

Patrick J Stover

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.

124 papers	5,443 citations	42 h-index	70 g-index
126 ext. papers	6,277 ext. citations	6.1 avg, IF	6.09 L-index

#	Paper	IF	Citations
124	Dual RN-RDN program: Training for the future of health and nutrition.. <i>Clinical Nutrition ESPEN</i> , 2022 , 47, 288-292	1.3	
123	Provision of folic acid for reducing arsenic toxicity in arsenic-exposed children and adults. <i>The Cochrane Library</i> , 2021 , 10, CD012649	5.2	2
122	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
121	Emerging Concepts in Nutrient Needs. <i>Journal of Nutrition</i> , 2020 , 150, 2593S-2601S	4.1	2
120	Deoxyuracil in DNA in health and disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2020 , 23, 247-252	3.8	2
119	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
118	More Nutrition Precision, Better Decisions for the Health of Our Nation. <i>Journal of Nutrition</i> , 2020 , 150, 3058-3060	4.1	4
117	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
116	Strengthening national nutrition research: rationale and options for a new coordinated federal research effort and authority. <i>American Journal of Clinical Nutrition</i> , 2020 , 112, 721-769	7	12
115	The Role of Brain Barriers in Maintaining Brain Vitamin Levels. <i>Annual Review of Nutrition</i> , 2019 , 39, 147-173	4.3	4
114	Deoxyuracil in DNA and disease: Genomic signal or managed situation?. <i>DNA Repair</i> , 2019 , 77, 36-44	4.3	8
113	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
112	Unprocessed Red Meat and Processed Meat Consumption: Dietary Guideline Recommendations From the Nutritional Recommendations (NutriRECS) Consortium. <i>Annals of Internal Medicine</i> , 2019 , 171, 756-764	8	112
111	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
110	Dietary Uridine Decreases Tumorigenesis in the Model of Intestinal Cancer. <i>Current Developments in Nutrition</i> , 2018 , 2, nzy013	0.4	3
109	Emerging concepts on the role of epigenetics in the relationships between nutrition and health. <i>Journal of Internal Medicine</i> , 2018 , 284, 37-49	10.8	26
108	Nuclear Folate Metabolism. <i>Annual Review of Nutrition</i> , 2018 , 38, 219-243	9.9	27

107	Cell cycle regulation of folate-mediated one-carbon metabolism. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2018 , 10, e1426	6.6	34
106	Safety of folic acid. <i>Annals of the New York Academy of Sciences</i> , 2018 , 1414, 59-71	6.5	52
105	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
104	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
103	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
102	Folate nutrition and blood-brain barrier dysfunction. <i>Current Opinion in Biotechnology</i> , 2017 , 44, 146-152	11.4	24
101	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
100	Provision of folic acid for reducing arsenic toxicity in arsenic-exposed children and adults. <i>The Cochrane Library</i> , 2017 ,	5.2	5
99	Astronaut ophthalmic syndrome. <i>FASEB Journal</i> , 2017 , 31, 3746-3756	0.9	30
98	Nutrigenomics analyses 2017 , 290-317		
97	Genetic or nutritional disturbances in folate-related pathways and epigenetic interactions 2017 , 19-41		
96	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
95	Targeting nuclear thymidylate biosynthesis. <i>Molecular Aspects of Medicine</i> , 2017 , 53, 48-56	16.7	24
94	The Roles of SUMO in Metabolic Regulation. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 963, 143-168	3.6	7
93	Thymidylate Synthesis 2016 , 1-7		
92	MTHFD1 regulates nuclear de novo thymidylate biosynthesis and genome stability. <i>Biochimie</i> , 2016 , 126, 27-30	4.6	19
91	Biomarkers of Nutrition for Development-Folate Review. <i>Journal of Nutrition</i> , 2015 , 145, 1636S-1680S	4.1	245
90	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

89	Food systems: Healthy diet sustains the environment too. <i>Nature</i> , 2015 , 522, 287	50.4	3
88	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
87	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
86	Vitamin B-12 and Perinatal Health. <i>Advances in Nutrition</i> , 2015 , 6, 552-63	10	74
85	New insights into the metabolic and nutritional determinants of severe combined immunodeficiency. <i>Rare Diseases (Austin, Tex)</i> , 2015 , 3, e1112479		9
84	Vitamin B-6. <i>Advances in Nutrition</i> , 2015 , 6, 132-3	10	45
83	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
82	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
81	Azoxymethane-induced colon carcinogenesis in mice occurs independently of de novo thymidylate synthesis capacity. <i>Journal of Nutrition</i> , 2014 , 144, 419-24	4.1	5
80	Dietary and genetic manipulations of folate metabolism differentially affect neocortical functions in mice. <i>Neurotoxicology and Teratology</i> , 2013 , 38, 79-91	3.9	5
79	Nutrition research to affect food and a healthy life span. <i>American Journal of Clinical Nutrition</i> , 2013 , 98, 620-5	7	26
78	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
77	Disruption of shmt1 impairs hippocampal neurogenesis and mnemonic function in mice. <i>Journal of Nutrition</i> , 2013 , 143, 1028-35	4.1	10
76	Modeling cellular compartmentation in one-carbon metabolism. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013 , 5, 343-65	6.6	37
75	Role of Dihydroquinonoid Formation in Substrate Specificity of Escherichia coli Dihydrofolate Synthetase- Folylpolyglutamate Synthetase.. <i>FASEB Journal</i> , 2013 , 27, 789.15	0.9	
74	Engaging basic scientists in translational research: identifying opportunities, overcoming obstacles. <i>Journal of Translational Medicine</i> , 2012 , 10, 72	8.5	34
73	Sensitizing cancer cells: is it really all about U?. <i>Cancer Cell</i> , 2012 , 22, 3-4	24.3	6
72	Maternal Mthfd1 disruption impairs fetal growth but does not cause neural tube defects in mice. <i>American Journal of Clinical Nutrition</i> , 2012 , 95, 882-91	7	26

71	Dietary folate, but not choline, modifies neural tube defect risk in Shmt1 knockout mice. <i>American Journal of Clinical Nutrition</i> , 2012 , 95, 109-14	7	39
70	Competition between sumoylation and ubiquitination of serine hydroxymethyltransferase 1 determines its nuclear localization and its accumulation in the nucleus. <i>Journal of Biological Chemistry</i> , 2012 , 287, 4790-9	5.4	50
69	Folate network genetic variation predicts cardiovascular disease risk in non-Hispanic white males. <i>Journal of Nutrition</i> , 2012 , 142, 1272-9	4.1	9
68	Serine hydroxymethyltransferase anchors de novo thymidylate synthesis pathway to nuclear lamina for DNA synthesis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 7051-62	5.4	84
67	Polymorphisms in 1-carbon metabolism, epigenetics and folate-related pathologies. <i>Journal of Nutrigenetics and Nutrigenomics</i> , 2011 , 4, 293-305		74
66	Mthfs is an Essential Gene in Mice and a Component of the Purinosome. <i>Frontiers in Genetics</i> , 2011 , 2, 36	4.5	30
65	Folate, Vitamin B12, and Vitamin B6 2011 , 209-223		1
64	Biomarkers of folate status in NHANES: a roundtable summary. <i>American Journal of Clinical Nutrition</i> , 2011 , 94, 303S-312S	7	81
63	Biomarkers of vitamin B-12 status in NHANES: a roundtable summary. <i>American Journal of Clinical Nutrition</i> , 2011 , 94, 313S-321S	7	131
62	Shmt1 and de novo thymidylate biosynthesis underlie folate-responsive neural tube defects in mice. <i>American Journal of Clinical Nutrition</i> , 2011 , 93, 789-98	7	90
61	Identification of a de novo thymidylate biosynthesis pathway in mammalian mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15163-8	11.5	109
60	Polymorphisms in serine hydroxymethyltransferase 1 and methylenetetrahydrofolate reductase interact to increase cardiovascular disease risk in humans. <i>Journal of Nutrition</i> , 2011 , 141, 255-60	4.1	6
59	Shmt1 heterozygosity impairs folate-dependent thymidylate synthesis capacity and modifies risk of Apc(min)-mediated intestinal cancer risk. <i>Cancer Research</i> , 2011 , 71, 2098-107	10.1	38
58	Trafficking of intracellular folates. <i>Advances in Nutrition</i> , 2011 , 2, 325-31	10	79
57	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	5.4	53
56	Mthfd1 is a modifier of chemically induced intestinal carcinogenesis. <i>Carcinogenesis</i> , 2011 , 32, 427-33	4.6	22
55	PhenX: a toolkit for interdisciplinary genetics research. <i>Current Opinion in Lipidology</i> , 2010 , 21, 136-40	4.4	55
54	Vitamin B12 and older adults. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2010 , 13, 24-7	3.8	53

53	High resolution mapping and positional cloning of ENU-induced mutations in the Rw region of mouse chromosome 5. <i>BMC Genetics</i> , 2010 , 11, 106	2.6	18
52	Regulation of de novo thymidylate biosynthesis by ubiquitination. <i>FASEB Journal</i> , 2010 , 24, 892.5	0.9	
51	SHMT1 and SHMT2 are functionally redundant in nuclear de novo thymidylate biosynthesis. <i>PLoS ONE</i> , 2009 , 4, e5839	3.7	126
50	One-carbon metabolism-genome interactions in folate-associated pathologies. <i>Journal of Nutrition</i> , 2009 , 139, 2402-5	4.1	161
49	Mechanism of the internal ribosome entry site-mediated translation of serine hydroxymethyltransferase 1. <i>Journal of Biological Chemistry</i> , 2009 , 284, 31085-96	5.4	20
48	Mthfd1 is an essential gene in mice and alters biomarkers of impaired one-carbon metabolism. <i>Journal of Biological Chemistry</i> , 2009 , 284, 1533-9	5.4	59
47	A UV-responsive internal ribosome entry site enhances serine hydroxymethyltransferase 1 expression for DNA damage repair. <i>Journal of Biological Chemistry</i> , 2009 , 284, 31097-108	5.4	32
46	Insights into metabolic mechanisms underlying folate-responsive neural tube defects: a minireview. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2009 , 85, 274-84		108
45	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
44	Folate Biochemical Pathways and Their Regulation 2009 , 49-74		11
43	Mouse models to elucidate mechanisms of folate-related cancer pathologies. <i>Nutrition Reviews</i> , 2008 , 66 Suppl 1, S54-8	6.4	5
42	Genetic and epigenetic contributions to human nutrition and health: managing genome-diet interactions. <i>Journal of the American Dietetic Association</i> , 2008 , 108, 1480-7		67
41	Folate-mediated one-carbon metabolism. <i>Vitamins and Hormones</i> , 2008 , 79, 1-44	2.5	263
40	Cytoplasmic serine hydroxymethyltransferase regulates the metabolic partitioning of methylenetetrahydrofolate but is not essential in mice. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25846-53	5.4	103
39	Discussion: Folate and Vitamin B12 Metabolism: Overview and Interaction with Riboflavin, Vitamin B6, and Polymorphisms. <i>Food and Nutrition Bulletin</i> , 2008 , 29, S17-S19	1.8	8
38	Convergence of genetic, nutritional and inflammatory factors in gastrointestinal cancers. <i>Nutrition Reviews</i> , 2007 , 65, S157-66	6.4	18
37	Folate-mediated one-carbon metabolism and neural tube defects: balancing genome synthesis and gene expression. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2007 , 81, 183-203		97
36	A ferritin-responsive internal ribosome entry site regulates folate metabolism. <i>Journal of Biological Chemistry</i> , 2007 , 282, 29927-35	5.4	32

35	Evidence for small ubiquitin-like modifier-dependent nuclear import of the thymidylate biosynthesis pathway. <i>Journal of Biological Chemistry</i> , 2007 , 282, 17623-31	5.4	98
34	Small ubiquitin-like modifier-1 (SUMO-1) modification of thymidylate synthase and dihydrofolate reductase. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007 , 45, 1760-3	5.9	50
33	Human nutrition and genetic variation. <i>Food and Nutrition Bulletin</i> , 2007 , 28, S101-15	1.8	11
32	Inhibition of 5,10-methenyltetrahydrofolate synthetase. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 458, 194-201	4.1	14
31	Effect of vitamin B6 availability on serine hydroxymethyltransferase in MCF-7 cells. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 462, 21-7	4.1	29
30	Convergence of Genetic, Nutritional and Inflammatory Factors in Gastrointestinal Cancers. <i>Nutrition Reviews</i> , 2007 , 65, 157-166	6.4	19
29	Nutrition and developmental biology--implications for public health. <i>Nutrition Reviews</i> , 2006 , 64, S60-71; discussion S72-91	6.4	1
28	Regulation of folate-mediated one-carbon metabolism by 10-formyltetrahydrofolate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 18335-42	5.4	71
27	Regulation of de novo purine biosynthesis by methenyltetrahydrofolate synthetase in neuroblastoma. <i>Journal of Biological Chemistry</i> , 2006 , 281, 4215-21	5.4	41
26	Methenyltetrahydrofolate synthetase is a high-affinity catecholamine-binding protein. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 455, 175-87	4.1	5
25	Influence of human genetic variation on nutritional requirements. <i>American Journal of Clinical Nutrition</i> , 2006 , 83, 436S-442S	7	70
24	Ferritin and Serine Hydroxymethyltransferase 2006 , 213-236		
23	Polymorphisms in cytoplasmic serine hydroxymethyltransferase and methylenetetrahydrofolate reductase affect the risk of cardiovascular disease in men. <i>Journal of Nutrition</i> , 2005 , 135, 1989-94	4.1	38
22	Mimosine attenuates serine hydroxymethyltransferase transcription by chelating zinc. Implications for inhibition of DNA replication. <i>Journal of Biological Chemistry</i> , 2005 , 280, 396-400	5.4	31
21	Physiology of folate and vitamin B12 in health and disease. <i>Nutrition Reviews</i> , 2004 , 62, S3-12; discussion S13	6.4	308
20	Cloning, expression, and purification of 5,10-methenyltetrahydrofolate synthetase from <i>Mus musculus</i> . <i>Protein Expression and Purification</i> , 2004 , 35, 276-83	2	13
19	Nutritional genomics. <i>Physiological Genomics</i> , 2004 , 16, 161-5	3.6	37
18	Physiology of Folate and Vitamin B12 in Health and Disease. <i>Nutrition Reviews</i> , 2004 , 62, 3-12	6.4	66

17	1. General introduction: the role of science in identifying common ground in the debate on genetic modification of foods. <i>Trends in Food Science and Technology</i> , 2003 , 14, 182-190	15.3	12
16	Methenyltetrahydrofolate synthetase regulates folate turnover and accumulation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 29856-62	5.4	50
15	Pyridoxal phosphate inhibits dynamic subunit interchange among serine hydroxymethyltransferase tetramers. <i>Journal of Biological Chemistry</i> , 2003 , 278, 10142-9	5.4	16
14	Securing the future of nutritional sciences through integrative graduate education. <i>Journal of Nutrition</i> , 2002 , 132, 779-84	4.1	11
13	Bringing individuality to public health recommendations. <i>Journal of Nutrition</i> , 2002 , 132, 2476S-2480S	4.1	35
12	Cytoplasmic serine hydroxymethyltransferase mediates competition between folate-dependent deoxyribonucleotide and S-adenosylmethionine biosyntheses. <i>Journal of Biological Chemistry</i> , 2002 , 277, 38381-9	5.4	199
11	Heavy chain ferritin enhances serine hydroxymethyltransferase expression and de novo thymidine biosynthesis. <i>Journal of Biological Chemistry</i> , 2001 , 276, 19855-61	5.4	47
10	New perspectives on folate catabolism. <i>Annual Review of Nutrition</i> , 2001 , 21, 255-82	9.9	213
9	Lack of catalytic activity of a murine mRNA cytoplasmic serine hydroxymethyltransferase splice variant: evidence against alternative splicing as a regulatory mechanism. <i>Biochemistry</i> , 2001 , 40, 4932-9	3.2	19
8	Purification and properties of a folate-catabolizing enzyme. <i>Journal of Biological Chemistry</i> , 2000 , 275, 35646-55	5.4	56
7	Structure of a murine cytoplasmic serine hydroxymethyltransferase quinonoid ternary complex: evidence for asymmetric obligate dimers. <i>Biochemistry</i> , 2000 , 39, 13313-23	3.2	68
6	Molecular cloning, characterization and alternative splicing of the human cytoplasmic serine hydroxymethyltransferase gene. <i>Gene</i> , 1998 , 210, 315-24	3.8	87
5	Molecular cloning, characterization, and regulation of the human mitochondrial serine hydroxymethyltransferase gene. <i>Journal of Biological Chemistry</i> , 1997 , 272, 1842-8	5.4	102
4	5-Formyltetrahydrofolate regulates homocysteine remethylation in human neuroblastoma. <i>Journal of Biological Chemistry</i> , 1997 , 272, 4729-34	5.4	92
3	The metabolic role of leucovorin. <i>Trends in Biochemical Sciences</i> , 1993 , 18, 102-6	10.3	107
2	Synthesis of (6S)-5-formyltetrahydropteroyl-polyglutamates and interconversion to other reduced pteroyl-polyglutamate derivatives. <i>Analytical Biochemistry</i> , 1992 , 202, 82-8	3.1	39
1	Nutrition and stem cell integrity in aging. <i>Journal of Internal Medicine</i> ,	10.8	0