

Amanda J Macfarlane

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,906
citations

279778

23
h-index

276858

41
g-index

64
all docs

64
docs citations

64
times ranked

2517
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of oocyte aneuploidy associated with advanced maternal age. <i>Mutation Research - Reviews in Mutation Research</i> , 2020, 785, 108320.	5.5	144
2	Cytoplasmic Serine Hydroxymethyltransferase Regulates the Metabolic Partitioning of Methylene-tetrahydrofolate but Is Not Essential in Mice. <i>Journal of Biological Chemistry</i> , 2008, 283, 25846-25853.	3.4	125
3	Vitamin B-12 and homocysteine status in a folate-replete population: results from the Canadian Health Measures Survey. <i>American Journal of Clinical Nutrition</i> , 2011, 94, 1079-1087.	4.7	110
4	Intergenerational impact of paternal lifetime exposures to both folic acid deficiency and supplementation on reproductive outcomes and imprinted gene methylation. <i>Molecular Human Reproduction</i> , 2017, 23, 461-477.	2.8	102
5	Knowledge gaps in understanding the metabolic and clinical effects of excess folates/folic acid: a summary, and perspectives, from an NIH workshop. <i>American Journal of Clinical Nutrition</i> , 2020, 112, 1390-1403.	4.7	95
6	Options for basing Dietary Reference Intakes (DRIs) on chronic disease endpoints: report from a joint US-/Canadian-sponsored working group. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 249S-285S.	4.7	89
7	High-dose folic acid supplementation alters the human sperm methylome and is influenced by the <i>MTHFR</i> C677T polymorphism. <i>Human Molecular Genetics</i> , 2015, 24, 6301-6313.	2.9	86
8	A Type 1 Diabetes-related Protein from Wheat (<i>Triticum aestivum</i>). <i>Journal of Biological Chemistry</i> , 2003, 278, 54-63.	3.4	74
9	Epigenetics: deciphering how environmental factors may modify autoimmune type 1 diabetes. <i>Mammalian Genome</i> , 2009, 20, 624-632.	2.2	71
10	<i>Mthfd1</i> Is an Essential Gene in Mice and Alters Biomarkers of Impaired One-carbon Metabolism. <i>Journal of Biological Chemistry</i> , 2009, 284, 1533-1539.	3.4	67
11	Gestational Exposures to Phthalates and Folic Acid, and Autistic Traits in Canadian Children. <i>Environmental Health Perspectives</i> , 2020, 128, 27004.	6.0	64
12	Nuclear Localization of de Novo Thymidylate Biosynthesis Pathway Is Required to Prevent Uracil Accumulation in DNA. <i>Journal of Biological Chemistry</i> , 2011, 286, 44015-44022.	3.4	60
13	Total folate and unmetabolized folic acid in the breast milk of a cross-section of Canadian women. <i>American Journal of Clinical Nutrition</i> , 2017, 105, 1101-1109.	4.7	55
14	B-vitamin and choline supplementation increases neuroplasticity and recovery after stroke. <i>Neurobiology of Disease</i> , 2017, 103, 89-100.	4.4	54
15	<i>Shmt1</i> Heterozygosity Impairs Folate-Dependent Thymidylate Synthesis Capacity and Modifies Risk of <i>Apcmn</i> -Mediated Intestinal Cancer Risk. <i>Cancer Research</i> , 2011, 71, 2098-2107.	0.9	50
16	Genetic modifiers of folate, vitamin B-12, and homocysteine status in a cross-sectional study of the Canadian population. <i>American Journal of Clinical Nutrition</i> , 2015, 101, 1295-1304.	4.7	45
17	Periconceptual intake of folic acid among low-risk women in Canada: summary of a workshop aiming to align prenatal folic acid supplement composition with current expert guidelines. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 1357-1368.	4.7	44
18	Investigating the effects of dietary folic acid on sperm count, DNA damage and mutation in Balb/c mice. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 737, 1-7.	1.0	42

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19	Moderate maternal folic acid supplementation ameliorates adverse embryonic and epigenetic outcomes associated with assisted reproduction in a mouse model. <i>Human Reproduction</i> , 2019, 34, 851-862.	0.9	35
20	Formate metabolism in fetal and neonatal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E921-E927.	3.5	32
21	Effect of folic acid on human trophoblast health and function in vitro. <i>Placenta</i> , 2016, 37, 7-15.	1.5	30
22	The role of maternal homocysteine concentration in placenta-mediated complications: findings from the Ottawa and Kingston birth cohort. <i>BMC Pregnancy and Childbirth</i> , 2019, 19, 75.	2.4	30
23	In Vivo Kinetics of Formate Metabolism in Folate-deficient and Folate-replete Rats. <i>Journal of Biological Chemistry</i> , 2015, 290, 2244-2250.	3.4	26
24	Association of maternal risk factors with the recent rise of neural tube defects in Canada. <i>Paediatric and Perinatal Epidemiology</i> , 2019, 33, 145-153.	1.7	26
25	Dietary folate does not significantly affect the intestinal microbiome, inflammation or tumorigenesis in azoxymethane-dextran sodium sulphate-treated mice. <i>British Journal of Nutrition</i> , 2013, 109, 630-638.	2.3	25
26	A genetic deficiency in folic acid metabolism impairs recovery after ischemic stroke. <i>Experimental Neurology</i> , 2018, 309, 14-22.	4.1	25
27	Mthfd1 is a modifier of chemically induced intestinal carcinogenesis. <i>Carcinogenesis</i> , 2011, 32, 427-433.	2.8	24
28	A report of activities related to the Dietary Reference Intakes from the Joint Canada-US Dietary Reference Intakes Working Group. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 251-259.	4.7	20
29	Heme Oxygenase-1 Induction Prevents Autoimmune Diabetes in Association With Pancreatic Recruitment of M2-Like Macrophages, Mesenchymal Cells, and Fibrocytes. <i>Endocrinology</i> , 2015, 156, 3937-3949.	2.8	19
30	Prenatal Exposure to Environmentally-Relevant Contaminants Perturbs Male Reproductive Parameters Across Multiple Generations that are Partially Protected by Folic Acid Supplementation. <i>Scientific Reports</i> , 2019, 9, 13829.	3.3	19
31	Impact of high-dose folic acid supplementation in pregnancy on biomarkers of folate status and 1-carbon metabolism: An ancillary study of the Folic Acid Clinical Trial (FACT). <i>American Journal of Clinical Nutrition</i> , 2021, 113, 1361-1371.	4.7	19
32	Supplemental Dietary Folic Acid Has No Effect on Chromosome Damage in Erythrocyte Progenitor Cells of Mice. <i>Journal of Nutrition</i> , 2012, 142, 813-817.	2.9	17
33	Serum and red-blood-cell folate demonstrate differential associations with BMI in pregnant women. <i>Public Health Nutrition</i> , 2016, 19, 2572-2579.	2.2	17
34	Socio-demographic and lifestyle factors associated with folate status among non-supplement-consuming Canadian women of childbearing age. <i>Canadian Journal of Public Health</i> , 2014, 105, e166-e171.	2.3	13
35	Dietary folic acid protects against genotoxicity in the red blood cells of mice. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 779, 105-111.	1.0	13
36	The MTHFR 677C>T polymorphism is associated with unmetabolized folic acid in breast milk in a cohort of Canadian women. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 401-409.	4.7	13

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37	A guide for authors and readers of the American Society for Nutrition Journals on the proper use of P values and strategies that promote transparency and improve research reproducibility. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1280-1285.	4.7	13
38	Folate deficiency increases chromosomal damage and mutations in hematopoietic cells in the transgenic mutamouse model. <i>Environmental and Molecular Mutagenesis</i> , 2018, 59, 366-374.	2.2	12
39	High-Dose Compared with Low-Dose Vitamin B-12 Supplement Use Is Not Associated with Higher Vitamin B-12 Status in Children, Adolescents, and Older Adults. <i>Journal of Nutrition</i> , 2014, 144, 915-920.	2.9	11
40	Prevalence rates of spina bifida in Alberta, Canada: 2001–2015. Can we achieve more prevention?. <i>Birth Defects Research</i> , 2019, 111, 151-158.	1.5	10
41	Who should consume high-dose folic acid supplements before and during early pregnancy for the prevention of neural tube defects?. <i>BMJ, The</i> , 0, , e067728.	6.0	10
42	NUQUEST—Nutrition Quality Evaluation Strengthening Tools: development of tools for the evaluation of risk of bias in nutrition studies. <i>American Journal of Clinical Nutrition</i> , 2022, 115, 256-271.	4.7	9
43	Approaches for the Identification of Genetic Modifiers of Nutrient Dependent Phenotypes: Examples from Folate. <i>Frontiers in Nutrition</i> , 2014, 1, 8.	3.7	7
44	Murine MTHFD1—synthetase deficiency, a model for the human MTHFD1 R653Q polymorphism, decreases growth of colorectal tumors. <i>Molecular Carcinogenesis</i> , 2017, 56, 1030-1040.	2.7	7
45	Gestational Folate and Folic Acid Intake among Women in Canada at Higher Risk of Pre-Eclampsia. <i>Journal of Nutrition</i> , 2021, 151, 1976-1982.	2.9	7
46	Modeling Demonstrates That Folic Acid Fortification of Whole-Wheat Flour Could Reduce the Prevalence of Folate Inadequacy in Canadian Whole-Wheat Consumers. <i>Journal of Nutrition</i> , 2015, 145, 2622-2629.	2.9	6
47	Dietary Reference Intakes based on chronic disease endpoints: outcomes from a case study workshop for omega 3—EPA and DHA. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 530-539.	1.9	6
48	Bringing clarity to the role of MTHFR variants in neural tube defect prevention. <i>American Journal of Clinical Nutrition</i> , 2015, 101, 1111-1112.	4.7	5
49	The determinants of maternal homocysteine in pregnancy: findings from the Ottawa and Kingston Birth Cohort. <i>Public Health Nutrition</i> , 2020, 23, 3170-3180.	2.2	5
50	The elephant in the room: using nutritional biomarker cutoffs to assess status. <i>American Journal of Clinical Nutrition</i> , 2016, 104, 1493-1494.	4.7	3
51	Relationships between maternal body mass index and child cognitive outcomes at 3 years of age are buffered by specific early environments in a prospective Canadian birth cohort. <i>Journal of Developmental Origins of Health and Disease</i> , 2023, 14, 42-52.	1.4	3
52	Maternal folic acid supplementation does not counteract the deleterious impact of prenatal exposure to environmental pollutants on lipid homeostasis in male rat descendants. <i>Journal of Developmental Origins of Health and Disease</i> , 2020, 11, 427-437.	1.4	2
53	Folate Intake Alters Mutation Frequency and Profiles in a Tissue- and Dose-Specific Manner in MutaMouse Male Mice. <i>Journal of Nutrition</i> , 2021, 151, 800-809.	2.9	2
54	Hyperhomocysteinemia in patients with cardiovascular manifestations: to treat or not to treat. <i>American Journal of Clinical Nutrition</i> , 2021, 113, 1081-1082.	4.7	2

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55	Mild Choline Deficiency and MTHFD1 Synthetase Deficiency Interact to Increase Incidence of Developmental Delays and Defects in Mice. <i>Nutrients</i> , 2022, 14, 127.	4.1	2
56	Finding the right evidence: The role of evidence scans in the review of DRIs. <i>Journal of Nutrition</i> , 2022, 152, 1819-1822.	2.9	2
57	Poor Reporting Quality in Basic Nutrition Research: A Case Study Based on a Scoping Review of Recent Folate Research in Mouse Models (2009-2021). <i>Advances in Nutrition</i> , 0, , .	6.4	1
58	Prenatal Exposure to Persistent Organic Pollutants and Maternal Folic Acid Supplementation: Their Impact on Glucose Homeostasis in Male Rat Descendants. <i>Environments - MDPI</i> , 2021, 8, 24.	3.3	0
59	OUP accepted manuscript. <i>American Journal of Clinical Nutrition</i> , 2022, 115, 598-600.	4.7	0
60	A New Chapter for the American Society for Nutrition's Journal Portfolio. <i>Current Developments in Nutrition</i> , 2022, 6, nza126.	0.3	0
61	A New Chapter for the American Society for Nutrition's Journal Portfolio. <i>Advances in Nutrition</i> , 2022, , .	6.4	0
62	A New Chapter for the American Society for Nutrition's Journal Portfolio. <i>American Journal of Clinical Nutrition</i> , 2022, 115, 1239-1240.	4.7	0
63	A New Chapter for the American Society for Nutrition's Journal Portfolio. <i>Journal of Nutrition</i> , 2022, , .	2.9	0