Jack Odle

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176 papers	4,881 citations	42 h-index	63 g-index
190 ext. papers	5,617 ext. citations	3.7 avg, IF	5.79 L-index

#	Paper	IF	Citations
176	Restoration of barrier function in injured intestinal mucosa. *Physiological Reviews*, **2007**, 87, 545-64	47.9	381
175	Growth factors in milk as mediators of infant development. *Annual Review of Nutrition*, **1994**, 14, 147-67	9.9	197
174	Fish oil enhances intestinal integrity and inhibits TLR4 and NOD2 signaling pathways in weaned pigs after LPS challenge. *Journal of Nutrition*, **2012**, 142, 2017-24	4.1	168
173	Nutritional factors influencing intestinal health of the neonate. *Advances in Nutrition*, **2012**, 3, 687-96	10	118
172	Intestinal effects of milkborne growth factors in neonates of agricultural importance. *Journal of Animal Science*, **1996**, 74, 2509-22	0.7	102
171	New insights into the utilization of medium-chain triglycerides by the neonate: observations from a piglet model. *Journal of Nutrition*, **1997**, 127, 1061-7	4.1	98
170	Conjugated linoleic acid evokes de-lipidation through the regulation of genes controlling lipid metabolism in adipose and liver tissue. *Obesity Reviews*, **2005**, 6, 247-58	10.6	93
169	Effect of feeding a milk replacer to early-weaned pigs on growth, body composition, and small intestinal morphology, compared with suckled littermates. *Journal of Animal Science*, **1996**, 74, 2948-59	0.7	92
168	The effects of dietary fat sources, levels, and feeding intervals on pork fatty acid composition. *Journal of Animal Science*, **2002**, 80, 1606-15	0.7	91
167	The suckling piglet as an agrimedical model for the study of pediatric nutrition and metabolism. *Annual Review of Animal Biosciences*, **2014**, 2, 419-44	13.7	81
166	Dietary supplementation of aspartate enhances intestinal integrity and energy status in weanling piglets after lipopolysaccharide challenge. *Journal of Nutritional Biochemistry*, **2014**, 25, 456-62	6.3	79
165	PSV-11 Effects of plasma protein on growth performance and intestinal health of weaned pigs. *Journal of Animal Science*, **2019**, 97, 197-197	0.7	78
164	Maternal Supplementation of Clofibrate Stimulates Hepatic Fatty Acid Oxidation in Newborn Suckling Piglets. *Current Developments in Nutrition*, **2020**, 4, 703-703	0.4	78
163	Maternal Feeding of a Synthetic PPARAgonist Alters Renal Development of Fatty Acid Metabolism in the Neonatal Piglet. *Current Developments in Nutrition*, **2020**, 4, 702-702	0.4	78
162	MicroRNA and mRNA Sequencing Analyses Reveal Key Hepatic Metabolic Pathways Responsive to Maternal Malnutrition in Full-Term Fetal Pigs. *Current Developments in Nutrition*, **2021**, 5, 829-829	0.4	78
161	292 Differential gene expression analysis for piglets supplied dietary prebiotics and arachidonic acid for gastrointestinal disturbances. *Journal of Animal Science*, **2019**, 97, 122-123	0.7	78
160	Effects of acute and chronic heat stress on plasma metabolites, hormones and oxidant status in restrictedly fed broiler breeders. *Poultry Science*, **2015**, 94, 1635-44	3.9	74

159	Small intestinal disaccharidase activity and ileal villus height are increased in piglets consuming formula containing recombinant human insulin-like growth factor-I. *Pediatric Research*, **1997**, 42, 78-86	3.2	73
158	Differential expression of heat shock transcription factors and heat shock proteins after acute and chronic heat stress in laying chickens (Gallus gallus). *PLoS ONE*, **2014**, 9, e102204	3.7	71
157	Dietary Isomers of Sialyllactose Increase Ganglioside Sialic Acid Concentrations in the Corpus Callosum and Cerebellum and Modulate the Colonic Microbiota of Formula-Fed Piglets. *Journal of Nutrition*, **2016**, 146, 200-8	4.1	70
156	Role of mTOR signaling in intestinal cell migration. *American Journal of Physiology - Renal Physiology*, **2006**, 291, G510-7	5.1	68
155	Conjugated linoleic acid in combination with supplemental dietary fat alters pork fat quality. *Journal of Nutrition*, **2002**, 132, 3105-12	4.1	65
154	Insulin-like growth factors and insulin-like growth factor binding proteins in porcine serum and milk throughout lactation. *Pediatric Research*, **1994**, 36, 159-68	3.2	65
153	Trans-10, cis-12 conjugated linoleic acid increases fatty acid oxidation in 3T3-L1 preadipocytes. *Journal of Nutrition*, **2002**, 132, 450-5	4.1	63
152	Supplementing limited methionine diets with rumen-protected methionine, betaine, and choline in early lactation Holstein cows. *Journal of Dairy Science*, **2008**, 91, 1552-9	4	62
151	Impact of lactation length and piglet weaning weight on long-term growth and viability of progeny. *Journal of Animal Science*, **2010**, 88, 2265-76	0.7	61
150	Effects of increasing tryptophan intake on growth and physiological changes in nursery pigs. *Journal of Animal Science*, **2012**, 90, 2264-75	0.7	60
149	Effects of dietary copper source and concentration on carcass characteristics and lipid and cholesterol metabolism in growing and finishing steers. *Journal of Animal Science*, **2000**, 78, 1053-9	0.7	60
148	Functional genomic characterization of delipidation elicited by trans-10, cis-12-conjugated linoleic acid (t10c12-CLA) in a polygenic obese line of mice. *Physiological Genomics*, **2005**, 21, 351-61	3.6	55
147	Dietary L-carnitine improves nitrogen utilization in growing pigs fed low energy, fat-containing diets. *Journal of Nutrition*, **2000**, 130, 1809-14	4.1	55
146	Effects of induced or delayed parturition and supplemental dietary fat on colostrum and milk composition in sows. *Journal of Animal Science*, **1995**, 73, 1906-13	0.7	55
145	Arginine activates intestinal p70(S6k) and protein synthesis in piglet rotavirus enteritis. *Journal of Nutrition*, **2008**, 138, 24-9	4.1	54
144	Research note: bioavailability of copper in cupric oxide, cuprous oxide, and in a copper-lysine complex. *Poultry Science*, **1991**, 70, 177-9	3.9	53
143	Influence of birth order, birth weight, colostrum and serum immunoglobulin G on neonatal piglet survival. *Journal of Animal Science and Biotechnology*, **2012**, 3, 42	6	52
142	Effect of orally administered epidermal growth factor on intestinal recovery of neonatal pigs infected with rotavirus. *Journal of Pediatric Gastroenterology and Nutrition*, **1994**, 19, 382-90	2.8	51

141	Protein-energy malnutrition delays small-intestinal recovery in neonatal pigs infected with rotavirus. *Journal of Nutrition*, **1997**, 127, 1118-27	4.1	49
140	Fish oil increases muscle protein mass and modulates Akt/FOXO, TLR4, and NOD signaling in weanling piglets after lipopolysaccharide challenge. *Journal of Nutrition*, **2013**, 143, 1331-9	4.1	48
139	Polydextrose enrichment of infant formula demonstrates prebiotic characteristics by altering intestinal microbiota, organic acid concentrations, and cytokine expression in suckling piglets. *Journal of Nutrition*, **2011**, 141, 2139-45	4.1	47
138	Utilization of medium-chain triglycerides by neonatal piglets: chain length of even- and odd-carbon fatty acids and apparent digestion/absorption and hepatic metabolism. *Journal of Nutrition*, **1991**, 121, 605-14	4.1	46
137	Peroxidised dietary lipids impair intestinal function and morphology of the small intestine villi of nursery pigs in a dose-dependent manner. *British Journal of Nutrition*, **2015**, 114, 1985-92	3.6	45
136	Comparison of triglycerides and phospholipids as supplemental sources of dietary long-chain polyunsaturated fatty acids in piglets. *Journal of Nutrition*, **2002**, 132, 3081-9	4.1	45
135	Orally administered iodinated recombinant human insulin-like growth factor-I (125I-rhIGF-I) is poorly absorbed by the newborn piglet. *Journal of Pediatric Gastroenterology and Nutrition*, **1997**, 24, 174-82	2.8	45
134	Effects of creep feeding and supplemental glutamine or glutamine plus glutamate (Aminogut) on pre- and post-weaning growth performance and intestinal health of piglets. *Journal of Animal Science and Biotechnology*, **2013**, 4, 29	6	42
133	Liquid diets accelerate the growth of early-weaned pigs and the effects are maintained to market weight. *Journal of Animal Science*, **2001**, 79, 427-34	0.7	40
132	Conjugated linoleic acid reduces body fat accretion and lipogenic gene expression in neonatal pigs fed low- or high-fat formulas. *Journal of Nutrition*, **2008**, 138, 449-54	4.1	39
131	Dietary fat during pregnancy and lactation increases milk fat and insulin-like growth factor I concentrations and improves neonatal growth rates in swine. *Journal of Nutrition*, **1999**, 129, 2123-9	4.1	39
130	Malnutrition modifies pig small intestinal inflammatory responses to rotavirus. *Journal of Nutrition*, **1999**, 129, 838-43	4.1	37
129	Dietary L-tryptophan supplementation with reduced large neutral amino acids enhances feed efficiency and decreases stress hormone secretion in nursery pigs under social-mixing stress. *Journal of Nutrition*, **2012**, 142, 1540-6	4.1	35
128	Effect of animal plasma proteins on intestinal damage and recovery of neonatal pigs infected with rotavirus. *Journal of Nutritional Biochemistry*, **2007**, 18, 778-84	6.3	34
127	Rates of mitochondrial and peroxisomal beta-oxidation of palmitate change during postnatal development and food deprivation in liver, kidney and heart of pigs. *Journal of Nutrition*, **1997**, 127, 1814-21	4.1	33
126	Influence of rumen ammonia concentration on the rumen degradation rates of barley and maize. *British Journal of Nutrition*, **1987**, 57, 127-38	3.6	33
125	Dietary long-chain PUFA enhance acute repair of ischemia-injured intestine of suckling pigs. *Journal of Nutrition*, **2012**, 142, 1266-71	4.1	32
124	Asparagine improves intestinal integrity, inhibits TLR4 and NOD signaling, and differently regulates p38 and ERK1/2 signaling in weanling piglets after LPS challenge. *Innate Immunity*, **2016**, 22, 577-587	2.7	30

123	Utilization of medium-chain triglycerides by neonatal pigs: effects of emulsification and dose delivered. *Journal of Animal Science*, **1993**, 71, 1863-8	0.7	29
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120	Oral vaccine formulations stimulate mucosal and systemic antibody responses against staphylococcal enterotoxin B in a piglet model. *Vaccine Journal*, **2010**, 17, 1163-9		26
119	Kinetics of carnitine palmitoyltransferase-I are altered by dietary variables and suggest a metabolic need for supplemental carnitine in young pigs. *Journal of Nutrition*, **2000**, 130, 2467-70	4.1	26
118	Stabilized rice bran improves weaning pig performance via a prebiotic mechanism. *Journal of Animal Science*, **2013**, 91, 907-13	0.7	25
117	Hepatic beta-oxidation and carnitine palmitoyltransferase I in neonatal pigs after dietary treatments of clofibric acid, isoproterenol, and medium-chain triglycerides. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 288, R1518-24	3.2	25
116	Effect of dietary manganese on antioxidant status and expression levels of heat-shock proteins and factors in tissues of laying broiler breeders under normal and high environmental temperatures. *British Journal of Nutrition*, **2015**, 114, 1965-74	3.6	24
115	Optimizing dietary lipid use to improve essential fatty acid status and reproductive performance of the modern lactating sow: a review. *Journal of Animal Science and Biotechnology*, **2016**, 7, 34	6	21
114	Dietary arachidonate differentially alters desaturase-elongase pathway flux and gene expression in liver and intestine of suckling pigs. *Journal of Nutrition*, **2011**, 141, 548-53	4.1	21
113	Medium-chain fatty acids but not L-carnitine accelerate the kinetics of [14C]triacylglycerol utilization by colostrum-deprived newborn pigs. *Journal of Nutrition*, **2002**, 132, 1989-94	4.1	21
112	Maternal dietary zinc supplementation enhances the epigenetic-activated antioxidant ability of chick embryos from maternal normal and high temperatures. *Oncotarget*, **2017**, 8, 19814-19824	3.3	20
111	Quantification of carnitine esters by high-performance liquid chromatography. *Biomedical Applications*, **1992**, 584, 157-165		20
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109	Acute effects of rotavirus and malnutrition on intestinal barrier function in neonatal piglets. *World Journal of Gastroenterology*, **2013**, 19, 5094-102	5.6	20
108	Impact of dietary lipids on sow milk composition and balance of essential fatty acids during lactation in prolific sows. *Journal of Animal Science*, **2015**, 93, 2935-47	0.7	19
107	Safety evaluation of polydextrose in infant formula using a suckling piglet model. *Food and Chemical Toxicology*, **2009**, 47, 1530-7	4.7	19
106	Enrichment of intestinal mucosal phospholipids with arachidonic and eicosapentaenoic acids fed to suckling piglets is dose and time dependent. *Journal of Nutrition*, **2008**, 138, 2164-71	4.1	19

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104	Dietary supplementation of Bifidobacterium longum strain AH1206 increases its cecal abundance and elevates intestinal interleukin-10 expression in the neonatal piglet. *Food and Chemical Toxicology*, **2013**, 60, 116-22	4.7	18
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100	Ontogeny of carnitine palmitoyltransferase I activity, carnitine-Km, and mRNA abundance in pigs throughout growth and development. *Journal of Nutrition*, **2007**, 137, 898-903	4.1	17
99	Changes in kinetics of carnitine palmitoyltransferase in liver and skeletal muscle of dogs (Canis familiaris) throughout growth and development. *Journal of Nutrition*, **2003**, 133, 1113-9	4.1	17
98	Maternal dietary manganese protects chick embryos against maternal heat stress via epigenetic-activated antioxidant and anti-apoptotic abilities. *Oncotarget*, **2017**, 8, 89665-89680	3.3	17
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96	Maternal dietary L-carnitine supplementation influences fetal carnitine status and stimulates carnitine palmitoyltransferase and pyruvate dehydrogenase complex activities in swine. *Journal of Nutrition*, **2008**, 138, 2356-62	4.1	16
95	Differential induction of peroxisomal beta-oxidation enzymes by clofibric acid and aspirin in piglet tissues. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2001**, 281, R1553-61	3.2	16
94	Medium-chain fatty acid oxidation in colostrum-deprived newborn piglets: stimulative effect of L-carnitine supplementation. *Journal of Nutrition*, **1993**, 123, 1531-7	4.1	16
93	Diet physical form, fatty acid chain length, and emulsification alter fat utilization and growth of newly weaned pigs. *Journal of Animal Science*, **2013**, 91, 783-92	0.7	15
92	Sow and litter response to supplemental dietary fat in lactation diets during high ambient temperatures. *Journal of Animal Science*, **2012**, 90, 550-9	0.7	15
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90	Ontogeny and kinetics of carnitine palmitoyltransferase in liver and skeletal muscle of the domestic felid (Felis domestica). *Journal of Nutritional Biochemistry*, **2005**, 16, 331-8	6.3	15
89	Regulation of intestinal glucose absorption: A new issue in animal science. *Canadian Journal of Animal Science*, **1998**, 78, 1-13	0.9	15
88	Food deprivation changes peroxisomal beta-oxidation activity but not catalase activity during postnatal development in pig tissues. *Journal of Nutrition*, **1998**, 128, 1114-21	4.1	15

87	Emulsification and fatty acid chain length affect the kinetics of [14C]-medium-chain triacylglycerol utilization by neonatal piglets. *Journal of Nutrition*, **1994**, 124, 84-93	4.1	15
86	Comparison of measured carbon dioxide production with that obtained by the isotope dilution technique in neonatal pigs: observations on site of infusion. *Journal of Nutrition*, **1992**, 122, 2174-82	4.1	15
85	Sublethal staphylococcal enterotoxin B challenge model in pigs to evaluate protection following immunization with a soybean-derived vaccine. *Vaccine Journal*, **2013**, 20, 24-32		14
84	Effects of maternal dietary manganese and incubation temperature on hatchability, antioxidant status, and expression of heat shock proteins in chick embryos. *Journal of Animal Science*, **2015**, 93, 5725-34	0.7	14
83	Dietary conjugated linoleic acid alters long chain polyunsaturated fatty acid metabolism in brain and liver of neonatal pigs. *Journal of Nutritional Biochemistry*, **2011**, 22, 1047-54	6.3	14
82	Dietary phosphate restriction decreases stem cell proliferation and subsequent growth potential in neonatal pigs. *Journal of Nutrition*, **2010**, 140, 477-82	4.1	14
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73	Evaluation of [1-14C]-medium-chain fatty acid oxidation by neonatal piglets using continuous-infusion radiotracer kinetic methodology. *Journal of Nutrition*, **1992**, 122, 2183-9	4.1	11
72	Probiotics, Prebiotics and Epithelial Tight Junctions: A Promising Approach to Modulate Intestinal Barrier Function. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	11
71	Development of prediction equations to estimate the apparent digestible energy content of lipids when fed to lactating sows. *Journal of Animal Science*, **2015**, 93, 1165-76	0.7	10
70	Ontogeny and chain-length specificity of gastrointestinal lipases affect medium-chain triacylglycerol utilization by newborn pigs. *Journal of Animal Science*, **2006**, 84, 818-25	0.7	10

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68	Effect of dietary manganese on antioxidant status and expressions of heat shock proteins and factors in tissues of laying broiler breeders under normal and high environmental temperatures. *British Journal of Nutrition*, **2016**, 116, 1851-1860	3.6	9
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66	Dietary calcium restriction affects mesenchymal stem cell activity and bone development in neonatal pigs. *Journal of Nutrition*, **2011**, 141, 373-9	4.1	8
65	Urinary excretion of taurine as a function of taurine intake: potential for estimating taurine bioavailability in the adult cat. *Advances in Experimental Medicine and Biology*, **1992**, 315, 55-62	3.6	8
64	Early postnatal kinetics of colostral immunoglobulin G absorption in fed and fasted piglets and developmental expression of the intestinal immunoglobulin G receptor. *Journal of Animal Science*, **2013**, 91, 211-8	0.7	7
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61	Implementation Science in the Field of Nutrition: Why Is It So Relevant?. *Current Developments in Nutrition*, **2019**, 3, nzy086	0.4	7
60	Nutritional Impact of Dietary Plasma Proteins in Animals Undergoing Experimental Challenge and Implications for Patients with Inflammatory Bowel Disorders: A Meta-analysis. *Advances in Nutrition* , **2015**, 6, 541-51	10	6
59	Lysine requirement of 1.5□5.5 kg pigs fed liquid diets. *Animal Production Science*, **2014**, 54, 608	1.4	6
58	Asparagine reduces the mRNA expression of muscle atrophy markers via regulating protein kinase B (Akt), AMP-activated protein kinase □toll-like receptor 4 and nucleotide-binding oligomerisation domain protein signalling in weaning piglets after lipopolysaccharide challenge. *British Journal of Nutrition*, **2016**, 116, 1188-1198	3.6	6
57	Transplacental induction of fatty acid oxidation in term fetal pigs by the peroxisome proliferator-activated receptor alpha agonist clofibrate. *Journal of Animal Science and Biotechnology*, **2015**, 6, 11	6	5
56	Supplementation of Maternal Diets with Docosahexaenoic Acid and Methylating Vitamins Impacts Growth and Development of Fetuses from Malnourished Gilts. *Current Developments in Nutrition*, **2018**, 2, nzx006	0.4	5
55	Epithelial restitution defect in neonatal jejunum is rescued by juvenile mucosal homogenate in a pig model of intestinal ischemic injury and repair. *PLoS ONE*, **2018**, 13, e0200674	3.7	5
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52	A guide for authors and readers of the American Society for Nutrition Journals on the proper use of P values and strategies that promote transparency and improve research reproducibility. *American Journal of Clinical Nutrition*, **2021**, 114, 1280-1285	7	5

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48	Metabolic Regulation of Intestinal Stem Cell Homeostasis. *Trends in Cell Biology*, **2021**, 31, 325-327	18.3	4
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34	Impact of crude glycerol on feed milling characteristics of swine diets. *Animal Feed Science and Technology*, **2012**, 175, 193-197	3	1

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29	Modulation of intestinal stem cell homeostasis by nutrients: a novel therapeutic option for intestinal diseases. *Nutrition Research Reviews*, **2021**, 1-9	7	1
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26	4212 An age-dependent, rescuable defect in intestinal barrier repair is associated with an immature enteric glial network in a neonatal pig model of intestinal ischemia. *Journal of Clinical and Translational Science*, **2020**, 4, 92-93	0.4	
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