteria. Theriogenology, 2020, 150, 158-165.	2.1	51
49	Endometrial cells sense and react to tissue damage during infection of the bovine endometrium via interleukin 1. Scientific Reports, 2014, 4, 7060.	3.3	49
50	Variability of Manson and Leaver locomotion scores assigned to dairy cows by different observers. Veterinary Record, 2009, 164, 388-392.	0.3	48
51	Innate Immunity in the Human Endometrium and Ovary. American Journal of Reproductive Immunology, 2011, 66, 63-71.	1.2	48
52	Protective role of the dynamin inhibitor Dynasore against the cholesterol-dependent cytolysin of <i>Trueperella pyogenes</i> . FASEB Journal, 2015, 29, 1516-1528.	0.5	48
53	Effect of Escherichia coli infection of the bovine uterus from the whole animal to the cell. Animal, 2008, 2, 1153-1157.	3.3	45
54	Peripheral and intrauterine neutrophil function in the cow: the influence of endogenous and exogenous sex steroid hormones. Theriogenology, 2000, 53, 1591-1608.	2.1	44

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55	Bovine endometrial stromal cells display osteogenic properties. <i>Reproductive Biology and Endocrinology</i> , 2008, 6, 65.	3.3	44
56	Markers of the uterine innate immune response of the mare. <i>Animal Reproduction Science</i> , 2010, 119, 31-39.	1.5	44
57	Chrelin inhibits LPS-induced release of IL-6 from mouse dopaminergic neurones. <i>Journal of Neuroinflammation</i> , 2013, 10, 40.	7.2	41
58	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, 160-163.	0.3	40
59	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 ¹ . <i>Biology of Reproduction</i> , 2013, 89, 119.	2.7	39
60	A model of clinical endometritis in Holstein heifers using pathogenic <i>Escherichia coli</i> and <i>Trueperella pyogenes</i> . <i>Journal of Dairy Science</i> , 2019, 102, 2686-2697.	3.4	37
61	The effect of intrauterine administration of estradiol on postpartum uterine involution in cattle. <i>Theriogenology</i> , 2003, 59, 1357-1371.	2.1	35
62	The influence of ovarian activity and uterine involution determined by ultrasonography on subsequent reproductive performance of dairy cows. <i>Theriogenology</i> , 2000, 54, 409-419.	2.1	33
63	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 ¹ . <i>Biology of Reproduction</i> , 2010, 83, 919-928.	2.7	33
64	Polarised bovine endometrial epithelial cells vectorially secrete prostaglandins and chemotactic factors under physiological and pathological conditions. <i>Reproduction</i> , 2013, 145, 57-72.	2.6	33
65	Peripheral blood leukocytes of cows with subclinical endometritis show an altered cellular composition and gene expression. <i>Theriogenology</i> , 2014, 81, 906-917.	2.1	32
66	Glucose Availability and AMP-Activated Protein Kinase Link Energy Metabolism and Innate Immunity in the Bovine Endometrium. <i>PLoS ONE</i> , 2016, 11, e0151416.	2.5	31
67	Effect of intrauterine administration of oestradiol on postpartum uterine bacterial infection in cattle. <i>Animal Reproduction Science</i> , 2004, 81, 13-23.	1.5	30
68	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, 372-382.	1.2	30
69	The management of bovine reproduction in elite herds. <i>Veterinary Journal</i> , 2006, 171, 70-78.	1.7	29
70	Ovarian steroids do not affect bovine endometrial cytokine or chemokine responses to <i>Escherichia coli</i> or LPS in vitro. <i>Reproduction</i> , 2014, 148, 593-606.	2.6	29
71	Mevalonate Biosynthesis Intermediates Are Key Regulators of Innate Immunity in Bovine Endometritis. <i>Journal of Immunology</i> , 2016, 196, 823-831.	0.8	29
72	Association between clinical hypocalcaemia and postpartum endometritis. <i>Veterinary Record</i> , 2005, 157, 202-204.	0.3	28

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73	Genes and environmental factors that influence disease resistance to microbes in the female reproductive tract of dairy cattle. <i>Reproduction, Fertility and Development</i> , 2015, 27, 72.	0.4	28
74	Persistent effects on bovine granulosa cell transcriptome after resolution of uterine disease. <i>Reproduction</i> , 2019, 158, 35-46.	2.6	28
75	Polarized Epithelial Cells Secrete Interleukin 6 Apically in the Bovine Endometrium1. <i>Biology of Reproduction</i> , 2015, 92, 151.	2.7	27
76	A three-dimensional model of primary bovine endometrium using an electrospun scaffold. <i>Biofabrication</i> , 2015, 7, 025010.	7.1	26
77	Inhibiting mevalonate pathway enzymes increases stromal cell resilience to a cholesterol-dependent cytolysin. <i>Scientific Reports</i> , 2017, 7, 17050.	3.3	26
78	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.	2.6	25
79	Symposium review: Mechanisms linking metabolic stress with innate immunity in the endometrium. <i>Journal of Dairy Science</i> , 2018, 101, 3655-3664.	3.4	25
80	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.	3.3	24
81	Short communication: Glutamine modulates inflammatory responses to lipopolysaccharide in ex vivo bovine endometrium. <i>Journal of Dairy Science</i> , 2017, 100, 2207-2212.	3.4	24
82	TLR4-Like Receptor Expression and Function in the COV434 Granulosa Cell Line. <i>American Journal of Reproductive Immunology</i> , 2012, 68, 205-217.	1.2	23
83	ORIGINAL ARTICLE: Endometrial Explant Culture for Characterizing Equine Endometritis. <i>American Journal of Reproductive Immunology</i> , 2008, 59, 105-117.	1.2	22
84	Subclinical endometritis in dairy cattle is associated with distinct mRNA expression patterns in blood and endometrium. <i>PLoS ONE</i> , 2019, 14, e0220244.	2.5	21
85	Bovine Endometrial Stromal Cells Support Tumor Necrosis Factor Alpha-Induced Bovine Herpesvirus Type 4 Enhanced Replication1. <i>Biology of Reproduction</i> , 2013, 88, 135.	2.7	19
86	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.	0.4	19
87	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, 448-456.	2.5	18
88	Experimentally Induced Endometritis Impairs the Developmental Capacity of Bovine Oocytes. <i>Biology of Reproduction</i> , 2020, 103, 508-520.	2.7	18
89	Uterine infection alters the transcriptome of the bovine reproductive tract three months later. <i>Reproduction</i> , 2020, 160, 93-107.	2.6	18
90	SOCS genes expression during physiological and perturbed implantation in bovine endometrium. <i>Reproduction</i> , 2014, 148, 545-557.	2.6	17

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91	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.	2.6	17
92	Field Investigation of Perinatal Mortality in Friesian Cattle Associated with Myocardial Degeneration and Necrosis. <i>Reproduction in Domestic Animals</i> , 2008, 43, 339-345.	1.4	15
93	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.	4.8	15
94	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.	2.7	15
95	Bovine fertility –practical implications of the maternal recognition of pregnancy. <i>In Practice</i> , 1997, 19, 546-556.	0.2	14
96	Draft Genome Sequence of <i>Escherichia coli</i> MS499, Isolated from the Infected Uterus of a Postpartum Cow with Metritis. <i>Genome Announcements</i> , 2014, 2, .	0.8	14
97	Detection of Pathogens in Blood for Diagnosis of Sepsis and Beyond. <i>EBioMedicine</i> , 2016, 9, 13-14.	6.1	14
98	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.	1.4	14
99	Conceptus-induced, interferon tau-dependent gene expression in bovine endometrial epithelial and stromal cells. <i>Biology of Reproduction</i> , 2021, 104, 669-683.	2.7	14
100	The effect of oestradiol on postpartum uterine involution in sheep. <i>Animal Reproduction Science</i> , 2003, 78, 57-70.	1.5	13
101	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.	2.8	13
102	Effect of the Regressing Corpus Luteum of Pregnancy on Ovarian Folliculogenesis after Parturition in Cattle. <i>Biology of Reproduction</i> , 2002, 66, 266-271.	2.7	11
103	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, .	0.8	11
104	Maternal metabolism affects endometrial expression of oxidative stress and FOXL2 genes in cattle. <i>PLoS ONE</i> , 2017, 12, e0189942.	2.5	11
105	Reduced conception rates associated with bovine mastitis during a “window of opportunity”. <i>Veterinary Record</i> , 2007, 161, 61-62.	0.3	9
106	Lipopolysaccharide and tumor necrosis factor- α alter gene expression of oocytes and cumulus cells during bovine in vitro maturation. <i>Molecular Reproduction and Development</i> , 2019, 86, 1909-1920.	2.0	9
107	FOXL2 is a Progesterone Target Gene in the Endometrium of Ruminants. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1478.	4.1	9
108	Diagnosing postpartum endometritis in dairy cattle. <i>Veterinary Record</i> , 2020, 186, 88-90.	0.3	9

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109	The postpartum period and modern dairy cow fertility Part 1: Uterine function. <i>Livestock</i> , 2011, 16, 14-18.	0.0	8
110	Liquid crystal delivery of ciprofloxacin to treat infections of the female reproductive tract. <i>Biomedical Microdevices</i> , 2019, 21, 36.	2.8	8
111	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.	2.5	8
112	Oxysterols Protect Epithelial Cells Against Pore-Forming Toxins. <i>Frontiers in Immunology</i> , 2022, 13, 815775.	4.8	8
113	Uterine infusion of bacteria alters the transcriptome of bovine oocytes. <i>FASEB BioAdvances</i> , 2020, 2, 506-520.	2.4	7
114	Bisphosphonate inhibitors of squalene synthase protect cells against cholesterol-dependent cytolysins. <i>FASEB Journal</i> , 2021, 35, e21640.	0.5	7
115	Oxysterols protect bovine endometrial cells against pore-forming toxins from pathogenic bacteria. <i>FASEB Journal</i> , 2021, 35, e21889.	0.5	7
116	Endometrial Explant Culture to Study the Response of Equine Endometrium to Insemination. <i>Reproduction in Domestic Animals</i> , 2009, 45, 670-6.	1.4	6
117	Manipulating bovine granulosa cell energy metabolism limits inflammation. <i>Reproduction</i> , 2021, 161, 499-512.	2.6	6
118	The endometrial transcriptomic response to pregnancy is altered in cows after uterine infection. <i>PLoS ONE</i> , 2022, 17, e0265062.	2.5	5
119	Influence of Griseofulvin treatment on semen quality in the dog. <i>Animal Reproduction Science</i> , 2004, 80, 175-181.	1.5	4
120	Metabolic stress and endometritis in dairy cattle. <i>Veterinary Record</i> , 2018, 183, 124-125.	0.3	4
121	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.	0.4	4
122	The Metritis Complex in Cattle. , 2019, , 408-433.		4
123	Milk somatic cell counts and pregnancy rates in dairy cattle. <i>Veterinary Record</i> , 2015, 176, 409-410.	0.3	3
124	Pregnancy diagnosis in cattle. <i>In Practice</i> , 1985, 7, 46-51.	0.2	2
125	The postpartum period and dairy cow fertility Part 2: Ovarian function. <i>Livestock</i> , 2011, 16, 20-24.	0.0	0