

Tsutomu Suzuki

List of Publications by Year in descending order

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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	Cell-free translation reconstituted with purified components. <i>Nature Biotechnology</i> , 2001, 19, 751-755.	9.4	1,647
2	Human Mitochondrial tRNAs: Biogenesis, Function, Structural Aspects, and Diseases. <i>Annual Review of Genetics</i> , 2011, 45, 299-329.	3.2	464
3	Hsc70/Hsp90 Chaperone Machinery Mediates ATP-Dependent RISC Loading of Small RNA Duplexes. <i>Molecular Cell</i> , 2010, 39, 292-299.	4.5	404
4	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
5	Selective stabilization of mammalian microRNAs by 3' adenylation mediated by the cytoplasmic poly(A) polymerase GLD-2. <i>Genes and Development</i> , 2009, 23, 433-438.	2.7	378
6	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
7	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
8	The expanding world of tRNA modifications and their disease relevance. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 375-392.	16.1	282
9	Cap-specific terminal N ⁶ -methylation of RNA by an RNA polymerase II-associated methyltransferase. <i>Science</i> , 2019, 363, .	6.0	262
10	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
11	A complete landscape of post-transcriptional modifications in mammalian mitochondrial tRNAs. <i>Nucleic Acids Research</i> , 2014, 42, 7346-7357.	6.5	247
12	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
13	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
14	A Comprehensive Genomic Analysis Reveals the Genetic Landscape of Mitochondrial Respiratory Chain Complex Deficiencies. <i>PLoS Genetics</i> , 2016, 12, e1005679.	1.5	236
15	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
16	RNA modifications: what have we learned and where are we headed?. <i>Nature Reviews Genetics</i> , 2016, 17, 365-372.	7.7	215
17	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
18	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

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19	Wobble modification defect in tRNA disturbs codon-anticodon interaction in a mitochondrial disease. <i>EMBO Journal</i> , 2001, 20, 4794-4802.	3.5	202
20	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
21	Mechanistic characterization of the sulfur-relay system for eukaryotic 2-thiouridine biogenesis at tRNA wobble positions. <i>Nucleic Acids Research</i> , 2009, 37, 1335-1352.	6.5	193
22	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
23	Biosynthesis of wybutosine, a hyper-modified nucleoside in eukaryotic phenylalanine tRNA. <i>EMBO Journal</i> , 2006, 25, 2142-2154.	3.5	188
24	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
25	ALKBH1 is an RNA dioxygenase responsible for cytoplasmic and mitochondrial tRNA modifications. <i>Nucleic Acids Research</i> , 2017, 45, 7401-7415.	6.5	180
26	NSUN3 methylase initiates 5-formylcytidine biogenesis in human mitochondrial tRNA ^{Met} . <i>Nature Chemical Biology</i> , 2016, 12, 546-551.	3.9	174
27	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
28	Inosine cyanoethylation identifies A-to-I RNA editing sites in the human transcriptome. <i>Nature Chemical Biology</i> , 2010, 6, 733-740.	3.9	163
29	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
30	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
31	Identification and Functional Analysis of the Pre-piRNA 3' Trimmer in Silkworms. <i>Cell</i> , 2016, 164, 962-973.	13.5	159
32	Fine-tuning of the ribosomal decoding center by conserved methyl-modifications in the <i>Escherichia coli</i> 16S rRNA. <i>Nucleic Acids Research</i> , 2010, 38, 1341-1352.	6.5	151
33	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
34	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
35	A cyclic form of N6-threonylcarbamoyladenine as a widely distributed tRNA hypermodification. <i>Nature Chemical Biology</i> , 2013, 9, 105-111.	3.9	147
36	Trmt61B is a methyltransferase responsible for 1-methyladenine at position 58 of human mitochondrial tRNAs. <i>Rna</i> , 2012, 18, 2269-2276.	1.6	145

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37	Complete chemical structures of human mitochondrial tRNAs. <i>Nature Communications</i> , 2020, 11, 4269.	5.8	144
38	Modified Uridines with C5-methylene Substituents at the First Position of the tRNA Anticodon Stabilize U \bar{A} -G Wobble Pairing during Decoding. <i>Journal of Biological Chemistry</i> , 2008, 283, 18801-18811.	1.6	142
39	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
40	vacC, a virulence-associated chromosomal locus of <i>Shigella flexneri</i> , is homologous to tgt, 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
41	Induced Loss of ADAR2 Engenders Slow Death of Motor Neurons from Q/R Site-Unedited GluR2. <i>Journal of Neuroscience</i> , 2010, 30, 11917-11925.	1.7	137
42	Proteomic Analysis of the Mammalian Mitochondrial Ribosome. <i>Journal of Biological Chemistry</i> , 2001, 276, 33181-33195.	1.6	131
43	Poly(A)-Specific Ribonuclease Mediates 3 \hat{e} 2-End Trimming of Argonaute2-Cleaved Precursor MicroRNAs. <i>Cell Reports</i> , 2013, 5, 715-726.	2.9	131
44	Agmatine-conjugated cytidine in a tRNA anticodon is essential for AUA decoding in archaea. <i>Nature Chemical Biology</i> , 2010, 6, 277-282.	3.9	127
45	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
46	Snapshots of tRNA sulphuration via an adenylated intermediate. <i>Nature</i> , 2006, 442, 419-424.	13.7	123
47	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
48	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
49	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
50	Defining fundamental steps in the assembly of the <i>Drosophila</i> RNAi enzyme complex. <i>Nature</i> , 2015, 521, 533-536.	13.7	115
51	Mass Spectrometric Identification and Characterization of RNA-Modifying Enzymes. <i>Methods in Enzymology</i> , 2007, 425, 211-229.	0.4	114
52	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
53	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
54	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

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55	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
56	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
57	Identification and Characterization of Mammalian Mitochondrial tRNA nucleotidyltransferases. <i>Journal of Biological Chemistry</i> , 2001, 276, 40041-40049.	1.6	100
58	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
59	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
60	Mitochondrial 16S rRNA Is Methylated by tRNA Methyltransferase TRMT61B in All Vertebrates. <i>PLoS Biology</i> , 2016, 14, e1002557.	2.6	95
61	Biogenesis of glutamyl-mt tRNA ^{Gln} in human mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16209-16214.	3.3	93
62	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
63	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
64	Dual-mode recognition of noncanonical tRNAs ^{Ser} by seryl-tRNA synthetase in mammalian mitochondria. <i>EMBO Journal</i> , 2005, 24, 3369-3379.	3.5	88
65	Loss of ribosomal RNA modification causes developmental defects in zebrafish. <i>Nucleic Acids Research</i> , 2012, 40, 391-398.	6.5	88
66	CO ₂ -sensitive tRNA modification associated with human mitochondrial disease. <i>Nature Communications</i> , 2018, 9, 1875.	5.8	87
67	Specific residues at every third position of siRNA shape its efficient RNAi activity. <i>Nucleic Acids Research</i> , 2007, 35, e27.	6.5	85
68	Defective Mitochondrial tRNA Taurine Modification Activates Global Proteostress and Leads to Mitochondrial Disease. <i>Cell Reports</i> , 2018, 22, 482-496.	2.9	84
69	The RNA acetyltransferase driven by ATP hydrolysis synthesizes N ⁴ -acetylcytidine of tRNA anticodon. <i>EMBO Journal</i> , 2008, 27, 2194-2203.	3.5	79
70	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
71	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
72	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

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73	Retrograde nuclear import of tRNA precursors is required for modified base biogenesis in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10502-10507.	3.3	72
74	Temperature-dependent Biosynthesis of 2-Thioribothymidine of <i>Thermus thermophilus</i> tRNA. Journal of Biological Chemistry, 2006, 281, 2104-2113.	1.6	71
75	Human Mitochondrial Diseases Associated with tRNA Wobble Modification Deficiency. RNA Biology, 2005, 2, 41-44.	1.5	70
76	Antibiotic susceptibility of mammalian mitochondrial translation. FEBS Letters, 2005, 579, 6423-6427.	1.3	70
77	Molecular Mechanism of Lysidine Synthesis that Determines tRNA Identity and Codon Recognition. Molecular Cell, 2005, 19, 235-246.	4.5	69
78	Identification of Two tRNA Thiolation Genes Required for Cell Growth at Extremely High Temperatures. Journal of Biological Chemistry, 2006, 281, 14296-14306.	1.6	69
79	Discovery and characterization of tRNA ^{Ile} lysidine synthetase (TilS). FEBS Letters, 2010, 584, 272-277.	1.3	69
80	Wobble modification deficiency in mutant tRNAs in patients with mitochondrial diseases. FEBS Letters, 2005, 579, 2948-2952.	1.3	68
81	Comprehensive genetic selection revealed essential bases in the peptidyl-transferase center. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15386-15391.	3.3	68
82	Intrinsic Ribosome Destabilization Underlies Translation and Provides an Organism with a Strategy of Environmental Sensing. Molecular Cell, 2017, 68, 528-539.e5.	4.5	68
83	Serine tRNA complementary to the nonuniversal serine codon CUG in <i>Candida cylindracea</i> : evolutionary implications. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 7408-7411.	3.3	67
84	Transcriptome-wide identification of adenosine-to-inosine editing using the ICE-seq method. Nature Protocols, 2015, 10, 715-732.	5.5	67
85	Thio Modification of Yeast Cytosolic tRNA Is an Iron-Sulfur Protein-Dependent Pathway. Molecular and Cellular Biology, 2007, 27, 2841-2847.	1.1	66
86	Genetic Code Variations in Mitochondria: tRNA as a Major Determinant of Genetic Code Plasticity. Journal of Molecular Evolution, 2001, 53, 314-326.	0.8	64
87	Crystal Structure of the Radical SAM Enzyme Catalyzing Tricyclic Modified Base Formation in tRNA. Journal of Molecular Biology, 2007, 372, 1204-1214.	2.0	63
88	Biosynthesis and function of tRNA wobble modifications. Topics in Current Genetics, 0, , 23-69.	0.7	62
89	Conserved Loop Sequence of Helix 69 in <i>Escherichia coli</i> 23 S rRNA Is Involved in A-site tRNA Binding and Translational Fidelity. Journal of Biological Chemistry, 2006, 281, 17203-17211.	1.6	62
90	Actin-binding protein ABP140 is a methyltransferase for 3-methylcytidine at position 32 of tRNAs in <i>Saccharomyces cerevisiae</i> . Rna, 2011, 17, 1111-1119.	1.6	62

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91	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
92	RNA helicase module in an acetyltransferase that modifies a specific tRNA anticodon. <i>EMBO Journal</i> , 2009, 28, 1362-1373.	3.5	61
93	Nucleoside Analysis by Hydrophilic Interaction Liquid Chromatography Coupled with Mass Spectrometry. <i>Methods in Enzymology</i> , 2015, 560, 19-28.	0.4	61
94	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
95	Expanding Role of the Jumonji C Domain as an RNA Hydroxylase. <i>Journal of Biological Chemistry</i> , 2010, 285, 34503-34507.	1.6	60
96	Mammalian NSUN2 introduces 5-methylcytidines into mitochondrial tRNAs. <i>Nucleic Acids Research</i> , 2019, 47, 8734-8745.	6.5	60
97	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
98	Common thiolation mechanism in the biosynthesis of tRNA thiouridine and sulphur-containing cofactors. <i>EMBO Journal</i> , 2008, 27, 3267-3278.	3.5	56
99	Structural basis for translational fidelity ensured by transfer RNA lysidine synthetase. <i>Nature</i> , 2009, 461, 1144-1148.	13.7	56
100	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
101	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
102	<i>Aquifex aeolicus</i> tRNA (N2,N2-Guanine)-dimethyltransferase (Trm1) Catalyzes Transfer of Methyl Groups Not Only to Guanine 26 but Also to Guanine 27 in tRNA. <i>Journal of Biological Chemistry</i> , 2009, 284, 20467-20478.	1.6	54
103	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
104	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
105	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
106	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
107	Precursors of tRNAs are stabilized by methylguanosine cap structures. <i>Nature Chemical Biology</i> , 2016, 12, 648-655.	3.9	52
108	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

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109	Conserved Bases in the T ^Ψ C 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
110	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
111	Biogenesis and growth phase-dependent alteration of 5-methoxycarbonylmethoxyuridine in tRNA anticodons. <i>Nucleic Acids Research</i> , 2016, 44, 509-523.	6.5	49
112	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
113	Identification of 2-methylthio cyclic N ⁶ -threonylcarbamoyladenosine (ms2ct6A) as a novel RNA modification at position 37 of tRNAs. <i>Nucleic Acids Research</i> , 2017, 45, 2124-2136.	6.5	48
114	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
115	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
116	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
117	A pathogenic point mutation reduces stability of mitochondrial mutant tRNA ^{Ala} . <i>Nucleic Acids Research</i> , 2000, 28, 3779-3784.	6.5	46
118	Characterization and tRNA Recognition of Mammalian Mitochondrial Seryl-tRNA Synthetase. <i>Journal of Biological Chemistry</i> , 2000, 275, 19913-19920.	1.6	45
119	Structural Basis for Sulfur Relay to RNA Mediated by Heterohexameric TusBCD Complex. <i>Structure</i> , 2006, 14, 357-366.	1.6	44
120	Iron- ²⁺ sulfur proteins responsible for RNA modifications. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1272-1283.	1.9	44
121	Acetate-dependent tRNA acetylation required for decoding fidelity in protein synthesis. <i>Nature Chemical Biology</i> , 2018, 14, 1010-1020.	3.9	43
122	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
123	Discovery of the T ^Ψ -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
124	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
125	Structural basis of AdoMet-dependent aminocarboxypyl transfer reaction catalyzed by tRNA-wybutosine synthesizing enzyme, TYW2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15616-15621.	3.3	41
126	A hydantoin isoform of cyclic N ⁶ -threonylcarbamoyladenosine (ct6A) is present in tRNAs. <i>Nucleic Acids Research</i> , 2017, 45, 2137-2149.	6.5	40

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127	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
128	Biogenesis and functions of aminocarboxypyrrolysine in tRNA. <i>Nature Communications</i> , 2019, 10, 5542.	5.8	39
129	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
130	Reversible infantile respiratory chain deficiency: A clinical and molecular study. <i>Annals of Neurology</i> , 2010, 68, 845-854.	2.8	38
131	Dual pathways of tRNA hydroxylation ensure efficient translation by expanding decoding capability. <i>Nature Communications</i> , 2019, 10, 2858.	5.8	38
132	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
133	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
134	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
135	Acquisition of the wobble modification in mitochondrial tRNA ^{Leu} (CLN) bearing the G12300A mutation suppresses the MELAS molecular defect. <i>Human Molecular Genetics</i> , 2006, 15, 897-904.	1.4	36
136	Polyadenylation in mammalian mitochondria: Insights from recent studies. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2008, 1779, 266-269.	0.9	36
137	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
138	Ribosomal tRNA methyltransferases contribute to <i>Staphylococcus aureus</i> virulence. <i>FEBS Journal</i> , 2015, 282, 2570-2584.	2.2	36
139	m ⁶ A modification of HSATIII lncRNAs regulates temperature-dependent splicing. <i>EMBO Journal</i> , 2021, 40, e107976.	3.5	36
140	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
141	Accurate estimation of 5-methylcytosine in mammalian mitochondrial DNA. <i>Scientific Reports</i> , 2018, 8, 5801.	1.6	35
142	Reversible RNA phosphorylation stabilizes tRNA for cellular thermotolerance. <i>Nature</i> , 2022, 605, 372-379.	18.7	35
143	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
144	Biogenesis and iron-dependency of ribosomal RNA hydroxylation. <i>Nucleic Acids Research</i> , 2017, 45, 12974-12986.	6.5	34

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145	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
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