

Iain Martin Sheldon

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

9,943
citations

50566

48
h-index

40945

97
g-index

128
all docs

128
docs citations

128
times ranked

5077
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxysterols Protect Epithelial Cells Against Pore-Forming Toxins. <i>Frontiers in Immunology</i> , 2022, 13, 815775.	2.2	8
2	The endometrial transcriptomic response to pregnancy is altered in cows after uterine infection. <i>PLoS ONE</i> , 2022, 17, e0265062.	1.1	5
3	Manipulating bovine granulosa cell energy metabolism limits inflammation. <i>Reproduction</i> , 2021, 161, 499-512.	1.1	6
4	Bisphosphonate inhibitors of squalene synthase protect cells against cholesterol-dependent cytolysins. <i>FASEB Journal</i> , 2021, 35, e21640.	0.2	7
5	Oxysterols protect bovine endometrial cells against pore-forming toxins from pathogenic bacteria. <i>FASEB Journal</i> , 2021, 35, e21889.	0.2	7
6	Conceptus-induced, interferon tau-dependent gene expression in bovine endometrial epithelial and stromal cells. <i>Biology of Reproduction</i> , 2021, 104, 669-683.	1.2	14
7	Uterine infusion of bacteria alters the transcriptome of bovine oocytes. <i>FASEB BioAdvances</i> , 2020, 2, 506-520.	1.3	7
8	Experimentally Induced Endometritis Impairs the Developmental Capacity of Bovine Oocytes. <i>Biology of Reproduction</i> , 2020, 103, 508-520.	1.2	18
9	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.	1.1	8
10	FOXL2 is a Progesterone Target Gene in the Endometrium of Ruminants. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1478.	1.8	9
11	Diagnosing postpartum endometritis in dairy cattle. <i>Veterinary Record</i> , 2020, 186, 88-90.	0.2	9
12	Preventing postpartum uterine disease in dairy cattle depends on avoiding, tolerating and resisting pathogenic bacteria. <i>Theriogenology</i> , 2020, 150, 158-165.	0.9	51
13	Uterine infection alters the transcriptome of the bovine reproductive tract three months later. <i>Reproduction</i> , 2020, 160, 93-107.	1.1	18
14	Subclinical endometritis in dairy cattle is associated with distinct mRNA expression patterns in blood and endometrium. <i>PLoS ONE</i> , 2019, 14, e0220244.	1.1	21
15	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.	1.0	9
16	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.	1.4	37
17	Liquid crystal delivery of ciprofloxacin to treat infections of the female reproductive tract. <i>Biomedical Microdevices</i> , 2019, 21, 36.	1.4	8
18	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.	0.1	4

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19	The Metritis Complex in Cattle. , 2019, , 408-433.		4
20	Tolerance and Innate Immunity Shape the Development of Postpartum Uterine Disease and the Impact of Endometritis in Dairy Cattle. Annual Review of Animal Biosciences, 2019, 7, 361-384.	3.6	119
21	Persistent effects on bovine granulosa cell transcriptome after resolution of uterine disease. Reproduction, 2019, 158, 35-46.	1.1	28
22	Invited review: Learning from the futureâ€”A vision for dairy farms and cows in 2067. Journal of Dairy Science, 2018, 101, 3722-3741.	1.4	142
23	Isoprenoids increase bovine endometrial stromal cell tolerance to the cholesterol-dependent cytolytic factor from <i>Trueperella pyogenes</i> . Biology of Reproduction, 2018, 99, 749-760.	1.2	15
24	Symposium review: Mechanisms linking metabolic stress with innate immunity in the endometrium. Journal of Dairy Science, 2018, 101, 3655-3664.	1.4	25
25	Metabolic stress and endometritis in dairy cattle. Veterinary Record, 2018, 183, 124-125.	0.2	4
26	Short communication: Glutamine modulates inflammatory responses to lipopolysaccharide in ex vivo bovine endometrium. Journal of Dairy Science, 2017, 100, 2207-2212.	1.4	24
27	Toll-like receptor and related cytokine mRNA expression in bovine corpora lutea during the oestrous cycle and pregnancy. Reproduction in Domestic Animals, 2017, 52, 495-504.	0.6	14
28	Innate immunity and the sensing of infection, damage and danger in the female genital tract. Journal of Reproductive Immunology, 2017, 119, 67-73.	0.8	61
29	Inhibiting mevalonate pathway enzymes increases stromal cell resilience to a cholesterol-dependent cytolytic factor. Scientific Reports, 2017, 7, 17050.	1.6	26
30	Coordinated Role of Toll-Like Receptor-3 and Retinoic Acid-Inducible Gene-I in the Innate Response of Bovine Endometrial Cells to Virus. Frontiers in Immunology, 2017, 8, 996.	2.2	15
31	Maternal metabolism affects endometrial expression of oxidative stress and FOXL2 genes in cattle. PLoS ONE, 2017, 12, e0189942.	1.1	11
32	Postpartum uterine infection and endometritis in dairy cattle. Animal Reproduction, 2017, 14, 622-629.	0.4	58
33	Tethered bilayer membranes as a complementary tool for functional and structural studies: The pyolysin case. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2070-2080.	1.4	25
34	Detection of Pathogens in Blood for Diagnosis of Sepsis and Beyond. EBioMedicine, 2016, 9, 13-14.	2.7	14
35	Mevalonate Biosynthesis Intermediates Are Key Regulators of Innate Immunity in Bovine Endometritis. Journal of Immunology, 2016, 196, 823-831.	0.4	29
36	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.	2.7	51

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37	Mechanisms linking bacterial infections of the bovine endometrium to disease and infertility. <i>Reproductive Biology</i> , 2016, 16, 1-7.	0.9	84
38	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.	0.1	19
39	Glucose Availability and AMP-Activated Protein Kinase Link Energy Metabolism and Innate Immunity in the Bovine Endometrium. <i>PLoS ONE</i> , 2016, 11, e0151416.	1.1	31
40	PHYSIOLOGY AND ENDOCRINOLOGY SYMPOSIUM: Uterine infection: Linking infection and innate immunity with infertility in the high-producing dairy cow ^{1,2} . <i>Journal of Animal Science</i> , 2015, 93, 2021-2033.	0.2	93
41	A three-dimensional model of primary bovine endometrium using an electrospun scaffold. <i>Biofabrication</i> , 2015, 7, 025010.	3.7	26
42	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.	0.1	28
43	Protective role of the dynamin inhibitor Dynasore against the cholesterol-dependent cytolysin of <i>Trueperella pyogenes</i> . <i>FASEB Journal</i> , 2015, 29, 1516-1528.	0.2	48
44	Polarized Epithelial Cells Secrete Interleukin 6 Apically in the Bovine Endometrium ¹ . <i>Biology of Reproduction</i> , 2015, 92, 151.	1.2	27
45	Dynasore - not just a dynamin inhibitor. <i>Cell Communication and Signaling</i> , 2015, 13, 24.	2.7	212
46	Milk somatic cell counts and pregnancy rates in dairy cattle. <i>Veterinary Record</i> , 2015, 176, 409-410.	0.2	3
47	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
48	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
49	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.	1.4	113
50	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.	1.2	13
51	SOCS genes expression during physiological and perturbed implantation in bovine endometrium. <i>Reproduction</i> , 2014, 148, 545-557.	1.1	17
52	Peripheral blood leukocytes of cows with subclinical endometritis show an altered cellular composition and gene expression. <i>Theriogenology</i> , 2014, 81, 906-917.	0.9	32
53	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.	1.1	29
54	Differential Endometrial Cell Sensitivity to a Cholesterol-Dependent Cytolysin Links <i>Trueperella pyogenes</i> to Uterine Disease in Cattle ¹ . <i>Biology of Reproduction</i> , 2014, 90, 54.	1.2	103

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55	Innate immunity and inflammation of the bovine female reproductive tract in health and disease. <i>Reproduction</i> , 2014, 148, R41-R51.	1.1	115
56	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
57	Endometrial cells sense and react to tissue damage during infection of the bovine endometrium via interleukin 1. <i>Scientific Reports</i> , 2014, 4, 7060.	1.6	49
58	Ghrelin inhibits LPS-induced release of IL-6 from mouse dopaminergic neurones. <i>Journal of Neuroinflammation</i> , 2013, 10, 40.	3.1	41
59	Polarised bovine endometrial epithelial cells vectorially secrete prostaglandins and chemotactic factors under physiological and pathological conditions. <i>Reproduction</i> , 2013, 145, 57-72.	1.1	33
60	Bovine Endometrial Stromal Cells Support Tumor Necrosis Factor Alpha-Induced Bovine Herpesvirus Type 4 Enhanced Replication ¹ . <i>Biology of Reproduction</i> , 2013, 88, 135.	1.2	19
61	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.	1.4	97
62	Lipopolysaccharide Reduces the Primordial Follicle Pool in the Bovine Ovarian Cortex Ex Vivo and in the Murine Ovary In Vivo ¹ . <i>Biology of Reproduction</i> , 2013, 88, 98.	1.2	98
63	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.	1.2	39
64	Phenotypic and Functional Heterogeneity of Bovine Blood Monocytes. <i>PLoS ONE</i> , 2013, 8, e71502.	1.1	72
65	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 ¹ . <i>Biology of Reproduction</i> , 2012, 86, 51.	1.2	214
66	Toll-Like Receptor Expression and Function in the COV-434 Granulosa Cell Line. <i>American Journal of Reproductive Immunology</i> , 2012, 68, 205-217.	1.2	23
67	Explants of Intact Endometrium to Model Bovine Innate Immunity and Inflammation <i>Ex Vivo</i> . <i>American Journal of Reproductive Immunology</i> , 2012, 67, 526-539.	1.2	69
68	Immunity and Inflammation in the Uterus. <i>Reproduction in Domestic Animals</i> , 2012, 47, 402-409.	0.6	82
69	The postpartum period and dairy cow fertility Part 2: Ovarian function. <i>Livestock</i> , 2011, 16, 20-24.	0.1	0
70	Innate Immunity in the Human Endometrium and Ovary. <i>American Journal of Reproductive Immunology</i> , 2011, 66, 63-71.	1.2	48
71	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.	1.4	146
72	The postpartum period and modern dairy cow fertility Part 1: Uterine function. <i>Livestock</i> , 2011, 16, 14-18.	0.1	8

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73	Toll-Like Receptor 4 Mediates the Response of Epithelial and Stromal Cells to Lipopolysaccharide in the Endometrium. PLoS ONE, 2010, 5, e12906.	1.1	73
74	Specific Strains of Escherichia coli Are Pathogenic for the Endometrium of Cattle and Cause Pelvic Inflammatory Disease in Cattle and Mice. PLoS ONE, 2010, 5, e9192.	1.1	224
75	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 Endometritis1. Biology of Reproduction, 2010, 83, 919-928.	1.2	33
76	Risk factors for clinical endometritis in postpartum dairy cattle. Theriogenology, 2010, 74, 127-134.	0.9	138
77	Markers of the uterine innate immune response of the mare. Animal Reproduction Science, 2010, 119, 31-39.	0.5	44
78	Variability of Manson and Leaver locomotion scores assigned to dairy cows by different observers. Veterinary Record, 2009, 164, 388-392.	0.2	48
79	Bacterial Lipopolysaccharide Induces an Endocrine Switch from Prostaglandin F2 α to Prostaglandin E2 in Bovine Endometrium. Endocrinology, 2009, 150, 1912-1920.	1.4	172
80	Mechanisms of Infertility Associated with Clinical and Subclinical Endometritis in High Producing Dairy Cattle. Reproduction in Domestic Animals, 2009, 44, 1-9.	0.6	185
81	Endometrial Explant Culture to Study the Response of Equine Endometrium to Insemination. Reproduction in Domestic Animals, 2009, 45, 670-6.	0.6	6
82	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. Reproductive Biology and Endocrinology, 2009, 7, 83.	1.4	24
83	Expression of genes associated with immunity in the endometrium of cattle with disparate postpartum uterine disease and fertility. Reproductive Biology and Endocrinology, 2009, 7, 55.	1.4	157
84	Defining Postpartum Uterine Disease and the Mechanisms of Infection and Immunity in the Female Reproductive Tract in Cattle1. Biology of Reproduction, 2009, 81, 1025-1032.	1.2	685
85	ORIGINAL ARTICLE: Endometrial Explant Culture for Characterizing Equine Endometritis. American Journal of Reproductive Immunology, 2008, 59, 105-117.	1.2	22
86	ORIGINAL ARTICLE: The Effect of <i>Escherichia coli</i> Lipopolysaccharide and Tumour Necrosis Factor Alpha on Ovarian Function. American Journal of Reproductive Immunology, 2008, 60, 462-473.	1.2	117
87	Field Investigation of Perinatal Mortality in Friesian Cattle Associated with Myocardial Degeneration and Necrosis. Reproduction in Domestic Animals, 2008, 43, 339-345.	0.6	15
88	Uterine diseases in cattle after parturition. Veterinary Journal, 2008, 176, 115-121.	0.6	304
89	Effect of Escherichia coli infection of the bovine uterus from the whole animal to the cell. Animal, 2008, 2, 1153-1157.	1.3	45
90	Toll-like receptor and antimicrobial peptide expression in the bovine endometrium. Reproductive Biology and Endocrinology, 2008, 6, 53.	1.4	167

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91	Bovine endometrial stromal cells display osteogenic properties. <i>Reproductive Biology and Endocrinology</i> , 2008, 6, 65.	1.4	44
92	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.	1.1	18
93	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, 361-366.	1.1	62
94	Ovarian follicular cells have innate immune capabilities that modulate their endocrine function. <i>Reproduction</i> , 2007, 134, 683-693.	1.1	286
95	Bovine herpesvirus 4 is tropic for bovine endometrial cells and modulates endocrine function. <i>Reproduction</i> , 2007, 134, 183-197.	1.1	71
96	The relationship between uterine pathogen growth density and ovarian function in the postpartum dairy cow. <i>Theriogenology</i> , 2007, 68, 549-559.	0.9	286
97	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, 972-980.	0.9	59
98	Reduced conception rates associated with bovine mastitis during a "window of opportunity". <i>Veterinary Record</i> , 2007, 161, 61-62.	0.2	9
99	The High-producing Dairy Cow and its Reproductive Performance. <i>Reproduction in Domestic Animals</i> , 2007, 42, 17-23.	0.6	189
100	Expression and Function of Toll-Like Receptor 4 in the Endometrial Cells of the Uterus. <i>Endocrinology</i> , 2006, 147, 562-570.	1.4	247
101	Defining postpartum uterine disease in cattle. <i>Theriogenology</i> , 2006, 65, 1516-1530.	0.9	992
102	The management of bovine reproduction in elite herds. <i>Veterinary Journal</i> , 2006, 171, 70-78.	0.6	29
103	Use of the cow as a large animal model of uterine infection and immunity. <i>Journal of Reproductive Immunology</i> , 2006, 69, 13-22.	0.8	63
104	Association between clinical hypocalcaemia and postpartum endometritis. <i>Veterinary Record</i> , 2005, 157, 202-204.	0.2	28
105	Clinical evaluation of postpartum vaginal mucus reflects uterine bacterial infection and the immune response in cattle. <i>Theriogenology</i> , 2005, 63, 102-117.	0.9	464
106	Association between postpartum pyrexia and uterine bacterial infection in dairy cattle. <i>Veterinary Record</i> , 2004, 154, 289-293.	0.2	65
107	Minimum inhibitory concentrations of some antimicrobial drugs against bacteria causing uterine infections in cattle. <i>Veterinary Record</i> , 2004, 155, 383-387.	0.2	72
108	Effect of intrauterine administration of oestradiol on postpartum uterine bacterial infection in cattle. <i>Animal Reproduction Science</i> , 2004, 81, 13-23.	0.5	30

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109	Postpartum uterine health in cattle. <i>Animal Reproduction Science</i> , 2004, 82-83, 295-306.	0.5	365
110	The postpartum uterus. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2004, 20, 569-591.	0.5	111
111	Influence of Griseofulvin treatment on semen quality in the dog. <i>Animal Reproduction Science</i> , 2004, 80, 175-181.	0.5	4
112	The effect of intrauterine administration of estradiol on postpartum uterine involution in cattle. <i>Theriogenology</i> , 2003, 59, 1357-1371.	0.9	35
113	The effect of oestradiol on postpartum uterine involution in sheep. <i>Animal Reproduction Science</i> , 2003, 78, 57-70.	0.5	13
114	Effect of postpartum manual examination of the vagina on uterine bacterial contamination in cows. <i>Veterinary Record</i> , 2002, 151, 531-534.	0.2	80
115	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.	1.1	427
116	Effect of the Regressing Corpus Luteum of Pregnancy on Ovarian Folliculogenesis after Parturition in Cattle. <i>Biology of Reproduction</i> , 2002, 66, 266-271.	1.2	11
117	Cryopreservation of epididymal dog sperm. <i>Animal Reproduction Science</i> , 2001, 67, 101-111.	0.5	65
118	Acute phase protein responses to uterine bacterial contamination in cattle after calving. <i>Veterinary Record</i> , 2001, 148, 172-175.	0.2	122
119	Peripheral and intrauterine neutrophil function in the cow: the influence of endogenous and exogenous sex steroid hormones. <i>Theriogenology</i> , 2000, 53, 1591-1608.	0.9	44
120	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.	0.9	33
121	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.	1.1	17
122	Comparison of three treatments for bovine endometritis. <i>Veterinary Record</i> , 1998, 142, 575-579.	0.2	89
123	Bovine fertility – practical implications of the maternal recognition of pregnancy. <i>In Practice</i> , 1997, 19, 546-556.	0.1	14
124	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.	0.2	40
125	Pregnancy diagnosis in cattle. <i>In Practice</i> , 1985, 7, 46-51.	0.1	2