Kelly Sheppard

List of Publications by Year
in descending order

28 papers	915 citations	516215 16 h-index	713013 21 g-index
28 all docs	28 docs citations	28 times ranked	1019 citing authors

#	Article	IF	Citations
1	Dual Pathways for B. anthracis Asparaginylâ€tRNA Formation. FASEB Journal, 2022, 36, .	0.2	0
2	Direct Route for Asparaginylâ€tRNA Formation in B. subtilis. FASEB Journal, 2018, 32, 526.33.	0.2	0
3	The Bacillus subtilis and Bacillus halodurans Aspartyl-tRNA Synthetases Retain Recognition of tRNAAsn. Journal of Molecular Biology, 2016, 428, 618-630.	2.0	9
4	Structure of the Pseudomonas aeruginosa transamidosome reveals unique aspects of bacterial tRNA-dependent asparagine biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 382-387.	3.3	33
5	The Predatory Bacterium Bdellovibrio bacteriovorus Aspartyl-tRNA Synthetase Recognizes tRNAAsn as a Substrate. PLoS ONE, 2014, 9, e110842.	1.1	2
6	Relaxed tRNA specificity of the Staphylococcus aureus aspartylâ€tRNA synthetase enables RNAâ€dependent asparagine biosynthesis. FEBS Letters, 2014, 588, 1808-1812.	1.3	11
7	eYFP reporter system for pyroglutamate incorporation. FASEB Journal, 2013, 27, 614.3.	0.2	0
8	Expanding the genetic code with pyroglutamate. FASEB Journal, 2013, 27, 614.2.	0.2	0
9	Rational design of an evolutionary precursor of glutaminyl-tRNA synthetase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20485-20490.	3.3	19
10	Archaeal 3â€²-phosphate RNA splicing ligase characterization identifies the missing component in tRNA maturation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1290-1295.	3.3	100
11	The archaeal transamidosome for RNA-dependent glutamine biosynthesis. Nucleic Acids Research, 2010, 38, 5774-5783.	6.5	20
12	Structure of an archaeal non-discriminating glutamyl-tRNA synthetase: a missing link in the evolution of Gln-tRNAGln formation. Nucleic Acids Research, 2010, 38, 7286-7297.	6.5	34
13	Two distinct regions in Staphylococcus aureus GatCAB guarantee accurate tRNA recognition. Nucleic Acids Research, 2010, 38, 672-682.	6.5	26
14	Insights into tRNA-Dependent Amidotransferase Evolution and Catalysis from the Structure of the Aquifex aeolicus Enzyme. Journal of Molecular Biology, 2009, 391, 703-716.	2.0	31
15	1SP7-03 tRNA recognition and molecular evolution of GatCAB(1SP7 Elucidation of Protein Functions at) Tj ETQq1 1 0.784314 rgBT /Ov 2009, 49, S9.	0.0	0
16	Amino acid modifications on tRNA<xref xml:base="fn" rid="fn1">†</xref>. Acta Biochimica Et Biophysica Sinica, 2008, 40, 539-553.	0.9	27
17	On the Evolution of the tRNA-Dependent Amidotransferases, GatCAB and GatDE. Journal of Molecular Biology, 2008, 377, 831-844.	2.0	50
18	Methanothermobacter thermautotrophicus tRNAGln Confines the Amidotransferase GatCAB to Asparaginyl-tRNAAsn Formation. Journal of Molecular Biology, 2008, 377, 845-853.	2.0	16

#	Article	IF	Citations
19	Assays for transfer RNA-dependent amino acid biosynthesis. Methods, 2008, 44, 139-145.	1.9	20
20	From one amino acid to another: tRNA-dependent amino acid biosynthesis. Nucleic Acids Research, 2008, 36, 1813-1825.	6.5	157
21	The Helicobacter pylori Amidotransferase GatCAB Is Equally Efficient in Glutamine-dependent Transamidation of Asp-tRNAAsn and Glu-tRNAGln. Journal of Biological Chemistry, 2007, 282, 11866-11873.	1.6	53
22	Co-evolution of the archaeal tRNA-dependent amidotransferase GatCAB with tRNAAsn. FEBS Letters, 2007, 581, 309-314.	1.3	18
23	Structural Basis of RNA-Dependent Recruitment of Glutamine to the Genetic Code. Science, 2006, 312, 1950-1954.	6.0	80
24	A Molecular Tunnel Required for Cooperation of an Asparaginase and a Gluâ€tRNA ^{Gln} Kinase in Glnâ€tRNA Formation. FASEB Journal, 2006, 20, A503.	0.2	0
25	Gln-tRNAGln Formation from Glu-tRNAGln Requires Cooperation of an Asparaginase and a Glu-tRNAGln Kinase. Journal of Biological Chemistry, 2005, 280, 8150-8155.	1.6	52
26	Complex High-Resolution Linkage Disequilibrium and Haplotype Patterns of Single-Nucleotide Polymorphisms in 2.5 Mb of Sequence on Human Chromosome 21. Genomics, 2001, 78, 64-72.	1.3	18
27	A High-Resolution Radiation Hybrid Map of the Human Genome Draft Sequence. Science, 2001, 291, 1298-1302.	6.0	138
28	Features of Aminoacyl-tRNA Synthesis Unique to Archaea. , 0, , 198-208.		1