

Jorge C Escalante-Semerena

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Elevated Levels of an Enzyme Involved in Coenzyme B ₁₂ Biosynthesis Kills <i>Escherichia coli</i> . <i>MBio</i> , 2022, e0269721.	1.8	0
2	A method for the efficient adenylation of corrinoids. <i>Methods in Enzymology</i> , 2022, 668, 87-108.	0.4	0
3	A method for the isolation of 5-methyltetrahydrofolic acid-gamma-glutamyl hydromethyltransferase from <i>Streptococcus pneumoniae</i> , and its enzymatic conversion to 5-methyltetrahydrofolic acid-gamma-glutamyl hydromethyltransferase. <i>Methods in Enzymology</i> , 2022, 668, 125-136.	0.4	1
4	A method for the production, purification and liposome reconstitution of cobamide synthase. <i>Methods in Enzymology</i> , 2022, 668, 109-123.	0.4	0
5	Localization and interaction studies of the <i>Salmonella enterica</i> ethanolamine ammonia-lyase (EutBC), its reactivase (EutA), and the EutT corrinoid adenylation transferase. <i>Molecular Microbiology</i> , 2022, 118, 191-207.	1.2	2
6	Insights into the Relationship between Cobamide Synthase and the Cell Membrane. <i>MBio</i> , 2021, 12, .	1.8	8
7	Functional Studies of 5-Methyltetrahydrofolic Acid-Gamma-Glutamyl Hydromethyltransferase Activation by the 5-Methyltetrahydrofolic Acid-Gamma-Glutamyl Hydromethyltransferase Kinase (CbIS) from <i>Geobacillus kaustophilus</i> . <i>Biochemistry</i> , 2021, 60, 2011-2021.	1.2	1
8	Sirtuin-Dependent Reversible Lysine Acetylation Controls the Activity of Acetyl Coenzyme A Synthetase in <i>Campylobacter jejuni</i> . <i>Journal of Bacteriology</i> , 2021, 203, e0033321.	1.0	2
9	New AMP-forming acid:CoA ligases from <i>Streptomyces lividans</i> , some of which are posttranslationally regulated by reversible lysine acetylation. <i>Molecular Microbiology</i> , 2020, 113, 253-269.	1.2	5
10	New Insights Into the Biosynthesis of Cobamides and Their Use. , 2020, , 364-394.		4
11	Modulation of the bacterial CobB sirtuin deacylase activity by N-terminal acetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15895-15901.	3.3	15
12	Mutational and Functional Analyses of Substrate Binding and Catalysis of the <i>Listeria monocytogenes</i> EutT ATP:Co(I)rrinoid Adenylation Transferase. <i>Biochemistry</i> , 2020, 59, 1124-1136.	1.2	3
13	Small-Molecule Acetylation by GCN5-Related N-Acetyltransferases in Bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2020, 84, .	2.9	27
14	The N-Thr Kinase N-Thr-Phosphate Decarboxylase (CobD) Enzyme from <i>Methanosarcina mazei</i> G41 Contains Metallocenters Needed for Optimal Activity. <i>Biochemistry</i> , 2019, 58, 3260-3279.	1.2	3
15	Insights into the Function of the N-Acetyltransferase SatA That Detoxifies Streptothricin in <i>Bacillus subtilis</i> and <i>Bacillus anthracis</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	12
16	Protein Acetylation in Bacteria. <i>Annual Review of Microbiology</i> , 2019, 73, 111-132.	2.9	78
17	<i>Staphylococcus aureus</i> modulates the activity of acetyl-Coenzyme A synthetase (Acs) by sirtuin-dependent reversible lysine acetylation. <i>Molecular Microbiology</i> , 2019, 112, 588-604.	1.2	14
18	A New Class of Phosphoribosyltransferases Involved in Cobamide Biosynthesis Is Found in Methanogenic Archaea and Cyanobacteria. <i>Biochemistry</i> , 2019, 58, 951-964.	1.2	10

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19	In <i>Streptomyces lividans</i> , acetyl-CoA synthetase activity is controlled by O-serine and N ^ε -lysine acetylation. <i>Molecular Microbiology</i> , 2018, 107, 577-594.	1.2	14
20	In <i>Salmonella enterica</i> , OatA (Formerly YjgM) Uses O-Acetyl-Serine and Acetyl-CoA to Synthesize N,O-Diacetylserine, Which Upregulates Cysteine Biosynthesis. <i>Frontiers in Microbiology</i> , 2018, 9, 2838.	1.5	7
21	Small-Molecule Acetylation Controls the Degradation of Benzoate and Photosynthesis in <i>Rhodospirillum rubrum</i> . <i>MBio</i> , 2018, 9, .	1.8	5
22	A New Class of EutT ATP:Co(II)rrinoid Adenosyltransferases Found in <i>Listeria monocytogenes</i> and Other Firmicutes Does Not Require a Metal Ion for Activity. <i>Biochemistry</i> , 2018, 57, 5076-5087.	1.2	11
23	Facile isolation of 5-ribazole from vitamin B12 hydrolysates using boronate affinity chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1090, 52-55.	1.2	6
24	The <i>Methanosarcina mazei</i> MM2060 Gene Encodes a Bifunctional Kinase/Decarboxylase Enzyme Involved in Cobamide Biosynthesis. <i>Biochemistry</i> , 2018, 57, 4478-4495.	1.2	7
25	<i>Rhodobacteriales</i> use a unique L-threonine kinase for the assembly of the nucleotide loop of coenzyme B ₁₂ . <i>Molecular Microbiology</i> , 2018, 110, 239-261.	1.2	7
26	Spectroscopic Study of the EutT Adenosyltransferase from <i>Listeria monocytogenes</i> : Evidence for the Formation of a Four-Coordinate Cob(II)alamin Intermediate. <i>Biochemistry</i> , 2018, 57, 5088-5095.	1.2	5
27	A Toxin Involved in <i>Salmonella</i> Persistence Regulates Its Activity by Acetylating Its Cognate Antitoxin, a Modification Reversed by CobB Sirtuin Deacetylase. <i>MBio</i> , 2017, 8, .	1.8	30
28	Spectroscopic Studies of the EutT Adenosyltransferase from <i>Salmonella enterica</i> : Evidence of a Tetrahedrally Coordinated Divalent Transition Metal Cofactor with Cysteine Ligation. <i>Biochemistry</i> , 2017, 56, 364-375.	1.2	6
29	In <i>Bacillus subtilis</i> , the SatA (Formerly YyaR) Acetyltransferase Detoxifies Streptothricin via Lysine Acetylation. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	16
30	<i>Salmonella enterica</i> synthesizes 5,6-dimethylbenzimidazolyl-DMB-ribose. Why some Firmicutes do not require the canonical DMB activation system to synthesize adenosylcobalamin. <i>Molecular Microbiology</i> , 2017, 103, 269-281.	1.2	13
31	A snapshot of evolution in action: emergence of new heme transport function derived from a coenzyme B ₁₂ biosynthetic enzyme. <i>Environmental Microbiology</i> , 2017, 19, 8-10.	1.8	0
32	The PrpF protein of <i>Shewanella oneidensis</i> MR-1 catalyzes the isomerization of 2-methyl-cis-aconitate during the catabolism of propionate via the AcnD-dependent 2-methylcitric acid cycle. <i>PLoS ONE</i> , 2017, 12, e0188130.	1.1	10
33	New high-cloning-efficiency vectors for complementation studies and recombinant protein overproduction in <i>Escherichia coli</i> and <i>Salmonella enterica</i> . <i>Plasmid</i> , 2016, 86, 1-6.	0.4	37
34	Resonance Raman spectroscopic study of the interaction between Co(II)rrinoids and the ATP:corrinoic adenosyltransferase PduO from <i>Lactobacillus reuteri</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 669-681.	1.1	7
35	Corrinoid Metabolism in Dehalogenating Pure Cultures and Microbial Communities. , 2016, , 455-484.		4
36	Phosphinothricin Acetyltransferases Identified Using <i>In Vivo</i> , <i>In Vitro</i> , and Bioinformatic Analyses. <i>Applied and Environmental Microbiology</i> , 2016, 82, 7041-7051.	1.4	10

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37	The <i>SMUL_1544</i> Gene Product Governs Norcobamide Biosynthesis in the Tetrachloroethene-Respiring Bacterium <i>Sulfurospirillum multivorans</i> . <i>Journal of Bacteriology</i> , 2016, 198, 2236-2243.	1.0	20
38	The <i>EutQ</i> and <i>EutP</i> proteins are novel acetate kinases involved in ethanolamine catabolism: physiological implications for the function of the ethanolamine metabolosome in <i>Salmonella enterica</i> . <i>Molecular Microbiology</i> , 2016, 99, 497-511.	1.2	33
39	Spectroscopic Studies of the <i>EutT</i> Adenosyltransferase from <i>Salmonella enterica</i> : Mechanism of Four-Coordinate Co(II)Cbl Formation. <i>Journal of the American Chemical Society</i> , 2016, 138, 3694-3704.	6.6	11
40	Unprecedented Mechanism Employed by the <i>Salmonella enterica</i> <i>EutT</i> ATP:Co ^I Adenosyltransferase Precludes Adenylation of Incomplete Co ^{II} Adenosyltransferases. <i>Angewandte Chemie</i> , 2015, 127, 7264-7267.	1.6	3
41	Solution Structural Studies of GTP:Adenosylcobinamide-Phosphateguanylyl Transferase (CobY) from <i>Methanocaldococcus jannaschii</i> . <i>PLoS ONE</i> , 2015, 10, e0141297.	1.1	3
42	Acylation of Biomolecules in Prokaryotes: a Widespread Strategy for the Control of Biological Function and Metabolic Stress. <i>Microbiology and Molecular Biology Reviews</i> , 2015, 79, 321-346.	2.9	173
43	Unprecedented Mechanism Employed by the <i>Salmonella enterica</i> <i>EutT</i> ATP:Co ^I Adenosyltransferase Precludes Adenylation of Incomplete Co ^{II} Adenosyltransferases. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7158-7161.	7.2	13
44	In <i>Salmonella enterica</i> , the Gcn5-Related Acetyltransferase MddA (Formerly YncA) Acetylates Methionine Sulfoximine and Methionine Sulfone, Blocking Their Toxic Effects. <i>Journal of Bacteriology</i> , 2015, 197, 314-325.	1.0	23
45	The structure of <i>S. lividans</i> acetyl-CoA synthetase shows a novel interaction between the C-terminal extension and the N-terminal domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 575-581.	1.5	6
46	Phylogenetic and amino acid conservation analyses of bacterial L-aspartate- β -decarboxylase and of its zymogen-maturation protein reveal a putative interaction domain. <i>BMC Research Notes</i> , 2015, 8, 354.	0.6	10
47	Deciphering the Regulatory Circuitry That Controls Reversible Lysine Acetylation in <i>Salmonella enterica</i> . <i>MBio</i> , 2015, 6, e00891.	1.8	19
48	Complex regulation of the sirtuin-dependent reversible lysine acetylation system of <i>Salmonella enterica</i> . <i>Microbial Cell</i> , 2015, 2, 451-453.	1.4	7
49	Determinants within the C-Terminal Domain of <i>Streptomyces lividans</i> Acetyl-CoA Synthetase that Block Acetylation of Its Active Site Lysine In Vitro by the Protein Acetyltransferase (Pat) Enzyme. <i>PLoS ONE</i> , 2014, 9, e99817.	1.1	5
50	Insights into the Specificity of Lysine Acetyltransferases. <i>Journal of Biological Chemistry</i> , 2014, 289, 36249-36262.	1.6	15
51	Spectroscopic Studies of the <i>Salmonella enterica</i> Adenosyltransferase Enzyme <i>Se</i> CobA: Molecular-Level Insight into the Mechanism of Substrate Cob(II)alamin Activation. <i>Biochemistry</i> , 2014, 53, 7969-7982.	1.2	13
52	The <i>EutT</i> Enzyme of <i>Salmonella enterica</i> Is a Unique ATP:Cob(I)alamin Adenosyltransferase Metalloprotein That Requires Ferrous Ions for Maximal Activity. <i>Journal of Bacteriology</i> , 2014, 196, 903-910.	1.0	18
53	The Acetylation Motif in AMP-Forming Acyl Coenzyme A Synthetases Contains Residues Critical for Acetylation and Recognition by the Protein Acetyltransferase Pat of <i>Rhodospseudomonas palustris</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1496-1504.	1.0	21
54	Dissecting cobamide diversity through structural and functional analyses of the base-activating CobT enzyme of <i>Salmonella enterica</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 464-475.	1.1	16

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55	Acetyl Coenzyme A Synthetase Is Acetylated on Multiple Lysine Residues by a Protein Acetyltransferase with a Single Gcn5-Type <i>N</i> -Acetyltransferase (GNAT) Domain in <i>Saccharopolyspora erythraea</i> . <i>Journal of Bacteriology</i> , 2014, 196, 3169-3178.	1.0	39
56	Acetoacetyl-CoA synthetase activity is controlled by a protein acetyltransferase with unique domain organization in <i>Streptomyces lividans</i> . <i>Molecular Microbiology</i> , 2013, 87, 152-167.	1.2	47
57	<i>Bacillus megaterium</i> Has Both a Functional BluB Protein Required for DMB Synthesis and a Related Flavoprotein That Forms a Stable Radical Species. <i>PLoS ONE</i> , 2013, 8, e55708.	1.1	20
58	PanM, an Acetyl-Coenzyme A Sensor Required for Maturation of <i>l</i> -Aspartate Decarboxylase (PanD). <i>MBio</i> , 2012, 3, .	1.8	11
59	Structure-Guided Expansion of the Substrate Range of Methylmalonyl Coenzyme A Synthetase (MatB) of <i>Rhodopseudomonas palustris</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 6619-6629.	1.4	33
60	System-wide Studies of N-Lysine Acetylation in <i>Rhodopseudomonas palustris</i> Reveal Substrate Specificity of Protein Acetyltransferases. <i>Journal of Biological Chemistry</i> , 2012, 287, 15590-15601.	1.6	80
61	Structural Insights into the Mechanism of Four-Coordinate Cob(II)alamin Formation in the Active Site of the <i>Salmonella enterica</i> ATP:Co(I)rrinoid Adenosyltransferase Enzyme: Critical Role of Residues Phe91 and Trp93. <i>Biochemistry</i> , 2012, 51, 9647-9657.	1.2	29
62	Structural Insights into the Substrate Specificity of the <i>Rhodopseudomonas palustris</i> Protein Acetyltransferase RpPat. <i>Journal of Biological Chemistry</i> , 2012, 287, 41392-41404.	1.6	12
63	Spectroscopic Characterization of Active-Site Variants of the PduO-type ATP:Corrinoid Adenosyltransferase from <i>Lactobacillus reuteri</i> : Insights into the Mechanism of Four-Coordinate Co(II)corrinoid Formation. <i>Inorganic Chemistry</i> , 2012, 51, 4482-4494.	1.9	12
64	Structural Insights into the Function of the Nicotinate Mononucleotide:phenol- <i>p</i> -cresol Phosphoribosyltransferase (ArsAB) Enzyme from <i>Sporomusa ovata</i> . <i>Biochemistry</i> , 2012, 51, 8571-8582.	1.2	14
65	A positive selection approach identifies residues important for folding of <i>Salmonella enterica</i> Pat, an <i>N</i> -lysine acetyltransferase that regulates central metabolism enzymes. <i>Research in Microbiology</i> , 2012, 163, 427-435.	1.0	7
66	The missing link in coenzyme A biosynthesis: PanM (formerly YhhK), a yeast GCN5 acetyltransferase homologue triggers aspartate decarboxylase (PanD) maturation in <i>Salmonella enterica</i> . <i>Molecular Microbiology</i> , 2012, 84, 608-619.	1.2	21
67	Structure and Mutational Analysis of the Archaeal GTP:AdoCbi-P Guanylyltransferase (CobY) from <i>Methanocaldococcus jannaschii</i> : Insights into GTP Binding and Dimerization. <i>Biochemistry</i> , 2011, 50, 5301-5313.	1.2	6
68	Control of protein function by reversible <i>N</i> -lysine acetylation in bacteria. <i>Current Opinion in Microbiology</i> , 2011, 14, 200-204.	2.3	91
69	In <i>Salmonella enterica</i> , the sirtuin-dependent protein acylation/deacylation system (SDPADS) maintains energy homeostasis during growth on low concentrations of acetate. <i>Molecular Microbiology</i> , 2011, 80, 168-183.	1.2	44
70	ArsAB, a novel enzyme from <i>Sporomusa ovata</i> activates phenolic bases for adenosylcobamide biosynthesis. <i>Molecular Microbiology</i> , 2011, 81, 952-967.	1.2	47
71	Structure of Sir2Tm bound to a propionylated peptide. <i>Protein Science</i> , 2011, 20, 131-139.	3.1	21
72	Biochemical and Thermodynamic Analyses of <i>Salmonella enterica</i> Pat, a Multidomain, Multimeric <i>N</i> -Lysine Acetyltransferase Involved in Carbon and Energy Metabolism. <i>MBio</i> , 2011, 2, .	1.8	38

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73	Multiple roles of ATP:cob(I)alamin adenosyltransferases in the conversion of B12 to coenzyme B12. Applied Microbiology and Biotechnology, 2010, 88, 41-48.	1.7	34
74	Reversible N ^ε -lysine acetylation regulates the activity of acyl-CoA synthetases involved in anaerobic benzoate catabolism in <i>Rhodospseudomonas palustris</i> . Molecular Microbiology, 2010, 76, 874-888.	1.2	80
75	A new pathway for the synthesis of ribazole-phosphate in <i>Listeria innocua</i> . Molecular Microbiology, 2010, 77, 1429-1438.	1.2	34
76	N ^ε -Lysine Acetylation of a Bacterial Transcription Factor Inhibits Its DNA-Binding Activity. PLoS ONE, 2010, 5, e15123.	1.1	137
77	In <i>Salmonella enterica</i> , 2-Methylcitrate Blocks Gluconeogenesis. Journal of Bacteriology, 2010, 192, 771-778.	1.0	34
78	Functional Analysis of the Nicotinate Mononucleotide:5,6-Dimethylbenzimidazole Phosphoribosyltransferase (CobT) Enzyme, Involved in the Late Steps of Coenzyme B ₁₂ Biosynthesis in <i>Salmonella enterica</i> . Journal of Bacteriology, 2010, 192, 145-154.	1.0	17
79	Biologically Active Isoforms of CobB Sirtuin Deacetylase in <i>Salmonella enterica</i> and <i>Erwinia amylovora</i> . Journal of Bacteriology, 2010, 192, 6200-6208.	1.0	37
80	Dihydroflavin-driven Adenosylation of 4-Coordinate Co(II) Corrinoids. Journal of Biological Chemistry, 2010, 285, 2911-2917.	1.6	32
81	N ^ε -Lysine Acetylation Control Conserved in All Three Life Domains. Microbe Magazine, 2010, 5, 340-344.	0.4	17
82	In <i>Bacillus subtilis</i> , the Sirtuin Protein Deacetylase, Encoded by the <i>srtN</i> Gene (Formerly) Tj ETQq0.0.0 rgBT/Overlock 10 T Coenzyme A Synthetase. Journal of Bacteriology, 2009, 191, 1749-1755.	1.0	69
83	In Vivo Analysis of Cobinamide Salvaging in <i>Rhodobacter sphaeroides</i> Strain 2.4.1. Journal of Bacteriology, 2009, 191, 3842-3851.	1.0	26
84	Involvement of the Cra Global Regulatory Protein in the Expression of the <i>iscRSUA</i> Operon, Revealed during Studies of Tricarballoylate Catabolism in <i>Salmonella enterica</i> . Journal of Bacteriology, 2009, 191, 2069-2076.	1.0	3
85	The cobinamide amidohydrolase (cobyric acid-forming) CbiZ enzyme: a critical activity of the cobamide remodelling system of <i>Rhodobacter sphaeroides</i> . Molecular Microbiology, 2009, 74, 1198-1210.	1.2	52
86	Biochemical Characterization of the GTP:Adenosylcobinamide-phosphate Guanylyltransferase (CobY) Enzyme of the Hyperthermophilic Archaeon <i>Methanocaldococcus jannaschii</i> . Biochemistry, 2009, 48, 5882-5889.	1.2	8
87	Residue Phe112 of the Human-Type Corrinoid Adenosyltransferase (PduO) Enzyme of <i>Lactobacillus reuteri</i> Is Critical to the Formation of the Four-Coordinate Co(II) Corrinoid Substrate and to the Activity of the Enzyme. Biochemistry, 2009, 48, 3138-3145.	1.2	34
88	Regulation of expression of the tricarballoylate utilization operon (<i>tcuABC</i>) of <i>Salmonella enterica</i> . Research in Microbiology, 2009, 160, 179-186.	1.0	5
89	Conversion of Cobinamide into Coenzyme B12. , 2009, , 300-316.		2
90	Syntheses and characterization of vitamin B12-Pt(II) conjugates and their adenosylation in an enzymatic assay. Journal of Biological Inorganic Chemistry, 2008, 13, 335-347.	1.1	37

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91	The genome of <i>Rhodobacter sphaeroides</i> strain 2.4.1 encodes functional cobinamide salvaging systems of archaeal and bacterial origins. <i>Molecular Microbiology</i> , 2008, 70, 824-836.	1.2	27
92	Construction and use of new cloning vectors for the rapid isolation of recombinant proteins from <i>Escherichia coli</i> . <i>Plasmid</i> , 2008, 59, 231-237.	0.4	122
93	Structural Characterization of a Human-Type Corrinoid Adenosyltransferase Confirms That Coenzyme B ₁₂ Is Synthesized through a Four-Coordinate Intermediate. <i>Biochemistry</i> , 2008, 47, 5755-5766.	1.2	55
94	Kinetic and Spectroscopic Studies of the ATP:Corrinoid Adenosyltransferase PduO from <i>Lactobacillus reuteri</i> : Substrate Specificity and Insights into the Mechanism of Co(II)corrinoid Reduction. <i>Biochemistry</i> , 2008, 47, 9007-9015.	1.2	36
95	<i>Salmonella enterica</i> Requires ApbC Function for Growth on Tricarballoylate: Evidence of Functional Redundancy between ApbC and IscU. <i>Journal of Bacteriology</i> , 2008, 190, 4596-4602.	1.0	29
96	Biochemical and Mutational Analyses of AcuA, the Acetyltransferase Enzyme That Controls the Activity of the Acetyl Coenzyme A Synthetase (AcsA) in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2008, 190, 5132-5136.	1.0	47
97	Biosynthesis and Use of Cobalamin (B ₁₂). <i>EcoSal Plus</i> , 2008, 3, .	2.1	18
98	Single-enzyme conversion of FMNH ₂ to 5,6-dimethylbenzimidazole, the lower ligand of B ₁₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2921-2926.	3.3	56
99	The CbiB Protein of <i>Salmonella enterica</i> Is an Integral Membrane Protein Involved in the Last Step of the De Novo Corrin Ring Biosynthetic Pathway. <i>Journal of Bacteriology</i> , 2007, 189, 7697-7708.	1.0	29
100	N-Lysine Propionylation Controls the Activity of Propionyl-CoA Synthetase. <i>Journal of Biological Chemistry</i> , 2007, 282, 30239-30245.	1.6	176
101	Structural Characterization of the Active Site of the PduO-Type ATP:Co(II)corrinoid Adenosyltransferase from <i>Lactobacillus reuteri</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 2596-2605.	1.6	63
102	Conversion of Cobinamide into Adenosylcobamide in Bacteria and Archaea. <i>Journal of Bacteriology</i> , 2007, 189, 4555-4560.	1.0	89
103	In Vivo and in Vitro Analyses of Single-amino Acid Variants of the <i>Salmonella enterica</i> Phosphotransacetylase Enzyme Provide Insights into the Function of Its N-terminal Domain. <i>Journal of Biological Chemistry</i> , 2007, 282, 12629-12640.	1.6	15
104	Reassessment of the Late Steps of Coenzyme B ₁₂ Synthesis in <i>Salmonella enterica</i> : Evidence that Dephosphorylation of Adenosylcobalamin-5'-Phosphate by the CobC Phosphatase Is the Last Step of the Pathway. <i>Journal of Bacteriology</i> , 2007, 189, 2210-2218.	1.0	50
105	The Thiamine Kinase (YcfN) Enzyme Plays a Minor but Significant Role in Cobinamide Salvaging in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , 2007, 189, 7310-7315.	1.0	7
106	Structural and Functional Analyses of the Human-Type Corrinoid Adenosyltransferase (PduO) from <i>Lactobacillus reuteri</i> . <i>Biochemistry</i> , 2007, 46, 13829-13836.	1.2	33
107	Tricarballoylate Catabolism in <i>Salmonella enterica</i> . The TcuB Protein Uses 4Fe-4S Clusters and Heme to Transfer Electrons from FADH ₂ in the Tricarballoylate Dehydrogenase (TcuA) Enzyme to Electron Acceptors in the Cell Membrane. <i>Biochemistry</i> , 2007, 46, 9107-9115.	1.2	19
108	The three-dimensional crystal structure of the PrpF protein of <i>Shewanella oneidensis</i> complexed with trans-aconitate: Insights into its biological function. <i>Protein Science</i> , 2007, 16, 1274-1284.	3.1	21

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109	In vivo and in vitro analyses of single-amino acid variants of the Salmonella enterica phosphotransacetylase enzyme provide insights into the function of its N-terminal domain. VOLUME 282 (2007) PAGES 12629-12640. Journal of Biological Chemistry, 2007, 282, 16712.	1.6	0
110	Control of Acetyl-Coenzyme A Synthetase (AcsA) Activity by Acetylation/Deacetylation without NAD + Involvement in Bacillus subtilis. Journal of Bacteriology, 2006, 188, 5460-5468.	1.0	129
111	Mutation of Phosphotransacetylase but Not Isocitrate Lyase Reduces the Virulence of Salmonella enterica Serovar Typhimurium in Mice. Infection and Immunity, 2006, 74, 2498-2502.	1.0	18
112	The FAD-Dependent Tricarballoylate Dehydrogenase (TcuA) Enzyme of Salmonella enterica Converts Tricarballoylate into cis -Aconitate. Journal of Bacteriology, 2006, 188, 5479-5486.	1.0	40
113	The cbiS Gene of the Archaeon Methanopyrus kandleri AV19 Encodes a Bifunctional Enzyme with Adenosylcobinamide Amidohydrolase and \pm -Ribazole-Phosphate Phosphatase Activities. Journal of Bacteriology, 2006, 188, 4227-4235.	1.0	22
114	The cobZ Gene of Methanosarcina mazei Go ¹ Encodes the Nonorthologous Replacement of the \pm -Ribazole-5 ² -Phosphate Phosphatase (CobC) Enzyme of Salmonella enterica. Journal of Bacteriology, 2006, 188, 2740-2743.	1.0	15
115	Studies of the CobA-Type ATP:Co(I)rrinoid Adenosyltransferase Enzyme of Methanosarcina mazei Strain Go ¹ . Journal of Bacteriology, 2006, 188, 3543-3550.	1.0	14
116	Purification and Initial Biochemical Characterization of ATP:Cob(I)alamin Adenosyltransferase (EutT) Enzyme of Salmonella enterica*. Journal of Biological Chemistry, 2006, 281, 16971-16977.	1.6	34
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