

# Martha S Field

## List of Publications by Year in Descending Order

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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.

43 papers	848 citations	18 h-index	28 g-index
49 ext. papers	1,152 ext. citations	6.2 avg, IF	4.67 L-index

#	Paper	IF	Citations
43	Chronic Dietary Erythritol Exposure Elevates Plasma Erythritol Concentration in Mice but Does Not Cause Weight Gain or Modify Glucose Homeostasis. <i>Journal of Nutrition</i> , <b>2021</b> , 151, 2114-2124	4.1	3
42	Extracellular serine and glycine are required for mouse and human skeletal muscle stem and progenitor cell function. <i>Molecular Metabolism</i> , <b>2021</b> , 43, 101106	8.8	10
41	Pyruvate Kinase M2 Supports Muscle Progenitor Cell Proliferation but Is Dispensable for Skeletal Muscle Regeneration after Injury. <i>Journal of Nutrition</i> , <b>2021</b> , 151, 3313-3328	4.1	1
40	Reduced Shmt2 Expression Impairs Mitochondrial Folate Accumulation and Respiration, and Leads to Uracil Accumulation in Mouse Mitochondrial DNA. <i>Journal of Nutrition</i> , <b>2021</b> , 151, 2882-2893	4.1	0
39	Emerging Concepts in Nutrient Needs. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 2593S-2601S	4.1	2
38	p53 Disruption Increases Uracil Accumulation in DNA of Murine Embryonic Fibroblasts and Leads to Folic Acid-Nonresponsive Neural Tube Defects in Mice. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 1705-1712	4.1	4
37	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> , <b>2020</b> , 112, 1390-1403	7	27
36	The Roles of Mitochondrial Folate Metabolism in Supporting Mitochondrial DNA Synthesis, Oxidative Phosphorylation, and Cellular Function. <i>Current Developments in Nutrition</i> , <b>2020</b> , 4, nzaa153	0.4	8
35	Mammalian metabolism of erythritol: a predictive biomarker of metabolic dysfunction. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2020</b> , 23, 296-301	3.8	3
34	Unexpected roles for ADH1 and SORD in catalyzing the final step of erythritol biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 16095-16108	5.4	3
33	The Role of Brain Barriers in Maintaining Brain Vitamin Levels. <i>Annual Review of Nutrition</i> , <b>2019</b> , 39, 147-173	4.3	4
32	Deoxyuracil in DNA and disease: Genomic signal or managed situation?. <i>DNA Repair</i> , <b>2019</b> , 77, 36-44	4.3	8
31	The 5-formyltetrahydrofolate futile cycle reduces pathway stochasticity in an extended hybrid-stochastic model of folate-mediated one-carbon metabolism. <i>Scientific Reports</i> , <b>2019</b> , 9, 4322	4.9	7
30	Best practices in nutrition science to earn and keep the public's trust. <i>American Journal of Clinical Nutrition</i> , <b>2019</b> , 109, 225-243	7	29
29	Dietary Uridine Decreases Tumorigenesis in the Model of Intestinal Cancer. <i>Current Developments in Nutrition</i> , <b>2018</b> , 2, nzy013	0.4	3
28	Nuclear Folate Metabolism. <i>Annual Review of Nutrition</i> , <b>2018</b> , 38, 219-243	9.9	27
27	Cell cycle regulation of folate-mediated one-carbon metabolism. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2018</b> , 10, e1426	6.6	34

26	Safety of folic acid. <i>Annals of the New York Academy of Sciences</i> , <b>2018</b> , 1414, 59-71	6.5	52
25	The mitochondrial inner membrane protein MPV17 prevents uracil accumulation in mitochondrial DNA. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 20285-20294	5.4	18
24	Alcohol Dehydrogenase 5 Is a Source of Formate for De Novo Purine Biosynthesis in HepG2 Cells. <i>Journal of Nutrition</i> , <b>2017</b> , 147, 499-505	4.1	3
23	Arsenic trioxide targets MTHFD1 and SUMO-dependent nuclear de novo thymidylate biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2319-E2326	11.5	25
22	Folate nutrition and blood-brain barrier dysfunction. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 44, 146-152	11.4	24
21	Folate rescues vitamin B depletion-induced inhibition of nuclear thymidylate biosynthesis and genome instability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E4095-E4102	11.5	24
20	A hybrid stochastic model of folate-mediated one-carbon metabolism: Effect of the common C677T MTHFR variant on de novo thymidylate biosynthesis. <i>Scientific Reports</i> , <b>2017</b> , 7, 797	4.9	18
19	Targeting nuclear thymidylate biosynthesis. <i>Molecular Aspects of Medicine</i> , <b>2017</b> , 53, 48-56	16.7	24
18	Time to Think About Nutrient Needs in Chronic Disease. <i>JAMA Internal Medicine</i> , <b>2016</b> , 176, 1451-1452	11.5	3
17	Thymidylate Synthesis <b>2016</b> , 1-7		
16	MTHFD1 regulates nuclear de novo thymidylate biosynthesis and genome stability. <i>Biochimie</i> , <b>2016</b> , 126, 27-30	4.6	19
15	Dietary folic acid protects against genotoxicity in the red blood cells of mice. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2015</b> , 779, 105-11	3.3	10
14	Maternal dietary uridine causes, and deoxyuridine prevents, neural tube closure defects in a mouse model of folate-responsive neural tube defects. <i>American Journal of Clinical Nutrition</i> , <b>2015</b> , 101, 860-9	7	23
13	Bringing clarity to the role of MTHFR variants in neural tube defect prevention. <i>American Journal of Clinical Nutrition</i> , <b>2015</b> , 101, 1111-2	7	3
12	New insights into the metabolic and nutritional determinants of severe combined immunodeficiency. <i>Rare Diseases (Austin, Tex)</i> , <b>2015</b> , 3, e1112479		9
11	Vitamin B-6. <i>Advances in Nutrition</i> , <b>2015</b> , 6, 132-3	10	45
10	Human mutations in methylenetetrahydrofolate dehydrogenase 1 impair nuclear de novo thymidylate biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 400-5	11.5	48
9	Nuclear enrichment of folate cofactors and methylenetetrahydrofolate dehydrogenase 1 (MTHFD1) protect de novo thymidylate biosynthesis during folate deficiency. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 29642-50	5.4	53

8	Reduced MTHFD1 activity in male mice perturbs folate- and choline-dependent one-carbon metabolism as well as transsulfuration. <i>Journal of Nutrition</i> , <b>2013</b> , 143, 41-5	4.1	17
7	Disruption of shmt1 impairs hippocampal neurogenesis and mnemonic function in mice. <i>Journal of Nutrition</i> , <b>2013</b> , 143, 1028-35	4.1	10
6	Mthfs is an Essential Gene in Mice and a Component of the Purinosome. <i>Frontiers in Genetics</i> , <b>2011</b> , 2, 36	4.5	30
5	Trafficking of intracellular folates. <i>Advances in Nutrition</i> , <b>2011</b> , 2, 325-31	10	79
4	5,10-Methenyltetrahydrofolate synthetase activity is increased in tumors and modifies the efficacy of antipurine LY309887. <i>Archives of Biochemistry and Biophysics</i> , <b>2009</b> , 481, 145-50	4.1	12
3	Inhibition of 5,10-methenyltetrahydrofolate synthetase. <i>Archives of Biochemistry and Biophysics</i> , <b>2007</b> , 458, 194-201	4.1	14
2	Regulation of folate-mediated one-carbon metabolism by 10-formyltetrahydrofolate dehydrogenase. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 18335-42	5.4	71
1	Regulation of de novo purine biosynthesis by methenyltetrahydrofolate synthetase in neuroblastoma. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 4215-21	5.4	41