Margaret Brosnan

List of Publications by Year
in descending order

42 papers	1,450 citations	430754 18 h-index	414303 32 g-index
43 all docs	43 docs citations	43 times ranked	2114 citing authors

#	Article	IF	Citations
1	Reduced Shmt2 Expression Impairs Mitochondrial Folate Accumulation and Respiration, and Leads to Uracil Accumulation in Mouse Mitochondrial DNA. Journal of Nutrition, 2021, 151, 2882-2893.	1.3	8
2	Oncogenic Ras expression increases cellular formate production. Amino Acids, 2021, 53, 1589-1595.	1.2	5
3	Plasma Formate Is Greater in Fetal and Neonatal Rats Compared with Their Mothers. Journal of Nutrition, 2020, 150, 1068-1075.	1.3	3
4	Formate and its role in amino acid metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2020, 23, 23-28.	1.3	3
5	Histidine Metabolism and Function. Journal of Nutrition, 2020, 150, 2570S-2575S.	1.3	103
6	Formate concentrations in maternal plasma during pregnancy and in cord blood in a cohort of pregnant Canadian women: relations to genetic polymorphisms and plasma metabolites. American Journal of Clinical Nutrition, 2019, 110, 1131-1137.	2.2	10
7	Lifestyle, metabolite, and genetic determinants of formate concentrations in a cross-sectional study in young, healthy adults. American Journal of Clinical Nutrition, 2018, 107, 345-354.	2.2	5
8	The impact of common genetic variants in the mitochondrial glycine cleavage system on relevant metabolites. Molecular Genetics and Metabolism Reports, 2018, 16, 20-22.	0.4	6
9	Riboflavin Deficiency in Rats Decreases de novo Formate Production but Does Not Affect Plasma Formate Concentration. Journal of Nutrition, 2017, 147, 346-352.	1.3	6
10	Physiological levels of formate activate mitochondrial superoxide/hydrogen peroxide release from mouse liver mitochondria. FEBS Letters, 2017, 591, 2426-2438.	1.3	17
11	Formate supplementation enhances folate-dependent nucleotide biosynthesis and prevents spina bifida in a mouse model of folic acid-resistant neural tube defects. Biochimie, 2016, 126, 63-70.	1.3	23
12	Formate: The Neglected Member of One-Carbon Metabolism. Annual Review of Nutrition, 2016, 36, 369-388.	4.3	78
13	The role of dietary creatine. Amino Acids, 2016, 48, 1785-1791.	1.2	99
14	Creatine supplementation as a possible new therapeutic approach for fatty liver disease: early findings. Amino Acids, 2016, 48, 1983-1991.	1.2	22
15	Division of labour: how does folate metabolism partition between one-carbon metabolism and amino acid oxidation?. Biochemical Journal, 2015, 472, 135-146.	1.7	78
16	In Vivo Kinetics of Formate Metabolism in Folate-deficient and Folate-replete Rats. Journal of Biological Chemistry, 2015, 290, 2244-2250.	1.6	26
17	Glycine decarboxylase deficiency causes neural tube defects and features of non-ketotic hyperglycinemia in mice. Nature Communications, 2015, 6, 6388.	5.8	116
18	Formate metabolism in fetal and neonatal sheep. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E921-E927.	1.8	32

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19	Nuclear Enrichment of Folate Cofactors and Methylenetetrahydrofolate Dehydrogenase 1 (MTHFD1) Protect de Novo Thymidylate Biosynthesis during Folate Deficiency. Journal of Biological Chemistry, 2014, 289, 29642-29650.	1.6	62
20	Synthesis of guanidinoacetate and creatine from amino acids by rat pancreas. British Journal of Nutrition, 2014, 111, 571-577.	1.2	44
21	An isotope-dilution, GCâ€“MS assay for formate and its application to human and animal metabolism. Amino Acids, 2014, 46, 1885-1891.	1.2	47
22	Formate metabolism in the folateâ€deficient rat. FASEB Journal, 2012, 26, .	0.2	0
23	Creatine synthesis: the origin of creatine in rat milk. FASEB Journal, 2010, 24, 556.18.	0.2	0
24	Hepatic glutamate metabolism: a tale of 2 hepatocytes. American Journal of Clinical Nutrition, 2009, 90, 857S-861S.	2.2	156
25	The effect of methyl acceptors on betaine metabolism and the fate of betaineâ€derived methyl groups in rat hepatocytes. FASEB Journal, 2008, 22, 613.3.	0.2	0
26	Orotic Acid Excretion and Arginine Metabolism. Journal of Nutrition, 2007, 137, 1656S-1661S.	1.3	59
27	New insights into creatine function and synthesis. Advances in Enzyme Regulation, 2007, 47, 252-260.	2.9	29
28	Hepatic Creatine Synthesis in the Rat. FASEB Journal, 2007, 21, A1324.	0.2	0
29	Simultaneous determination of the reduction of NAD + and NADP + by glutamate dehydrogenase supports preferential utilization of NAD + in glutamate oxidation. FASEB Journal, 2007, 21, A664.	0.2	0
30	Creatine synthesis in isolated hepatocytes. FASEB Journal, 2006, 20, A97.	0.2	0
31	Homocysteine Metabolism in ZDF, Type 2 Diabetic rats: Effects of Rosiglitazone. FASEB Journal, 2006, 20, A97.	0.2	0
32	Creatine synthesis in piglets. FASEB Journal, 2006, 20, A97.	0.2	0
33	Renal Arginine Metabolism. Journal of Nutrition, 2004, 134, 2791S-2795S.	1.3	114
34	Methylation demand and homocysteine metabolism: effects of dietary provision of creatine and guanidinoacetate. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E1095-E1100.	1.8	149
35	Characterization of homocysteine metabolism in the rat liver. Biochemical Journal, 2000, 350, 685-692.	1.7	91
36	Regulation of Hepatic Glutaminase in the Streptozotocin-Induced Diabetic Rat. Diabetes, 1997, 46, 1945-1949.	0.3	13

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37	How Does the Kidney Handle Plasma Polyamines?. , 1997, 121, 129-135.		2
38	Catabolism of arginine and ornithine in perfused rat liver; localisation and regulation. Biochemical Society Transactions, 1996, 24, 488S-488S.	1.6	2
39	How does the kidney deal with plasma polyamines?. Biochemical Society Transactions, 1995, 23, 469S-469S.	1.6	0
40	Interorgan metabolism of valine. Amino Acids, 1991, 1, 29-35.	1.2	11
41	Polyamine and amino acid content, and activity of polyamine-synthesizing decarboxylases, in liver of streptozotocin-induced diabetic and insulin-treated diabetic rats. Biochemical Journal, 1980, 190, 395-403.	3.2	17
42	Subcellular localization of putrescine-dependentS-adenosyl methionine decarboxylase in rat liver. FEBS Letters, 1977, 84, 385-387.	1.3	11