

Dean R Appling

List of Publications by Year in descending order

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29
papers

1,819
citations

430874

18
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552781

26
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29
all docs

29
docs citations

29
times ranked

2299
citing authors

#	ARTICLE	IF	CITATIONS
1	Compartmentalization of Mammalian Folate-Mediated One-Carbon Metabolism. Annual Review of Nutrition, 2010, 30, 57-81.	10.1	560
2	Compartmentation of folate-mediated one-carbon metabolism in eukaryotes. FASEB Journal, 1991, 5, 2645-2651.	0.5	321
3	Deletion of <i>Mthfd1l</i> causes embryonic lethality and neural tube and craniofacial defects in mice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 549-554.	7.1	149
4	Mitochondrial C1-Tetrahydrofolate Synthase (MTHFD1L) Supports the Flow of Mitochondrial One-carbon Units into the Methyl Cycle in Embryos. Journal of Biological Chemistry, 2010, 285, 4612-4620.	3.4	107
5	Role of Mitochondrial and Cytoplasmic Serine Hydroxymethyltransferase Isozymes in <i>Saccharomyces cerevisiae</i> . Biochemistry, 1997, 36, 14956-14964.	2.5	100
6	Human mitochondrial MTHFD2 is a dual redox cofactor-specific methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate cyclohydrolase. Cancer & Metabolism, 2017, 5, 11.	5.0	56
7	Metabolic Role of Cytoplasmic Isozymes of 5,10-Methylenetetrahydrofolate Dehydrogenase in <i>Saccharomyces cerevisiae</i> . Biochemistry, 1996, 35, 3122-3132.	2.5	55
8	Characterization of the folate-dependent mitochondrial oxidation of carbon 3 of serine. Biochemistry, 1993, 32, 4671-4676.	2.5	52
9	Carbon-13 NMR analysis of intercompartmental flow of one-carbon units into choline and purines in <i>Saccharomyces cerevisiae</i> . Biochemistry, 1994, 33, 74-82.	2.5	52
10	Human Mitochondrial C1-Tetrahydrofolate Synthase. Journal of Biological Chemistry, 2003, 278, 43178-43187.	3.4	51
11	Mammalian MTHFD2L Encodes a Mitochondrial Methylenetetrahydrofolate Dehydrogenase Isozyme Expressed in Adult Tissues. Journal of Biological Chemistry, 2011, 286, 5166-5174.	3.4	51
12	Mitochondrial MTHFD2L Is a Dual Redox Cofactor-specific Methylenetetrahydrofolate Dehydrogenase/Methenyltetrahydrofolate Cyclohydrolase Expressed in Both Adult and Embryonic Tissues. Journal of Biological Chemistry, 2014, 289, 15507-15517.	3.4	44
13	Isolation and characterization of a novel eukaryotic monofunctional NAD ⁺ -dependent 5,10-methylenetetrahydrofolate dehydrogenase. Biochemistry, 1990, 29, 7089-7094.	2.5	37
14	¹³ C NMR Analysis of the Use of Alternative Donors to the Tetrahydrofolate-Dependent One-Carbon Pools in <i>Saccharomyces cerevisiae</i> . Archives of Biochemistry and Biophysics, 1996, 326, 158-165.	3.0	32
15	Enzymatic characterization of human mitochondrial C1-tetrahydrofolate synthase. Archives of Biochemistry and Biophysics, 2005, 442, 196-205.	3.0	30
16	Purification and properties of cobalamin-independent methionine synthase from <i>Candida albicans</i> and <i>Saccharomyces cerevisiae</i> . Archives of Biochemistry and Biophysics, 2005, 441, 56-63.	3.0	26
17	Human mitochondrial C1-tetrahydrofolate synthase: Submitochondrial localization of the full-length enzyme and characterization of a short isoform. Archives of Biochemistry and Biophysics, 2009, 481, 86-93.	3.0	23
18	Deletion of the neural tube defect-associated gene disrupts one-carbon and central energy metabolism in mouse embryos. Journal of Biological Chemistry, 2018, 293, 5821-5833.	3.4	21

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19	The X-ray structure of the NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase from <i>Saccharomyces cerevisiae</i> . <i>Protein Science</i> , 2000, 9, 1374-1381.	7.6	14
20	Mitochondrial one-carbon metabolism and neural tube defects. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2014, 100, 576-583.	1.6	8
21	Kinetic and Structural Analysis of Active Site Mutants of Monofunctional NAD-Dependent 5,10-Methylenetetrahydrofolate Dehydrogenase from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 2005, 44, 13163-13171.	2.5	7
22	Metabotype analysis of Mthfd1l-null mouse embryos using desorption electrospray ionization mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3573-3582.	3.7	7
23	Deletion of neural tube defect-associated gene <i>Mthfd1l</i> causes reduced cranial mesenchyme density. <i>Birth Defects Research</i> , 2019, 111, 1520-1534.	1.5	6
24	Monofunctional NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase from <i>Saccharomyces cerevisiae</i> . <i>Methods in Enzymology</i> , 1997, 281, 178-188.	1.0	5
25	Crystallization of the NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase from <i>Saccharomyces cerevisiae</i> . , 1996, 26, 481-482.		2
26	Lester Reed: A "complex" man who loved science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6247-6247.	7.1	2
27	Identifying the Cox24 Protein as a Factor Involved in Mitochondrial Protein Synthesis. <i>FASEB Journal</i> , 2010, 24, 685.2.	0.5	1
28	Frank Chytil (1924–2010). <i>Journal of Nutrition</i> , 2010, 140, 1711-1713.	2.9	0
29	Identifying Novel Factors Involved In Yeast Mitochondrial Protein Synthesis. <i>FASEB Journal</i> , 2010, 24, 685.1.	0.5	0