

# Robert P Rhoads

## List of Publications by Citations

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116  
papers

5,398  
citations

38  
h-index

72  
g-index

126  
ext. papers

6,501  
ext. citations

2.7  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
116	Metabolic and hormonal acclimation to heat stress in domesticated ruminants. <i>Animal</i> , <b>2010</b> , 4, 1167-83	3.1	415
115	Effects of heat stress on energetic metabolism in lactating Holstein cows. <i>Journal of Dairy Science</i> , <b>2010</b> , 93, 644-55	4	368
114	Effects of heat stress on postabsorptive metabolism and energetics. <i>Annual Review of Animal Biosciences</i> , <b>2013</b> , 1, 311-37	13.7	350
113	Effects of heat stress and plane of nutrition on lactating Holstein cows: I. Production, metabolism, and aspects of circulating somatotropin. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 1986-97	4	329
112	Invited review: genes involved in the bovine heat stress response. <i>Journal of Dairy Science</i> , <b>2008</b> , 91, 4454-54	4.4	256
111	The acid-labile subunit (ALS) of the 150 kDa IGF-binding protein complex: an important but forgotten component of the circulating IGF system. <i>Journal of Endocrinology</i> , <b>2001</b> , 170, 63-70	4.7	199
110	Heat stress reduces intestinal barrier integrity and favors intestinal glucose transport in growing pigs. <i>PLoS ONE</i> , <b>2013</b> , 8, e70215	3.7	174
109	The effects of heat stress and plane of nutrition on metabolism in growing pigs. <i>Journal of Animal Science</i> , <b>2013</b> , 91, 2108-18	0.7	172
108	Metabolic adaptations to heat stress in growing cattle. <i>Domestic Animal Endocrinology</i> , <b>2010</b> , 38, 86-94	2.3	156
107	Effects of a supplemental yeast culture on heat-stressed lactating Holstein cows. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 935-42	4	136
106	Heat stress and reduced plane of nutrition decreases intestinal integrity and function in pigs. <i>Journal of Animal Science</i> , <b>2013</b> , 91, 5183-93	0.7	126
105	Ruminant Nutrition Symposium: ruminant production and metabolic responses to heat stress. <i>Journal of Animal Science</i> , <b>2012</b> , 90, 1855-65	0.7	126
104	Nutritional interventions to alleviate the negative consequences of heat stress. <i>Advances in Nutrition</i> , <b>2013</b> , 4, 267-76	10	123
103	Postabsorptive carbohydrate adaptations to heat stress and monensin supplementation in lactating Holstein cows. <i>Journal of Dairy Science</i> , <b>2011</b> , 94, 5620-33	4	99
102	Use of physiological parameters to predict milk yield and feed intake in heat-stressed dairy cows. <i>Journal of Thermal Biology</i> , <b>2004</b> , 29, 759-764	2.9	91
101	Satellite cell-mediated angiogenesis in vitro coincides with a functional hypoxia-inducible factor pathway. <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 296, C1321-8	5.4	88
100	349 Awardee Talk: How the Immune System Interacts with Ruminant Nutrient Partitioning. <i>Journal of Animal Science</i> , <b>2021</b> , 99, 193-194	0.7	78

99	PSXII-29 Dietary protein impacts neonatal piglet muscle growth and protein synthesis.. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 80-81	0.7	78
98	Insulin increases the abundance of the growth hormone receptor in liver and adipose tissue of periparturient dairy cows. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 1020-7	4.1	76
97	Lipid metabolism, adipocyte depot physiology and utilization of meat animals as experimental models for metabolic research. <i>International Journal of Biological Sciences</i> , <b>2010</b> , 6, 691-9	11.2	73
96	Possible implication of satellite cells in regenerative motoneuritogenesis: HGF upregulates neural chemorepellent Sema3A during myogenic differentiation. <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 297, C238-52	5.4	72
95	Detrimental effects of high plasma urea nitrogen levels on viability of embryos from lactating dairy cows. <i>Animal Reproduction Science</i> , <b>2006</b> , 91, 1-10	2.1	71
94	Effects of heat stress and nutrition on lactating Holstein cows: II. Aspects of hepatic growth hormone responsiveness. <i>Journal of Dairy Science</i> , <b>2010</b> , 93, 170-9	4	64
93	Effects of heat stress on carbohydrate and lipid metabolism in growing pigs. <i>Physiological Reports</i> , <b>2015</b> , 3, e12315	2.6	62
92	Physiological consequences of heat stress in pigs. <i>Animal Production Science</i> , <b>2015</b> , 55, 1381	1.4	60
91	Heat stress causes oxidative stress but not inflammatory signaling in porcine skeletal muscle. <i>Temperature</i> , <b>2014</b> , 1, 42-50	5.2	58
90	Effects of supplemental zinc amino acid complex on gut integrity in heat-stressed growing pigs. <i>Animal</i> , <b>2014</b> , 8, 43-50	3.1	57
89	Transplantation and perfusion of microvascular fragments in a rodent model of volumetric muscle loss injury. <i>European Cells and Materials</i> , <b>2014</b> , 28, 11-23; discussion 23-4	4.3	56
88	Developmental programming in response to intrauterine growth restriction impairs myoblast function and skeletal muscle metabolism. <i>Journal of Pregnancy</i> , <b>2012</b> , 2012, 631038	2.5	55
87	2011 and 2012 Early Careers Achievement Awards: metabolic priorities during heat stress with an emphasis on skeletal muscle. <i>Journal of Animal Science</i> , <b>2013</b> , 91, 2492-503	0.7	53
86	Myoblasts from intrauterine growth-restricted sheep fetuses exhibit intrinsic deficiencies in proliferation that contribute to smaller semitendinosus myofibres. <i>Journal of Physiology</i> , <b>2014</b> , 592, 3113-25	3.9	51
85	Heat stress increases insulin sensitivity in pigs. <i>Physiological Reports</i> , <b>2015</b> , 3, e12478	2.6	50
84	Effects of in utero heat stress on postnatal body composition in pigs: II. Finishing phase. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 82-92	0.7	45
83	Effect of insulin and growth hormone on plasma leptin in periparturient dairy cows. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2003</b> , 285, R1107-15	3.2	45
82	α-Adrenergic receptor desensitization in perirenal adipose tissue in fetuses and lambs with placental insufficiency-induced intrauterine growth restriction. <i>Journal of Physiology</i> , <b>2010</b> , 588, 3539-49	3.9	42

81	Skeletal muscle stem cells from animals I. Basic cell biology. <i>International Journal of Biological Sciences</i> , <b>2010</b> , 6, 465-74	11.2	42
80	Demonstration of a role for insulin in the regulation of leptin in lactating dairy cows. <i>Journal of Dairy Science</i> , <b>2003</b> , 86, 3508-15	4	41
79	Gestational heat stress alters postnatal offspring body composition indices and metabolic parameters in pigs. <i>PLoS ONE</i> , <b>2014</b> , 9, e110859	3.7	40
78	Alterations in expression of gluconeogenic genes during heat stress and exogenous bovine somatotropin administration. <i>Journal of Dairy Science</i> , <b>2011</b> , 94, 1917-21	4	38
77	Effect of nutrition on the GH responsiveness of liver and adipose tissue in dairy cows. <i>Journal of Endocrinology</i> , <b>2007</b> , 195, 49-58	4.7	37
76	Impact of Climate Change on Livestock Production <b>2012</b> , 413-468		36
75	Effects of in utero heat stress on postnatal body composition in pigs: I. Growing phase. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 71-81	0.7	34
74	Nutritional and developmental regulation of plasma leptin in dairy cattle. <i>Journal of Dairy Science</i> , <b>2003</b> , 86, 3206-14	4	32
73	Twelve hours of heat stress induces inflammatory signaling in porcine skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2016</b> , 310, R1288-96	3.2	29
72	Satellite cells isolated from aged or dystrophic muscle exhibit a reduced capacity to promote angiogenesis in vitro. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 440, 399-404	3.4	29
71	Effects of mammalian in utero heat stress on adolescent body temperature. <i>International Journal of Hyperthermia</i> , <b>2013</b> , 29, 696-702	3.7	29
70	Hypoxia simultaneously alters satellite cell-mediated angiogenesis and hepatocyte growth factor expression. <i>Journal of Cellular Physiology</i> , <b>2014</b> , 229, 572-9	7	24
69	The housekeeping genes GAPDH and cyclophilin are regulated by metabolic state in the liver of dairy cows. <i>Journal of Dairy Science</i> , <b>2003</b> , 86, 3423-9	4	24
68	Organization and regulation of the gene encoding the sheep acid-labile subunit of the 150-kilodalton insulin-like growth factor-binding protein complex. <i>Endocrinology</i> , <b>2000</b> , 141, 1425-33	4.8	24
67	Acute heat stress activated inflammatory signaling in porcine oxidative skeletal muscle. <i>Physiological Reports</i> , <b>2017</b> , 5, e13397	2.6	23
66	In utero heat stress increases postnatal core body temperature in pigs. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 4312-22	0.7	23
65	Extrinsic regulation of domestic animal-derived myogenic satellite cells II. <i>Domestic Animal Endocrinology</i> , <b>2009</b> , 36, 111-26	2.3	23
64	Environmental heat stress modulates thyroid status and its response to repeated endotoxin challenge in steers. <i>Domestic Animal Endocrinology</i> , <b>2015</b> , 52, 43-50	2.3	22

63	A dose-response evaluation of rumen-protected niacin in thermoneutral or heat-stressed lactating Holstein cows. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 5023-34	4	22
62	Nutritional regulation of the genes encoding the acid-labile subunit and other components of the circulating insulin-like growth factor system in the sheep. <i>Journal of Animal Science</i> , <b>2000</b> , 78, 2681-9	0.7	22
61	Effects of transforming growth factor-beta (TGF- $\beta$ ) on satellite cell activation and survival during oxidative stress. <i>Journal of Muscle Research and Cell Motility</i> , <b>2011</b> , 32, 99-109	3.5	21
60	Heat Stress Alters Ovarian Insulin-Mediated Phosphatidylinositol-3 Kinase and Steroidogenic Signaling in Gilt Ovaries. <i>Biology of Reproduction</i> , <b>2015</b> , 92, 148	3.9	19
59	Effects of acute heat stress on lipid metabolism of bovine primary adipocytes. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 8732-40	4	19
58	Dairy cows experience selective reduction of the hepatic growth hormone receptor during the periparturient period. <i>Journal of Endocrinology</i> , <b>2004</b> , 181, 281-90	4.7	19
57	Short-term heat stress results in increased apoptotic signaling and autophagy in oxidative skeletal muscle in <i>Sus scrofa</i> . <i>Journal of Thermal Biology</i> , <b>2018</b> , 72, 73-80	2.9	18
56	The effect of recovery from heat stress on circulating bioenergetics and inflammatory biomarkers. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 4599-4610	0.7	18
55	Short-term heat stress alters redox balance in porcine skeletal muscle. <i>Physiological Reports</i> , <b>2017</b> , 5, e13267	2.6	17
54	Short-term heat stress causes altered intracellular signaling in oxidative skeletal muscle. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 2438-2451	0.7	17
53	Effects of zinc amino acid complex on biomarkers of gut integrity and metabolism during and following heat stress or feed restriction in pigs. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 4173-4185	0.7	17
52	PHYSIOLOGY AND ENDOCRINOLOGY SYMPOSIUM: Roles for insulin-supported skeletal muscle growth. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 1791-802	0.7	16
51	Effects of heat stress and insulin sensitizers on pig adipose tissue. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 510-520	0.7	15
50	Heat stress causes dysfunctional autophagy in oxidative skeletal muscle. <i>Physiological Reports</i> , <b>2017</b> , 5, e13317	2.6	15
49	The impact of in utero heat stress and nutrient restriction on progeny body composition. <i>Journal of Thermal Biology</i> , <b>2015</b> , 53, 143-50	2.9	14
48	Dietary phosphate restriction decreases stem cell proliferation and subsequent growth potential in neonatal pigs. <i>Journal of Nutrition</i> , <b>2010</b> , 140, 477-82	4.1	14
47	Ontogenic and nutritional regulation of steroid receptor and IGF-I transcript abundance in the prepubertal heifer mammary gland. <i>Journal of Endocrinology</i> , <b>2007</b> , 195, 59-66	4.7	14
46	Biology of heat stress; the nexus between intestinal hyperpermeability and swine reproduction. <i>Theriogenology</i> , <b>2020</b> , 154, 73-83	2.8	14

45	Heat stress decreases metabolic flexibility in skeletal muscle of growing pigs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2018</b> , 315, R1096-R1106	3.2	14
44	Neonatal phosphate nutrition alters in vivo and in vitro satellite cell activity in pigs. <i>Nutrients</i> , <b>2012</b> , 4, 436-48	6.7	13
43	Short-term heat stress altered metabolism and insulin signaling in skeletal muscle. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 154-167	0.7	12
42	Prolonged environment-induced hyperthermia alters autophagy in oxidative skeletal muscle in <i>Sus scrofa</i> . <i>Journal of Thermal Biology</i> , <b>2018</b> , 74, 160-169	2.9	12
41	Effects of dietary chromium propionate on growth performance, metabolism, and immune biomarkers in heat-stressed finishing pigs1. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 1185-1197	0.7	12
40	Isolation of the cDNA encoding the acid labile subunit (ALS) of the 150 kDa IGF-binding protein complex in cattle and ALS regulation during the transition from pregnancy to lactation. <i>Journal of Endocrinology</i> , <b>2006</b> , 189, 583-93	4.7	11
39	Effects of acute heat stress on skeletal muscle gene expression associated with energy metabolism in rats. <i>FASEB Journal</i> , <b>2009</b> , 23, 598.7	0.9	11
38	Short communication: Hepatic progesterone-metabolizing enzymes cytochrome P450 2C and 3A in lactating cows during thermoneutral and heat stress conditions. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 3152-4		10
37	Skeletal muscle satellite cell migration to injured tissue measured with <sup>111</sup> In-oxine and high-resolution SPECT imaging. <i>Journal of Muscle Research and Cell Motility</i> , <b>2013</b> , 34, 417-27	3.5	10
36	Effects of heat stress on energetic metabolism in growing pigs. <i>FASEB Journal</i> , <b>2011</b> , 25, 1052.5-1052.5	0.9	10
35	Diminished satellite cell fusion and S6K1 expression in myotubes derived from skeletal muscle of low birth weight neonatal pigs. <i>Physiological Reports</i> , <b>2017</b> , 5, e13075	2.6	9
34	Effects of heat stress during porcine reproductive and respiratory syndrome virus infection on metabolic responses in growing pigs. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 1375-1387	0.7	8
33	Effects of Environment on Metabolism <b>2012</b> , 81-100		7
32	Effects of dairy products on intestinal integrity in heat-stressed pigs. <i>Temperature</i> , <b>2014</b> , 1, 128-34	5.2	6
31	Dietary supplementation of artificial sweetener and capsicum oleoresin as a strategy to mitigate the negative consequences of heat stress on pig performance. <i>Journal of Animal Science</i> , <b>2020</b> , 98,	0.7	3
30	Oxytocin is involved in steroid hormone-stimulated bovine satellite cell proliferation and differentiation in vitro. <i>Domestic Animal Endocrinology</i> , <b>2019</b> , 66, 1-13	2.3	3
29	Effects of prolonged nutrient restriction on baseline and periprandial plasma ghrelin concentrations of postpubertal Holstein heifers. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 6473-9	4	3
28	Effects of porcine reproductive and respiratory syndrome virus on pig growth, diet utilization efficiency, and gas release from stored manure. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 4424-35	0.7	3

27	Consequences of heat stress on the profile of skeletal muscle gene expression in beef cattle. <i>FASEB Journal</i> , <b>2008</b> , 22, 1165.1	0.9	3
26	Prepubertal tamoxifen treatment affects development of heifer reproductive tissues and related signaling pathways. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 5780-5792	4	3
25	Heat Stress Reduces Metabolic Rate While Increasing Respiratory Exchange Ratio in Growing Pigs. <i>Animals</i> , <b>2021</b> , 11,	3.1	3
24	Effects of dirty housing and a Typhimurium DT104 challenge on pig growth performance, diet utilization efficiency, and gas emissions from stored manure. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 1264-1276	0.7	2
23	Skeletal muscle and hepatic insulin signaling is maintained in heat-stressed lactating Holstein cows. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 4032-4042	4	2
22	Downregulated Translation Initiation Signaling Predisposes Low-Birth-Weight Neonatal Pigs to Slower Rates of Muscle Protein Synthesis. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 482	4.6	2
21	Evaluating acute inflammation's effects on hepatic triglyceride content in experimentally induced hyperlipidemic dairy cows in late lactation. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 9620-9633	4	2
20	1175 The effects of zinc amino acid complex on biomarkers of gut integrity and metabolism in heat-stressed steers. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 564-564	0.7	2
19	Dietary Calcium and Phosphorus Amounts Affect Development and Tissue-Specific Stem Cell Characteristics in Neonatal Pigs. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 1086-1092	4.1	1
18	386 Dietary calcium and phosphate levels affect bone development and marrow adipose tissue deposition in neonatal pigs. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 191-191	0.7	1
17	Heat Stress Causes Autophagic Stalling In Oxidative Skeletal Muscle. <i>FASEB Journal</i> , <b>2016</b> , 30, 1290.15	0.9	1
16	Prolonged Heat Stress Altered Autophagy Signaling in Oxidative Skeletal Muscle. <i>FASEB Journal</i> , <b>2017</b> , 31, 1023.4	0.9	1
15	Alteration in skeletal muscle antioxidant defense gene expression profile following multiple exposures to hyperthermia. <i>FASEB Journal</i> , <b>2010</b> , 24, 1001.11	0.9	1
14	The effect of Mitoquinol (MitoQ) on heat stressed skeletal muscle from pigs, and a potential confounding effect of biological sex. <i>Journal of Thermal Biology</i> , <b>2021</b> , 97, 102900	2.9	1
13	Rapamycin administration during an acute heat stress challenge in growing pigs. <i>Journal of Animal Science</i> , <b>2021</b> , 99,	0.7	1
12	PSVII-6 Effects of heat stress on proteolysis in dairy cattle skeletal muscle. <i>Journal of Animal Science</i> , <b>2020</b> , 98, 168-168	0.7	0
11	Lipid Intake Enhances Muscle Growth But Does Not Influence Glucose Kinetics in 3-Week-Old Low-Birth-Weight Neonatal Pigs. <i>Journal of Nutrition</i> , <b>2019</b> , 149, 933-941	4.1	
10	323 Effects of supplemental citrulline on intestinal neutrophil infiltration during heat stress and nutrient restriction in growing pigs. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 157-157	0.7	



- 9 235 Effects of rapamycin during an acute heat stress exposure in growing pigs. *Journal of Animal Science*, **2020**, 98, 117-117 0.7
- 8 236 Effects of mitoquinol during acute heat stress exposure in growing pigs. *Journal of Animal Science*, **2020**, 98, 118-118 0.7
- 7 Sex complicates the effect and treatment of heat stress. *FASEB Journal*, **2020**, 34, 1-1 0.9
- 6 Abundance of miRNA during muscle growth is not influenced by dietary protein inclusion levels in neonatal pigs. *FASEB Journal*, **2020**, 34, 1-1 0.9
- 5 Conjugated linoleic acid effects on specific adipose depots and muscles and the calpain system in geriatric male mice. *FASEB Journal*, **2007**, 21, A335 0.9
- 4 Caloric Intake Affects Neonatal Bone Development and Energy Metabolism. *FASEB Journal*, **2019**, 33, 795.21 0.9
- 3 Effect of Heat Stress on Pig Skeletal Muscle Metabolism. *FASEB Journal*, **2015**, 29, 755.7 0.9
- 2 Activation of ubiquitin-proteasome system components in heat-stressed pig skeletal muscle. *FASEB Journal*, **2016**, 30, 915.34 0.9
- 1 Heat stress triggers an antioxidant response in porcine skeletal muscle. *FASEB Journal*, **2013**, 27, 1201.2 0.9