

Michael Edward Symonds

List of Publications by Citations

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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.

191 papers	6,010 citations	44 h-index	69 g-index
552 ext. papers	6,878 ext. citations	4 avg, IF	6 L-index

#	Paper	IF	Citations
191	Nutritional programming of the metabolic syndrome. <i>Nature Reviews Endocrinology</i> , 2009 , 5, 604-10	15.2	267
190	Set points, settling points and some alternative models: theoretical options to understand how genes and environments combine to regulate body adiposity. <i>DMM Disease Models and Mechanisms</i> , 2011 , 4, 733-45	4.1	206
189	Brown adipose tissue and seasonal variation in humans. <i>Diabetes</i> , 2009 , 58, 2583-7	0.9	199
188	Anatomical locations of human brown adipose tissue: functional relevance and implications in obesity and type 2 diabetes. <i>Diabetes</i> , 2013 , 62, 1783-90	0.9	172
187	Reduced selenium concentrations and glutathione peroxidase activity in preeclamptic pregnancies. <i>Hypertension</i> , 2008 , 52, 881-8	8.5	149
186	Long-term effects of nutritional programming of the embryo and fetus: mechanisms and critical windows. <i>Reproduction, Fertility and Development</i> , 2007 , 19, 53-63	1.8	146
185	Peri-implantation undernutrition programs blunted angiotensin II evoked baroreflex responses in young adult sheep. <i>Hypertension</i> , 2004 , 43, 1290-6	8.5	130
184	Thermal imaging to assess age-related changes of skin temperature within the supraclavicular region co-locating with brown adipose tissue in healthy children. <i>Journal of Pediatrics</i> , 2012 , 161, 892-8	3.6	120
183	Adult epicardial fat exhibits beige features. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, E1448-55	5.6	112
182	Adipose tissue and fetal programming. <i>Diabetologia</i> , 2012 , 55, 1597-606	10.3	103
181	Maternal nutrition alters the expression of insulin-like growth factors in fetal sheep liver and skeletal muscle. <i>Journal of Endocrinology</i> , 2000 , 167, 429-37	4.7	97
180	Metabolic imprinting, programming and epigenetics - a review of present priorities and future opportunities. <i>British Journal of Nutrition</i> , 2010 , 104 Suppl 1, S1-25	3.6	94
179	Timing of nutrient restriction and programming of fetal adipose tissue development. <i>Proceedings of the Nutrition Society</i> , 2004 , 63, 397-403	2.9	92
178	The early programming of metabolic health: is epigenetic setting the missing link?. <i>American Journal of Clinical Nutrition</i> , 2011 , 94, 1953S-1958S	7	91
177	Influence of maternal pre-pregnancy body composition and diet during early-mid pregnancy on cardiovascular function and nephron number in juvenile sheep. <i>British Journal of Nutrition</i> , 2005 , 94, 938-47	3.6	88
176	Exercise-induced 'browning' of adipose tissues. <i>Metabolism: Clinical and Experimental</i> , 2018 , 81, 63-70	12.7	82
175	Ontogeny and nutritional programming of adiposity in sheep: potential role of glucocorticoid action and uncoupling protein-2. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 289, R1407-15	3.2	81

174	Glucagon increases energy expenditure independently of brown adipose tissue activation in humans. <i>Diabetes, Obesity and Metabolism</i> , 2016 , 18, 72-81	6.7	81
173	Brown adipose tissue growth and development. <i>Scientifica</i> , 2013 , 2013, 305763	2.6	78
172	Maternal nutrition in early-mid gestation and placental size in sheep. <i>British Journal of Nutrition</i> , 1998 , 79, 359-64	3.6	76
171	'Browning' the cardiac and peri-vascular adipose tissues to modulate cardiovascular risk. <i>International Journal of Cardiology</i> , 2017 , 228, 265-274	3.2	75
170	Influence of restricted maternal nutrition in early to mid gestation on placental and fetal development at term in sheep. <i>Pediatric Research</i> , 1998 , 44, 546-51	3.2	75
169	An evolving scientific basis for the prevention and treatment of pediatric obesity. <i>International Journal of Obesity</i> , 2014 , 38, 887-905	5.5	73
168	Effect of periconceptional undernutrition and gender on hypothalamic-pituitary-adrenal axis function in young adult sheep. <i>Journal of Endocrinology</i> , 2006 , 190, 203-12	4.7	69
167	Maternal Body Weight and Gestational Diabetes Differentially Influence Placental and Pregnancy Outcomes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 59-68	5.6	68
166	Food insecurity and mental health: a systematic review and meta-analysis. <i>Public Health Nutrition</i> , 2020 , 23, 1778-1790	3.3	67
165	Prolactin receptor gene expression and foetal adipose tissue. <i>Journal of Neuroendocrinology</i> , 1998 , 10, 885-90	3.8	67
164	Early life nutritional programming of obesity: mother-child cohort studies. <i>Annals of Nutrition and Metabolism</i> , 2013 , 62, 137-45	4.5	66
163	Maternal nutritional programming of fetal adipose tissue development: long-term consequences for later obesity. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2005 , 75, 193-9		66
162	Sexual dimorphism in white and brown adipose tissue with obesity and inflammation. <i>Hormones and Behavior</i> , 2014 , 66, 95-103	3.7	63
161	Differential expression and distribution of placental glutathione peroxidases 1, 3 and 4 in normal and preeclamptic pregnancy. <i>Placenta</i> , 2010 , 31, 401-8	3.4	63
160	Maternal manipulation of brown adipose tissue and liver development in the ovine fetus during late gestation. <i>British Journal of Nutrition</i> , 1997 , 77, 871-83	3.6	62
159	Prenatal undernutrition, glucocorticoids and the programming of adult hypertension. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2001 , 28, 938-41	3	60
158	Effect of maternal nutrition on brown adipose tissue and its prolactin receptor status in the fetal lamb. <i>Pediatric Research</i> , 2000 , 47, 781-6	3.2	60
157	Influence of cortisol on adipose tissue development in the fetal sheep during late gestation. <i>Journal of Endocrinology</i> , 2003 , 176, 23-30	4.7	59

156	The Ontogeny of Brown Adipose Tissue. <i>Annual Review of Nutrition</i> , 2015 , 35, 295-320	9.9	56
155	The placental exposome: placental determinants of fetal adiposity and postnatal body composition. <i>Annals of Nutrition and Metabolism</i> , 2013 , 63, 208-15	4.5	56
154	Effects of increasing gestation, cortisol and maternal undernutrition on hypothalamic neuropeptide Y expression in the sheep fetus. <i>Journal of Neuroendocrinology</i> , 1998 , 10, 51-7	3.8	55
153	Nutritional manipulation of fetal adipose tissue deposition and uncoupling protein 1 messenger RNA abundance in the sheep: differential effects of timing and duration. <i>Biology of Reproduction</i> , 2004 , 71, 359-65	3.9	55
152	The developmental transition of ovine adipose tissue through early life. <i>Acta Physiologica</i> , 2014 , 210, 20-30	5.6	53
151	Circulating leptin concentrations are positively related to leptin messenger RNA expression in the adipose tissue of fetal sheep in the pregnant ewe fed at or below maintenance energy requirements during late gestation. <i>Biology of Reproduction</i> , 2002 , 67, 911-6	3.9	53
150	Pregnancy and Infants' Outcome: Nutritional and Metabolic Implications. <i>Critical Reviews in Food Science and Nutrition</i> , 2016 , 56, 82-91	11.5	50
149	Effect of fetal thyroidectomy on brown adipose tissue and thermoregulation in newborn lambs. <i>Reproduction, Fertility and Development</i> , 1996 , 8, 995-1002	1.8	49
148	Hypertension and impaired renal function accompany juvenile obesity: the effect of prenatal diet. <i>Kidney International</i> , 2007 , 72, 279-89	9.9	44
147	Maternal nutrient restriction during pregnancy differentially alters the unfolded protein response in adipose and renal tissue of obese juvenile offspring. <i>FASEB Journal</i> , 2009 , 23, 1314-24	0.9	43
146	The impact of diet during early life and its contribution to later disease: critical checkpoints in development and their long-term consequences for metabolic health. <i>Proceedings of the Nutrition Society</i> , 2009 , 68, 416-21	2.9	42
145	Programming research: where are we and where do we go from here?. <i>American Journal of Clinical Nutrition</i> , 2011 , 94, 2036S-2043S	7	41
144	Body mass index as a determinant of brown adipose tissue function in healthy children. <i>Journal of Pediatrics</i> , 2014 , 164, 318-22.e1	3.6	40
143	Maternal nutrient restriction in early pregnancy programs hepatic mRNA expression of growth-related genes and liver size in adult male sheep. <i>Journal of Endocrinology</i> , 2007 , 192, 87-97	4.7	40
142	Thermal Imaging Is a Noninvasive Alternative to PET/CT for Measurement of Brown Adipose Tissue Activity in Humans. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 516-522	8.9	39
141	Ontogeny and nutritional programming of uncoupling protein-2 and glucocorticoid receptor mRNA in the ovine lung. <i>Journal of Physiology</i> , 2005 , 565, 159-69	3.9	39
140	Integration of physiological and molecular mechanisms of the developmental origins of adult disease: new concepts and insights. <i>Proceedings of the Nutrition Society</i> , 2007 , 66, 442-50	2.9	38
139	Glucocorticoids modulate human brown adipose tissue thermogenesis in vivo. <i>Metabolism: Clinical and Experimental</i> , 2017 , 70, 125-132	12.7	37

138	Ambient temperature, maternal dexamethasone, and postnatal ontogeny of leptin in the neonatal lamb. <i>Pediatric Research</i> , 2002 , 52, 85-90	3.2	37
137	Brown adipose tissue activation as measured by infrared thermography by mild anticipatory psychological stress in lean healthy females. <i>Experimental Physiology</i> , 2016 , 101, 549-57	2.4	36
136	Caffeine exposure induces browning features in adipose tissue in vitro and in vivo. <i>Scientific Reports</i> , 2019 , 9, 9104	4.9	35
135	Nutritional models of the developmental programming of adult health and disease. <i>Proceedings of the Nutrition Society</i> , 2009 , 68, 173-8	2.9	35
134	Adipose tissue development during early life: novel insights into energy balance from small and large mammals. <i>Proceedings of the Nutrition Society</i> , 2012 , 71, 363-70	2.9	34
133	Differential effects of leptin on thermoregulation and uncoupling protein abundance in the neonatal lamb. <i>FASEB Journal</i> , 2002 , 16, 1438-40	0.9	33
132	Prevalence and pattern of brown adipose tissue distribution of 18F-FDG in patients undergoing PET-CT in a subtropical climatic zone. <i>Nuclear Medicine Communications</i> , 2013 , 34, 168-74	1.6	32
131	Maternal nutrient restriction alters renal development and blood pressure regulation of the offspring. <i>Proceedings of the Nutrition Society</i> , 2006 , 65, 116-24	2.9	32
130	Getting rhythm: how do babies do it?. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2015 , 100, F50-4	4.7	31
129	Adipose tissue development--impact of the early life environment. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 106, 300-6	4.7	31
128	Early programming of adipose tissue function: a large-animal perspective. <i>Proceedings of the Nutrition Society</i> , 2009 , 68, 393-400	2.9	31
127	Experimental evidence for early nutritional programming of later health in animals. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2006 , 9, 278-83	3.8	31
126	Adipocyte Browning and Higher Mitochondrial Function in Periadrenal But Not SC Fat in Pheochromocytoma. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 4440-4448	5.6	30
125	The influence of sex steroids on adipose tissue growth and function. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2014 , 19, 13-24	1.3	30
124	Early developmental influences on hepatic organogenesis. <i>Organogenesis</i> , 2008 , 4, 170-5	1.7	30
123	Ontogeny and nutritional programming of the hepatic growth hormone-insulin-like growth factor-prolactin axis in the sheep. <i>Endocrinology</i> , 2007 , 148, 4754-60	4.8	30
122	Differential Effects of Fetal Number and Maternal Nutrition in Late Gestation on Prolactin Receptor Abundance and Adipose Tissue Development in the Neonatal Lamb. <i>Pediatric Research</i> , 2003 , 53, 302-308	3.2	30
121	Excess nutrient supply in early life and its later metabolic consequences. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013 , 40, 817-23	3	29

120	Maternal health and eating habits: metabolic consequences and impact on child health. <i>Trends in Molecular Medicine</i> , 2015 , 21, 126-33	11.5	28
119	Influence of size at birth on the endocrine profiles and expression of uncoupling proteins in subcutaneous adipose tissue, lung, and muscle of neonatal pigs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R1536-42	3.2	28
118	The Nutrition Society 1994 Silver Medal Lecture. Pregnancy, parturition and neonatal development: interactions between nutrition and thyroid hormones. <i>Proceedings of the Nutrition Society</i> , 1995 , 54, 329-43	2.9	28
117	Adipose tissue inflammation: developmental ontogeny and consequences of gestational nutrient restriction in offspring. <i>Endocrinology</i> , 2009 , 150, 3913-20	4.8	26
116	The obesity epidemic: from the environment to epigenetics - not simply a response to dietary manipulation in a thermoneutral environment. <i>Frontiers in Genetics</i> , 2011 , 2, 24	4.5	26
115	Influence of maternal bodyweight on size, conformation and survival of newborn lambs. <i>Reproduction, Fertility and Development</i> , 1997 , 9, 509-14	1.8	25
114	The use of infrared thermography in the measurement and characterization of brown adipose tissue activation. <i>Temperature</i> , 2018 , 5, 147-161	5.2	25
113	Suboptimal maternal nutrition affects offspring health in adult life. <i>Early Human Development</i> , 2013 , 89, 909-13	2.2	24
112	Low temperature exposure induces browning of bone marrow stem cell derived adipocytes in vitro. <i>Scientific Reports</i> , 2018 , 8, 4974	4.9	23
111	Ontogeny and nutritional manipulation of the hepatic prolactin-growth hormone-insulin-like growth factor axis in the ovine fetus and in neonate and juvenile sheep. <i>Proceedings of the Nutrition Society</i> , 2004 , 63, 127-35	2.9	23
110	Early determinants of cardiovascular disease: the role of early diet in later blood pressure control. <i>American Journal of Clinical Nutrition</i> , 2009 , 89, 1518S-1522S	7	22
109	Epigenetics and obesity: a relationship waiting to be explained. <i>Human Heredity</i> , 2013 , 75, 90-7	1.1	21
108	Influence of porcine genotype on the abundance of thyroid hormones and leptin in sow milk and its impact on growth, metabolism and expression of key adipose tissue genes in offspring. <i>Journal of Endocrinology</i> , 2006 , 190, 631-9	4.7	21
107	Nutrient availability, the microbiome, and intestinal transport during pregnancy. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015 , 40, 1100-6	3	20
106	Efficacy of l-carnitine supplementation for management of blood lipids: A systematic review and dose-response meta-analysis of randomized controlled trials. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2019 , 29, 1151-1167	4.5	20
105	Brown adipose tissue genes in pericardial adipose tissue of newborn sheep are downregulated by maternal nutrient restriction in late gestation. <i>Pediatric Research</i> , 2013 , 74, 246-51	3.2	20
104	The effects of silymarin supplementation on metabolic status and oxidative stress in patients with type 2 diabetes mellitus: A systematic review and meta-analysis of clinical trials. <i>Complementary Therapies in Medicine</i> , 2018 , 41, 311-319	3.5	19
103	Effects of pro-/synbiotic supplementation on anthropometric and metabolic indices in overweight or obese children and adolescents: A systematic review and meta-analysis. <i>Complementary Therapies in Medicine</i> , 2019 , 44, 269-276	3.5	18

102	Effect of pre- and postnatal growth and post-weaning activity on glucose metabolism in the offspring. <i>Journal of Endocrinology</i> , 2015 , 224, 171-82	4.7	18
101	Effect of Bariatric Surgery on the Circulating Level of Adiponectin, Chemerin, Plasminogen Activator Inhibitor-1, Leptin, Resistin, and Visfatin: A Systematic Review and Meta-Analysis. <i>Hormone and Metabolic Research</i> , 2020 , 52, 207-215	3.1	18
100	The Impact of Moderate-Intensity Continuous or High-Intensity Interval Training on Adipogenesis and Browning of Subcutaneous Adipose Tissue in Obese Male Rats. <i>Nutrients</i> , 2020 , 12,	6.7	18
99	High Fructose Intake During Pregnancy in Rats Influences the Maternal Microbiome and Gut Development in the Offspring. <i>Frontiers in Genetics</i> , 2018 , 9, 203	4.5	17
98	Sex differences in metabolic and adipose tissue responses to juvenile-onset obesity in sheep. <i>Endocrinology</i> , 2013 , 154, 3622-31	4.8	17
97	Impact of early onset obesity and hypertension on the unfolded protein response in renal tissues of juvenile sheep. <i>Hypertension</i> , 2009 , 53, 925-31	8.5	17
96	Maternal nutrient restriction during early to mid gestation alters the relationship between insulin-like growth factor I and bodyweight at term in fetal sheep. <i>Reproduction, Fertility and Development</i> , 2000 , 12, 345-50	1.8	17
95	Effect of beta 3-adrenergic agonist (Zeneca D7114) on thermoregulation in near-term lambs delivered by cesarean section. <i>Pediatric Research</i> , 1996 , 40, 330-6	3.2	17
94	The Placenta, Maternal Diet and Adipose Tissue Development in the Newborn. <i>Annals of Nutrition and Metabolism</i> , 2017 , 70, 232-235	4.5	16
93	Maternal nutrient restriction during early fetal kidney development attenuates the renal innate inflammatory response in obese young adult offspring. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F1199-207	4.3	16
92	The influence of sex on early stage markers of kidney dysfunction in response to juvenile obesity. <i>Hypertension</i> , 2012 , 60, 991-7	8.5	16
91	Beneficial effects of l-carnitine supplementation for weight management in overweight and obese adults: An updated systematic review and dose-response meta-analysis of randomized controlled trials. <i>Pharmacological Research</i> , 2020 , 151, 104554	10.2	16
90	Gene pathway development in human epicardial adipose tissue during early life. <i>JCI Insight</i> , 2016 , 1, e87460	9.9	16
89	Recent advances in our understanding of brown and beige adipose tissue: the good fat that keeps you healthy. <i>F1000Research</i> , 2018 , 7,	3.6	16
88	The effects of metformin administration on liver enzymes and body composition in non-diabetic patients with non-alcoholic fatty liver disease and/or non-alcoholic steatohepatitis: An up-to date systematic review and meta-analysis of randomized controlled trials. <i>Pharmacological Research</i> , 2020 , 159, 104799	10.2	15
87	Brown adipose tissue development and function and its impact on reproduction. <i>Journal of Endocrinology</i> , 2018 , 238, R53-R62	4.7	15
86	The impact of high-intensity interval training on inflammatory markers in metabolic disorders: A meta-analysis. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020 , 30, 2020-2036	4.6	14
85	Conference on "Multidisciplinary approaches to nutritional problems". Symposium on "Diabetes and health". Nutrition and its contribution to obesity and diabetes: a life-course approach to disease prevention?. <i>Proceedings of the Nutrition Society</i> , 2009 , 68, 71-7	2.9	14

84	Mathematical modeling of glucose homeostasis and its relationship with energy balance and body fat. <i>Obesity</i> , 2009 , 17, 632-9	8	13
83	Ontogeny and Thermogenic Role for Sternal Fat in Female Sheep. <i>Endocrinology</i> , 2017 , 158, 2212-2225	4.8	12
82	Maternal nutrient restriction is not equivalent to maternal biological stress. <i>Current Drug Targets</i> , 2007 , 8, 888-93	3	12
81	Exercise Training in Obese Rats Does Not Induce Browning at Thermoneutrality and Induces a Muscle-Like Signature in Brown Adipose Tissue. <i>Frontiers in Endocrinology</i> , 2020 , 11, 97	5.7	11
80	Influence of thyrotrophin-releasing hormone on thermoregulation in newborn lambs. <i>Neonatology</i> , 1998 , 73, 52-9	4	11
79	Influence of thyroid hormones and temperature on adipose tissue development and lung maturation. <i>Proceedings of the Nutrition Society</i> , 1996 , 55, 561-9	2.9	11
78	Brown adipose tissue and glucose homeostasis - the link between climate change and the global rise in obesity and diabetes. <i>Adipocyte</i> , 2019 , 8, 46-50	3.2	11
77	UCP1 is present in porcine adipose tissue and is responsive to postnatal leptin. <i>Journal of Endocrinology</i> , 2014 , 223, M31-8	4.7	10
76	Suboptimal maternal nutrition during early-to-mid gestation in the sheep enhances pericardial adiposity in the near-term fetus. <i>Reproduction, Fertility and Development</i> , 2015 , 27, 1205-12	1.8	10
75	Reduced neonatal mortality in Meishan piglets: a role for hepatic fatty acids?. <i>PLoS ONE</i> , 2012 , 7, e49101	3.7	10
74	Differential effects of age and sex on the postnatal responsiveness of brown adipose tissue to prolactin administration in rats. <i>Experimental Physiology</i> , 2003 , 88, 527-31	2.4	10
73	Leptin, fetal nutrition, and long-term outcomes for adult hypertension. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2005 , 12, 73-9		10
72	Influence of thyrotropin-releasing hormone administration at birth on thermoregulation in lambs delivered by cesarean. <i>American Journal of Obstetrics and Gynecology</i> , 2000 , 183, 1257-62	6.4	10
71	Whole-body fuel selection: 'reproduction'. <i>Proceedings of the Nutrition Society</i> , 1995 , 54, 283-99	2.9	10
70	Beta-adrenoceptors and the effect of beta-agonists on protein metabolism in ovine primary muscle cultures. <i>Biochemical Pharmacology</i> , 1990 , 40, 2271-6	6	10
69	High fructose consumption in pregnancy alters the perinatal environment without increasing metabolic disease in the offspring. <i>Reproduction, Fertility and Development</i> , 2016 , 28, 2007-2015	1.8	10
68	Effects of strawberry supplementation on cardiovascular risk factors: a comprehensive systematic review and meta-analysis of randomized controlled trials. <i>Food and Function</i> , 2019 , 10, 6987-6998	6.1	10
67	Public-private collaboration in clinical research during pregnancy, lactation, and childhood: joint position statement of the Early Nutrition Academy and the European Society for Pediatric Gastroenterology, Hepatology, and Nutrition. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2014 , 58, 525-30	2.8	9

66	Effects of maternal parity and late gestational nutrition on mRNA abundance for growth factors in the liver of postnatal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 292, R1934-42	3.2	9
65	Beta2-agonist ritodrine, unlike natural catecholamines, activates thermogenesis prematurely in fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 275, R112-9	3.2	9
64	The impact of exercise training versus caloric restriction on inflammation markers: a systemic review and meta-analysis. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-16	11.5	9
63	Sexual Dimorphism of Brown Adipose Tissue Function. <i>Journal of Pediatrics</i> , 2019 , 210, 166-172.e1	3.6	8
62	Infrared Thermography. <i>Handbook of Experimental Pharmacology</i> , 2019 , 251, 259-282	3.2	8
61	Impact of maternal dietary fat supplementation during gestation upon skeletal muscle in neonatal pigs. <i>BMC Physiology</i> , 2014 , 14, 6	0	8
60	Influence of maternal bodyweight on adaptation after birth in near-term lambs delivered by Caesarean section. <i>Reproduction, Fertility and Development</i> , 1998 , 10, 333-9	1.8	8
59	Sleep duration and sarcopenia risk: a systematic review and dose-response meta-analysis. <i>Sleep and Breathing</i> , 2020 , 24, 1267-1278	3.1	8
58	Brown Adipose Tissue Response to Cold Stimulation Is Reduced in Girls With Autoimmune Hypothyroidism. <i>Journal of the Endocrine Society</i> , 2019 , 3, 2411-2426	0.4	8
57	Interscapular and Perivascular Brown Adipose Tissue Respond Differently to a Short-Term High-Fat Diet. <i>Nutrients</i> , 2019 , 11,	6.7	7
56	Differential effects of fetal number and maternal nutrition in late gestation on prolactin receptor abundance and adipose tissue development in the neonatal lamb. <i>Pediatric Research</i> , 2003 , 53, 302-8	3.2	7
55	Impact of acute exercise on immediate and following early post-exercise FGF-21 concentration in adults: systematic review and meta-analysis. <i>Hormones</i> , 2021 , 20, 23-33	3.1	7
54	Tissue specific adaptations to nutrient supply: more than just epigenetics?. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 646, 113-8	3.6	7
53	How promising is thermal imaging in the quest to combat obesity?. <i>Imaging in Medicine</i> , 2012 , 4, 589-591		6
52	Nutrition-environment interactions in pregnancy. <i>Nutrition Research Reviews</i> , 1996 , 9, 135-48	7	6
51	Comprehensive literature search for animal studies may have saved STRIDER trial. <i>BMJ, The</i> , 2018 , 362, k4007	5.9	6
50	Transcriptional analysis of adipose tissue during development reveals depot-specific responsiveness to maternal dietary supplementation. <i>Scientific Reports</i> , 2018 , 8, 9628	4.9	6
49	Nutritional Programming of Foetal Development: Endocrine Mediators and Long-Term Outcomes for Cardiovascular Health. <i>Current Nutrition and Food Science</i> , 2006 , 2, 389-398	0.7	5

48	The Impact of Maternal Pre-Pregnancy Body Weight and Gestational Diabetes on Markers of Folate Metabolism in the Placenta. <i>Nutrients</i> , 2018 , 10,	6.7	5
47	Adipose tissue growth and development: the modulating role of ambient temperature. <i>Journal of Endocrinology</i> , 2021 , 248, R19-R28	4.7	5
46	Beyond obesity - thermogenic adipocytes and cardiometabolic health. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2017 , 31,	1.3	4
45	Policosanols supplementation significantly improves blood pressure among adults: A systematic review and meta-analysis of randomized controlled trials. <i>Complementary Therapies in Medicine</i> , 2019 , 45, 89-97	3.5	4
44	Live Simultaneous Monitoring of Mineral Deposition and Lipid Accumulation in Differentiating Stem Cells. <i>Biomimetics</i> , 2019 , 4,	3.7	4
43	Fetal and neonatal adipose maturation: a primary site of cytokine and cytokine-receptor action. <i>Biochemical Society Transactions</i> , 2001 , 29, 80-5	5.1	4
42	Housing Temperature Modulates the Impact of Diet-Induced Rise in Fat Mass on Adipose Tissue Before and During Pregnancy in Rats. <i>Frontiers in Physiology</i> , 2019 , 10, 209	4.6	3
41	Lifetime Exposure to a Constant Environment Amplifies the Impact of a Fructose-Rich Diet on Glucose Homeostasis during Pregnancy. <i>Nutrients</i> , 2017 , 9,	6.7	3
40	Epigenomics - Grand Challenge: Much more than the Developmental Origins of Adult Health and Disease. <i>Frontiers in Genetics</i> , 2010 , 1, 1	4.5	3
39	The developmental environment and the development of obesity 255-264		3
38	Targeting Glutamine Synthesis Inhibits Stem Cell Adipogenesis in Vitro. <i>Cellular Physiology and Biochemistry</i> , 2020 , 54, 917-927	3.9	3
37	Exercise does not induce browning of WAT at thermoneutrality and induces an oxidative, myogenic signature in BAT		3
36	Reduced brown adipose tissue-associated skin temperature following cold stimulation in children and adolescents with type 1 diabetes. <i>Pediatric Diabetes</i> , 2021 , 22, 407-416	3.6	3
35	Homocysteine and folate plasma concentrations in mother and baby at delivery after pre-eclamptic or normotensive pregnancy: Influence of parity. <i>Pregnancy Hypertension</i> , 2011 , 1, 150-5	2.6	2
34	Dangers of dieting: what advice should be given to obese expectant mothers?. <i>Expert Review of Obstetrics and Gynecology</i> , 2010 , 5, 39-47		2
33	The effect of increased maternal dietary intake during pregnancy on offspring birth weight and neonatal survival. <i>Proceedings of the Nutrition Society</i> , 2008 , 67,	2.9	2
32	Influence of Thyrotrophin-Releasing Hormone on Thermoregulatory Adaptation after Birth in Near-Term Lambs Delivered by Caesarean Section. <i>Experimental Physiology</i> , 1999 , 84, 979-987	2.4	2
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