Greg A Johnson

List of Publications by Citations

103 papers	6,789 citations	51 h-index	81 g-index
104 ext. papers	7,524 ext. citations	3.9 avg, IF	5.38 L-index

#	Paper	IF	Citations
103	Developmental biology of uterine glands. *Biology of Reproduction*, **2001**, 65, 1311-23	3.9	331
102	Comparative aspects of implantation. *Reproduction*, **2009**, 138, 195-209	3.8	254
101	Progesterone and placental hormone actions on the uterus: insights from domestic animals. *Biology of Reproduction*, **2004**, 71, 2-10	3.9	250
100	Novel pathways for implantation and establishment and maintenance of pregnancy in mammals. *Molecular Human Reproduction*, **2010**, 16, 135-52	4.4	240
99	Osteopontin: roles in implantation and placentation. *Biology of Reproduction*, **2003**, 69, 1458-71	3.9	235
98	Implantation mechanisms: insights from the sheep. *Reproduction*, **2004**, 128, 657-68	3.8	234
97	Pregnancy recognition and conceptus implantation in domestic ruminants: roles of progesterone, interferons and endogenous retroviruses. *Reproduction, Fertility and Development*, **2007**, 19, 65-78	1.8	211
96	Important roles for the arginine family of amino acids in swine nutrition and production. *Livestock Science*, **2007**, 112, 8-22	1.7	187
95	Muc-1, integrin, and osteopontin expression during the implantation cascade in sheep. *Biology of Reproduction*, **2001**, 65, 820-8	3.9	159
94	Select nutrients in the ovine uterine lumen. I. Amino acids, glucose, and ions in uterine lumenal flushings of cyclic and pregnant ewes. *Biology of Reproduction*, **2009**, 80, 86-93	3.9	148
93	Interferons and progesterone for establishment and maintenance of pregnancy: interactions among novel cell signaling pathways. *Reproductive Biology*, **2008**, 8, 179-211	2.3	146
92	Randomized trial of intermittent intraputamenal glial cell line-derived neurotrophic factor in Parkinson's disease. *Brain*, **2019**, 142, 512-525	11.2	142
91	Interferon regulatory factor-two restricts expression of interferon-stimulated genes to the endometrial stroma and glandular epithelium of the ovine uterus. *Biology of Reproduction*, **2001**, 65, 1038-49	3.9	127
90	Prolactin receptor and uterine milk protein expression in the ovine endometrium during the estrous cycle and pregnancy. *Biology of Reproduction*, **2000**, 62, 1779-89	3.9	120
89	Keratinocyte growth factor is up-regulated by estrogen in the porcine uterine endometrium and functions in trophectoderm cell proliferation and differentiation. *Endocrinology*, **2001**, 142, 2303-10	4.8	119
88	Polyamine synthesis from proline in the developing porcine placenta. *Biology of Reproduction*, **2005**, 72, 842-50	3.9	115
87	Integrins and extracellular matrix proteins at the maternal-fetal interface in domestic animals. *Cells Tissues Organs*, **2002**, 172, 202-17	2.1	115

86	Expression of the interferon tau inducible ubiquitin cross-reactive protein in the ovine uterus. *Biology of Reproduction*, **1999**, 61, 312-8	3.9	114
85	Ovine osteopontin: II. Osteopontin and alpha(v)beta(3) integrin expression in the uterus and conceptus during the periimplantation period. *Biology of Reproduction*, **1999**, 61, 892-9	3.9	114
84	Effects of recombinant ovine interferon tau, placental lactogen, and growth hormone on the ovine uterus. *Biology of Reproduction*, **1999**, 61, 1409-18	3.9	114
83	Analysis of osteopontin at the maternal-placental interface in pigs. *Biology of Reproduction*, **2002**, 66, 718-25	3.9	102
82	Uterine receptivity to implantation of blastocysts in mammals. *Frontiers in Bioscience - Scholar*, **2011** , 3, 745-67	2.4	92
81	Secreted phosphoprotein 1 (SPP1, osteopontin) binds to integrin alpha v beta 6 on porcine trophectoderm cells and integrin alpha v beta 3 on uterine luminal epithelial cells, and promotes trophectoderm cell adhesion and migration. *Biology of Reproduction*, **2009**, 81, 814-25	3.9	92
80	Ovine osteopontin: I. Cloning and expression of messenger ribonucleic acid in the uterus during the periimplantation period. *Biology of Reproduction*, **1999**, 61, 884-91	3.9	87
79	Select nutrients in the ovine uterine lumen. ii. glucose transporters in the uterus and peri-implantation conceptuses. *Biology of Reproduction*, **2009**, 80, 94-104	3.9	85
78	Interferon-tau activates multiple signal transducer and activator of transcription proteins and has complex effects on interferon-responsive gene transcription in ovine endometrial epithelial cells. *Endocrinology*, **2001**, 142, 98-107	4.8	82
77	Keratinocyte growth factor: expression by endometrial epithelia of the porcine uterus. *Biology of Reproduction*, **2000**, 62, 1772-8	3.9	82
76	Steroid regulation of cell specific secreted phosphoprotein 1 (osteopontin) expression in the pregnant porcine uterus. *Biology of Reproduction*, **2005**, 73, 1294-301	3.9	78
75	Progesterone modulation of osteopontin gene expression in the ovine uterus. *Biology of Reproduction*, **2000**, 62, 1315-21	3.9	78
74	Development and characterization of immortalized ovine endometrial cell lines. *Biology of Reproduction*, **1999**, 61, 1324-30	3.9	78
73	Effects of the estrous cycle, pregnancy, and interferon tau on 2Ţ5Ţoligoadenylate synthetase expression in the ovine uterus. *Biology of Reproduction*, **2001**, 64, 1392-9	3.9	76
72	Extended Treatment with Glial Cell Line-Derived Neurotrophic Factor in Parkinsonţs Disease. *Journal of Parkinsonţs Disease*, **2019**, 9, 301-313	5.3	75
71	Select nutrients in the ovine uterine lumen. VII. Effects of arginine, leucine, glutamine, and glucose on trophectoderm cell signaling, proliferation, and migration. *Biology of Reproduction*, **2011**, 84, 62-9	3.9	74
70	Glutamine synthesis in the developing porcine placenta. *Biology of Reproduction*, **2004**, 70, 1444-51	3.9	72
69	Pregnancy and interferon tau regulate major histocompatibility complex class I and beta2-microglobulin expression in the ovine uterus. *Biology of Reproduction*, **2003**, 68, 1703-10	3.9	71

68	Pig conceptuses secrete estrogen and interferons to differentially regulate uterine STAT1 in a temporal and cell type-specific manner. *Endocrinology*, **2007**, 148, 4420-31	4.8	70
67	Osteopontin expression in uterine stroma indicates a decidualization-like differentiation during ovine pregnancy. *Biology of Reproduction*, **2003**, 68, 1951-8	3.9	68
66	Interferon-tau and progesterone regulate ubiquitin cross-reactive protein expression in the ovine uterus. *Biology of Reproduction*, **2000**, 62, 622-7	3.9	68
65	Secreted phosphoprotein 1 binds integrins to initiate multiple cell signaling pathways, including FRAP1/mTOR, to support attachment and force-generated migration of trophectoderm cells. *Matrix Biology*, **2010**, 29, 369-82	11.4	64
64	Bovine interferon-tau stimulates the Janus kinase-signal transducer and activator of transcription pathway in bovine endometrial epithelial cells. *Biology of Reproduction*, **2001**, 64, 654-65	3.9	63
63	Uterine histotroph and conceptus development: select nutrients and secreted phosphoprotein 1 affect mechanistic target of rapamycin cell signaling in ewes. *Biology of Reproduction*, **2011**, 85, 1094-107	3.9	62
62	Select nutrients in the ovine uterine lumen. VIII. Arginine stimulates proliferation of ovine trophectoderm cells through MTOR-RPS6K-RPS6 signaling cascade and synthesis of nitric oxide and polyamines. *Biology of Reproduction*, **2011**, 84, 70-8	3.9	60
61	Insulin-like growth factor II activates phosphatidylinositol 3-kinase-protooncogenic protein kinase 1 and mitogen-activated protein kinase cell Signaling pathways, and stimulates migration of ovine trophectoderm cells. *Endocrinology*, **2008**, 149, 3085-94	4.8	60
60	Osteopontin: a leading candidate adhesion molecule for implantation in pigs and sheep. *Journal of Animal Science and Biotechnology*, **2014**, 5, 56	6	56
59	Functional effects of transforming growth factor beta on adhesive properties of porcine trophectoderm. *Endocrinology*, **2005**, 146, 3933-42	4.8	55
58	Select nutrients in the ovine uterine lumen. IX. Differential effects of arginine, leucine, glutamine, and glucose on interferon tau, ornithine decarboxylase, and nitric oxide synthase in the ovine conceptus. *Biology of Reproduction*, **2011**, 84, 1139-47	3.9	53
57	Uterine MHC class I molecules and beta 2-microglobulin are regulated by progesterone and conceptus interferons during pig pregnancy. *Journal of Immunology*, **2008**, 181, 2494-505	5.3	53
56	Regulation of expression of fibroblast growth factor 7 in the pig uterus by progesterone and estradiol. *Biology of Reproduction*, **2007**, 77, 172-80	3.9	53
55	Osteopontin is synthesized by uterine glands and a 45-kDa cleavage fragment is localized at the uterine-placental interface throughout ovine pregnancy. *Biology of Reproduction*, **2003**, 69, 92-8	3.9	52
54	Cathepsin B, cathepsin L, and cystatin C in the porcine uterus and placenta: potential roles in endometrial/placental remodeling and in fluid-phase transport of proteins secreted by uterine epithelia across placental areolae. *Biology of Reproduction*, **2010**, 82, 854-64	3.9	51
53	Ovine placental lactogen specifically binds to endometrial glands of the ovine uterus. *Biology of Reproduction*, **2003**, 68, 772-80	3.9	51
52	Enhanced focal adhesion assembly reflects increased mechanosensation and mechanotransduction at maternal-conceptus interface and uterine wall during ovine pregnancy. *Reproduction*, **2009**, 137, 567-82	3.8	50
51	Cloning of the ovine estrogen receptor-alpha promoter and functional regulation by ovine interferon-tau. *Endocrinology*, **2001**, 142, 2879-87	4.8	50

50	Interferon stimulated gene 15 conjugates to endometrial cytosolic proteins and is expressed at the uterine-placental interface throughout pregnancy in sheep. *Endocrinology*, **2005**, 146, 675-84	4.8	48
49	Premature estrogen exposure alters endometrial gene expression to disrupt pregnancy in the pig. *Endocrinology*, **2007**, 148, 4761-73	4.8	46
48	The many faces of interferon tau. *Amino Acids*, **2015**, 47, 449-60	3.5	44
47	Select nutrients in the ovine uterine lumen. V. Nitric oxide synthase, GTP cyclohydrolase, and ornithine decarboxylase in ovine uteri and peri-implantation conceptuses. *Biology of Reproduction*, **2009**, 81, 67-76	3.9	44
46	Insulin-like growth factor binding protein-1 in the ruminant uterus: potential endometrial marker and regulator of conceptus elongation. *Endocrinology*, **2009**, 150, 4295-305	4.8	44
45	Galectin 15 (LGALS15): a gene uniquely expressed in the uteri of sheep and goats that functions in trophoblast attachment. *Biology of Reproduction*, **2007**, 77, 1027-36	3.9	43
44	Secreted phosphoprotein 1 (osteopontin) is expressed by stromal macrophages in cyclic and pregnant endometrium of mice, but is induced by estrogen in luminal epithelium during conceptus attachment for implantation. *Reproduction*, **2006**, 132, 919-29	3.8	42
43	Pig conceptuses increase uterine interferon-regulatory factor 1 (IRF1), but restrict expression to stroma through estrogen-induced IRF2 in luminal epithelium. *Biology of Reproduction*, **2007**, 77, 292-302	3.9	42
42	Stanniocalcin 1 is a luminal epithelial marker for implantation in pigs regulated by progesterone and estradiol. *Endocrinology*, **2009**, 150, 936-45	4.8	39
41	Bovine granulocyte chemotactic protein-2 is secreted by the endometrium in response to interferon-tau (IFN-τ). *Endocrine*, **1997**, 6, 31-7		39
40	Mechanistic mammalian target of rapamycin (MTOR) cell signaling: effects of select nutrients and secreted phosphoprotein 1 on development of mammalian conceptuses. *Molecular and Cellular Endocrinology*, **2012**, 354, 22-33	4.4	38
39	Select nutrients and their effects on conceptus development in mammals. *Animal Nutrition*, **2015**, 1, 85-95	4.8	36
38	Interferon-tau (IFNtau) regulation of IFN-stimulated gene expression in cell lines lacking specific IFN-signaling components. *Endocrinology*, **2001**, 142, 1786-94	4.8	34
37	Select nutrients in the ovine uterine lumen. VI. Expression of FK506-binding protein 12-rapamycin complex-associated protein 1 (FRAP1) and regulators and effectors of mTORC1 and mTORC2 complexes in ovine uteri and conceptuses. *Biology of Reproduction*, **2009**, 81, 87-100	3.9	31
36	The temporal expression of osteopontin (SPP-1) in the rodent model of alcoholic steatohepatitis: a potential biomarker. *Toxicologic Pathology*, **2006**, 34, 373-84	2.1	30
35	Monocyte chemotactic protein-1 and -2 messenger ribonucleic acids in the ovine uterus: regulation by pregnancy, progesterone, and interferon-tau. *Biology of Reproduction*, **2001**, 64, 992-1000	3.9	30
34	Roles of Stat1, Stat2, and interferon regulatory factor-9 (IRF-9) in interferon tau regulation of IRF-1. *Biology of Reproduction*, **2002**, 66, 393-400	3.9	30
33	Isolation, immortalization, and initial characterization of uterine cell lines: an in vitro model system for the porcine uterus. *In Vitro Cellular and Developmental Biology - Animal*, **2000**, 36, 650-6	2.6	27

32	Molecular characterization and expression of porcine bone morphogenetic protein receptor-IB in the uterus of cyclic and pregnant gilts. *Biology of Reproduction*, **2003**, 68, 735-43	3.9	25
31	Effects of long-term progesterone on developmental and functional aspects of porcine uterine epithelia and vasculature: progesterone alone does not support development of uterine glands comparable to that of pregnancy. *Reproduction*, **2010**, 140, 583-94	3.8	23
30	Keratinocyte Growth Factor Is Up-Regulated by Estrogen in the Porcine Uterine Endometrium and Functions in Trophectoderm Cell Proliferation and Differentiation		23
29	Fructose Synthesis and Transport at the Uterine-Placental Interface of Pigs: Cell-Specific Localization of SLC2A5, SLC2A8, and Components of the Polyol Pathway. *Biology of Reproduction*, **2016**, 95, 108	3.9	22
28	Progesterone and placentation increase secreted phosphoprotein one (SPP1 or osteopontin) in uterine glands and stroma for histotrophic and hematotrophic support of ovine pregnancy. *Biology of Reproduction*, **2008**, 79, 983-90	3.9	22
27	ITGAV (alpha v integrins) bind SPP1 (osteopontin) to support trophoblast cell adhesion. *Reproduction*, **2017**, 153, 695-706	3.8	21
26	Interferon-Activates Multiple Signal Transducer and Activator of Transcription Proteins and Has Complex Effects on Interferon-Responsive Gene Transcription in Ovine Endometrial Epithelial Cells*This work was supported by NIH Grant HD-32534 (to F.W.B. and T.E.S.) and in part by NIH Grant P30-ES-09106. The publication costs of this article were defrayed in part by the payment of		20
25	The sphingosine 1-phosphate (S1P) signaling pathway is regulated during pregnancy in sheep. *Biology of Reproduction*, **2010**, 82, 876-87	3.9	18
24	Effects of long-term progesterone exposure on porcine uterine gene expression: progesterone alone does not induce secreted phosphoprotein 1 (osteopontin) in glandular epithelium. *Reproduction*, **2010**, 140, 595-604	3.8	17
23	Uterine histotroph and conceptus development. I. cooperative effects of arginine and secreted phosphoprotein 1 on proliferation of ovine trophectoderm cells via activation of the PDK1-Akt/PKB-TSC2-MTORC1 signaling cascade. *Biology of Reproduction*, **2015**, 92, 51	3.9	16
22	Immunohistochemical Examination of Trophoblast Syncytialization during Early Placentation in Sheep. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	15
21	The influence of estrogen on hepatobiliary osteopontin (SPP1) expression in a female rodent model of alcoholic steatohepatitis. *Toxicologic Pathology*, **2009**, 37, 492-501	2.1	15
20	Cloning of the Ovine Estrogen Receptor-Promoter and Functional Regulation by Ovine Interferon-		15
19	Cellular events during ovine implantation and impact for gestation. *Animal Reproduction*, **2018**, 15, 843-855	1.7	14
18	Uterine Histotroph and Conceptus Development. II. Arginine and Secreted Phosphoprotein 1 Cooperatively Stimulate Migration and Adhesion of Ovine Trophectoderm Cells via Focal Adhesion-MTORC2 Mediated Cytoskeleton Reorganization. *Biology of Reproduction*, **2016**, 95, 71	3.9	13
17	Mechanotransduction drives morphogenesis to develop folding during placental development in pigs. *Placenta*, **2020**, 90, 62-70	3.4	12
16	Interferon-(IFN)Regulation of IFN-Stimulated Gene Expression in Cell Lines Lacking Specific IFN-Signaling Components		11
15	Identification of appropriate reference genes for qPCR analyses of placental expression of SLC7A3 and induction of SLC5A1 in porcine endometrium. *Placenta*, **2017**, 52, 1-9	3.4	10

List of Publications

14	Intrauterine infusion of latency-associated peptide (LAP) during early porcine pregnancy affects conceptus elongation and placental size. *Biology of Reproduction*, **2010**, 82, 534-42	3.9	10
13	Glycosylation dependent cell adhesion molecule 1-like protein and L-selectin expression in sheep interplacentomal and placentomal endometrium. *Reproduction*, **2006**, 131, 751-61	3.8	9
12	Placental Proteomics Reveal Insights into Fetal Alcohol Spectrum Disorders. *Alcoholism: Clinical and Experimental Research*, **2017**, 41, 1551-1558	3.7	8
11	Steroids Regulate SLC2A1 and SLC2A3 to Deliver Glucose Into Trophectoderm for Metabolism via Glycolysis. *Endocrinology*, **2020**, 161,	4.8	6
10	Integrins and OPN localize to adhesion complexes during placentation in sheep. *Reproduction*, **2020** , 160, 521-532	3.8	5
9	Loss of ITGB3 in ovine conceptuses decreases conceptus expression of NOS3 and SPP1: implications for the developing placental vasculature *Biology of Reproduction*, **2021**, 104, 657-668	3.9	5
8	OPN binds alpha V integrin to promote endothelial progenitor cell incorporation into vasculature. *Reproduction*, **2020**, 159, 465-478	3.8	3
7	Pig conceptuses secrete interferon gamma to recruit T cells to the endometrium during the peri-implantation period *Biology of Reproduction*, **2020**, 103, 1018-1029	3.9	3
6	FTY720, a sphingosine analog, altered placentome histoarchitecture in ewes. *Journal of Animal Science and Biotechnology*, **2020**, 11, 2	6	2
5	Implantation and Placentation in Ruminants. *Advances in Anatomy, Embryology and Cell Biology*, **2021**, 234, 129-154	1.2	0
4	SPP1 expression in the mouse uterus and placenta: implications for implantation *Biology of Reproduction*, **2021**, 105, 892-904	3.9	0
3	Implantation **2011**, 654-657		
2	Growth and Development: Peri-Implantation Embryo **2011**, 593-596		
1	Maternal recognition of pregnancy. *Reproductive Medicine and Assisted Reproductive Techniques Series*, **2008**, 260-285		