

Martha S Field

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.

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|-------------------|-------------------------|----------------|-----------------|
| 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 | Trafficking of intracellular folates. <i>Advances in Nutrition</i> , 2011 , 2, 325-31 | 10 | 79 |
| 42 | Regulation of folate-mediated one-carbon metabolism by 10-formyltetrahydrofolate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 18335-42 | 5.4 | 71 |
| 41 | Nuclear enrichment of folate cofactors and methylenetetrahydrofolate dehydrogenase 1 (MTHFD1) protect de novo thymidylate biosynthesis during folate deficiency. <i>Journal of Biological Chemistry</i> , 2014 , 289, 29642-50 | 5.4 | 53 |
| 40 | Safety of folic acid. <i>Annals of the New York Academy of Sciences</i> , 2018 , 1414, 59-71 | 6.5 | 52 |
| 39 | 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> , 2015 , 112, 400-5 | 11.5 | 48 |
| 38 | Vitamin B-6. <i>Advances in Nutrition</i> , 2015 , 6, 132-3 | 10 | 45 |
| 37 | Regulation of de novo purine biosynthesis by methenyltetrahydrofolate synthetase in neuroblastoma. <i>Journal of Biological Chemistry</i> , 2006 , 281, 4215-21 | 5.4 | 41 |
| 36 | Cell cycle regulation of folate-mediated one-carbon metabolism. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2018 , 10, e1426 | 6.6 | 34 |
| 35 | Mthfs is an Essential Gene in Mice and a Component of the Purinosome. <i>Frontiers in Genetics</i> , 2011 , 2, 36 | 4.5 | 30 |
| 34 | Best practices in nutrition science to earn and keep the public's trust. <i>American Journal of Clinical Nutrition</i> , 2019 , 109, 225-243 | 7 | 29 |
| 33 | Nuclear Folate Metabolism. <i>Annual Review of Nutrition</i> , 2018 , 38, 219-243 | 9.9 | 27 |
| 32 | 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 | 7 | 27 |
| 31 | 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> , 2017 , 114, E2319-E2326 | 11.5 | 25 |
| 30 | Folate nutrition and blood-brain barrier dysfunction. <i>Current Opinion in Biotechnology</i> , 2017 , 44, 146-152 | 11.4 | 24 |
| 29 | 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> , 2017 , 114, E4095-E4102 | 11.5 | 24 |
| 28 | Targeting nuclear thymidylate biosynthesis. <i>Molecular Aspects of Medicine</i> , 2017 , 53, 48-56 | 16.7 | 24 |
| 27 | 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> , 2015 , 101, 860-9 | 7 | 23 |

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| 26 | MTHFD1 regulates nuclear de novo thymidylate biosynthesis and genome stability. <i>Biochimie</i> , 2016 , 126, 27-30 | 4.6 | 19 |
| 25 | 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> , 2017 , 7, 797 | 4.9 | 18 |
| 24 | The mitochondrial inner membrane protein MPV17 prevents uracil accumulation in mitochondrial DNA. <i>Journal of Biological Chemistry</i> , 2018 , 293, 20285-20294 | 5.4 | 18 |
| 23 | Reduced MTHFD1 activity in male mice perturbs folate- and choline-dependent one-carbon metabolism as well as transsulfuration. <i>Journal of Nutrition</i> , 2013 , 143, 41-5 | 4.1 | 17 |
| 22 | Inhibition of 5,10-methenyltetrahydrofolate synthetase. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 458, 194-201 | 4.1 | 14 |
| 21 | 5,10-Methenyltetrahydrofolate synthetase activity is increased in tumors and modifies the efficacy of antipurine LY309887. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 481, 145-50 | 4.1 | 12 |
| 20 | 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, 105-11 | 3.3 | 10 |
| 19 | Disruption of shmt1 impairs hippocampal neurogenesis and mnemonic function in mice. <i>Journal of Nutrition</i> , 2013 , 143, 1028-35 | 4.1 | 10 |
| 18 | Extracellular serine and glycine are required for mouse and human skeletal muscle stem and progenitor cell function. <i>Molecular Metabolism</i> , 2021 , 43, 101106 | 8.8 | 10 |
| 17 | New insights into the metabolic and nutritional determinants of severe combined immunodeficiency. <i>Rare Diseases (Austin, Tex.)</i> , 2015 , 3, e1112479 | | 9 |
| 16 | Deoxyuracil in DNA and disease: Genomic signal or managed situation?. <i>DNA Repair</i> , 2019 , 77, 36-44 | 4.3 | 8 |
| 15 | The Roles of Mitochondrial Folate Metabolism in Supporting Mitochondrial DNA Synthesis, Oxidative Phosphorylation, and Cellular Function. <i>Current Developments in Nutrition</i> , 2020 , 4, nzaa153 | 0.4 | 8 |
| 14 | The 5-formyltetrahydrofolate futile cycle reduces pathway stochasticity in an extended hybrid-stochastic model of folate-mediated one-carbon metabolism. <i>Scientific Reports</i> , 2019 , 9, 4322 | 4.9 | 7 |
| 13 | The Role of Brain Barriers in Maintaining Brain Vitamin Levels. <i>Annual Review of Nutrition</i> , 2019 , 39, 147-173 | 4.3 | 4 |
| 12 | 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> , 2020 , 150, 1705-1712 | 4.1 | 4 |
| 11 | Alcohol Dehydrogenase 5 Is a Source of Formate for De Novo Purine Biosynthesis in HepG2 Cells. <i>Journal of Nutrition</i> , 2017 , 147, 499-505 | 4.1 | 3 |
| 10 | Unexpected roles for ADH1 and SORD in catalyzing the final step of erythritol biosynthesis. <i>Journal of Biological Chemistry</i> , 2019 , 294, 16095-16108 | 5.4 | 3 |
| 9 | Bringing clarity to the role of MTHFR variants in neural tube defect prevention. <i>American Journal of Clinical Nutrition</i> , 2015 , 101, 1111-2 | 7 | 3 |

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| 8 | Dietary Uridine Decreases Tumorigenesis in the Model of Intestinal Cancer. <i>Current Developments in Nutrition</i> , 2018 , 2, nzy013 | 0.4 | 3 |
| 7 | Time to Think About Nutrient Needs in Chronic Disease. <i>JAMA Internal Medicine</i> , 2016 , 176, 1451-1452 | 11.5 | 3 |
| 6 | Mammalian metabolism of erythritol: a predictive biomarker of metabolic dysfunction. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2020 , 23, 296-301 | 3.8 | 3 |
| 5 | 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> , 2021 , 151, 2114-2124 | 4.1 | 3 |
| 4 | Emerging Concepts in Nutrient Needs. <i>Journal of Nutrition</i> , 2020 , 150, 2593S-2601S | 4.1 | 2 |
| 3 | Pyruvate Kinase M2 Supports Muscle Progenitor Cell Proliferation but Is Dispensable for Skeletal Muscle Regeneration after Injury. <i>Journal of Nutrition</i> , 2021 , 151, 3313-3328 | 4.1 | 1 |
| 2 | Reduced Shmt2 Expression Impairs Mitochondrial Folate Accumulation and Respiration, and Leads to Uracil Accumulation in Mouse Mitochondrial DNA. <i>Journal of Nutrition</i> , 2021 , 151, 2882-2893 | 4.1 | 0 |
| 1 | Thymidylate Synthesis 2016 , 1-7 | | |