

Conrad Wagner

List of Publications by Year in descending order

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69
papers

4,245
citations

101496

36
h-index

110317

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. <i>Hepatology</i> , 2008, 47, 1191-1199. | 3.6 | 262 |
| 2 | Regulation of Methylbenzoate Emission after Pollination in Snapdragon and Petunia Flowers. <i>Plant Cell</i> , 2003, 15, 2992-3006. | 3.1 | 211 |
| 3 | S-adenosylhomocysteine hydrolase deficiency in a human: A genetic disorder of methionine metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4234-4239. | 3.3 | 201 |
| 4 | Inhibition of glycine n-methyltransferase activity by folate derivatives: Implications for regulation of methyl group metabolism. <i>Biochemical and Biophysical Research Communications</i> , 1985, 127, 746-752. | 1.0 | 172 |
| 5 | Glycine N-Methyltransferase and Regulation of S-Adenosylmethionine Levels. <i>Journal of Biological Chemistry</i> , 2009, 284, 22507-22511. | 1.6 | 162 |
| 6 | Methyl balance and transmethylation fluxes in humans. <i>American Journal of Clinical Nutrition</i> , 2007, 85, 19-25. | 2.2 | 161 |
| 7 | Impact of Extracellular Folate Levels on Global Gene Expression. <i>Molecular Pharmacology</i> , 2001, 60, 1288-1295. | 1.0 | 156 |
| 8 | Plasma S-adenosylhomocysteine is a more sensitive indicator of cardiovascular disease than plasma homocysteine. <i>American Journal of Clinical Nutrition</i> , 2001, 74, 723-729. | 2.2 | 155 |
| 9 | The Arabidopsis HOMOLOGUE-DEPENDENT GENE SILENCING1 Gene Codes for an S-Adenosyl-L-Homocysteine Hydrolase Required for DNA Methylation-Dependent Gene Silencing. <i>Plant Cell</i> , 2005, 17, 404-417. | 3.1 | 154 |
| 10 | Adenosine Kinase Deficiency Is Associated with Developmental Abnormalities and Reduced Transmethylation. <i>Plant Physiology</i> , 2002, 128, 812-821. | 2.3 | 153 |
| 11 | Liquid Chromatography-Mass Spectrometry-Based Parallel Metabolic Profiling of Human and Mouse Model Serum Reveals Putative Biomarkers Associated with the Progression of Nonalcoholic Fatty Liver Disease. <i>Journal of Proteome Research</i> , 2010, 9, 4501-4512. | 1.8 | 144 |
| 12 | Candidate biomarkers in exosome-like vesicles purified from rat and mouse urine samples. <i>Proteomics - Clinical Applications</i> , 2010, 4, 416-425. | 0.8 | 116 |
| 13 | HuR/Methyl-HuR and AUF1 Regulate the MAT Expressed During Liver Proliferation, Differentiation, and Carcinogenesis. <i>Gastroenterology</i> , 2010, 138, 1943-1953.e3. | 0.6 | 113 |
| 14 | Excess S-adenosylmethionine reroutes phosphatidylethanolamine towards phosphatidylcholine and triglyceride synthesis. <i>Hepatology</i> , 2013, 58, 1296-1305. | 3.6 | 100 |
| 15 | Enzymatic properties of dimethylglycine dehydrogenase and sarcosine dehydrogenase from rat liver. <i>Archives of Biochemistry and Biophysics</i> , 1985, 243, 396-407. | 1.4 | 92 |
| 16 | Fatty liver and fibrosis in glycine N-methyltransferase knockout mice is prevented by nicotinamide. <i>Hepatology</i> , 2010, 52, 105-114. | 3.6 | 81 |
| 17 | Serum Methionine Metabolites Are Risk Factors for Metastatic Prostate Cancer Progression. <i>PLoS ONE</i> , 2011, 6, e22486. | 1.1 | 80 |
| 18 | Insertional Inactivation of the Methionine S-Methyltransferase Gene Eliminates the S-Methylmethionine Cycle and Increases the Methylation Ratio. <i>Plant Physiology</i> , 2003, 131, 1808-1815. | 2.3 | 75 |

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|----|--|-----|-----------|
| 19 | Effect of Dietary Methyl Group Deficiency on One-Carbon Metabolism in Rats. <i>Journal of Nutrition</i> , 1989, 119, 612-617. | 1.3 | 68 |
| 20 | Elevated plasma total homocysteine in severe methionine adenosyltransferase I/III deficiency. <i>Metabolism: Clinical and Experimental</i> , 2002, 51, 981-988. | 1.5 | 68 |
| 21 | S-adenosylmethionine Levels Regulate the Schwann Cell DNA Methylome. <i>Neuron</i> , 2014, 81, 1024-1039. | 3.8 | 67 |
| 22 | Mutations in human glycine N-methyltransferase give insights into its role in methionine metabolism. <i>Human Genetics</i> , 2002, 110, 68-74. | 1.8 | 65 |
| 23 | Measurement of Plasma S-Adenosylmethionine and S-Adenosylhomocysteine as Their Fluorescent Isoindoles. <i>Analytical Biochemistry</i> , 1998, 264, 180-184. | 1.1 | 63 |
| 24 | BIOCHEMICAL ROLE OF FOLATE IN CELLULAR METABOLISM*. <i>Clinical Research and Regulatory Affairs</i> , 2001, 18, 161-180. | 2.1 | 60 |
| 25 | Methionine and S-adenosylmethionine levels are critical regulators of PP2A activity modulating lipophagy during steatosis. <i>Journal of Hepatology</i> , 2016, 64, 409-418. | 1.8 | 59 |
| 26 | Inhibition of natural killer cells protects the liver against acute injury in the absence of glycine N-methyltransferase. <i>Hepatology</i> , 2012, 56, 747-759. | 3.6 | 58 |
| 27 | S-Adenosylhomocysteine—a better indicator of vascular disease than homocysteine?. <i>American Journal of Clinical Nutrition</i> , 2007, 86, 1581-1585. | 2.2 | 52 |
| 28 | S-Adenosylmethionine increases circulating very-low density lipoprotein clearance in non-alcoholic fatty liver disease. <i>Journal of Hepatology</i> , 2015, 62, 673-681. | 1.8 | 44 |
| 29 | Properties of Folic Acid $\hat{3}$ -Glutamyl Hydrolase (Conjugase) in Rat Bile and Plasma. <i>Journal of Nutrition</i> , 1981, 111, 442-449. | 1.3 | 43 |
| 30 | Inhibition of Glycine N-Methyltransferase by 5-Methyltetrahydrofolate Pentaglutamate. <i>Journal of Biological Chemistry</i> , 1999, 274, 37559-37564. | 1.6 | 43 |
| 31 | Folate deficiency affects histone methylation. <i>Medical Hypotheses</i> , 2016, 88, 63-67. | 0.8 | 43 |
| 32 | Pancreatic Exocrine Secretion Is Blocked by Inhibitors of Methylation. <i>Archives of Biochemistry and Biophysics</i> , 1997, 345, 47-55. | 1.4 | 41 |
| 33 | Effect of Dietary Methyl Group Deficiency on Folate Metabolism in Rats. <i>Journal of Nutrition</i> , 1989, 119, 618-621. | 1.3 | 40 |
| 34 | Hepatoma Cells From Mice Deficient in Glycine N-Methyltransferase Have Increased RAS Signaling and Activation of Liver Kinase B1. <i>Gastroenterology</i> , 2012, 143, 787-798.e13. | 0.6 | 40 |
| 35 | Mudd's disease (MAT I/III deficiency): a survey of data for MAT1A homozygotes and compound heterozygotes. <i>Orphanet Journal of Rare Diseases</i> , 2015, 10, 99. | 1.2 | 39 |
| 36 | The Methylene tetrahydrofolate Reductase 677C>T Polymorphism and Dietary Folate Restriction Affect Plasma One-Carbon Metabolites and Red Blood Cell Folate Concentrations and Distribution in Women. <i>Journal of Nutrition</i> , 2005, 135, 1040-1044. | 1.3 | 38 |

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|----|---|-----|-----------|
| 37 | S-Adenosylhomocysteineâ€”a better indicator of vascular disease than homocysteine?. American Journal of Clinical Nutrition, 2007, 86, 1581-1585. | 2.2 | 38 |
| 38 | Purification and characterization of a folate binding protein from rat liver cytosol. Archives of Biochemistry and Biophysics, 1980, 199, 236-248. | 1.4 | 37 |
| 39 | <i>S</i>â€”adenosylhomocysteine hydrolase deficiency: two siblings with fetal hydrops and fatal outcomes. Journal of Inherited Metabolic Disease, 2010, 33, 705-713. | 1.7 | 35 |
| 40 | Oxidation of C1 compounds by <i>Pseudomonas</i> sp. MS. Biochemical Journal, 1970, 116, 357-365. | 3.2 | 34 |
| 41 | Methyl Group Metabolism in the Pancreas of Folate-Deficient Rats. Journal of Nutrition, 1992, 122, 1391-1396. | 1.3 | 34 |
| 42 | Impaired liver regeneration in mice lacking glycine N-methyltransferase. Hepatology, 2009, 50, 443-452. | 3.6 | 34 |
| 43 | Isolated hypermethioninemia: Measurements of S-adenosylmethionine and choline. Metabolism: Clinical and Experimental, 2000, 49, 1542-1547. | 1.5 | 33 |
| 44 | Creatine metabolism in combined methylmalonic aciduria and homocystinuria. Annals of Neurology, 2005, 57, 557-560. | 2.8 | 31 |
| 45 | Liver transplantation for treatment of severe S-adenosylhomocysteine hydrolase deficiency. Molecular Genetics and Metabolism, 2015, 116, 44-52. | 0.5 | 31 |
| 46 | Measurement of a folate binding protein from rat liver cytosol by radioimmunoassay. Archives of Biochemistry and Biophysics, 1981, 208, 358-364. | 1.4 | 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. | 1.7 | 29 |
| 48 | Enzymatic activity of methionine adenosyltransferase variants identified in patients with persistent hypermethioninemia. Molecular Genetics and Metabolism, 2010, 101, 172-177. | 0.5 | 28 |
| 49 | Relationship between plasma S-adenosylhomocysteine concentration and glomerular filtration rate in children. Metabolism: Clinical and Experimental, 2006, 55, 252-257. | 1.5 | 26 |
| 50 | Glycine <i>N</i>â€”methyltransferase expression in the hippocampus and its role in neurogenesis and cognitive performance. Hippocampus, 2014, 24, 840-852. | 0.9 | 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. | 0.5 | 25 |
| 52 | Effect of Folicin Deficiency on Folicin-binding Proteins in the Rat. Journal of Nutrition, 1977, 107, 1937-1945. | 1.3 | 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. | 1.6 | 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. | 1.6 | 23 |

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|----|--|-----|-----------|
| 55 | Transport of Rat Liver Glycine N-Methyltransferase into Rat Liver Nuclei. <i>Journal of Biological Chemistry</i> , 1997, 272, 27140-27146. | 1.6 | 22 |
| 56 | Effect of naturally occurring mutations in human glycine N-methyltransferase on activity and conformation. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 1067-1072. | 1.0 | 17 |
| 57 | Identification of phosphorylation sites in glycine N-methyltransferase from rat liver. <i>Protein Science</i> , 2006, 15, 785-794. | 3.1 | 17 |
| 58 | High-Frequency Ultrasound Imaging for Longitudinal Evaluation of Non-Alcoholic Fatty Liver Disease Progression in Mice. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 1161-1169. | 0.7 | 17 |
| 59 | Glycine N-methyltransferases: A comparison of the crystal structures and kinetic properties of recombinant human, mouse and rat enzymes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 331-337. | 1.5 | 16 |
| 60 | A simple rapid immunoassay for S-adenosylhomocysteine in plasma. <i>Journal of Nutritional Biochemistry</i> , 2007, 18, 827-831. | 1.9 | 15 |
| 61 | Folate in demethylation: The crystal structure of the rat dimethylglycine dehydrogenase complexed with tetrahydrofolate. <i>Biochemical and Biophysical Research Communications</i> , 2014, 449, 392-398. | 1.0 | 14 |
| 62 | Acetylation of N-terminal valine of glycine N-methyltransferase affects enzyme inhibition by folate. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1342-1346. | 1.1 | 13 |
| 63 | S-adenosylhomocysteine is a more sensitive indicator of renal insufficiency than homocysteine. <i>Nutrition Research</i> , 2004, 24, 487-494. | 1.3 | 12 |
| 64 | Differences in folate-protein interactions result in differing inhibition of native rat liver and recombinant glycine N-methyltransferase by 5-methyltetrahydrofolate. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 286-291. | 1.1 | 11 |
| 65 | Destabilization of human glycine N-methyltransferase by H176N mutation. <i>Protein Science</i> , 2007, 16, 1957-1964. | 3.1 | 9 |
| 66 | Plasma S-Adenosylhomocysteine Versus Homocysteine as a Marker for Vascular Disease. <i>Journal of Nutrition</i> , 2008, 138, 980-980. | 1.3 | 7 |
| 67 | Human glycine N-methyltransferase is unfolded by urea through a compact monomer state. <i>Archives of Biochemistry and Biophysics</i> , 2003, 420, 153-160. | 1.4 | 6 |
| 68 | Sarcosine, Folate Metabolism and Prostate Cancer—Is There a Link?. <i>Journal of Urology</i> , 2011, 185, 385-386. | 0.2 | 6 |
| 69 | Associations between S-adenosylmethionine, S-adenosylhomocysteine, and colorectal adenoma risk are modified by sex. <i>American Journal of Cancer Research</i> , 2015, 5, 458-65. | 1.4 | 3 |