

Kelly Sheppard

List of Publications by Year in descending order

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papers

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516215

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1019
citing authors

#	ARTICLE	IF	CITATIONS
1	From one amino acid to another: tRNA-dependent amino acid biosynthesis. <i>Nucleic Acids Research</i> , 2008, 36, 1813-1825.	6.5	157
2	A High-Resolution Radiation Hybrid Map of the Human Genome Draft Sequence. <i>Science</i> , 2001, 291, 1298-1302.	6.0	138
3	Archaeal 3'-phosphate RNA splicing ligase characterization identifies the missing component in tRNA maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1290-1295.	3.3	100
4	Structural Basis of RNA-Dependent Recruitment of Glutamine to the Genetic Code. <i>Science</i> , 2006, 312, 1950-1954.	6.0	80
5	The <i>Helicobacter pylori</i> Amidotransferase GatCAB Is Equally Efficient in Glutamine-dependent Transamidation of Asp-tRNA ^{Asn} and Glu-tRNA ^{Gln} . <i>Journal of Biological Chemistry</i> , 2007, 282, 11866-11873.	1.6	53
6	Gln-tRNA ^{Gln} Formation from Glu-tRNA ^{Gln} Requires Cooperation of an Asparaginase and a Glu-tRNA ^{Gln} Kinase. <i>Journal of Biological Chemistry</i> , 2005, 280, 8150-8155.	1.6	52
7	On the Evolution of the tRNA-Dependent Amidotransferases, GatCAB and GatDE. <i>Journal of Molecular Biology</i> , 2008, 377, 831-844.	2.0	50
8	Structure of an archaeal non-discriminating glutamyl-tRNA synthetase: a missing link in the evolution of Gln-tRNA ^{Gln} formation. <i>Nucleic Acids Research</i> , 2010, 38, 7286-7297.	6.5	34
9	Structure of the <i>Pseudomonas aeruginosa</i> transamidosome reveals unique aspects of bacterial tRNA-dependent asparagine biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 382-387.	3.3	33
10	Insights into tRNA-Dependent Amidotransferase Evolution and Catalysis from the Structure of the <i>Aquifex aeolicus</i> Enzyme. <i>Journal of Molecular Biology</i> , 2009, 391, 703-716.	2.0	31
11	Amino acid modifications on tRNA. <i>Acta Biochimica Et Biophysica Sinica</i> , 2008, 40, 539-553.	0.9	27
12	Two distinct regions in <i>Staphylococcus aureus</i> GatCAB guarantee accurate tRNA recognition. <i>Nucleic Acids Research</i> , 2010, 38, 672-682.	6.5	26
13	Assays for transfer RNA-dependent amino acid biosynthesis. <i>Methods</i> , 2008, 44, 139-145.	1.9	20
14	The archaeal transamidosome for RNA-dependent glutamine biosynthesis. <i>Nucleic Acids Research</i> , 2010, 38, 5774-5783.	6.5	20
15	Rational design of an evolutionary precursor of glutamyl-tRNA synthetase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20485-20490.	3.3	19
16	Complex High-Resolution Linkage Disequilibrium and Haplotype Patterns of Single-Nucleotide Polymorphisms in 2.5 Mb of Sequence on Human Chromosome 21. <i>Genomics</i> , 2001, 78, 64-72.	1.3	18
17	Co-evolution of the archaeal tRNA-dependent amidotransferase GatCAB with tRNA ^{Asn} . <i>FEBS Letters</i> , 2007, 581, 309-314.	1.3	18
18	<i>Methanothermobacter thermoautotrophicus</i> tRNA ^{Gln} Confines the Amidotransferase GatCAB to Asparaginyl-tRNA ^{Asn} Formation. <i>Journal of Molecular Biology</i> , 2008, 377, 845-853.	2.0	16

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19	Relaxed tRNA specificity of the <i>Staphylococcus aureus</i> aspartyl-tRNA synthetase enables RNA-dependent asparagine biosynthesis. FEBS Letters, 2014, 588, 1808-1812.	1.3	11
20	The <i>Bacillus subtilis</i> and <i>Bacillus halodurans</i> Aspartyl-tRNA Synthetases Retain Recognition of tRNA ^{Asn} . Journal of Molecular Biology, 2016, 428, 618-630.	2.0	9
21	The Predatory Bacterium <i>Bdellovibrio bacteriovorus</i> Aspartyl-tRNA Synthetase Recognizes tRNA ^{Asn} as a Substrate. PLoS ONE, 2014, 9, e110842.	1.1	2
22	Features of Aminoacyl-tRNA Synthesis Unique to Archaea. , 0, , 198-208.		1
23	1SP7-03 tRNA recognition and molecular evolution of GatCAB(1SP7 Elucidation of Protein Functions at) Tj ETQq1 1 0.784314 rgBT /Ove 2009. 49. S9.	0.0	0
24	A Molecular Tunnel Required for Cooperation of an Asparaginase and a Glu-tRNA ^{Gln} Kinase in Gln-tRNA Formation. FASEB Journal, 2006, 20, A503.	0.2	0
25	eYFP reporter system for pyroglutamate incorporation. FASEB Journal, 2013, 27, 614.3.	0.2	0
26	Expanding the genetic code with pyroglutamate. FASEB Journal, 2013, 27, 614.2.	0.2	0
27	Direct Route for Asparaginyl-tRNA Formation in <i>B. subtilis</i> . FASEB Journal, 2018, 32, 526.33.	0.2	0
28	Dual Pathways for <i>B. anthracis</i> Asparaginyl-tRNA Formation. FASEB Journal, 2022, 36, .	0.2	0