Douglas G Burrin

List of Publications by Year
in descending order

217 papers	10,627 citations	25034 57 h-index	39675 94 g-index
221 all docs	221 docs citations	221 times ranked	7844 citing authors

#	Article	IF	Citations
1	Replication of human noroviruses in stem cellâ€“derived human enteroids. Science, 2016, 353, 1387-1393.	12.6	1,056
2	Catabolism Dominates the First-Pass Intestinal Metabolism of Dietary Essential Amino Acids in Milk Protein-Fed Piglets. Journal of Nutrition, 1998, 128, 606-614.	2.9	431
3	Intestinal Glutamate Metabolism. Journal of Nutrition, 2000, 130, 978S-982S.	2.9	255
4	Diet- and Colonization-Dependent Intestinal Dysfunction Predisposes to Necrotizing Enterocolitis in Preterm Pigs. Gastroenterology, 2006, 130, 1776-1792.	1.3	249
5	GLP-2 Receptor Localizes to Enteric Neurons and Endocrine Cells Expressing Vasoactive Peptides and Mediates Increased Blood Flow. Gastroenterology, 2006, 130, 150-164.	1.3	214
6	Minimal enteral nutrient requirements for intestinal growth in neonatal piglets: how much is enough?. American Journal of Clinical Nutrition, 2000, 71, 1603-1610.	4.7	210
7	Metabolic fate and function of dietary glutamate in the gut. American Journal of Clinical Nutrition, 2009, 90, 850S-856S.	4.7	209
8	Level of nutrition and visceral organ size and metabolic activity in sheep. British Journal of Nutrition, 1990, 64, 439-448.	2.3	188
9	GLP-2-mediated up-regulation of intestinal blood flow and glucose uptake is nitric oxide-dependent in TPN-fed piglets 1 1This work is a publication of the USDA/ARS Childrenâ€™s Nutrition Research Center, Department of Pediatrics, Baylor College of Medicine and Texas Childrenâ€™s Hospital, Houston, Texas.. Gastroenterology, 2003, 125, 136-147.	1.3	165
10	Stimulation of protein synthesis by both insulin and amino acids is unique to skeletal muscle in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E880-E890.	3.5	155
11	Adaptive regulation of intestinal lysine metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11620-11625.	7.1	135
12	Glucagon-Like Peptide 2 Dose-Dependently Activates Intestinal Cell Survival and Proliferation in Neonatal Piglets. Endocrinology, 2005, 146, 22-32.	2.8	135
13	Nutritional and Functional Importance of Intestinal Sulfur Amino Acid Metabolism. Journal of Nutrition, 2005, 135, 1609-1612.	2.9	133
14	Effect of level of nutrition on splanchnic blood flow and oxygen consumption in sheep. British Journal of Nutrition, 1989, 62, 23-34.	2.3	130
15	Nutrient-Independent and Nutrient-Dependent Factors Stimulate Protein Synthesis in Colostrum-Fed Newborn Pigs. Pediatric Research, 1995, 37, 593-599.	2.3	129
16	Enteral feeding induces diet-dependent mucosal dysfunction, bacterial proliferation, and necrotizing enterocolitis in preterm pigs on parenteral nutrition. American Journal of Physiology - Renal Physiology, 2008, 295, G1092-G1103.	3.4	129
17	Sulfur amino acid deficiency upregulates intestinal methionine cycle activity and suppresses epithelial growth in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E1239-E1250.	3.5	126
18	Development of Intestinal Immunoglobulin Absorption and Enzyme Activities in Neonatal Pigs Is Diet Dependent. Journal of Nutrition, 2001, 131, 3259-3265.	2.9	123

#	Article	IF	Citations
19	Threonine Utilization Is High in the Intestine of Piglets. Journal of Nutrition, 2005, 135, 765-770.	2.9	123
20	Methionine transmethylation and transsulfuration in the piglet gastrointestinal tract. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3408-3413.	7.1	119
21	Glutamine and the Bowel. Journal of Nutrition, 2001, 131, 2505S-2508S.	2.9	116
22	Porcine Colostrum and Milk Stimulate Visceral Organ and Skeletal Muscle Protein Synthesis in Neonatal Piglets. Journal of Nutrition, 1992, 122, 1205-1213.	2.9	114
23	Preterm Birth Affects the Intestinal Response to Parenteral and Enteral Nutrition in Newborn Pigs. Journal of Nutrition, 2002, 132, 2673-2681.	2.9	114
24	Carbohydrate maldigestion induces necrotizing enterocolitis in preterm pigs. American Journal of Physiology - Renal Physiology, 2009, 297, G1115-G1125.	3.4	111
25	Total parenteral nutrition adversely affects gut barrier function in neonatal piglets. American Journal of Physiology - Renal Physiology, 2003, 285, G1162-G1170.	3.4	106
26	Onset of Small Intestinal Atrophy Is Associated with Reduced Intestinal Blood Flow in TPN-Fed Neonatal Piglets. Journal of Nutrition, 2004, 134, 1467-1474.	2.9	105
27	Enteral bile acid treatment improves parenteral nutrition-related liver disease and intestinal mucosal atrophy in neonatal pigs. American Journal of Physiology - Renal Physiology, 2012, 302, G218-G224.	3.4	103
28	Intestinal metabolism of sulfur amino acids. Nutrition Research Reviews, 2009, 22, 175-187.	4.1	102
29	The high metabolic cost of a functional gut. Gastroenterology, 2002, 123, 1931-1940.	1.3	101
30	Glucagon-like peptide 2 function in domestic animals. Domestic Animal Endocrinology, 2003, 24, 103-122.	1.6	100
31	Dietary Plasma Protein Reduces Small Intestinal Growth and Lamina Propria Cell Density in Early Weaned Pigs. Journal of Nutrition, 2000, 130, 21-26.	2.9	94
32	Key nutrients and growth factors for the neonatal gastrointestinal tract. Clinics in Perinatology, 2002, 29, 65-96.	2.1	92
33	Roles of Insulin and Amino Acids in the Regulation of Protein Synthesis in the Neonate ,. Journal of Nutrition, 1998, 128, 347S-350S.	2.9	87
34	Near-infrared spectroscopy measurement of abdominal tissue oxygenation is a useful indicator of intestinal blood flow and necrotizing enterocolitis in premature piglets. Journal of Pediatric Surgery, 2011, 46, 1034-1040.	1.6	84
35	Response to Monensin in Cattle during Subacute Acidosis2. Journal of Animal Science, 1986, 63, 888-893.	0.5	80
36	Early gradual feeding with bovine colostrum improves gut function and NEC resistance relative to infant formula in preterm pigs. American Journal of Physiology - Renal Physiology, 2015, 309, G310-G323.	3.4	80

#	Article	IF	Citations
37	Dietary Amino Acids Are the Preferential Source of Hepatic Protein Synthesis in Piglets. Journal of Nutrition, 1998, 128, 1517-1524.	2.9	79
38	Chronic Low Protein Intake Reduces Tissue Protein Synthesis in a Pig Model of Protein Malnutrition. Journal of Nutrition, 1996, 126, 1481-1488.	2.9	78
39	New Insights and Enhanced Human Norovirus Cultivation in Human Intestinal Enteroids. MSphere, 2021, 6, .	2.9	78
40	Enterocyte digestive enzyme activity along the crypt-villus and longitudinal axes in the neonatal pig small intestine.. Journal of Animal Science, 2001, 79, 371.	0.5	77
41	Substrate oxidation by the portal drained viscera of fed piglets. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E168-E175.	3.5	76
42	Abdominal Near-Infrared Spectroscopy Measurements Are Lower in Preterm Infants at Risk for Necrotizing Enterocolitis. Pediatric Critical Care Medicine, 2014, 15, 735-741.	0.5	76
43	Formula-feeding reduces lactose digestive capacity in neonatal pigs. British Journal of Nutrition, 2006, 95, 1075-1081.	2.3	75
44	Comparative Aspects of Tissue Glutamine and Proline Metabolism. Journal of Nutrition, 2008, 138, 2032S-2039S.	2.9	75
45	The pattern of intestinal substrate oxidation is altered by protein restriction in pigs. Gastroenterology, 2001, 121, 1167-1175.	1.3	74
46	Central GLP-2 Enhances Hepatic Insulin Sensitivity via Activating PI3K Signaling in POMC Neurons. Cell Metabolism, 2013, 18, 86-98.	16.2	74
47	Differential effects of insulin on peripheral and visceral tissue protein synthesis in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2001, 280, E770-E779.	3.5	73
48	Glucagon-Like Peptide 2: A Nutrient-Responsive Gut Growth Factor. Journal of Nutrition, 2001, 131, 709-712.	2.9	73
49	New generation lipid emulsions prevent PNALD in chronic parenterally fed preterm pigs. Journal of Lipid Research, 2014, 55, 466-477.	4.2	71
50	Vitamin E in Newâ€Generation Lipid Emulsions Protects Against Parenteral Nutritionâ€"Associated Liver Disease in Parenteral Nutritionâ€"Fed Preterm Pigs. Journal of Parenteral and Enteral Nutrition, 2016, 40, 656-671.	2.6	70
51	Enteral nutrient intake level determines intestinal protein synthesis and accretion rates in neonatal pigs. American Journal of Physiology - Renal Physiology, 2000, 279, G288-G294.	3.4	69
52	Antibiotics modulate intestinal immunity and prevent necrotizing enterocolitis in preterm neonatal piglets. American Journal of Physiology - Renal Physiology, 2014, 306, G59-G71.	3.4	68
53	Chronic Parenteral Nutrition Induces Hepatic Inflammation, Steatosis, and Insulin Resistance in Neonatal Pigs1â€"3. Journal of Nutrition, 2010, 140, 2193-2200.	2.9	67
54	Arginine-induced stimulation of protein synthesis and survival in IPEC-J2 cells is mediated by mTOR but not nitric oxide. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E899-E909.	3.5	67

#	Article	IF	Citations
55	Expression of apical membranel-glutamate transporters in neonatal porcine epithelial cells along the small intestinal crypt-villus axis. American Journal of Physiology - Renal Physiology, 2004, 287, G385-G398.	3.4	66
56	Impact of New-Generation Lipid Emulsions on Cellular Mechanisms of Parenteral Nutritionâ€"Associated Liver Disease. Advances in Nutrition, 2014, 5, 82-91.	6.4	62
57	Level of nutrition and visceral organ protein synthetic capacity and nucleic acid content in sheep2. Journal of Animal Science, 1992, 70, 1137-1145.	0.5	57
58	Glucagon-like peptide-2 acutely increases proximal small intestinal blood flow in TPN-fed neonatal piglets. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R283-R289.	1.8	57
59	Animal models of gastrointestinal and liver diseases. Animal models of infant short bowel syndrome: translational relevance and challenges. American Journal of Physiology - Renal Physiology, 2014, 307, G1147-G1168.	3.4	53
60	Leucine-nitrogen metabolism in the brain of conscious rats: its role as a nitrogen carrier in glutamate synthesis in glial and neuronal metabolic compartments. Journal of Neurochemistry, 2004, 88, 612-622.	3.9	52
61	Colostrum Enhances the Nutritional Stimulation of Vital Organ Protein Synthesis in Neonatal Pigs , ,. Journal of Nutrition, 1997, 127, 1284-1289.	2.9	50
62	DIGESTIVE PHYSIOLOGY OF THE PIG SYMPOSIUM: Intestinal bile acid sensing is linked to key endocrine and metabolic signaling pathways12. Journal of Animal Science, 2013, 91, 1991-2000.	0.5	49
63	Dietary Plasma Protein Is Used More Efficiently than Extruded Soy Protein for Lean Tissue Growth in Early-Weaned Pigs. Journal of Nutrition, 2000, 130, 2016-2019.	2.9	48
64	Minimal Enteral Feeding Induces Maturation of Intestinal Motor Function but Not Mucosal Growth in Neonatal Dogs. Journal of Nutrition, 2002, 132, 2717-2722.	2.9	48
65	Glucagon-like peptide-2 induces rapid digestive adaptation following intestinal resection in preterm neonates. American Journal of Physiology - Renal Physiology, 2013, 305, G277-G285.	3.4	48
66	Continuous Parenteral and Enteral Nutrition Induces Metabolic Dysfunction in Neonatal Pigs. Journal of Parenteral and Enteral Nutrition, 2012, 36, 538-550.	2.6	47
67	Stage of Development and Fasting Affect Protein Synthetic Activity in the Gastrointestinal Tissues of Suckling Rats. Journal of Nutrition, 1991, 121, 1099-1108.	2.9	46
68	Is Milk-Borne Insulin-Like Growth Factor-I Essential for Neonatal Development?. Journal of Nutrition, 1997, 127, 975S-979S.	2.9	46
69	First-Pass Metabolism Limits the Intestinal Absorption of Enteral Î±-Ketoglutarate in Young Pigs. Journal of Nutrition, 2006, 136, 2779-2784.	2.9	46
70	Total Parenteral Nutrition Induces Liver Steatosis and Apoptosis in Neonatal Piglets. Journal of Nutrition, 2006, 136, 2547-2552.	2.9	46
71	GLP-2 rapidly activates divergent intracellular signaling pathways involved in intestinal cell survival and proliferation in neonatal piglets. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E281-E291.	3.5	45
72	Glucagon-like peptide-2 (GLP-2) increases small intestinal blood flow and mucosal growth in ruminating calves. Journal of Dairy Science, 2011, 94, 888-898.	3.4	45

#	Article	IF	Citations
73	Visceral Organ Size and Hepatocyte Metabolic Activity in Fed and Fasted Rats. Journal of Nutrition, 1988, 118, 1547-1552.	2.9	44
74	Parenteral nutrition results in impaired lactose digestion and hexose absorption when enteral feeding is initiated in infant pigs. American Journal of Clinical Nutrition, 2003, 78, 461-470.	4.7	44
75	Extensive Gut Metabolism Limits the Intestinal Absorption of Excessive Supplemental Dietary Glutamate Loads in Infant Pigs1,. Journal of Nutrition, 2007, 137, 2384-2390.	2.9	44
76	Protein nutrition of the neonate. Proceedings of the Nutrition Society, 2000, 59, 87-97.	1.0	43
77	Translational Advances in Pediatric Nutrition and Gastroenterology: New Insights from Pig Models. Annual Review of Animal Biosciences, 2020, 8, 321-354.	7.4	42
78	Postnatal growth of gut and muscle: competitors or collaborators. Proceedings of the Nutrition Society, 1993, 52, 57-67.	1.0	40
79	Alternative fuels in the gastrointestinal tract. Current Opinion in Gastroenterology, 1997, 13, 165-170.	2.3	39
80	Human Milk Fortification with Bovine Colostrum Is Superior to Formulaâ€Based Fortifiers to Prevent Gut Dysfunction, Necrotizing Enterocolitis, and Systemic Infection in Preterm Pigs. Journal of Parenteral and Enteral Nutrition, 2019, 43, 252-262.	2.6	39
81	Parenteral nutrition selectively decreases protein synthesis in the small intestine. American Journal of Physiology - Renal Physiology, 1998, 274, G131-G137.	3.4	38
82	The gut and amino acid homeostasis. Nutrition, 2000, 16, 666-668.	2.4	38
83	Intestinal lysine metabolism is driven by the enteral availability of dietary lysine in piglets fed a bolus meal. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E1246-E1257.	3.5	37
84	Monensin Level during Grain Adaption and Finishing Performance in Cattle. Journal of Animal Science, 1988, 66, 513.	0.5	36
85	Glutamine or Glutamic Acid Effects on Intestinal Growth and Disaccharidase Activity in Infant Piglets Receiving Total Parenteral Nutrition. Journal of Parenteral and Enteral Nutrition, 1991, 15, 262-266.	2.6	36
86	Acute Effects of the Glucagonâ€Like Peptide 2 Analogue, Teduglutide, on Intestinal Adaptation in Short Bowel Syndrome. Journal of Pediatric Gastroenterology and Nutrition, 2014, 58, 694-702.	1.8	36
87	Undernutrition Shapes the Gut Microbiota and Bile Acid Profile in Association with Altered Gut-Liver FXR Signaling in Weaning Pigs. Journal of Agricultural and Food Chemistry, 2019, 67, 3691-3701.	5.2	36
88	Glucagon-Like Peptide 2: A Key Link between Nutrition and Intestinal Adaptation in Neonates?. Journal of Nutrition, 2003, 133, 3712-3716.	2.9	35
89	Feeding Colostrum Rapidly Alters Enzymatic Activity and the Relative Isoform Abundance of Jejunal Lactase in Neonatal Pigs ,. Journal of Nutrition, 1994, 124, 2350-2357.	2.9	33
90	Intestinal Threonine Utilization for Protein and Mucin Synthesis Is Decreased in Formula-Fed Preterm Pigs,. Journal of Nutrition, 2011, 141, 1306-1311.	2.9	33

#	Article	IF	Citations
91	Modulation of the gut microbiota with antibiotic treatment suppresses whole body urea production in neonatal pigs. American Journal of Physiology - Renal Physiology, 2013, 304, G300-G310.	3.4	33
92	Transgenic Hypersecretion of des(1â€“3) Human Insulin-Like Growth Factor I in Mouse Milk Has Limited Effects on the Gastrointestinal Tract in Suckling Pups. Journal of Nutrition, 1999, 129, 51-56.	2.9	32
93	Nonnutritive Factors in Colostrum Enhance Myofibrillar Protein Synthesis in the Newborn Pig. Pediatric Research, 2000, 48, 511-517.	2.3	32
94	Acute activation of GLP-1-expressing neurons promotes glucose homeostasis and insulin sensitivity. Molecular Metabolism, 2017, 6, 1350-1359.	6.5	32
95	Level of nutrition and splanchnic metabolite flux in young lambs.. Journal of Animal Science, 1991, 69, 1082.	0.5	31
96	Secretion of Trophic Gut Peptides Is Not Different in Bolus- and Continuously Fed Piglets. Journal of Nutrition, 2001, 131, 729-732.	2.9	31
97	Proteins and amino acids in enteral nutrition. Current Opinion in Clinical Nutrition and Metabolic Care, 2004, 7, 79-87.	2.5	31
98	Dietary Glutamate Is Almost Entirely Removed in Its First Pass Through the Splanchnic Bed in Premature Infants. Pediatric Research, 2007, 62, 353-356.	2.3	31
99	Emerging aspects of gut sulfur amino acid metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2007, 10, 63-68.	2.5	31
100	B-vitamin deficiency is protective against DSS-induced colitis in mice. American Journal of Physiology - Renal Physiology, 2011, 301, G249-G259.	3.4	31
101	Low Abdominal NIRS Values and Elevated Plasma Intestinal Fatty Acid-Binding Protein in a Premature Piglet Model of Necrotizing Enterocolitis. PLoS ONE, 2015, 10, e0125437.	2.5	31
102	Gastrointestinal Toxicity, Systemic Inflammation, and Liver Biochemistry in Allogeneic Hematopoietic Stem Cell Transplantation. Biology of Blood and Marrow Transplantation, 2017, 23, 1170-1176.	2.0	29
103	Nutrient Fortification of Human Donor Milk Affects Intestinal Function and Protein Metabolism in Preterm Pigs. Journal of Nutrition, 2018, 148, 336-347.	2.9	29
104	Exogenous Insulin-Like Growth Factor-I Increases Weight Gain in Intrauterine Growth-Retarded Neonatal Pigs. Pediatric Research, 1997, 42, 201-207.	2.3	29
105	Role of milk-borne vs endogenous insulin-like growth factor I in neonatal growth.. Journal of Animal Science, 1997, 75, 2739.	0.5	28
106	Apical Na⁺-<scp>d</scp>-glucose cotransporter 1 (SGLT1) activity and protein abundance are expressed along the jejunal crypt-villus axis in the neonatal pig. American Journal of Physiology - Renal Physiology, 2011, 300, G60-G70.	3.4	28
107	Delayed Initiation but Not Gradual Advancement of Enteral Formula Feeding Reduces the Incidence of Necrotizing Enterocolitis (NEC) in Preterm Pigs. PLoS ONE, 2014, 9, e106888.	2.5	28
108	Metabolomic signatures distinguish the impact of formula carbohydrates on disease outcome in a preterm piglet model of NEC. Microbiome, 2018, 6, 111.	11.1	28

#	Article	IF	Citations
109	Dysregulated FXR-FGF19 signaling and choline metabolism are associated with gut dysbiosis and hyperplasia in a novel pig model of pediatric NASH. American Journal of Physiology - Renal Physiology, 2020, 318, G582-G609.	3.4	27
110	Hepatic Protein Synthesis in Suckling Rats: Effects of Stage of Development and Fasting. Pediatric Research, 1992, 31, 247-252.	2.3	26
111	Dexamethasone inhibits small intestinal growth via increased protein catabolism in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E269-E277.	3.5	25
112	Enteral Arginine Does Not Increase Superior Mesenteric Arterial Blood Flow but Induces Mucosal Growth in Neonatal Pigs. Journal of Nutrition, 2011, 141, 63-70.	2.9	25
113	The intestinal-renal axis for arginine synthesis is present and functional in the neonatal pig. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E233-E242.	3.5	25
114	Potential Benefits of Bovine Colostrum in Pediatric Nutrition and Health. Nutrients, 2021, 13, 2551.	4.1	25
115	Role of the Gut in the Amino Acid Economy of the Host. , 2000, 3, 25-46.		24
116	Net Portal Absorption of Enterally Fed Î±-Ketoglutarate Is Limited in Young Pigs. Journal of Nutrition, 2002, 132, 3383-3386.	2.9	24
117	Expression of mRNA for proglucagon and glucagon-like peptide-2 (GLP-2) receptor in the ruminant gastrointestinal tract and the influence of energy intake. Domestic Animal Endocrinology, 2010, 39, 181-193.	1.6	24
118	First-pass splanchnic metabolism of dietary cysteine in weanling pigs1. Journal of Animal Science, 2011, 89, 4093-4099.	0.5	24
119	Chronic Protein Deficiency Differentially Affects the Kinetics of Plasma Proteins in Young Pigs. Journal of Nutrition, 1996, 126, 1489-1495.	2.9	23
120	Dietary and systemic phenylalanine utilization for mucosal and hepatic constitutive protein synthesis in pigs. American Journal of Physiology - Renal Physiology, 1999, 276, G49-G57.	3.4	22
121	De novo synthesis is the main source of ornithine for citrulline production in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1348-E1353.	3.5	22
122	Bile Acids Induce Glucagon-Like Peptide 2 Secretion with Limited Effects on Intestinal Adaptation in Early Weaned Pigs. Journal of Nutrition, 2013, 143, 1899-1905.	2.9	22
123	Prematurity reduces citrulline-arginine-nitric oxide production and precedes the onset of necrotizing enterocolitis in piglets. American Journal of Physiology - Renal Physiology, 2018, 315, G638-G649.	3.4	22
124	Somatotropin increases protein balance by lowering body protein degradation in fed, growing pigs. American Journal of Physiology - Endocrinology and Metabolism, 2000, 278, E477-E483.	3.5	21
125	Dual purpose use of preterm piglets as a model of pediatric GI disease. Veterinary Immunology and Immunopathology, 2014, 159, 156-165.	1.2	21
126	Parenteral lipids shape gut bile acid pools and microbiota profiles in the prevention of cholestasis in preterm pigs. Journal of Lipid Research, 2020, 61, 1038-1051.	4.2	21

#	Article	IF	Citations
127	Orally Administered Lactoferrin Increases Hepatic Protein Synthesis in Formula-Fed Newborn Pigs1. Pediatric Research, 1996, 40, 72-76.	2.3	21
128	Supplemental Alanylglutamine, Organ Growth, and Nitrogen Metabolism in Neonatal Pigs Fed by Total Parenteral Nutrition. Journal of Parenteral and Enteral Nutrition, 1994, 18, 313-319.	2.6	20
129	Exogenous growth hormone stimulates somatotropic axis function and growth in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E29-E37.	3.5	20
130	Oral IGF-I Alters the Posttranslational Processing but Not the Activity of Lactase-Phlorizin Hydrolase in Formula-Fed Neonatal Pigs. Journal of Nutrition, 2001, 131, 2235-2241.	2.9	20
131	Alpha-Lactalbumin Enriched Whey Protein Concentrate to Improve Gut, Immunity and Brain Development in Preterm Pigs. Nutrients, 2020, 12, 245.	4.1	20
132	Neurodegeneration in juvenile Iberian pigs with diet-induced nonalcoholic fatty liver disease. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E592-E606.	3.5	19
133	Somatotropin-induced protein anabolism in hindquarters and portal-drained viscera of growing pigs. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E302-E312.	3.5	18
134	GLPâ€2 Delays but Does Not Prevent the Onset of Necrotizing Enterocolitis in Preterm Pigs. Journal of Pediatric Gastroenterology and Nutrition, 2013, 56, 623-630.	1.8	18
135	Phenylalanine utilization by the gut and liver measured with intravenous and intragastric tracers in pigs. American Journal of Physiology - Renal Physiology, 1997, 273, G1208-G1217.	3.4	17
136	Splanchnic bed metabolism of glucose in preterm neonates. American Journal of Clinical Nutrition, 2004, 79, 831-837.	4.7	17
137	Targeted metabolomics analysis of maternal-placental-fetal metabolism in pregnant swine reveals links in fetal bile acid homeostasis and sulfation capacity. American Journal of Physiology - Renal Physiology, 2019, 317, G8-G16.	3.4	17
138	Fibroblast growth factor 15/19 expression, regulation, and function: An overview. Molecular and Cellular Endocrinology, 2022, 548, 111617.	3.2	17
139	Lactase phlorhizin hydrolase turnover <i>in vivo</i> in water-fed and colostrum-fed newborn pigs. Biochemical Journal, 1996, 320, 735-743.	3.7	16
140	Postprandial intestinal and whole body nitrogen kinetics and distribution in piglets fed a single meal. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E436-E446.	3.5	16
141	Feeding colostrum increases circulating insulin-like growth factor I in newborn pigs independent of endogenous growth hormone secretion.. Journal of Animal Science, 1998, 76, 3003.	0.5	15
142	Feeding an Elemental Diet <i>vs</i> a Milkâ€Based Formula Does Not Decrease Intestinal Mucosal Growth in Infant Pigs. Journal of Parenteral and Enteral Nutrition, 2006, 30, 32-39.	2.6	15
143	Validating hyperbilirubinemia and gut mucosal atrophy with a novel ultramobile ambulatory total parenteral nutrition piglet model. Nutrition Research, 2015, 35, 169-174.	2.9	15
144	Multi-omic profiles of hepatic metabolism in TPN-fed preterm pigs administered new generation lipid emulsions. Journal of Lipid Research, 2016, 57, 1696-1711.	4.2	15

#	Article	IF	Citations
145	Prematurity blunts the feeding-induced stimulation of translation initiation signaling and protein synthesis in muscle of neonatal piglets. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E839-E851.	3.5	15
146	Impact of Parenteral Lipid Emulsion Components on Cholestatic Liver Disease in Neonates. Nutrients, 2021, 13, 508.	4.1	15
147	Lactase Phlorizin Hydrolase Synthesis Is Decreased In Protein-Malnourished Pigs. Journal of Nutrition, 1997, 127, 687-693.	2.9	14
148	Preventative oral methylthioadenosine is anti-inflammatory and reduces DSS-induced colitis in mice. American Journal of Physiology - Renal Physiology, 2012, 303, G71-G82.	3.4	14
149	Phytosterols Synergize With Endotoxin to Augment Inflammation in Kupffer Cells but Alone Have Limited Direct Effect on Hepatocytes. Journal of Parenteral and Enteral Nutrition, 2017, 42, 014860711772275.	2.6	14
150	Severe Protein Deficiency and Repletion Alter Body and Brain Composition and Organ Weights in Infant Pigs. Journal of Nutrition, 1996, 126, 290-302.	2.9	13
151	Protein kinetics determined in vivo with a multiple-tracer, single-sample protocol: application to lactase synthesis. American Journal of Physiology - Renal Physiology, 1998, 274, G591-G598.	3.4	13
152	Whole-Body and Hindlimb Protein Breakdown Are Differentially Altered by Feeding in Neonatal Piglets. Journal of Nutrition, 2005, 135, 1430-1437.	2.9	13
153	Rifampicin, not vitamin E, suppresses parenteral nutrition-associated liver disease development through the pregnane X receptor pathway in piglets. American Journal of Physiology - Renal Physiology, 2020, 318, G41-G52.	3.4	13
154	High-Fructose, High-Fat Diet Alters Muscle Composition and Fuel Utilization in a Juvenile Iberian Pig Model of Non-Alcoholic Fatty Liver Disease. Nutrients, 2021, 13, 4195.	4.1	13
155	Qualitative and quantitative comparison of gut bacterial colonization in enterally and parenterally fed neonatal pigs. Current Issues in Intestinal Microbiology, 2006, 7, 61-4.	2.5	13
156	Fetal lipopolysaccharide exposure modulates diet-dependent gut maturation and sensitivity to necrotising enterocolitis in pre-term pigs. British Journal of Nutrition, 2011, 106, 852-861.	2.3	12
157	Supplementing Monosodium Glutamate to Partial Enteral Nutrition Slows Gastric Emptying in Preterm Pigs. Journal of Nutrition, 2013, 143, 563-570.	2.9	12
158	New generation lipid emulsions increase brain DHA and improve body composition, but not short-term neurodevelopment in parenterally-fed preterm piglets. Brain, Behavior, and Immunity, 2020, 85, 46-56.	4.1	12
159	Prematurity blunts the insulin- and amino acid-induced stimulation of translation initiation and protein synthesis in skeletal muscle of neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E551-E565.	3.5	12
160	Differential action of TGR5 agonists on GLP-2 secretion and promotion of intestinal adaptation in a piglet short bowel model. American Journal of Physiology - Renal Physiology, 2019, 316, G641-G652.	3.4	11
161	Emerging Clinical Benefits of Newâ€Generation Fat Emulsions in Preterm Neonates. Nutrition in Clinical Practice, 2017, 32, 326-336.	2.4	10
162	Postprandial Amino Acid Kinetics of Milk Protein Mixtures are Affected by Composition, But Not Denaturation, in Neonatal Piglets. Current Developments in Nutrition, 2019, 3, nzy102.	0.3	10

#	Article	IF	Citations
163	Nutrient Restriction has Limited Short-Term Effects on Gut, Immunity, and Brain Development in Preterm Pigs. Journal of Nutrition, 2020, 150, 1196-1207.	2.9	10
164	Total Parenteral Nutrition Energy Composition Affects Small Intestinal Disaccharidase Activity in the Newborn Miniature Pig. Journal of Parenteral and Enteral Nutrition, 1991, 15, 560-563.	2.6	9
165	Peter J. Reeds (February 22, 1945â€"August 13, 2002). Journal of Nutrition, 2003, 133, 5-8.	2.9	9
166	Expression of apical Na+â€"l-glutamine co-transport activity, B0-system neutral amino acid co-transporter (B0AT1) and angiotensin-converting enzyme 2 along the jejunal cryptâ€"villus axis in young pigs fed a liquid formula. Amino Acids, 2016, 48, 1491-1508.	2.7	9
167	Determination of 7Î±-OH cholesterol by LCâ€"MS/MS: Application in assessing the activity of CYP7A1 in cholestatic minipigs. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1025, 76-82.	2.3	9
168	Reduced Plasma Amino Acid Levels During Allogeneic Hematopoietic Stem Cell Transplantation Are Associated with Systemic Inflammation and Treatment-Related Complications. Biology of Blood and Marrow Transplantation, 2019, 25, 1432-1440.	2.0	9
169	Minimal Enteral Nutrition to Improve Adaptation After Intestinal Resection in Piglets and Infants. Journal of Parenteral and Enteral Nutrition, 2018, 42, 446-454.	2.6	8
170	Consumption of High-Fructose Corn Syrup Compared with Sucrose Promotes Adiposity and Increased Triglyceridemia but Comparable NAFLD Severity in Juvenile Iberian Pigs. Journal of Nutrition, 2021, 151, 1139-1149.	2.9	8
171	Intermittent bolus feeding does not enhance protein synthesis, myonuclear accretion, or lean growth more than continuous feeding in a premature piglet model. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E737-E752.	3.5	8
172	Emerging aspects of dietary glutamate metabolism in the developing gut. Asia Pacific Journal of Clinical Nutrition, 2008, 17 Suppl 1, 368-71.	0.4	8
173	Intestinal Amino Acid Metabolism in Neonates. , 2006, 58, 95-108.		7
174	Positive net movements of amino acids in the hindlimb after overnight food deprivation contribute to sustaining the elevated anabolism of neonatal pigs. Journal of Applied Physiology, 2008, 105, 1959-1966.	2.5	7
175	Use of a novel docosahexaenoic acid formulation vs control in a neonatal porcine model of short bowel syndrome leads to greater intestinal absorption and higher systemic levels of DHA. Nutrition Research, 2017, 39, 51-60.	2.9	7
176	Improved Starch Digestion of Sucraseâ€deficient Shrews Treated With Oral Glucoamylase Enzyme Supplements. Journal of Pediatric Gastroenterology and Nutrition, 2017, 65, e35-e42.	1.8	7
177	Transcriptome Profiling of Placenta through Pregnancy Reveals Dysregulation of Bile Acids Transport and Detoxification Function. International Journal of Molecular Sciences, 2019, 20, 4099.	4.1	7
178	Ontogeny of methionine utilization and splanchnic uptake in critically ill children. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E1046-E1055.	3.5	6
179	Growth and Clinical Variables in Nitrogen-Restricted Piglets Fed an Adjusted Essential Amino Acid Mix: Effects of Partially Intact Protein-Based Diets. Journal of Nutrition, 2018, 148, 1118-1125.	2.9	5
180	Parenteral lipid emulsions induce unique ileal fatty acid and metabolomic profiles but do not increase the risk of necrotizing enterocolitis in preterm pigs. American Journal of Physiology - Renal Physiology, 2021, 320, G227-G239.	3.4	5

#	Article	IF	Citations
181	Rapid Postnatal Upregulation of Intestinal Farnesoid X Receptorâ€Fibroblast Growth Factor 19 Signaling in Premature Pigs. Journal of Pediatric Gastroenterology and Nutrition, 2020, 70, e94-e99.	1.8	5
182	Tissue-specific mechanisms of bile acid homeostasis and activation of FXR-FGF19 signaling in preterm and term neonatal pigs. American Journal of Physiology - Renal Physiology, 2022, 322, G117-G133.	3.4	5
183	Maternal and Fetal Bile Acid Homeostasis Regulated by Sulfated Progesterone Metabolites through FXR Signaling Pathway in a Pregnant Sow Model. International Journal of Molecular Sciences, 2022, 23, 6496.	4.1	5
184	Trophic Factors and Regulation of Gastrointestinal Tract and Liver Development. , 2011, , 1181-1187.		4
185	Cholestasis alters brain lipid and bile acid composition and compromises motor function in neonatal piglets. Physiological Reports, 2022, 10, .	1.7	4
186	Intestinal Protein and LPH Synthesis in Parenterally Fed Piglets Receiving Partial Enteral Nutrition and Enteral Insulinlike Growth Factor 1. Journal of Pediatric Gastroenterology and Nutrition, 2001, 33, 189-195.	1.8	3
187	Growth and Clinical Variables in Nitrogen-Restricted Piglets Fed an Adjusted Essential Amino Acid Mix: Effects of Free Amino Acidâ€"Based Diets. Journal of Nutrition, 2018, 148, 1109-1117.	2.9	3
188	Modeling ageâ€dependent developmental changes in the expression of genes involved in citrulline synthesis using pig enteroids. Physiological Reports, 2020, 8, e14565.	1.7	3
189	Depletion and enrichment of phytosterols in soybean oil lipid emulsions directly associate with serum markers of cholestasis in preterm parenteral nutritionâ€"fed pigs. Journal of Parenteral and Enteral Nutrition, 2022, 46, 160-171.	2.6	3
190	Glucagon-like peptide-2 stimulates intestinal growth by decreasing proteolysis and apoptosis in TPN-fed preterm piglets. Gastroenterology, 2000, 118, A546.	1.3	2
191	Developmental changes in the utilization of citrulline by neonatal pigs. American Journal of Physiology - Renal Physiology, 2020, 318, F175-F182.	2.7	2
192	Trophic Factors and Regulation of Gastrointestinal Tract and Liver Development. , 2017, , 855-860.e1.		1
193	Intermittent Leucine Pulses Enhance Skeletal Muscle mTOR Signaling and Protein Synthesis in Continuously Fed Preterm Pigs. Current Developments in Nutrition, 2021, 5, 543.	0.3	1
194	Trophic Factors and Regulation of Gastrointestinal Tract and Liver Development. , 2004, , 1095-1100.		1
195	Kinetics of Splanchnic 13 Câ€Cysteine Metabolism in Infant Pigs. FASEB Journal, 2006, 20, A9.	0.5	1
196	Glucagonâ€like Peptideâ€2 Activates the mTOR Signaling Through a PI3â€kinaseâ€Aktâ€dependent Pathway. FASEB Journal, 2007, 21, A1075.	0.5	1
197	Trophic Factors in the Neonatal Gastrointestinal Tract. , 2008, , 121-134.		1
198	Arginineâ€Mediated Stimulation of Intestinal Epithelial Cell Protein Synthesis Is mTORâ€Dependent But NOâ€Independent. FASEB Journal, 2009, 23, 227.7.	0.5	1

#	Article	IF	Citations
199	Chapter 7 Splanchnic protein and amino acid metabolism in growing animals. Biology of Growing Animals, 2005, 3, 157-196.	0.3	0
200	Preserving Mother Nature's Best Food for Preterm Infants. Journal of Nutrition, 2017, 147, 1023-1024.	2.9	0
201	Continuous Feeding Does Not Blunt Skeletal Muscle Protein Synthesis and Lean Growth Compared to Intermittent Bolus Feeding in the Preterm Piglet (OR26-06-19). Current Developments in Nutrition, 2019, 3, nzz033.OR26-06-19.	0.3	0
202	Continuous Feeding Does Not Blunt Satellite Cell Abundance, Myonuclear Accretion, or Lean Growth in a Neonatal Piglet Model of Prematurity. Current Developments in Nutrition, 2020, 4, nzaa050_019.	0.3	0
203	191 Pulsatile Administration of Leucine Promotes mTOR Signaling and Protein Synthesis in Skeletal Muscle of Continuously Fed Preterm Pigs. Journal of Animal Science, 2021, 99, 102-102.	0.5	0
204	Acute IGFâ€I infusion stimulates whole body protein synthesis but does not reduce proteolysis in neonates. FASEB Journal, 2007, 21, A1119.	0.5	0
205	Insulin and amino acids stimulate whole body protein synthesis in neonates. FASEB Journal, 2007, 21, A334.	0.5	0
206	Stimulation of whole body protein synthesis by insulin in neonates is dependent on the pattern of amino acids available. FASEB Journal, 2007, 21, A162.	0.5	0
207	Decreased insulin sensitivity due to continuous nutrient administration in neonatal pigs. FASEB Journal, 2009, 23, 33.3.	0.5	0
208	eNOS signaling is essential in GLPâ€2â€mediated stimulation of blood flow, but not cell proliferation in the mouse gut. FASEB Journal, 2009, 23, 919.10.	0.5	0
209	Dietary Glutamate Reduces Systemic But Not Intestinal Leucine Oxidation In Protein Malnourished Piglets. FASEB Journal, 2010, 24, 740.16.	0.5	0
210	Bâ€vitamin deficiency is protective in experimental colitis. FASEB Journal, 2010, 24, 228.6.	0.5	0
211	Does GLPâ€2 infusion reduce colon injury and improve protein nutritional status of piglets with colitis?. FASEB Journal, 2011, 25, 217.3.	0.5	0
212	Minimal Enteral Glutamate Slows Gastric Emptying in Preterm Pigs. FASEB Journal, 2011, 25, 983.17.	0.5	0
213	Persistence of an Adverse Metabolic Phenotype in Parenterally Fed Neonatal Pigs. FASEB Journal, 2012, 26, 34.4.	0.5	0
214	Impact of parenteral lipid emulsions on the metabolomic phenotype in preterm TPNâ€fed piglets. FASEB Journal, 2013, 27, 1073.11.	0.5	0
215	Precursors for ornithine and citrulline synthesis in neonatal pigs. FASEB Journal, 2013, 27, 631.15.	0.5	0
216	Diminished Citrullineâ€Arginineâ€Nitric Oxide Production Rates are Associated with Necrotizing Enterocolitis Incidence in Premature Pigs. FASEB Journal, 2017, 31, 164.1.	0.5	0

#	Article	IF	Citations
217	Prematurity and postnatal development regulate the expression of the FXRâ€FGF19 axis in neonatal pigs. FASEB Journal, 2018, 32, .	0.5	0