Dean R Appling

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Metabotype analysis of Mthfd1l-null mouse embryos using desorption electrospray ionization mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2021, 413, 3573-3582.	3.7	7
2	Deletion of neural tube defectâ€associated gene <i>Mthfd1l</i> causes reduced cranial mesenchyme density. Birth Defects Research, 2019, 111, 1520-1534.	1.5	6
3	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
4	Human mitochondrial MTHFD2 is a dual redox cofactor-specific methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate cyclohydrolase. Cancer & Metabolism, 2017, 5, 11.	5.0	56
5	Lester Reed: A "complex―man who loved science. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6247-6247.	7.1	2
6	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
7	Mitochondrial oneâ€carbon metabolism and neural tube defects. Birth Defects Research Part A: Clinical and Molecular Teratology, 2014, 100, 576-583.	1.6	8
8	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
9	Mammalian MTHFD2L Encodes a Mitochondrial Methylenetetrahydrofolate Dehydrogenase Isozyme Expressed in Adult Tissues. Journal of Biological Chemistry, 2011, 286, 5166-5174.	3.4	51
10	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
11	Frank Chytil (1924–2010). Journal of Nutrition, 2010, 140, 1711-1713.	2.9	0
12	Compartmentalization of Mammalian Folate-Mediated One-Carbon Metabolism. Annual Review of Nutrition, 2010, 30, 57-81.	10.1	560
13	Identifying Novel Factors Involved In Yeast Mitochondrial Protein Synthesis. FASEB Journal, 2010, 24, 685.1.	0.5	0
14	Identifying the Cox24 Protein as a Factor Involved in Mitochondrial Protein Synthesis. FASEB Journal, 2010, 24, 685.2.	0.5	1
15	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
16	Kinetic and Structural Analysis of Active Site Mutants of Monofunctional NAD-Dependent 5,10-Methylenetetrahydrofolate Dehydrogenase from Saccharomyces cerevisiae. Biochemistry, 2005, 44, 13163-13171.	2.5	7
17	Purification and properties of cobalamin-independent methionine synthase from Candida albicans and Saccharomyces cerevisiae. Archives of Biochemistry and Biophysics, 2005, 441, 56-63.	3.0	26
18	Enzymatic characterization of human mitochondrial C1-tetrahydrofolate synthase. Archives of Biochemistry and Biophysics, 2005, 442, 196-205.	3.0	30

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19	Human Mitochondrial C1-Tetrahydrofolate Synthase. Journal of Biological Chemistry, 2003, 278, 43178-43187.	3.4	51
20	The Xâ€ray structure of the NADâ€dependent 5,10â€methylenetetrahydrofolate dehydrogenase from <i>Saccharomyces cerevisiae</i> . Protein Science, 2000, 9, 1374-1381.	7.6	14
21	Monofunctional NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase from Saccharomyces cerevisiae. Methods in Enzymology, 1997, 281, 178-188.	1.0	5
22	Role of Mitochondrial and Cytoplasmic Serine Hydroxymethyltransferase Isozymes inde NovoPurine Synthesis inSaccharomyces cerevisiaeâ€. Biochemistry, 1997, 36, 14956-14964.	2.5	100
23	Metabolic Role of Cytoplasmic Isozymes of 5,10-Methylenetetrahydrofolate Dehydrogenase inSaccharomyces cerevisiaeâ€. Biochemistry, 1996, 35, 3122-3132.	2.5	55
24	13C NMR Analysis of the Use of Alternative Donors to the Tetrahydrofolate-Dependent One-Carbon Pools inSaccharomyces cerevisiae. Archives of Biochemistry and Biophysics, 1996, 326, 158-165.	3.0	32
25	Crystallization of the NAD-dependent 5,10-methylenetetrahydrofolate dehydrogenase fromSaccharomyces cerevisiae. , 1996, 26, 481-482.		2
26	Carbon-13 NMR analysis of intercompartmental flow of one-carbon units into choline and purines in Saccharomyces cerevisiae. Biochemistry, 1994, 33, 74-82.	2.5	52
27	Characterization of the folate-dependent mitochondrial oxidation of carbon 3 of serine. Biochemistry, 1993, 32, 4671-4676.	2.5	52
28	Compartmentation of folateâ€mediated oneâ€carbon metabolism in eukaryotes. FASEB Journal, 1991, 5, 2645-2651.	0.5	321
29	lsolation and characterization of a novel eukaryotic monofunctional NAD+-dependent 5,10-methylenetetrahydrofolate dehydrogenase. Biochemistry, 1990, 29, 7089-7094.	2.5	37