Marta L Fiorotto

List of Publications by Year
in descending order

96 papers	2,620 citations	186209 28 h-index	197736 49 g-index
98 all docs	98 docs citations	98 times ranked	2691 citing authors

#	Article	IF	Citations
1	Leucine Administration in Conjunction With Continuous Feeding Improves Lean Growth in a Preterm Piglet Model. Current Developments in Nutrition, 2022, 6, 700.	0.1	0
2	Prematurity Negatively Alters Activation of the Amino Acid Signaling Pathway That Regulates Protein Synthesis in Muscle of a Preterm Piglet Model. Current Developments in Nutrition, 2022, 6, 472.	0.1	0
3	Prematurity Attenuates Skeletal Muscle Anabolism of Neonatal Pigs Independently of Birth Weight. Current Developments in Nutrition, 2022, 6, 471.	0.1	0
4	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.	1.8	12
5	Should the AIN-93 Rodent Diet Formulas be Revised?. Journal of Nutrition, 2021, 151, 1380-1382.	1.3	14
6	Regulation of Akt Signaling in Skeletal Muscle Is Altered by Prematurity in a Neonatal Piglet Model. Current Developments in Nutrition, 2021, 5, 544.	0.1	0
7	Intermittent Leucine Pulses Enhance Skeletal Muscle mTOR Signaling and Protein Synthesis in Continuously Fed Preterm Pigs. Current Developments in Nutrition, 2021, 5, 543.	0.1	1
8	Intermittent Bolus Compared With Continuous Feeding Enhances Insulin and Amino Acid Signaling to Translation Initiation in Skeletal Muscle of Neonatal Pigs. Journal of Nutrition, 2021, 151, 2636-2645.	1.3	2
9	Variation in AIN-93G/M Diets Across Different Commercial Manufacturers: Not All AIN-93 Diets are Created Equal. Journal of Nutrition, 2021, 151, 3271-3275.	1.3	3
10	PSVII-7 Prematurity alters the regulation of Akt signaling in skeletal muscle of piglets. Journal of Animal Science, 2021, 99, 408-409.	0.2	0
11	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.	0.2	0
12	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.	1.8	8
13	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.	1.7	13
14	Leucine Supplementation Does Not Restore Diminished Skeletal Muscle Satellite Cell Abundance and Myonuclear Accretion When Protein Intake Is Limiting in Neonatal Pigs. Journal of Nutrition, 2020, 150, 22-30.	1.3	2
15	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.	0.1	0
16	Prematurity Alters the Feeding-Induced Activation of Signaling Components Towards AKT in Skeletal Muscle of Neonatal Piglets. Current Developments in Nutrition, 2020, 4, nzaa050_024.	0.1	0
17	Intermittent leucine pulses during continuous feeding alters novel components involved in skeletal muscle growth of neonatal pigs. Amino Acids, 2020, 52, 1319-1335.	1.2	11
18	Differential regulation of mTORC1 activation by leucine and Î²-hydroxy-Î²-methylbutyrate in skeletal muscle of neonatal pigs. Journal of Applied Physiology, 2020, 128, 286-295.	1.2	17

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19	Intermittent Bolus Feeding Enhances Organ Growth More Than Continuous Feeding in a Neonatal Piglet Model. Current Developments in Nutrition, 2020, 4, nzaa170.	0.1	4
20	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.	1.8	15
21	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.	0.1	0
22	Postnatal undernutrition alters adult female mouse cardiac structure and function leading to limited exercise capacity. Journal of Physiology, 2019, 597, 1855-1872.	1.3	17
23	356 Meal feeding compared with continuous feeding enhances insulin and amino acid signaling to translation initiation in skeletal muscle of pigs. Journal of Animal Science, 2019, 97, 127-128.	0.2	0
24	Intermittent Bolus Compared with Continuous Feeding Enhances Insulin and Amino Acid Signaling to Translation Initiation in Skeletal Muscle of Pigs Born at Term (P08-071-19). Current Developments in Nutrition, 2019, 3, nzz044.P08-071-19.	0.1	0
25	DNA methylation in AgRP neurons regulates voluntary exercise behavior in mice. Nature Communications, 2019, 10, 5364.	5.8	26
26	Regulation of Muscle Growth in Early Postnatal Life in a Swine Model. Annual Review of Animal Biosciences, 2019, 7, 309-335.	3.6	33
27	Intermittent bolus feeding promotes greater lean growth than continuous feeding in a neonatal piglet model. American Journal of Clinical Nutrition, 2018, 108, 830-841.	2.2	22
28	Rbfox Splicing Factors Maintain Skeletal Muscle Mass by Regulating Calpain3 and Proteostasis. Cell Reports, 2018, 24, 197-208.	2.9	36
29	Choline Supplementation Prevents a Hallmark Disturbance of Kwashiorkor in Weanling Mice Fed a Maize Vegetable Diet: Hepatic Steatosis of Undernutrition. Nutrients, 2018, 10, 653.	1.7	15
30	Critical Windows for the Programming Effects of Early-Life Nutrition on Skeletal Muscle Mass. Nestle Nutrition Institute Workshop Series, 2018, 89, 25-35.	1.5	45
31	Short- and long-term effects of leucine and branched-chain amino acid supplementation of a protein- and energy-reduced diet on muscle protein metabolism in neonatal pigs. Amino Acids, 2018, 50, 943-959.	1.2	13
32	Precocious glucocorticoid exposure reduces skeletal muscle satellite cells in the fetal rat. Journal of Endocrinology, 2017, 232, 561-572.	1.2	15
33	IGF1 stimulates greater muscle hypertrophy in the absence of myostatin in male mice. Journal of Endocrinology, 2017, 234, 187-200.	1.2	38
34	Maternal exercise during pregnancy promotes physical activity in adult offspring. FASEB Journal, 2016, 30, 2541-2548.	0.2	59
35	Pulsatile delivery of a leucine supplement during long-term continuous enteral feeding enhances lean growth in term neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E699-E713.	1.8	16
36	Leucine supplementation of a chronically restricted protein and energy diet enhances mTOR pathway activation but not muscle protein synthesis in neonatal pigs. Amino Acids, 2016, 48, 257-267.	1.2	22

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37	Enteral Î²-hydroxy-Î²-methylbutyrate supplementation increases protein synthesis in skeletal muscle of neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E1072-E1084.	1.8	21
38	Manipulations of MeCP2 in glutamatergic neurons highlight their contributions to Rett and other neurological disorders. ELife, 2016, 5, .	2.8	86
39	Longâ€term Intermittent Leucine Pulses during Continuous Feeding Impact the Plasma Metabolome of Neonatal Pigs. FASEB Journal, 2016, 30, 908.5.	0.2	0
40	Postnatal Muscle Growth Is Dependent on Satellite Cell Proliferation Which Demonstrates A Specific Requirement for Dietary Protein. FASEB Journal, 2016, 30, 1244.1.	0.2	4
41	Longâ€term Leucine and BCAA Inclusion in a 30% Protein and Energy Restricted Diet Increases mTORC1 Signaling in Skeletal Muscle of Neonatal Pigs. FASEB Journal, 2016, 30, 124.3.	0.2	0
42	Intermittent Leucine Pulses during Continuous Feeding Alters Novel Components Involved in Skeletal Muscle Growth of Neonatal Pigs. FASEB Journal, 2016, 30, 430.2.	0.2	0
43	Bolus vs. continuous feeding to optimize anabolism in neonates. Current Opinion in Clinical Nutrition and Metabolic Care, 2015, 18, 102-108.	1.3	28
44	Impact of prolonged leucine supplementation on protein synthesis and lean growth in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E601-E610.	1.8	32
45	Dystropathology Increases Energy Expenditure and Protein Turnover in the Mdx Mouse Model of Duchenne Muscular Dystrophy. PLoS ONE, 2014, 9, e89277.	1.1	49
46	Extrarenal citrulline disposal in mice with impaired renal function. American Journal of Physiology - Renal Physiology, 2014, 307, F660-F665.	1.3	19
47	Ribosome abundance regulates the recovery of skeletal muscle protein mass upon recuperation from postnatal undernutrition in mice. Journal of Physiology, 2014, 592, 5269-5286.	1.3	30
48	Viscera and muscle protein synthesis in neonatal pigs is increased more by intermittent bolus than by continuous feeding. Pediatric Research, 2013, 74, 154-162.	1.1	15
49	Voluntary activity is blunted following undernutrition in early life. FASEB Journal, 2013, 27, 111.1.	0.2	0
50	In utero glucocorticoid exposure reduces fetal skeletal muscle mass in rats independent of effects on maternal nutrition. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 302, R1143-R1152.	0.9	25
51	Enteral leucine supplementation increases protein synthesis in skeletal and cardiac muscles and visceral tissues of neonatal pigs through mTORC1-dependent pathways. Pediatric Research, 2012, 71, 324-331.	1.1	54
52	In Vivo Measurement of Muscle Protein Synthesis Rate Using the Flooding Dose Technique. Methods in Molecular Biology, 2012, 798, 245-264.	0.4	7
53	The making of a muscle. Biochemist, 2012, 34, 4-11.	0.2	3
54	Nutritionallyâ€induced neonatal muscle growth retardation can be rescued by sustained muscle IGFâ€I expression. FASEB Journal, 2012, 26, 265.6.	0.2	0

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55	Lean Growth Is Enhanced by Intermittent Bolus Compared with Continuous Feeding in Neonates. FASEB Journal, 2012, 26, 42.3.	0.2	1
56	Persistence of an Adverse Metabolic Phenotype in Parenterally Fed Neonatal Pigs. FASEB Journal, 2012, 26, 34.4.	0.2	0
57	The making of a muscle. Biochemist, 2012, 34, 4-11.	0.2	2
58	Chronic Maternal Protein Deprivation in Mice Is Associated with Overexpression of the Cohesin-Mediator Complex in Liver of Their Offspring. Journal of Nutrition, 2011, 141, 2106-2112.	1.3	8
59	Differential Regulation of Protein Synthesis and mTOR Signaling in Skeletal Muscle and Visceral Tissues of Neonatal Pigs After a Meal. Pediatric Research, 2011, 70, 253-260.	1.1	22
60	Intermittent Bolus Feeding Has a Greater Stimulatory Effect on Protein Synthesis in Skeletal Muscle Than Continuous Feeding in Neonatal Pigs. Journal of Nutrition, 2011, 141, 2152-2158.	1.3	58
61	The different impact of a high fat diet on dystrophic mdx and control C57Bl/10 mice.. PLOS Currents, 2011, 3, RRN1276.	1.4	20
62	Ablations of Ghrelin and Ghrelin Receptor Exhibit Differential Metabolic Phenotypes and Thermogenic Capacity during Aging. PLoS ONE, 2011, 6, e16391.	1.1	60
63	Leucine Supplementation of a Low-Protein Meal Increases Skeletal Muscle and Visceral Tissue Protein Synthesis in Neonatal Pigs by Stimulating mTOR-Dependent Translation Initiation ,. Journal of Nutrition, 2010, 140, 2145-2152.	1.3	103
64	Effects of maternal plasmid GHRH treatment on offspring growth. Vaccine, 2010, 28, 1905-1910.	1.7	15
65	Mechanical ventilation and sepsis induce skeletal muscle catabolism in neonatal pigs. FASEB Journal, 2010, 24, 740.34.	0.2	0
66	In Utero Glucocorticoid (GLC) Exposure Reduces Fetal Skeletal Muscle Growth in Rats. FASEB Journal, 2010, 24, 740.3.	0.2	0
67	Differential Regulation of Protein Synthesis and mTOR Signaling in Skeletal Muscle and Visceral Tissues of Neonatal Pigs after a Meal. FASEB Journal, 2010, 24, 220.5.	0.2	0
68	Ageâ€dependent capacity to accelerate protein synthesis dictates the extent of compensatory growth in skeletal muscle following undernutrition. FASEB Journal, 2010, 24, 97.8.	0.2	0
69	Maturity aggravates sepsisâ€associated skeletal muscle catabolism in growing pigs.. FASEB Journal, 2010, 24, 327.2.	0.2	0
70	Intermittent Bolus Feeding Has a Greater Stimulatory Effect on Protein Synthesis in Skeletal Muscle than Continuous Feeding in Neonatal Pigs. FASEB Journal, 2010, 24, 327.3.	0.2	0
71	Feeding Rapidly Stimulates Protein Synthesis in Skeletal Muscle of Neonatal Pigs by Enhancing Translation Initiation , ,. Journal of Nutrition, 2009, 139, 1873-1880.	1.3	42
72	Regulation of muscle growth in neonates. Current Opinion in Clinical Nutrition and Metabolic Care, 2009, 12, 78-85.	1.3	209

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73	Acute IGFâ€ł infusion stimulates whole body protein synthesis but does not reduce proteolysis in neonates. FASEB Journal, 2007, 21, A1119.	0.2	0
74	Insulin and amino acids stimulate whole body protein synthesis in neonates. FASEB Journal, 2007, 21, A334.	0.2	0
75	Stimulation of whole body protein synthesis by insulin in neonates is dependent on the pattern of amino acids available. FASEB Journal, 2007, 21, A162.	0.2	0
76	Transplacental Transfer of a Growth Hormone-Releasing Hormone Peptide from Mother to Fetus in the Rat. DNA and Cell Biology, 2006, 25, 429-437.	0.9	7
77	Regulation of ERK expression by muscle IGFâ€ł <i>in vivo</i> determines the capacity for myonuclear proliferation. FASEB Journal, 2006, 20, A1046.	0.2	0
78	Persistent IGFâ€ł overexpression in skeletal muscle transiently enhances DNA accretion and growth 1. FASEB Journal, 2003, 17, 59-60.	0.2	63
79	Maternal GHRH plasmid administration changes pituitary cell lineage and improves progeny growth of pigs. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E224-E231.	1.8	22
80	Nonhereditary Enhancement of Progeny Growth. Endocrinology, 2002, 143, 3561-3567.	1.4	11
81	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.	1.8	155
82	Regulation of myofibrillar protein turnover during maturation in normal and undernourished rat pups. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R845-R854.	0.9	31
83	Nonnutritive Factors in Colostrum Enhance Myofibrillar Protein Synthesis in the Newborn Pig. Pediatric Research, 2000, 48, 511-517.	1.1	32
84	Protein nutrition of the neonate. Proceedings of the Nutrition Society, 2000, 59, 87-97.	0.4	43
85	Dexamethasone inhibits small intestinal growth via increased protein catabolism in neonatal pigs. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E269-E277.	1.8	25
86	Aminoacyl-tRNA and tissue free amino acid pools are equilibrated after a flooding dose of phenylalanine. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E103-E109.	1.8	66
87	Local insulinâ€łlike growth factor I expression induces physiologic, then pathologic, cardiac hypertrophy in transgenic mice. FASEB Journal, 1999, 13, 1923-1929.	0.2	149
88	Myogenic expression of an injectable protease-resistant growth hormoneâ€"releasing hormone augments long-term growth in pigs. Nature Biotechnology, 1999, 17, 1179-1183.	9.4	100
89	Roles of Insulin and Amino Acids in the Regulation of Protein Synthesis in the Neonate ,. Journal of Nutrition, 1998, 128, 347S-350S.	1.3	87
90	Chronic Low Protein Intake Reduces Tissue Protein Synthesis in a Pig Model of Protein Malnutrition. Journal of Nutrition, 1996, 126, 1481-1488.	1.3	78

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91	Nutrient-Independent and Nutrient-Dependent Factors Stimulate Protein Synthesis in Colostrum-Fed Newborn Pigs. Pediatric Research, 1995, 37, 593-599.	1.1	129
92	Both Maternal Overâ€•and Undernutrition During Gestation Increase the Adiposity of Young Adult Progeny in Rats. Obesity, 1995, 3, 131-141.	4.0	15
93	Amino acid composition of the milk of some mammalian species changes with stage of lactation. British Journal of Nutrition, 1994, 72, 845-853.	1.2	65
94	Amino Acid Compositions of Body and Milk Protein Change during the Suckling Period in Rats. Journal of Nutrition, 1993, 123, 947-956.	1.3	83
95	Stage of Development and Fasting Affect Protein Synthetic Activity in the Gastrointestinal Tissues of Suckling Rats. Journal of Nutrition, 1991, 121, 1099-1108.	1.3	46
96	Specific Effects of Weight Loss, Protein Deficiency and Energy Deprivation on the Water and Electrolyte Composition of Young Rats. Journal of Nutrition, 1987, 117, 933-940.	1.3	6