

Beverly Muhlhausler

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.

105
papers

3,122
citations

28
h-index

54
g-index

111
ext. papers

3,766
ext. citations

4.2
avg, IF

5.45
L-index

#	Paper	IF	Citations
105	Critical evaluation of the Illumina MethylationEPIC BeadChip microarray for whole-genome DNA methylation profiling. <i>Genome Biology</i> , 2016 , 17, 208	18.3	517
104	Developmental origins of adult health and disease: the role of periconceptual and foetal nutrition. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008 , 102, 82-9	3.1	177
103	Maternal "junk-food" feeding of rat dams alters food choices and development of the mesolimbic reward pathway in the offspring. <i>FASEB Journal</i> , 2011 , 25, 2167-79	0.9	168
102	Early origins of obesity: programming the appetite regulatory system. <i>Journal of Physiology</i> , 2005 , 565, 9-17	3.9	152
101	Fetal growth restriction, catch-up growth and the early origins of insulin resistance and visceral obesity. <i>Pediatric Nephrology</i> , 2010 , 25, 669-77	3.2	129
100	Recent developments on the role of epigenetics in obesity and metabolic disease. <i>Clinical Epigenetics</i> , 2015 , 7, 66	7.7	112
99	Omega-6 polyunsaturated fatty acids and the early origins of obesity. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2013 , 20, 56-61	4	93
98	Early-life origins of metabolic dysfunction: role of the adipocyte. <i>Trends in Endocrinology and Metabolism</i> , 2009 , 20, 51-7	8.8	90
97	Periconceptual undernutrition in normal and overweight ewes leads to increased adrenal growth and epigenetic changes in adrenal IGF2/H19 gene in offspring. <i>FASEB Journal</i> , 2010 , 24, 2772-82	0.9	89
96	The transition from fetal growth restriction to accelerated postnatal growth: a potential role for insulin signalling in skeletal muscle. <i>Journal of Physiology</i> , 2009 , 587, 4199-211	3.9	82
95	Prenatal programming of postnatal obesity: fetal nutrition and the regulation of leptin synthesis and secretion before birth. <i>Proceedings of the Nutrition Society</i> , 2004 , 63, 405-12	2.9	81
94	Effect of long-chain polyunsaturated fatty acid supplementation during pregnancy or lactation on infant and child body composition: a systematic review. <i>American Journal of Clinical Nutrition</i> , 2010 , 92, 857-63	7	60
93	Appetite regulatory neuropeptides are expressed in the sheep hypothalamus before birth. <i>Journal of Neuroendocrinology</i> , 2004 , 16, 502-7	3.8	60
92	Impact of glucose infusion on the structural and functional characteristics of adipose tissue and on hypothalamic gene expression for appetite regulatory neuropeptides in the sheep fetus during late gestation. <i>Journal of Physiology</i> , 2005 , 565, 185-95	3.9	59
91	Whole animal experiments should be more like human randomized controlled trials. <i>PLoS Biology</i> , 2013 , 11, e1001481	9.7	57
90	Australian ConsumersTAwareness and Acceptance of Insects as Food. <i>Insects</i> , 2018 , 9,	2.8	55
89	Effect of prenatal DHA supplementation on the infant epigenome: results from a randomized controlled trial. <i>Clinical Epigenetics</i> , 2016 , 8, 114	7.7	48

88	The effect of maternal omega-3 long-chain polyunsaturated fatty acid (n-3 LCPUFA) supplementation during pregnancy and/or lactation on body fat mass in the offspring: a systematic review of animal studies. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2011 , 85, 83-8	2.8	47
87	Are twins growth restricted?. <i>Pediatric Research</i> , 2011 , 70, 117-22	3.2	47
86	Chronic intake of a cafeteria diet and subsequent abstinence. Sex-specific effects on gene expression in the mesolimbic reward system. <i>Appetite</i> , 2013 , 65, 189-99	4.5	46
85	Programming of the appetite-regulating neural network: a link between maternal overnutrition and the programming of obesity?. <i>Journal of Neuroendocrinology</i> , 2007 , 19, 67-72	3.8	44
84	DNA extraction approaches substantially influence the assessment of the human breast milk microbiome. <i>Scientific Reports</i> , 2020 , 10, 123	4.9	40
83	Intrauterine growth restriction and the sex specific programming of leptin and peroxisome proliferator-activated receptor gamma (PPARGamma) mRNA expression in visceral fat in the lamb. <i>Pediatric Research</i> , 2009 , 66, 59-65	3.2	40
82	Antioxidant capacity and vitamin E in barley: Effect of genotype and storage. <i>Food Chemistry</i> , 2015 , 187, 65-74	8.5	39
81	Placental restriction of fetal growth decreases IGF1 and leptin mRNA expression in the perirenal adipose tissue of late gestation fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R1413-9	3.2	33
80	DHA supplementation during pregnancy does not reduce BMI or body fat mass in children: follow-up of the DHA to Optimize Mother Infant Outcome randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , 2016 , 103, 1489-96	7	33
79	Maternal dietary ratio of linoleic acid to alpha-linolenic acid during pregnancy has sex-specific effects on placental and fetal weights in the rat. <i>Nutrition and Metabolism</i> , 2019 , 16, 1	4.6	32
78	Validation of an optimized method for the determination of iodine in human breast milk by inductively coupled plasma mass spectrometry (ICPMS) after tetramethylammonium hydroxide extraction. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015 , 29, 75-82	4.1	29
77	Impact of perinatal exposure to sucrose or high fructose corn syrup (HFCS-55) on adiposity and hepatic lipid composition in rat offspring. <i>Journal of Physiology</i> , 2017 , 595, 4379-4398	3.9	26
76	A maternal "junk-food" diet reduces sensitivity to the opioid antagonist naloxone in offspring postweaning. <i>FASEB Journal</i> , 2013 , 27, 1275-84	0.9	24
75	Effects of resveratrol supplementation on bone growth in young rats and microarchitecture and remodeling in ageing rats. <i>Nutrients</i> , 2014 , 6, 5871-87	6.7	24
74	Consuming a low-fat diet from weaning to adulthood reverses the programming of food preferences in male, but not in female, offspring of Junk foodFed rat dams. <i>Acta Physiologica</i> , 2014 , 210, 127-41	5.6	23
73	A validated method for analyzing polyunsaturated free fatty acids from dried blood spots using LC-MS/MS. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2017 , 125, 1-7	2.8	22
72	Perinatal maternal dietary supplementation of B-fatty acids transiently affects bone marrow microenvironment, osteoblast and osteoclast formation, and bone mass in male offspring. <i>Endocrinology</i> , 2012 , 153, 2455-65	4.8	21
71	Maternal undernutrition alters fat cell size distribution, but not lipogenic gene expression, in the visceral fat of the late gestation guinea pig fetus. <i>Placenta</i> , 2010 , 31, 902-9	3.4	21

70	The impact of maternal obesity on human milk macronutrient composition: A systematic review and meta-analysis. <i>Nutrients</i> , 2020 , 12,	6.7	20
69	Nutritional approaches to breaking the intergenerational cycle of obesity. <i>Canadian Journal of Physiology and Pharmacology</i> , 2013 , 91, 421-8	2.4	20
68	A reduced cost strategy for enriching chicken meat with omega-3 long chain polyunsaturated fatty acids using dietary flaxseed oil. <i>British Poultry Science</i> , 2017 , 58, 283-289	1.9	19
67	Effects of diets enriched in linoleic acid and its peroxidation products on brain fatty acids, oxylipins, and aldehydes in mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018 , 1863, 1206-1213	5	19
66	Birth weight and gender determine expression of adipogenic, lipogenic and adipokine genes in perirenal adipose tissue in the young adult sheep. <i>Domestic Animal Endocrinology</i> , 2008 , 35, 46-57	2.3	19
65	The human milk microbiome: who, what, when, where, why, and how?. <i>Nutrition Reviews</i> , 2021 , 79, 529-543	4.3	18
64	Gestational age and maternal status of DHA and other polyunsaturated fatty acids in pregnancy: A systematic review. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2019 , 144, 16-31	2.8	17
63	Sex and age-dependent effects of a maternal junk food diet on the mu-opioid receptor in rat offspring. <i>Behavioural Brain Research</i> , 2016 , 301, 124-31	3.4	17
62	Barramundi (<i>Lates calcarifer</i>) desaturase with $\delta/8$ dual activities. <i>Biotechnology Letters</i> , 2012 , 34, 1283-96	3.6	16
61	Iodine status of postpartum women and their infants in Australia after the introduction of mandatory iodine fortification. <i>British Journal of Nutrition</i> , 2017 , 117, 1656-1662	3.6	15
60	Development of an experimental model of maternal allergic asthma during pregnancy. <i>Journal of Physiology</i> , 2016 , 594, 1311-25	3.9	14
59	Rising maternal circulating GH during murine pregnancy suggests placental regulation. <i>Endocrine Connections</i> , 2017 , 6, 260-266	3.5	13
58	Elevated maternal linoleic acid reduces circulating leptin concentrations, cholesterol levels and male fetal survival in a rat model. <i>Journal of Physiology</i> , 2019 , 597, 3349-3361	3.9	13
57	Exposure to rosiglitazone, a PPAR- γ agonist, in late gestation reduces the abundance of factors regulating cardiac metabolism and cardiomyocyte size in the sheep fetus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 306, R429-37	3.2	13
56	Dietary alpha-linolenic acid does not enhance accumulation of omega-3 long-chain polyunsaturated fatty acids in barramundi (<i>Lates calcarifer</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2013 , 164, 29-37	2.3	13
55	Estimation of the Volume of Blood in a Small Disc Punched From a Dried Blood Spot Card. <i>European Journal of Lipid Science and Technology</i> , 2018 , 120, 1700362	3	13
54	Differential effects of late gestation maternal overnutrition on the regulation of surfactant maturation in fetal and postnatal life. <i>Journal of Physiology</i> , 2017 , 595, 6635-6652	3.9	12
53	An alternative n-3 fatty acid elongation pathway utilising 18:3n-3 in barramundi (<i>Lates calcarifer</i>). <i>Biochemical and Biophysical Research Communications</i> , 2012 , 423, 176-82	3.4	12

52	Simple HPLC method for determination of rosiglitazone in sheep plasma and amniotic fluid and its application in a pregnant sheep model. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011 , 55, 360-365	3.5	12
51	Effect of dietary ALA on growth rate, feed conversion ratio, mortality rate and breast meat omega-3 LCPUFA content in broiler chickens. <i>Animal Production Science</i> , 2016 , 56, 815	1.4	12
50	Short-term effects of fish and fish oil consumption on total and high molecular weight adiponectin levels in overweight and obese adults. <i>Metabolism: Clinical and Experimental</i> , 2013 , 62, 651-60	12.7	11
49	The Effect of Different Dietary Fats on the Fatty Acid Composition of Several Tissues in Broiler Chickens. <i>European Journal of Lipid Science and Technology</i> , 2018 , 120, 1700237	3	10
48	Comparison of breast-milk iodine concentration of lactating women in Australia pre and post mandatory iodine fortification. <i>Public Health Nutrition</i> , 2017 , 20, 12-17	3.3	9
47	A stable method for routine analysis of oxylipins from dried blood spots using ultra-high performance liquid chromatography-tandem mass spectrometry. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2018 , 137, 12-18	2.8	9
46	Effect of malting on antioxidant capacity and vitamin E content in different barley genotypes. <i>Journal of the Institute of Brewing</i> , 2015 , 121, 531-540	2	9
45	Impact of maternal overnutrition on gluconeogenic factors and methylation of the phosphoenolpyruvate carboxykinase promoter in the fetal and postnatal liver. <i>Pediatric Research</i> , 2014 , 75, 14-21	3.2	9
44	Maternal allergic asthma during pregnancy alters fetal lung and immune development in sheep: potential mechanisms for programming asthma and allergy. <i>Journal of Physiology</i> , 2019 , 597, 4251-4262	3.9	8
43	Human Milk Sampling Protocols Affect Estimation of Infant Lipid Intake. <i>Journal of Nutrition</i> , 2020 , 150, 2924-2930	4.1	8
42	A Systematic Review of Collection and Analysis of Human Milk for Macronutrient Composition. <i>Journal of Nutrition</i> , 2020 , 150, 1652-1670	4.1	7
41	The establishment of DOHaD working groups in Australia and New Zealand. <i>Journal of Developmental Origins of Health and Disease</i> , 2016 , 7, 433-439	2.4	7
40	Incorporating macadamia oil and butter to reduce dietary omega-6 polyunsaturated fatty acid intake. <i>Nutrition and Dietetics</i> , 2013 , 70, 94-100	2.5	7
39	The effect of maternal and post-weaning low and high glycaemic index diets on glucose tolerance, fat deposition and hepatic function in rat offspring. <i>Journal of Developmental Origins of Health and Disease</i> , 2016 , 7, 320-329	2.4	7
38	Reducing Pup Litter Size Alters Early Postnatal Calcium Homeostasis and Programs Adverse Adult Cardiovascular and Bone Health in Male Rats. <i>Nutrients</i> , 2019 , 11,	6.7	6
37	Does the early introduction of solids promote obesity?. <i>Singapore Medical Journal</i> , 2017 , 58, 626-631	1.9	6
36	Placental glucocorticoid receptor isoforms in a sheep model of maternal allergic asthma. <i>Placenta</i> , 2019 , 83, 33-36	3.4	6
35	When in gestation do nutritional alterations exert their effects? A focus on the early origins of adult disease. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2006 , 13, 516-522		6

34	Limited fetal metabolism of rosiglitazone: Elimination via the maternal compartment in the pregnant ewe. <i>Reproductive Toxicology</i> , 2016 , 61, 162-8	3-4	6
33	A methodological approach to identify the most reliable human milk collection method for compositional analysis: a systematic review protocol. <i>Systematic Reviews</i> , 2018 , 7, 122	3	5
32	Perspective: Moving Toward Desirable Linoleic Acid Content in Infant Formula. <i>Advances in Nutrition</i> , 2021 , 12, 2085-2098	10	5
31	Rosiglitazone Metabolism in Human Liver Microsomes Using a Substrate Depletion Method. <i>Drugs in R and D</i> , 2017 , 17, 189-198	3-4	4
30	Pregnancy, but not dietary octanoic acid supplementation, stimulates the ghrelin-pituitary growth hormone axis in mice. <i>Journal of Endocrinology</i> , 2020 , 245, 327-342	4-7	4
29	Omega-6:Omega-3 Fatty Acid Ratio and Total Fat Content of the Maternal Diet Alter Offspring Growth and Fat Deposition in the Rat. <i>Nutrients</i> , 2020 , 12,	6-7	4
28	Expression of cholesterol packaging and transport genes in human and rat placenta: impact of obesity and a high-fat diet. <i>Journal of Developmental Origins of Health and Disease</i> , 2020 , 11, 222-227	2-4	4
27	DHA supplementation in infants born preterm and the effect on attention at 18 months: corrected age: follow-up of a subset of the N3RO randomised controlled trial. <i>British Journal of Nutrition</i> , 2021 , 125, 420-431	3-6	4
26	In ovo exposure to omega-3 fatty acids does not enhance omega-3 long-chain polyunsaturated fatty acid metabolism in broiler chickens. <i>Journal of Developmental Origins of Health and Disease</i> , 2017 , 8, 520-528	2-4	3
25	Enrichment of Antioxidant Capacity and Vitamin E in Pita Made from Barley. <i>Journal of Food Science</i> , 2016 , 81, H777-85	3-4	3
24	Pregnancy, obesity and insulin resistance: maternal overnutrition and the target windows of fetal development. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2013 , 15, 25-36	1-3	3
23	Simple English in the South Seas Evangelical Mission. <i>Language Problems and Language Planning</i> , 2005 , 29, 1-30	0-6	3
22	Maternal Junk Food Diets: The Effects on Offspring Fat Mass and Food Preferences 2017 , 227-238		2
21	The effect of maternal dietary fat content and -6:-3 ratio on offspring growth and hepatic gene expression in the rat. <i>British Journal of Nutrition</i> , 2020 , 123, 1227-1238	3-6	2
20	Relationship between the fatty acid composition of uropygial gland secretion and blood of meat chickens receiving different dietary fats. <i>Animal Production Science</i> , 2018 , 58, 828	1-4	2
19	Could High-Amylose Wheat Have Greater Benefits on Diabesity and Gut Health than Standard Whole-wheat?. <i>Food Reviews International</i> , 2020 , 36, 713-725	5-5	2
18	Daily variation of macronutrient concentrations in mature human milk over 3 weeks. <i>Scientific Reports</i> , 2021 , 11, 10224	4-9	2
17	Reduction in Maternal Energy Intake during Lactation Decreased Maternal Body Weight and Concentrations of Leptin, Insulin and Adiponectin in Human Milk without Affecting Milk Production, Milk Macronutrient Composition or Infant Growth. <i>Nutrients</i> , 2021 , 13,	6-7	2

16	PPAR α activation in late gestation does not promote surfactant maturation in the fetal sheep lung. <i>Journal of Developmental Origins of Health and Disease</i> , 2021 , 1-12	2.4	2
15	Early Life Nutritional Programming of Adult Health Status. <i>Healthy Ageing and Longevity</i> , 2019 , 87-120	0.5	1
14	Sexually Dimorphic Response of Increasing Dietary Intake of High Amylose Wheat on Metabolic and Reproductive Outcomes in Male and Female Mice. <i>Nutrients</i> , 2019 , 12,	6.7	1
13	A High Amylose Wheat Diet Improves Gastrointestinal Health Parameters and Gut Microbiota in Male and Female Mice. <i>Foods</i> , 2021 , 10,	4.9	1
12	Polyunsaturated Fatty Acids: Metabolism and Nutritional Requirements in Pregnancy and Infancy 2018 , 111-134		1
11	Periconception and First Trimester Diet Modifies Appetite, Hypothalamic Gene Expression, and Carcass Traits in Bulls. <i>Frontiers in Genetics</i> , 2021 , 12, 720242	4.5	1
10	Weight Loss and Usage of an Online Commercial Weight Loss Program (the CSIRO Total Wellbeing Diet Online) Delivered in an Everyday Context: Five-Year Evaluation in a Community Cohort. <i>Journal of Medical Internet Research</i> , 2021 , 23, e20981	7.6	0
9	Fighting the intergenerational cycle of obesity with maternal exercise. <i>Journal of Physiology</i> , 2020 , 598, 4147-4148	3.9	0
8	Validation studies of a fluorescent method to measure placental glucose transport in mice. <i>Placenta</i> , 2019 , 76, 23-29	3.4	
7	Impact of maternal obesity on offspring adipose tissue: lessons for the clinic. <i>Expert Review of Endocrinology and Metabolism</i> , 2014 , 9, 615-627	4.1	
6	Fatty acids in the infant diet: size matters. <i>British Journal of Nutrition</i> , 2014 , 111, 193	3.6	
5	Fat on the brain. <i>Journal of Physiology</i> , 2012 , 590, 4121	3.9	
4	The "big picture" in obesity research. <i>Science</i> , 2003 , 300, 1091-2	33.3	
3	Prenatal Programming of the Mesolimbic Reward Pathway and Food Preferences. <i>Neuromethods</i> , 2016 , 169-188	0.4	
2	Study of barramundi (<i>Lates carcarifer</i>) delta-6 desaturase and elongase functions and activities using a yeast heterologous expression system. <i>FASEB Journal</i> , 2011 , 25, lb184	0.9	
1	Early Nutrition, Epigenetics, and Human Health 2018 , 229-250		