Conrad Wagner

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11619265/publications.pdf

Version: 2024-02-01

69 papers	4,245 citations	101543 36 h-index	110387 64 g-index
69 all docs	69 docs citations	69 times ranked	5481 citing authors

#	Article	IF	Citations
1	Loss of the glycine N-methyltransferase gene leads to steatosis and hepatocellular carcinoma in mice. Hepatology, 2008, 47, 1191-1199.	7.3	262
2	Regulation of Methylbenzoate Emission after Pollination in Snapdragon and Petunia Flowers. Plant Cell, 2003, 15, 2992-3006.	6.6	211
3	S-adenosylhomocysteine hydrolase deficiency in a human: A genetic disorder of methionine metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4234-4239.	7.1	201
4	Inhibition of glycine n-methyltransferase activity by folate derivatives: Implications for regulation of methyl group metabolism. Biochemical and Biophysical Research Communications, 1985, 127, 746-752.	2.1	172
5	Glycine N-Methyltransferase and Regulation of S-Adenosylmethionine Levels. Journal of Biological Chemistry, 2009, 284, 22507-22511.	3.4	162
6	Methyl balance and transmethylation fluxes in humans. American Journal of Clinical Nutrition, 2007, 85, 19-25.	4.7	161
7	Impact of Extracellular Folate Levels on Global Gene Expression. Molecular Pharmacology, 2001, 60, 1288-1295.	2.3	156
8	Plasma S -adenosylhomocysteine is a more sensitive indicator of cardiovascular disease than plasma homocysteine. American Journal of Clinical Nutrition, 2001, 74, 723-729.	4.7	155
9	The Arabidopsis HOMOLOGY-DEPENDENT GENE SILENCING1 Gene Codes for an S-Adenosyl-l-Homocysteine Hydrolase Required for DNA Methylation-Dependent Gene Silencing. Plant Cell, 2005, 17, 404-417.	6.6	154
10	Adenosine Kinase Deficiency Is Associated with Developmental Abnormalities and Reduced Transmethylation. Plant Physiology, 2002, 128, 812-821.	4.8	153
11	Liquid Chromatographyâ^'Mass Spectrometry-Based Parallel Metabolic Profiling of Human and Mouse Model Serum Reveals Putative Biomarkers Associated with the Progression of Nonalcoholic Fatty Liver Disease. Journal of Proteome Research, 2010, 9, 4501-4512.	3.7	144
12	Candidate biomarkers in exosomeâ€like vesicles purified from rat and mouse urine samples. Proteomics - Clinical Applications, 2010, 4, 416-425.	1.6	116
13	HuR/Methyl-HuR and AUF1 Regulate the MAT Expressed During Liver Proliferation, Differentiation, and Carcinogenesis. Gastroenterology, 2010, 138, 1943-1953.e3.	1.3	113
14	Excess S-adenosylmethionine reroutes phosphatidylethanolamine towards phosphatidylcholine and triglyceride synthesis. Hepatology, 2013, 58, 1296-1305.	7.3	100
15	Enzymatic properties of dimethylglycine dehydrogenase and sarcosine dehydrogenase from rat liver. Archives of Biochemistry and Biophysics, 1985, 243, 396-407.	3.0	92
16	Fatty liver and fibrosis in glycine N-methyltransferase knockout mice is prevented by nicotinamide. Hepatology, 2010, 52, 105-114.	7.3	81
17	Serum Methionine Metabolites Are Risk Factors for Metastatic Prostate Cancer Progression. PLoS ONE, 2011, 6, e22486.	2.5	80
18	Insertional Inactivation of the Methionine S-Methyltransferase Gene Eliminates the S-Methylmethionine Cycle and Increases the Methylation Ratio. Plant Physiology, 2003, 131, 1808-1815.	4.8	75

#	Article	IF	Citations
19	Effect of Dietary Methyl Group Deficiency on One-Carbon Metabolism in Rats. Journal of Nutrition, 1989, 119, 612-617.	2.9	68
20	Elevated plasma total homocysteine in severe methionine adenosyltransferase I/III deficiency. Metabolism: Clinical and Experimental, 2002, 51, 981-988.	3.4	68
21	S-adenosylmethionine Levels Regulate the Schwann Cell DNA Methylome. Neuron, 2014, 81, 1024-1039.	8.1	67
22	Mutations in human glycine N-methyltransferase give insights into its role in methionine metabolism. Human Genetics, 2002, 110, 68-74.	3.8	65
23	Measurement of PlasmaS-Adenosylmethionine andS-Adenosylhomocysteine as Their Fluorescent Isoindoles. Analytical Biochemistry, 1998, 264, 180-184.	2.4	63
24	BIOCHEMICAL ROLE OF FOLATE IN CELLULAR METABOLISM*. Clinical Research and Regulatory Affairs, 2001, 18, 161-180.	2.1	60
25	Methionine and S-adenosylmethionine levels are critical regulators of PP2A activity modulating lipophagy during steatosis. Journal of Hepatology, 2016, 64, 409-418.	3.7	59
26	Inhibition of natural killer cells protects the liver against acute injury in the absence of glycine N-methyltransferase. Hepatology, 2012, 56, 747-759.	7.3	58
27	S-Adenosylhomocysteineâ€”a better indicator of vascular disease than homocysteine?. American Journal of Clinical Nutrition, 2007, 86, 1581-1585.	4.7	52
28	S-Adenosylmethionine increases circulating very-low density lipoprotein clearance in non-alcoholic fatty liver disease. Journal of Hepatology, 2015, 62, 673-681.	3.7	44
29	Properties of Folic Acid Î³-Glutamyl Hydrolase (Conjugase) in Rat Bile and Plasma. Journal of Nutrition, 1981, 111, 442-449.	2.9	43
30	Inhibition of Glycine N-Methyltransferase by 5-Methyltetrahydrofolate Pentaglutamate. Journal of Biological Chemistry, 1999, 274, 37559-37564.	3.4	43
31	Folate deficiency affects histone methylation. Medical Hypotheses, 2016, 88, 63-67.	1.5	43
32	Pancreatic Exocrine Secretion Is Blocked by Inhibitors of Methylation. Archives of Biochemistry and Biophysics, 1997, 345, 47-55.	3.0	41
33	Effect of Dietary Methyl Group Deficiency on Folate Metabolism in Rats. Journal of Nutrition, 1989, 119, 618-621.	2.9	40
34	Hepatoma Cells From Mice Deficient in Glycine N-Methyltransferase Have Increased RAS Signaling and Activation of Liver Kinase B1. Gastroenterology, 2012, 143, 787-798.e13.	1.3	40
35	Muddâ€™s disease (MAT I/III deficiency): a survey of data for MAT1A homozygotes and compound heterozygotes. Orphanet Journal of Rare Diseases, 2015, 10, 99.	2.7	39
36	The Methylenetetrahydrofolate Reductase 677Câ†'T Polymorphism and Dietary Folate Restriction Affect Plasma One-Carbon Metabolites and Red Blood Cell Folate Concentrations and Distribution in Women. Journal of Nutrition, 2005, 135, 1040-1044.	2.9	38

#	Article	IF	Citations
37	S-Adenosylhomocysteineâ€"a better indicator of vascular disease than homocysteine?. American Journal of Clinical Nutrition, 2007, 86, 1581-1585.	4.7	38
38	Purification and characterization of a folate binding protein from rat liver cytosol. Archives of Biochemistry and Biophysics, 1980, 199, 236-248.	3.0	37
39	Sâ€adenosylhomocysteine hydrolase deficiency: two siblings with fetal hydrops and fatal outcomes. Journal of Inherited Metabolic Disease, 2010, 33, 705-713.	3.6	35
40	Oxidation of C1 compounds by Pseudomonas sp. MS. Biochemical Journal, 1970, 116, 357-365.	3.1	34
41	Methyl Group Metabolism in the Pancreas of Folate-Deficient Rats. Journal of Nutrition, 1992, 122, 1391-1396.	2.9	34
42	Impaired liver regeneration in mice lacking glycine N-methyltransferase. Hepatology, 2009, 50, 443-452.	7.3	34
43	Isolated hypermethioninemia: Measurements of S-adenosylmethionine and choline. Metabolism: Clinical and Experimental, 2000, 49, 1542-1547.	3.4	33
44	Creatine metabolism in combined methylmalonic aciduria and homocystinuria. Annals of Neurology, 2005, 57, 557-560.	5.3	31
45	Liver transplantation for treatment of severe S-adenosylhomocysteine hydrolase deficiency. Molecular Genetics and Metabolism, 2015, 116, 44-52.	1.1	31
46	Measurement of a folate binding protein from rat liver cytosol by radioimmunoassay. Archives of Biochemistry and Biophysics, 1981, 208, 358-364.	3.0	29
47	TRAIL-producing NK cells contribute to liver injury and related fibrogenesis in the context of GNMT deficiency. Laboratory Investigation, 2015, 95, 223-236.	3.7	29
48	Enzymatic activity of methionine adenosyltransferase variants identified in patients with persistent hypermethioninemia. Molecular Genetics and Metabolism, 2010, 101, 172-177.	1.1	28
49	Relationship between plasma S-adenosylhomocysteine concentration and glomerular filtration rate in children. Metabolism: Clinical and Experimental, 2006, 55, 252-257.	3.4	26
50	Glycine Nâ€methyltransferase expression in the hippocampus and its role in neurogenesis and cognitive performance. Hippocampus, 2014, 24, 840-852.	1.9	26
51	Two patients with hepatic mtDNA depletion syndromes and marked elevations of S-adenosylmethionine and methionine. Molecular Genetics and Metabolism, 2012, 105, 228-236.	1.1	25
52	Effect of Folacin Deficiency on Folacin-binding Proteins in the Rat. Journal of Nutrition, 1977, 107, 1937-1945.	2.9	24
53	5-Methyltetrahydrofolate Is Bound in Intersubunit Areas of Rat Liver Folate-binding Protein Glycine N-Methyltransferase. Journal of Biological Chemistry, 2007, 282, 4069-4075.	3.4	24
54	ATP Depletion Affects the Phosphorylation State, Ligand Binding, and Nuclear Transport of the 4 S Polycyclic Aromatic Hydrocarbon-binding Protein in Rat Hepatoma Cells. Journal of Biological Chemistry, 1996, 271, 32551-32556.	3.4	23

#	Article	IF	Citations
55	Transport of Rat Liver Glycine N-Methyltransferase into Rat Liver Nuclei. Journal of Biological Chemistry, 1997, 272, 27140-27146.	3.4	22
56	Effect of naturally occurring mutations in human glycine N-methyltransferase on activity and conformation. Biochemical and Biophysical Research Communications, 2003, 312, 1067-1072.	2.1	17
57	Identification of phosphorylation sites in glycine N-methyltransferase from rat liver. Protein Science, 2006, 15, 785-794.	7.6	17
58	High-Frequency Ultrasound Imaging for Longitudinal Evaluation of Non-Alcoholic Fatty Liver Disease Progression in Mice. Ultrasound in Medicine and Biology, 2011, 37, 1161-1169.	1.5	17
59	Glycine N-methyltransferases: A comparison of the crystal structures and kinetic properties of recombinant human, mouse and rat enzymes. Proteins: Structure, Function and Bioinformatics, 2004, 57, 331-337.	2.6	16
60	A simple rapid immunoassay for S-adenosylhomocysteine in plasmaâ¯†. Journal of Nutritional Biochemistry, 2007, 18, 827-831.	4.2	15
61	Folate in demethylation: The crystal structure of the rat dimethylglycine dehydrogenase complexed with tetrahydrofolate. Biochemical and Biophysical Research Communications, 2014, 449, 392-398.	2.1	14
62	Acetylation of N-terminal valine of glycine N-methyltransferase affects enzyme inhibition by folate. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1342-1346.	2.3	13
63	S-adenosylhomocysteine is a more sensitive indicator of renal insufficiency than homocysteine. Nutrition Research, 2004, 24, 487-494.	2.9	12
64	Differences in folateâ€“protein interactions result in differing inhibition of native rat liver and recombinant glycine N-methyltransferase by 5-methyltetrahydrofolate. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 286-291.	2.3	11
65	Destabilization of human glycine Nâ€methyltransferase by H176N mutation. Protein Science, 2007, 16, 1957-1964.	7.6	9
66	Plasma S-Adenosylhomocysteine Versus Homocysteine as a Marker for Vascular Disease. Journal of Nutrition, 2008, 138, 980-980.	2.9	7
67	Human glycine N-methyltransferase is unfolded by urea through a compact monomer state. Archives of Biochemistry and Biophysics, 2003, 420, 153-160.	3.0	6
68	Sarcosine, Folate Metabolism and Prostate Cancerâ€”Is There a Link?. Journal of Urology, 2011, 185, 385-386.	0.4	6
69	Associations between S-adenosylmethionine, S-adenosylhomocysteine, and colorectal adenoma risk are modified by sex. American Journal of Cancer Research, 2015, 5, 458-65.	1.4	3