

Tsutomu Suzuki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7052011/publications.pdf>

Version: 2024-02-01

229
papers

18,482
citations

13332

70
h-index

18944

123
g-index

239
all docs

239
docs citations

239
times ranked

17294
citing authors

#	ARTICLE	IF	CITATIONS
1	OUP accepted manuscript. Nucleic Acids Research, 2022, , .	6.5	7
2	Reversible RNA phosphorylation stabilizes tRNA for cellular thermotolerance. Nature, 2022, 605, 372-379.	13.7	35
3	Regulation of A-to-I RNA editing and stop codon recoding to control selenoprotein expression during skeletal myogenesis. Nature Communications, 2022, 13, 2503.	5.8	5
4	Glutamine deficiency in solid tumor cells confers resistance to ribosomal RNA synthesis inhibitors. Nature Communications, 2022, 13, .	5.8	10
5	Mass spectrometric analysis of mRNA 5' terminal modifications. Methods in Enzymology, 2021, 658, 407-418.	0.4	2
6	N6-methyladenosine (m6A) is an endogenous A3 adenosine receptor ligand. Molecular Cell, 2021, 81, 659-674.e7.	4.5	28
7	The expanding world of tRNA modifications and their disease relevance. Nature Reviews Molecular Cell Biology, 2021, 22, 375-392.	16.1	282
8	Loss of Ftsj1 perturbs codon-specific translation efficiency in the brain and is associated with X-linked intellectual disability. Science Advances, 2021, 7, .	4.7	30
9	A single m6A modification in U6 snRNA diversifies exon sequence at the 5' splice site. Nature Communications, 2021, 12, 3244.	5.8	30
10	m ⁶ A modification of HSATIII lncRNAs regulates temperature-dependent splicing. EMBO Journal, 2021, 40, e107976.	3.5	36
11	m ⁶ A-mediated alternative splicing coupled with nonsense-mediated mRNA decay regulates SAM synthetase homeostasis. EMBO Journal, 2021, 40, e106434.	3.5	26
12	RelA-SpoT Homolog toxins pyrophosphorylate the CCA end of tRNA to inhibit protein synthesis. Molecular Cell, 2021, 81, 3160-3170.e9.	4.5	26
13	Dynamic changes in tRNA modifications and abundance during T cell activation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27
14	The Effect of tRNA[Ser] ^{Sec} Isopentenylation on Selenoprotein Expression. International Journal of Molecular Sciences, 2021, 22, 11454.	1.8	8
15	Mass Spectrometric Analysis of Mitochondrial RNA Modifications. Methods in Molecular Biology, 2021, 2192, 89-101.	0.4	1
16	Synthesis and properties of the anticodon stem-loop of human mitochondrial tRNA ^{Met} containing the disease-related G or m1G nucleosides at position 37. Chemical Communications, 2021, 57, 12540-12543.	2.2	2
17	Molecular basis of glycyl-tRNA ^{Gly} acetylation by TacT from Salmonella Typhimurium. Cell Reports, 2021, 37, 110130.	2.9	7
18	Higd1a improves respiratory function in the models of mitochondrial disorder. FASEB Journal, 2020, 34, 1859-1871.	0.2	16

#	ARTICLE	IF	CITATIONS
19	An ancient type of MnmA protein is an iron-sulfur cluster-dependent sulfurtransferase for tRNA anticodons. <i>Rna</i> , 2020, 26, 240-250.	1.6	17
20	The RNA-binding protein QKI-7 recruits the poly(A) polymerase GLD-2 for 3' adenylation and selective stabilization of microRNA-122. <i>Journal of Biological Chemistry</i> , 2020, 295, 390-402.	1.6	21
21	Epigenetic loss of the transfer RNA-modifying enzyme TYW2 induces ribosome frameshifts in colon cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20785-20793.	3.3	31
22	Mechanism of aminoacyl-tRNA acetylation by an aminoacyl-tRNA acetyltransferase AtaT from enterohemorrhagic <i>E. coli</i> . <i>Nature Communications</i> , 2020, 11, 5438.	5.8	12
23	Complete chemical structures of human mitochondrial tRNAs. <i>Nature Communications</i> , 2020, 11, 4269.	5.8	144
24	The tRNA pseudouridine synthase TruB1 regulates the maturation of let-7 miRNA. <i>EMBO Journal</i> , 2020, 39, e104708.	3.5	17
25	In vitro yeast reconstituted translation system reveals function of eIF5A for synthesis of long polypeptide. <i>Journal of Biochemistry</i> , 2020, 167, 451-462.	0.9	7
26	Substrate specificities of <i>Escherichia coli</i> ItaT that acetylates aminoacyl-tRNAs. <i>Nucleic Acids Research</i> , 2020, 48, 7532-7544.	6.5	6
27	Distinct Modified Nucleosides in tRNA ^{Trp} from the Hyperthermophilic Archaeon <i>Thermococcus kodakarensis</i> and Requirement of tRNA ^{m²G10/m²G10} Methyltransferase (Archaeal Trm11) for Survival at High Temperatures. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	15
28	Mammalian NSUN2 introduces 5-methylcytidines into mitochondrial tRNAs. <i>Nucleic Acids Research</i> , 2019, 47, 8734-8745.	6.5	60
29	Dual pathways of tRNA hydroxylation ensure efficient translation by expanding decoding capability. <i>Nature Communications</i> , 2019, 10, 2858.	5.8	38
30	Impact of intron removal from tRNA genes on <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2019, 47, 5936-5949.	6.5	20
31	Depletion of S-adenosylmethionine impacts on ribosome biogenesis through hypomodification of a single rRNA methylation. <i>Nucleic Acids Research</i> , 2019, 47, 4226-4239.	6.5	19
32	Biogenesis and functions of aminocarboxypropyluridine in tRNA. <i>Nature Communications</i> , 2019, 10, 5542.	5.8	39
33	Transcriptome-wide identification of A-to-I RNA editing sites using ICE-seq. <i>Methods</i> , 2019, 156, 66-78.	1.9	14
34	Cap-specific terminal N ⁶ -methylation of RNA by an RNA polymerase II-associated methyltransferase. <i>Science</i> , 2019, 363, .	6.0	262
35	Random mutagenesis of a hyperthermophilic archaeon identified tRNA modifications associated with cellular hyperthermotolerance. <i>Nucleic Acids Research</i> , 2019, 47, 1964-1976.	6.5	38
36	Accurate estimation of 5-methylcytosine in mammalian mitochondrial DNA. <i>Scientific Reports</i> , 2018, 8, 5801.	1.6	35

#	ARTICLE	IF	CITATIONS
37	The ribosomal A-site finger is crucial for binding and activation of the stringent factor RelA. <i>Nucleic Acids Research</i> , 2018, 46, 1973-1983.	6.5	53
38	Metabolic and chemical regulation of tRNA modification associated with taurine deficiency and human disease. <i>Nucleic Acids Research</i> , 2018, 46, 1565-1583.	6.5	110
39	Defective Mitochondrial tRNA Taurine Modification Activates Global Proteostress and Leads to Mitochondrial Disease. <i>Cell Reports</i> , 2018, 22, 482-496.	2.9	84
40	CO ₂ -sensitive tRNA modification associated with human mitochondrial disease. <i>Nature Communications</i> , 2018, 9, 1875.	5.8	87
41	Quantification of methylation efficiency at a specific N6-methyladenosine position in rRNA by using BNA probes. <i>Chemical Communications</i> , 2018, 54, 9627-9630.	2.2	2
42	Acetate-dependent tRNA acetylation required for decoding fidelity in protein synthesis. <i>Nature Chemical Biology</i> , 2018, 14, 1010-1020.	3.9	43
43	Duplication of <i>Drosophila melanogaster</i> mitochondrial EF-Tu: pre-adaptation to T-arm truncation and exclusion of bulky aminoacyl residues. <i>Biochemical Journal</i> , 2017, 474, 957-969.	1.7	3
44	RNA editing enzyme ADAR2 is a mediator of neuropathic pain after peripheral nerve injury. <i>FASEB Journal</i> , 2017, 31, 1847-1855.	0.2	9
45	ALKBH1 is an RNA dioxygenase responsible for cytoplasmic and mitochondrial tRNA modifications. <i>Nucleic Acids Research</i> , 2017, 45, 7401-7415.	6.5	180
46	Biochemical and structural characterization of oxygen-sensitive 2-thiouridine synthesis catalyzed by an iron-sulfur protein TtuA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4954-4959.	3.3	37
47	Structural and functional characterization of the TYW3/Taw3 class of SAM-dependent methyltransferases. <i>Rna</i> , 2017, 23, 346-354.	1.6	13
48	Intrinsic Ribosome Destabilization Underlies Translation and Provides an Organism with a Strategy of Environmental Sensing. <i>Molecular Cell</i> , 2017, 68, 528-539.e5.	4.5	68
49	Hydroxylation of a conserved tRNA modification establishes non-universal genetic code in echinoderm mitochondria. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 778-782.	3.6	18
50	Human BCDIN3D monomethylates cytoplasmic histidine transfer RNA. <i>Nucleic Acids Research</i> , 2017, 45, gkx051.	6.5	25
51	S-Adenosylmethionine Synthesis Is Regulated by Selective N6-Adenosine Methylation and mRNA Degradation Involving METTL16 and YTHDC1. <i>Cell Reports</i> , 2017, 21, 3354-3363.	2.9	240
52	Biogenesis and iron-dependency of ribosomal RNA hydroxylation. <i>Nucleic Acids Research</i> , 2017, 45, 12974-12986.	6.5	34
53	Identification of 2-methylthio cyclic N6-threonylcarbamoyl-adenosine (ms2ct6A) as a novel RNA modification at position 37 of tRNAs. <i>Nucleic Acids Research</i> , 2017, 45, 2124-2136.	6.5	48
54	A hydantoin isoform of cyclic N6-threonylcarbamoyl-adenosine (ct6A) is present in tRNAs. <i>Nucleic Acids Research</i> , 2017, 45, 2137-2149.	6.5	40

#	ARTICLE	IF	CITATIONS
55	A Comprehensive Genomic Analysis Reveals the Genetic Landscape of Mitochondrial Respiratory Chain Complex Deficiencies. <i>PLoS Genetics</i> , 2016, 12, e1005679.	1.5	236
56	Mtu1-Mediated Thiouridine Formation of Mitochondrial tRNAs Is Required for Mitochondrial Translation and Is Involved in Reversible Infantile Liver Injury. <i>PLoS Genetics</i> , 2016, 12, e1006355.	1.5	28
57	NSUN3 methylase initiates 5-formylcytidine biogenesis in human mitochondrial tRNAMet. <i>Nature Chemical Biology</i> , 2016, 12, 546-551.	3.9	174
58	RNA modifications: what have we learned and where are we headed?. <i>Nature Reviews Genetics</i> , 2016, 17, 365-372.	7.7	215
59	Precursors of tRNAs are stabilized by methylguanosine cap structures. <i>Nature Chemical Biology</i> , 2016, 12, 648-655.	3.9	52
60	Biogenesis and growth phase-dependent alteration of 5-methoxycarbonylmethoxyuridine in tRNA anticodons. <i>Nucleic Acids Research</i> , 2016, 44, 509-523.	6.5	49
61	Identification and Functional Analysis of the Pre-piRNA 3' Trimmer in Silkworms. <i>Cell</i> , 2016, 164, 962-973.	13.5	159
62	Mitochondrial 16S rRNA Is Methylated by tRNA Methyltransferase TRMT61B in All Vertebrates. <i>PLoS Biology</i> , 2016, 14, e1002557.	2.6	95
63	Regulation of gene expression via retrotransposon insertions and the noncoding <i>4.5S RNA_H</i> . <i>Genes To Cells</i> , 2015, 20, 887-901.	0.5	15
64	Nucleoside Analysis by Hydrophilic Interaction Liquid Chromatography Coupled with Mass Spectrometry. <i>Methods in Enzymology</i> , 2015, 560, 19-28.	0.4	61
65	RlmCD-mediated U747 methylation promotes efficient G748 methylation by methyltransferase RlmA ^{II} in 23S rRNA in <i>Streptococcus pneumoniae</i> ; interplay between two rRNA methylations responsible for telithromycin susceptibility. <i>Nucleic Acids Research</i> , 2015, 43, 8964-8972.	6.5	11
66	Rectifier of aberrant mRNA splicing recovers tRNA modification in familial dysautonomia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2764-2769.	3.3	93
67	Iron-sulfur proteins responsible for RNA modifications. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1272-1283.	1.9	44
68	Cdk5rap1-Mediated 2-Methylthio Modification of Mitochondrial tRNAs Governs Protein Translation and Contributes to Myopathy in Mice and Humans. <i>Cell Metabolism</i> , 2015, 21, 428-442.	7.2	95
69	Destabilization of microRNAs in human cells by 3' deadenylation mediated by PARN and CUGBP1. <i>Nucleic Acids Research</i> , 2015, 43, 7521-7534.	6.5	74
70	Biochemical and Transcriptome-Wide Identification of A-to-I RNA Editing Sites by ICE-Seq. <i>Methods in Enzymology</i> , 2015, 560, 331-353.	0.4	3
71	Ribosomal <i>RNA</i> methyltransferases contribute to <i>Staphylococcus Aureus</i> virulence. <i>FEBS Journal</i> , 2015, 282, 2570-2584.	2.2	36
72	Defining fundamental steps in the assembly of the Drosophila RNAi enzyme complex. <i>Nature</i> , 2015, 521, 533-536.	13.7	115

#	ARTICLE	IF	CITATIONS
73	Transcriptome-wide identification of adenosine-to-inosine editing using the ICE-seq method. <i>Nature Protocols</i> , 2015, 10, 715-732.	5.5	67
74	Single methylation of 23S rRNA triggers late steps of 50S ribosomal subunit assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4707-16.	3.3	52
75	5-Hydroxymethylcytosine Plays a Critical Role in Glioblastomagenesis by Recruiting the CHTOP-Methylosome Complex. <i>Cell Reports</i> , 2014, 9, 48-60.	2.9	122
76	Convergent evolution of AUA decoding in bacteria and archaea. <i>RNA Biology</i> , 2014, 11, 1586-1596.	1.5	24
77	Human NAT10 Is an ATP-dependent RNA Acetyltransferase Responsible for N4-Acetylcytidine Formation in 18 S Ribosomal RNA (rRNA). <i>Journal of Biological Chemistry</i> , 2014, 289, 35724-35730.	1.6	159
78	A complete landscape of post-transcriptional modifications in mammalian mitochondrial tRNAs. <i>Nucleic Acids Research</i> , 2014, 42, 7346-7357.	6.5	247
79	Biochemical and Mass Spectrometric Analysis of 3'-End Methylation of piRNAs. <i>Methods in Molecular Biology</i> , 2014, 1093, 59-72.	0.4	1
80	A biochemical landscape of A-to-I RNA editing in the human brain transcriptome. <i>Genome Research</i> , 2014, 24, 522-534.	2.4	121
81	Discovery of the Î ² -barrel-type RNA methyltransferase responsible for N ⁶ -methylation of N ⁶ -threonylcarbamoyladenosine in tRNAs. <i>Nucleic Acids Research</i> , 2014, 42, 9350-9365.	6.5	42
82	A Single Acetylation of 18 S rRNA Is Essential for Biogenesis of the Small Ribosomal Subunit in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 26201-26212.	1.6	76
83	Structural Dynamics of a Mitochondrial tRNA Possessing Weak Thermodynamic Stability. <i>Biochemistry</i> , 2014, 53, 1456-1465.	1.2	9
84	Quantitative PCR Measurement of tRNA 2-Methylthio Modification for Assessing Type 2 Diabetes Risk. <i>Clinical Chemistry</i> , 2013, 59, 1604-1612.	1.5	24
85	A cyclic form of N6-threonylcarbamoyladenosine as a widely distributed tRNA hypermodification. <i>Nature Chemical Biology</i> , 2013, 9, 105-111.	3.9	147
86	Distinct tRNA modifications in the thermoacidophilic archaeon, <i>Thermoplasma acidophilum</i> . <i>FEBS Letters</i> , 2013, 587, 3575-3580.	1.3	30
87	Poly(A)-Specific Ribonuclease Mediates 3'-End Trimming of Argonaute2-Cleaved Precursor MicroRNAs. <i>Cell Reports</i> , 2013, 5, 715-726.	2.9	131
88	Decoding system for the AUA codon by tRNA Ile with the UAU anticodon in <i>Mycoplasma mobile</i> . <i>Nucleic Acids Research</i> , 2013, 41, 2621-2631.	6.5	36
89	Decoding Mechanism of Non-universal Genetic Codes in <i>Loligo bleekeri</i> Mitochondria. <i>Journal of Biological Chemistry</i> , 2013, 288, 7645-7652.	1.6	8
90	Crystal Structure of a Putative Methyltransferase SAV1081 from <i>Staphylococcus aureus</i> . <i>Protein and Peptide Letters</i> , 2013, 20, 530-537.	0.4	3

#	ARTICLE	IF	CITATIONS
91	Base methylations in the double-stranded RNA by a fused methyltransferase bearing unwinding activity. <i>Nucleic Acids Research</i> , 2012, 40, 4071-4085.	6.5	28
92	LRPPRC/SLIRP suppresses PNPase-mediated mRNA decay and promotes polyadenylation in human mitochondria. <i>Nucleic Acids Research</i> , 2012, 40, 8033-8047.	6.5	141
93	Loss of ribosomal RNA modification causes developmental defects in zebrafish. <i>Nucleic Acids Research</i> , 2012, 40, 391-398.	6.5	88
94	Trmt61B is a methyltransferase responsible for 1-methyladenosine at position 58 of human mitochondrial tRNAs. <i>Rna</i> , 2012, 18, 2269-2276.	1.6	145
95	Structure-Function Analysis of Human TYW2 Enzyme Required for the Biosynthesis of a Highly Modified Wybutosine (yW) Base in Phenylalanine-tRNA. <i>PLoS ONE</i> , 2012, 7, e39297.	1.1	9
96	Human Mitochondrial tRNAs: Biogenesis, Function, Structural Aspects, and Diseases. <i>Annual Review of Genetics</i> , 2011, 45, 299-329.	3.2	464
97	Human mitochondrial diseases caused by lack of taurine modification in mitochondrial tRNAs. <i>Wiley Interdisciplinary Reviews RNA</i> , 2011, 2, 376-386.	3.2	100
98	Crystallization and preliminary X-ray diffraction analysis of an archaeal tRNA-modification enzyme, TiaS, complexed with tRNA ^{Ala} and ATP. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1414-1416.	0.7	1
99	Molecular basis of dihydrouridine formation on tRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19593-19598.	3.3	58
100	Crystal structure of a novel JmjC-domain-containing protein, TYW5, involved in tRNA modification. <i>Nucleic Acids Research</i> , 2011, 39, 1576-1585.	6.5	47
101	Taurine-containing Uridine Modifications in tRNA Anticodons Are Required to Decipher Non-universal Genetic Codes in Ascidian Mitochondria. <i>Journal of Biological Chemistry</i> , 2011, 286, 35494-35498.	1.6	20
102	Actin-binding protein ABP140 is a methyltransferase for 3-methylcytidine at position 32 of tRNAs in <i>Saccharomyces cerevisiae</i> . <i>Rna</i> , 2011, 17, 1111-1119.	1.6	62
103	Structural basis for nonribosomal peptide synthesis by an aminoacyl-tRNA synthetase paralog. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3912-3917.	3.3	92
104	Retrograde nuclear import of tRNA precursors is required for modified base biogenesis in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10502-10507.	3.3	72
105	Structural basis of tRNA agmatinylation essential for AUA codon decoding. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1275-1280.	3.6	25
106	Biogenesis of 2-agmatinylycytidine catalyzed by the dual protein and RNA kinase TiaS. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1268-1274.	3.6	21
107	Biochemical Identification of A-to-I RNA Editing Sites by the Inosine Chemical Erasing (ICE) Method. <i>Methods in Molecular Biology</i> , 2011, 718, 89-99.	0.4	22
108	Deficit of tRNA ^{Lys} modification by Cdkal1 causes the development of type 2 diabetes in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 3598-3608.	3.9	212

#	ARTICLE	IF	CITATIONS
109	Discovery and characterization of tRNA ^{Ile} lysidine synthetase (TilS). FEBS Letters, 2010, 584, 272-277.	1.3	69
110	Reversible infantile respiratory chain deficiency: A clinical and molecular study. Annals of Neurology, 2010, 68, 845-854.	2.8	38
111	Inosine cyanoethylation identifies A-to-I RNA editing sites in the human transcriptome. Nature Chemical Biology, 2010, 6, 733-740.	3.9	163
112	Induced Loss of ADAR2 Engenders Slow Death of Motor Neurons from Q/R Site-Unedited GluR2. Journal of Neuroscience, 2010, 30, 11917-11925.	1.7	137
113	Profiling Sex-Specific piRNAs in Zebrafish. Genetics, 2010, 186, 1175-1185.	1.2	19
114	Expanding Role of the Jumonji C Domain as an RNA Hydroxylase. Journal of Biological Chemistry, 2010, 285, 34503-34507.	1.6	60
115	Fine-tuning of the ribosomal decoding center by conserved methyl-modifications in the Escherichia coli 16S rRNA. Nucleic Acids Research, 2010, 38, 1341-1352.	6.5	151
116	Agmatine-conjugated cytidine in a tRNA anticodon is essential for AUA decoding in archaea. Nature Chemical Biology, 2010, 6, 277-282.	3.9	127
117	Hsc70/Hsp90 Chaperone Machinery Mediates ATP-Dependent RISC Loading of Small RNA Duplexes. Molecular Cell, 2010, 39, 292-299.	4.5	404
118	Selective stabilization of mammalian microRNAs by 3' adenylation mediated by the cytoplasmic poly(A) polymerase GLD-2. Genes and Development, 2009, 23, 433-438.	2.7	378
119	Structural basis of AdoMet-dependent aminocarboxypropyl transfer reaction catalyzed by tRNA-wybutosine synthesizing enzyme, TYW2. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15616-15621.	3.3	41
120	Structural basis of tRNA modification with CO ₂ fixation and methylation by wybutosine synthesizing enzyme TYW4. Nucleic Acids Research, 2009, 37, 2910-2925.	6.5	31
121	Tertiary network in mammalian mitochondrial tRNA ^{Asp} revealed by solution probing and phylogeny. Nucleic Acids Research, 2009, 37, 6881-6895.	6.5	27
122	Aquifex aeolicus tRNA (N ₂ ,N ₂ -Guanine)-dimethyltransferase (Trm1) Catalyzes Transfer of Methyl Groups Not Only to Guanine 26 but Also to Guanine 27 in tRNA. Journal of Biological Chemistry, 2009, 284, 20467-20478.	1.6	54
123	Biogenesis of glutamyl-mt tRNA ^{Gln} in human mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16209-16214.	3.3	93
124	Mechanistic characterization of the sulfur-relay system for eukaryotic 2-thiouridine biogenesis at tRNA wobble positions. Nucleic Acids Research, 2009, 37, 1335-1352.	6.5	193
125	RNA helicase module in an acetyltransferase that modifies a specific tRNA anticodon. EMBO Journal, 2009, 28, 1362-1373.	3.5	61
126	Structural basis for translational fidelity ensured by transfer RNA lysidine synthetase. Nature, 2009, 461, 1144-1148.	13.7	56

#	ARTICLE	IF	CITATIONS
127	Chemical Synthesis and Properties of 5-Taurinomethyluridine and 5-Taurinomethyl-2-thiouridine. <i>Journal of Organic Chemistry</i> , 2009, 74, 2585-2588.	1.7	9
128	The TDRD9-MIWI2 Complex Is Essential for piRNA-Mediated Retrotransposon Silencing in the Mouse Male Germline. <i>Developmental Cell</i> , 2009, 17, 775-787.	3.1	297
129	The R336Q mutation in human mitochondrial EFTu prevents the formation of an active mt-EFTu·GTP·aa-tRNA ternary complex. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 791-795.	1.8	18
130	The Ordered Transcription of RNA Domains Is Not Essential for Ribosome Biogenesis in <i>Escherichia coli</i> . <i>Molecular Cell</i> , 2009, 34, 760-766.	4.5	33
131	The RNA acetyltransferase driven by ATP hydrolysis synthesizes N4-acetylcytidine of tRNA anticodon. <i>EMBO Journal</i> , 2008, 27, 2194-2203.	3.5	79
132	Common thiolation mechanism in the biosynthesis of tRNA thiouridine and sulphur-containing cofactors. <i>EMBO Journal</i> , 2008, 27, 3267-3278.	3.5	56
133	Polyadenylation in mammalian mitochondria: Insights from recent studies. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2008, 1779, 266-269.	0.9	36
134	Modified Uridines with C5-methylene Substituents at the First Position of the tRNA Anticodon Stabilize U·G Wobble Pairing during Decoding. <i>Journal of Biological Chemistry</i> , 2008, 283, 18801-18811.	1.6	142
135	Ribosomal RNAs are tolerant toward genetic insertions: evolutionary origin of the expansion segments. <i>Nucleic Acids Research</i> , 2008, 36, 3539-3551.	6.5	42
136	Chapter 23 Measuring mRNA Decay in Human Mitochondria. <i>Methods in Enzymology</i> , 2008, 447, 489-499.	0.4	25
137	Wobble Inosine tRNA Modification Is Essential to Cell Cycle Progression in G1/S and G2/M Transitions in Fission Yeast. <i>Journal of Biological Chemistry</i> , 2007, 282, 33459-33465.	1.6	41
138	Mass Spectrometric Identification and Characterization of RNA-Modifying Enzymes. <i>Methods in Enzymology</i> , 2007, 425, 211-229.	0.4	114
139	Specific residues at every third position of siRNA shape its efficient RNAi activity. <i>Nucleic Acids Research</i> , 2007, 35, e27.	6.5	85
140	Pimet, the <i>Drosophila</i> homolog of HEN1, mediates 2'-O-methylation of Piwi-interacting RNAs at their 3' ends. <i>Genes and Development</i> , 2007, 21, 1603-1608.	2.7	400
141	Automated parallel isolation of multiple species of non-coding RNAs by the reciprocal circulating chromatography method. <i>Nucleic Acids Research</i> , 2007, 35, e24.	6.5	74
142	Functional genetic selection of Helix 66 in <i>Escherichia coli</i> 23S rRNA identified the eukaryotic-binding sequence for ribosomal protein L2. <i>Nucleic Acids Research</i> , 2007, 35, 4018-4029.	6.5	11
143	Aminoacyl-tRNA surveillance by EF-Tu in mammalian mitochondria. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 41-42.	0.3	17
144	Structures of tRNAs with an expanded anticodon loop in the decoding center of the 30S ribosomal subunit. <i>Rna</i> , 2007, 13, 817-823.	1.6	52

#	ARTICLE	IF	CITATIONS
145	Chaplet Column Chromatography: Isolation of a Large Set of Individual RNAs in a Single Step. <i>Methods in Enzymology</i> , 2007, 425, 231-239.	0.4	55
146	Thio Modification of Yeast Cytosolic tRNA Is an Iron-Sulfur Protein-Dependent Pathway. <i>Molecular and Cellular Biology</i> , 2007, 27, 2841-2847.	1.1	66
147	Mechanism of mRNA deadenylation: evidence for a molecular interplay between translation termination factor eRF3 and mRNA deadenylases. <i>Genes and Development</i> , 2007, 21, 3135-3148.	2.7	150
148	Crystal Structure of the Radical SAM Enzyme Catalyzing Tricyclic Modified Base Formation in tRNA. <i>Journal of Molecular Biology</i> , 2007, 372, 1204-1214.	2.0	63
149	The 3' termini of mouse Piwi-interacting RNAs are 2'-O-methylated. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 349-350.	3.6	202
150	Mutation in TRMU Related to Transfer RNA Modification Modulates the Phenotypic Expression of the Deafness-Associated Mitochondrial 12S Ribosomal RNA Mutations. <i>American Journal of Human Genetics</i> , 2006, 79, 291-302.	2.6	212
151	Identification of the Residues Involved in the Unique Serine Specificity of <i>Caenorhabditis elegans</i> Mitochondrial EF-Tu. <i>Biochemistry</i> , 2006, 45, 10920-10927.	1.2	5
152	Mechanistic Insights into Sulfur Relay by Multiple Sulfur Mediators Involved in Thiouridine Biosynthesis at tRNA Wobble Positions. <i>Molecular Cell</i> , 2006, 21, 97-108.	4.5	246
153	Crystallization and preliminary X-ray analysis of the tRNA thiolation enzyme MnmA from <i>Escherichia coli</i> complexed with tRNA ^{Glu} . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 368-371.	0.7	19
154	Involvement of the <i>Escherichia coli</i> folate-binding protein YgfZ in RNA modification and regulation of chromosomal replication initiation. <i>Molecular Microbiology</i> , 2006, 59, 265-275.	1.2	34
155	Involvement of the <i>Escherichia coli</i> folate-binding protein YgfZ in RNA modification and regulation of chromosomal replication initiation. <i>Molecular Microbiology</i> , 2006, 60, 252-252.	1.2	2
156	A gene involved in modifying transfer RNA is required for fungal pathogenicity and stress tolerance of <i>Colletotrichum lagenarium</i> . <i>Molecular Microbiology</i> , 2006, 60, 81-92.	1.2	55
157	The substrate specificity of tRNA (m1G37) methyltransferase (TrmD) from <i>Aquifex aeolicus</i> . <i>Genes To Cells</i> , 2006, 11, 1353-1365.	0.5	38
158	Snapshots of tRNA sulphuration via an adenylated intermediate. <i>Nature</i> , 2006, 442, 419-424.	13.7	123
159	Biosynthesis of wybutosine, a hyper-modified nucleoside in eukaryotic phenylalanine tRNA. <i>EMBO Journal</i> , 2006, 25, 2142-2154.	3.5	188
160	Structural Basis for Sulfur Relay to RNA Mediated by Heterohexameric TusBCD Complex. <i>Structure</i> , 2006, 14, 357-366.	1.6	44
161	Ribonucleome analysis identified enzyme genes responsible for wybutosine synthesis. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 65-66.	0.3	16
162	Systematic deletion of rRNAs for investigating ribosome architecture and function. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 287-288.	0.3	1

#	ARTICLE	IF	CITATIONS
163	Acquisition of the wobble modification in mitochondrial tRNA ^{Leu} (CUN) bearing the G12300A mutation suppresses the MELAS molecular defect. <i>Human Molecular Genetics</i> , 2006, 15, 897-904.	1.4	36
164	Comprehensive genetic selection revealed essential bases in the peptidyl-transferase center. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15386-15391.	3.3	68
165	Temperature-dependent Biosynthesis of 2-Thioribothymidine of <i>Thermus thermophilus</i> tRNA. <i>Journal of Biological Chemistry</i> , 2006, 281, 2104-2113.	1.6	71
166	Identification of Two tRNA Thiolation Genes Required for Cell Growth at Extremely High Temperatures. <i>Journal of Biological Chemistry</i> , 2006, 281, 14296-14306.	1.6	69
167	Conserved Loop Sequence of Helix 69 in <i>Escherichia coli</i> 23 S rRNA Is Involved in A-site tRNA Binding and Translational Fidelity. <i>Journal of Biological Chemistry</i> , 2006, 281, 17203-17211.	1.6	62
168	The A-site Finger in 23 S rRNA Acts as a Functional Attenuator for Translocation. <i>Journal of Biological Chemistry</i> , 2006, 281, 32303-32309.	1.6	61
169	Dual-mode recognition of noncanonical tRNA ^{Ser} by seryl-tRNA synthetase in mammalian mitochondria. <i>EMBO Journal</i> , 2005, 24, 3369-3379.	3.5	88
170	Human Mitochondrial Diseases Associated with tRNA Wobble Modification Deficiency. <i>RNA Biology</i> , 2005, 2, 41-44.	1.5	70
171	Human Mitochondrial mRNAs Are Stabilized with Polyadenylation Regulated by Mitochondria-specific Poly(A) Polymerase and Polynucleotide Phosphorylase. <i>Journal of Biological Chemistry</i> , 2005, 280, 19721-19727.	1.6	162
172	Specific correlation between the wobble modification deficiency in mutant tRNAs and the clinical features of a human mitochondrial disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7127-7132.	3.3	147
173	Structural basis for lysidine formation by ATP pyrophosphatase accompanied by a lysine-specific loop and a tRNA-recognition domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7487-7492.	3.3	47
174	Mitochondria-specific RNA-modifying Enzymes Responsible for the Biosynthesis of the Wobble Base in Mitochondrial tRNAs. <i>Journal of Biological Chemistry</i> , 2005, 280, 1613-1624.	1.6	192
175	Molecular Mechanism of Lysidine Synthesis that Determines tRNA Identity and Codon Recognition. <i>Molecular Cell</i> , 2005, 19, 235-246.	4.5	69
176	Unusual usage of wobble modifications in mitochondrial tRNAs of the nematode <i>Ascaris suum</i> . <i>FEBS Letters</i> , 2005, 579, 2767-2772.	1.3	23
177	Wobble modification deficiency in mutant tRNAs in patients with mitochondrial diseases. <i>FEBS Letters</i> , 2005, 579, 2948-2952.	1.3	68
178	Antibiotic susceptibility of mammalian mitochondrial translation. <i>FEBS Letters</i> , 2005, 579, 6423-6427.	1.3	70
179	Recombinant antigen-based immuno-slot blot method for serodiagnosis of syphilis. <i>Brazilian Journal of Medical and Biological Research</i> , 2004, 37, 949-955.	0.7	7
180	Variable penetrance of a familial progressive necrotising encephalopathy due to a novel tRNA ^{Ile} homoplasmic mutation in the mitochondrial genome. <i>Journal of Medical Genetics</i> , 2004, 41, 342-349.	1.5	39

#	ARTICLE	IF	CITATIONS
181	Substrate tRNA Recognition Mechanism of tRNA (m7G46) Methyltransferase from <i>Aquifex aeolicus</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 49151-49159.	1.6	60
182	Codon-specific translational defect caused by a wobble modification deficiency in mutant tRNA from a human mitochondrial disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15070-15075.	3.3	254
183	Yeast Nfs1p Is Involved in Thio-modification of Both Mitochondrial and Cytoplasmic tRNAs. <i>Journal of Biological Chemistry</i> , 2004, 279, 12363-12368.	1.6	110
184	The pathogenic A4269G mutation in human mitochondrial tRNA ^{Ala} alters the T-stem structure and decreases the binding affinity for elongation factor Tu. <i>Genes To Cells</i> , 2004, 9, 243-252.	0.5	17
185	Crystallization and preliminary X-ray diffraction study of mammalian mitochondrial seryl-tRNA synthetase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1319-1322.	2.5	6
186	Functional Compatibility of Elongation Factors Between Mammalian Mitochondrial and Bacterial Ribosomes: Characterization of GTPase Activity and Translation Elongation by Hybrid Ribosomes Bearing Heterologous L7/12 Proteins. <i>Journal of Molecular Biology</i> , 2004, 336, 331-342.	2.0	24
187	Wobble modification differences and subcellular localization of tRNAs in <i>Leishmania tarentolae</i> : implication for tRNA sorting mechanism. <i>EMBO Journal</i> , 2003, 22, 657-667.	3.5	106
188	S-Peptide as a Potent Peptidyl Linker for Protein Cross-Linking by Microbial Transglutaminase from <i>Streptomyces mobaraensis</i> . <i>Bioconjugate Chemistry</i> , 2003, 14, 351-357.	1.8	50
189	An RNA-Modifying Enzyme that Governs Both the Codon and Amino Acid Specificities of Isoleucine tRNA. <i>Molecular Cell</i> , 2003, 12, 689-698.	4.5	182
190	Simple and rapid synthesis of siRNA derived from in vitro transcribed shRNA. <i>Nucleic Acids Symposium Series</i> , 2003, 3, 249-250.	0.3	15
191	A Novel Screening System for Self-mRNA Targeting Proteins. <i>Journal of Biochemistry</i> , 2003, 133, 485-491.	0.9	8
192	Quick two-step RNA ligation employing periodate oxidation. <i>Nucleic Acids Research</i> , 2003, 31, 145e-145.	6.5	18
193	Decreased CCA-addition in Human Mitochondrial tRNAs Bearing a Pathogenic A4317G or A10044G Mutation. <i>Journal of Biological Chemistry</i> , 2003, 278, 16828-16833.	1.6	32
194	Conserved Bases in the TΨC Loop of tRNA Are Determinants for Thermophile-specific 2-Thiouridylation at Position 54. <i>Journal of Biological Chemistry</i> , 2002, 277, 39128-39135.	1.6	50
195	Chemical synthesis of novel taurine-containing uridine derivatives. <i>Nucleic Acids Symposium Series</i> , 2002, 2, 11-12.	0.3	8
196	The 7472insC Mitochondrial DNA Mutation Impairs the Synthesis and Extent of Aminoacylation of tRNA ^{Ser} (UCN) but Not Its Structure or Rate of Turnover. <i>Journal of Biological Chemistry</i> , 2002, 277, 22240-22250.	1.6	47
197	U2 Small Nuclear RNA Is a Substrate for the CCA-adding Enzyme (tRNA Nucleotidyltransferase). <i>Journal of Biological Chemistry</i> , 2002, 277, 3447-3455.	1.6	27
198	Wobble modification defect suppresses translational activity of tRNAs with MERRF and MELAS mutations. <i>Mitochondrion</i> , 2002, 2, 129-141.	1.6	14

#	ARTICLE	IF	CITATIONS
199	Identification and characterization of tRNA (Gm18) methyltransferase from <i>Thermus thermophilus</i> HB8: domain structure and conserved amino acid sequence motifs. <i>Genes To Cells</i> , 2002, 7, 259-272.	0.5	53
200	Taurine as a constituent of mitochondrial tRNAs: new insights into the functions of taurine and human mitochondrial diseases. <i>EMBO Journal</i> , 2002, 21, 6581-6589.	3.5	332
201	Structural and Functional Compensation by Proteins for the RNA Deficit of Animal Mitochondrial Translation Systems. , 2002, , 183-196.		0
202	The Human Mitochondrial Ribosomal Protein Genes: Mapping of 54 Genes to the Chromosomes and Implications for Human Disorders. <i>Genomics</i> , 2001, 77, 65-70.	1.3	100
203	Genetic Code Variations in Mitochondria: tRNA as a Major Determinant of Genetic Code Plasticity. <i>Journal of Molecular Evolution</i> , 2001, 53, 314-326.	0.8	64
204	Translation ability of mitochondrial tRNAs ^{Ser} with unusual secondary structures in an <i>in vitro</i> translation system of bovine mitochondria. <i>Genes To Cells</i> , 2001, 6, 1019-1030.	0.5	48
205	Wobble modification defect in tRNA disturbs codon-anticodon interaction in a mitochondrial disease. <i>EMBO Journal</i> , 2001, 20, 4794-4802.	3.5	202
206	Cell-free translation reconstituted with purified components. <i>Nature Biotechnology</i> , 2001, 19, 751-755.	9.4	1,647
207	Proteomic Analysis of the Mammalian Mitochondrial Ribosome. <i>Journal of Biological Chemistry</i> , 2001, 276, 33181-33195.	1.6	131
208	Identification and Characterization of Mammalian Mitochondrial tRNA nucleotidyltransferases. <i>Journal of Biological Chemistry</i> , 2001, 276, 40041-40049.	1.6	100
209	Structural Compensation for the Deficit of rRNA with Proteins in the Mammalian Mitochondrial Ribosome. <i>Journal of Biological Chemistry</i> , 2001, 276, 21724-21736.	1.6	105
210	Dual Mode Recognition of Two Isoacceptor tRNAs by Mammalian Mitochondrial Seryl-tRNA Synthetase. <i>Journal of Biological Chemistry</i> , 2001, 276, 46770-46778.	1.6	50
211	The role of tightly bound ATP in <i>Escherichia coli</i> tRNA nucleotidyltransferase. <i>Genes To Cells</i> , 2000, 5, 689-698.	0.5	22
212	Characterization and tRNA Recognition of Mammalian Mitochondrial Seryl-tRNA Synthetase. <i>Journal of Biological Chemistry</i> , 2000, 275, 19913-19920.	1.6	45
213	A pathogenic point mutation reduces stability of mitochondrial mutant tRNA ^{Ala} . <i>Nucleic Acids Research</i> , 2000, 28, 3779-3784.	6.5	46
214	Modification Defect at Anticodon Wobble Nucleotide of Mitochondrial tRNAs ^{Leu} (UUR) with Pathogenic Mutations of Mitochondrial Myopathy, Encephalopathy, Lactic Acidosis, and Stroke-like Episodes. <i>Journal of Biological Chemistry</i> , 2000, 275, 4251-4257.	1.6	232
215	Proteolytic fragmentation of polypeptide release factor 1 of <i>Thermus thermophilus</i> and crystallization of the stable fragments. <i>Biochimie</i> , 2000, 82, 765-772.	1.3	10
216	Defect in modification at the anticodon wobble nucleotide of mitochondrial tRNA ^{Lys} with the MERRF encephalomyopathy pathogenic mutation. <i>FEBS Letters</i> , 2000, 467, 175-178.	1.3	117

#	ARTICLE	IF	CITATIONS
217	An extra tRNA ^{Gly} (U*CU) found in ascidian mitochondria responsible for decoding non-universal codons AGA/AGG as glycine. <i>Nucleic Acids Research</i> , 1999, 27, 2554-2559.	6.5	36
218	High Sensitive Analysis of Modified Nucleosides by LC/MS Using ESI/Iontrap Mass Spectrometry.. <i>Journal of the Mass Spectrometry Society of Japan</i> , 1999, 47, 168-176.	0.0	3
219	The 'polysemous' codon_a codon with multiple amino acid assignment caused by dual specificity of tRNA identity. <i>EMBO Journal</i> , 1997, 16, 1122-1134.	3.5	126
220	A new method for identifying the amino acid attached to a particular RNA in the cell. <i>FEBS Letters</i> , 1996, 381, 195-198.	1.3	17
221	vacC, a virulence-associated chromosomal locus of <i>Shigella flexneri</i> , is homologous to <i>tgt</i> , a gene encoding tRNA-guanine transglycosylase (Tgt) of <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1994, 176, 4627-4634.	1.0	137
222	Characterization of serine and leucine tRNAs in an asporogenic yeast <i>Candida cylindracea</i> and evolutionary implications of genes for tRNA ^{Ser} CAG responsible for translation of a non-universal genetic code. <i>Nucleic Acids Research</i> , 1994, 22, 115-123.	6.5	35
223	Unique structure of new serine tRNAs responsible for decoding leucine codon CUG in various <i>Candida</i> species and their putative ancestral tRNA genes. <i>Biochimie</i> , 1994, 76, 1217-1222.	1.3	32
224	The gene for serine tRNA having anticodon sequence CAG in a pathogenic yeast, <i>Candida albicans</i> . <i>Nucleic Acids Research</i> , 1993, 21, 356-356.	6.5	12
225	Non-universal decoding of the leucine codon CUG in several <i>Candida</i> species. <i>Nucleic Acids Research</i> , 1993, 21, 4039-4045.	6.5	173
226	Molecular Mechanism of the Genetic Code Variations Found in <i>Candida</i> Species and its Implications in Evolution of the Genetic Code. , 1993, , 647-656.		1
227	Serine tRNA complementary to the nonuniversal serine codon CUG in <i>Candida cylindracea</i> : evolutionary implications.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 7408-7411.	3.3	67
228	Biosynthesis and function of tRNA wobble modifications. <i>Topics in Current Genetics</i> , 0, , 23-69.	0.7	62
229	Mass spectrometric analysis of 3' terminal nucleosides of non-coding RNAs. <i>Protocol Exchange</i> , 0, , .	0.3	2