Thomas R Cech

List of Publications by Year
in descending order

250 papers	38,940 citations	2538 96 h-index	2940 189 g-index
266 all docs	266 docs citations	266 times ranked	22006 citing authors

#	Article	IF	Citations
1	Telomerase Catalytic Subunit Homologs from Fission Yeast and Human. Science, 1997, 277, 955-959.	6.0	2,138
2	Self-splicing RNA: Autoexcision and autocyclization of the ribosomal RNA intervening sequence of tetrahymena. Cell, 1982, 31, 147-157.	13.5	2,078
3	The Noncoding RNA Revolutionâ€"Trashing Old Rules to Forge New Ones. Cell, 2014, 157, 77-94.	13.5	2,001
4	Monovalent cation-induced structure of telomeric DNA: The G-quartet model. Cell, 1989, 59, 871-880.	13.5	1,198
5	Reverse Transcriptase Motifs in the Catalytic Subunit of Telomerase. Science, 1997, 276, 561-567.	6.0	1,172
6	Inhibition of telomerase by G-quartet DMA structures. Nature, 1991, 350, 718-720.	13.7	1,080
7	Pot1, the Putative Telomere End-Binding Protein in Fission Yeast and Humans. Science, 2001, 292, 1171-1175.	6.0	923
8	Self-Splicing of Group I Introns. Annual Review of Biochemistry, 1990, 59, 543-568.	5.0	866
9	In vitro splicing of the ribosomal RNA precursor of tetrahymena: Involvement of a guanosine nucleotide in the excision of the intervening sequence. Cell, 1981, 27, 487-496.	13.5	846
10	The chemical repertoire of natural ribozymes. Nature, 2002, 418, 222-228.	13.7	656
11	The POT1â€"TPP1 telomere complex is a telomerase processivity factor. Nature, 2007, 445, 506-510.	13.7	609
12	How do lncRNAs regulate transcription?. Science Advances, 2017, 3, eaao2110.	4.7	542
13	RNA Duplex Map in Living Cells Reveals Higher-Order Transcriptome Structure. Cell, 2016, 165, 1267-1279.	13.5	520
14	The generality of self-splicing RNA: Relationship to nuclear mRNA splicing. Cell, 1986, 44, 207-210.	13.5	493
15	Regulation of telomere length and function by a Myb-domain protein in fission yeast. Nature, 1997, 385, 744-747.	13.7	484
16	Conserved sequences and structures of group I introns: building an active site for RNA catalysis â€" a review. Gene, 1988, 73, 259-271.	1.0	467
17	Structure of human POT1 bound to telomeric single-stranded DNA provides a model for chromosome end-protection. Nature Structural and Molecular Biology, 2004, 11, 1223-1229.	3.6	413
18	Promiscuous RNA binding by Polycomb repressive complex 2. Nature Structural and Molecular Biology, 2013, 20, 1250-1257.	3.6	404

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19	Metal ion catalysis in the Tetrahymena ribozyme reaction. Nature, 1993, 361, 85-88.	13.7	403
20	Beginning to Understand the End of the Chromosome. Cell, 2004, 116, 273-279.	13.5	400
21	Human POT1 disrupts telomeric G-quadruplexes allowing telomerase extension in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10864-10869.	3.3	351
22	Catalysis of RNA cleavage by the Tetrahymena thermophila ribozyme. 1. Kinetic description of the reaction of an RNA substrate complementary to the active site. Biochemistry, 1990, 29, 10159-10171.	1.2	329
23	STRUCTURAL BIOLOGY: Enhanced: The Ribosome Is a Ribozyme. Science, 2000, 289, 878-879.	6.0	328
24	Finding the end: recruitment of telomerase to telomeres. Nature Reviews Molecular Cell Biology, 2013, 14, 69-82.	16.1	326
25	A Preorganized Active Site in the Crystal Structure of the Tetrahymena Ribozyme. , 1998, 282, 259-264.		300
26	Reversing Time: Origin of Telomerase. Cell, 1998, 92, 587-590.	13.5	298
27	The TEL patch of telomere protein TPP1 mediates telomerase recruitment and processivity. Nature, 2012, 492, 285-289.	13.7	298
28	RNA Seeds Higher-Order Assembly of FUS Protein. Cell Reports, 2013, 5, 918-925.	2.9	291
29	Structural conventions for group I introns. Nucleic Acids Research, 1987, 15, 7217-7221.	6.5	290
30	The Tetrahymena ribozyme acts like an RNA restriction endonuclease. Nature, 1986, 324, 429-433.	13.7	287
31	Representation of the secondary and tertiary structure of group I introns. Nature Structural and Molecular Biology, 1994, 1, 273-280.	3.6	287
32	Autocatalytic cyclization of an excised intervening sequence RNA is a cleavageâ€“ligation reaction. Nature, 1983, 301, 578-583.	13.7	286
33	Peptide bond formation by in vitro selected ribozymes. Nature, 1997, 390, 96-100.	13.7	280
34	Specific interaction between the self-splicing RNA of Tetrahymena and its guanosine substrate: implications for biological catalysis by RNA. Nature, 1984, 308, 820-826.	13.7	278
35	The Î² subunit of Oxytricha telomere-binding protein promotes G-quartet formation by telomeric DNA. Cell, 1993, 74, 875-885.	13.5	267
36	Ribozyme-mediated repair of defective mRNA by targeted trans-splicing. Nature, 1994, 371, 619-622.	13.7	266

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37	Telomerase and the maintenance of chromosome ends. Current Opinion in Cell Biology, 1999, 11, 318-324.	2.6	263
38	Two Modes of Survival of Fission Yeast Without Telomerase. , 1998, 282, 493-496.		259
39	Saccharomyces cerevisiae telomerase is an Sm small nuclear ribonucleoprotein particle. Nature, 1999, 401, 177-180.	13.7	256
40	<i>TERT</i> promoter mutations and telomerase reactivation in urothelial cancer. Science, 2015, 347, 1006-1010.	6.0	255
41	Human telomerase: biogenesis, trafficking, recruitment, and activation. Genes and Development, 2015, 29, 1095-1105.	2.7	250
42	The recruitment of chromatin modifiers by long noncoding RNAs: lessons from PRC2. Rna, 2015, 21, 2007-2022.	1.6	248
43	GAAA Tetraloop and Conserved Bulge Stabilize Tertiary Structure of a Group I Intron Domain. Journal of Molecular Biology, 1994, 236, 49-63.	2.0	247
44	RNA splicing: Three themes with variations. Cell, 1983, 34, 713-716.	13.5	238
45	Minor-Groove Recognition of Double-Stranded RNA by the Double-Stranded RNA-Binding Domain from the RNA-Activated Protein Kinase PKRâ€. Biochemistry, 1996, 35, 9983-9994.	1.2	232
46	One binding site determines sequence specificity of Tetrahymena pre-rRNA self-splicing, trans-splicing, and RNA enzyme activity. Cell, 1986, 47, 207-216.	13.5	226
47	Telomere shortening and loss of self-renewal in dyskeratosis congenita induced pluripotent stem cells. Nature, 2011, 474, 399-402.	13.7	220
48	RNA substrate binding site in the catalytic core of the Tetrahymena ribozyme. Nature, 1992, 358, 123-128.	13.7	215
49	From The Cover: Yeast telomerase RNA: A flexible scaffold for protein subunits. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10024-10029.	3.3	211
50	Reverse self-splicing of the tetrahymena group I intron: Implication for the directionality of splicing and for intron transposition. Cell, 1989, 57, 335-345.	13.5	198
51	Ribozyme recognition of RNA by tertiary interactions with specific ribose 2â€²-OH groups. Nature, 1991, 350, 628-631.	13.7	196
52	Human POT1 Facilitates Telomere Elongation by Telomerase. Current Biology, 2003, 13, 942-946.	1.8	195
53	New reactions of the ribosomal RNA precursor of Tetrahymena and the mechanism of self-splicing. Journal of Molecular Biology, 1986, 189, 143-165.	2.0	194
54	FUS binds the CTD of RNA polymerase II and regulates its phosphorylation at Ser2. Genes and Development, 2012, 26, 2690-2695.	2.7	192

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55	Toward a Consensus on the Binding Specificity and Promiscuity of PRC2 for RNA. Molecular Cell, 2015, 57, 552-558.	4.5	190
56	A second catalytic metal ion in a group I ribozyme. Nature, 1997, 388, 805-808.	13.7	186
57	Molecular analysis of PRC2 recruitment to DNA in chromatin and its inhibition by RNA. Nature Structural and Molecular Biology, 2017, 24, 1028-1038.	3.6	186
58	Targeting of Polycomb Repressive Complex 2 to RNA by Short Repeats of Consecutive Guanines. Molecular Cell, 2017, 65, 1056-1067.e5.	4.5	185
59	DNA self-recognition in the structure of Pot1 bound to telomeric single-stranded DNA. Nature, 2003, 426, 198-203.	13.7	182
60	Biochemical Properties and Biological Functions of FET Proteins. Annual Review of Biochemistry, 2015, 84, 355-379.	5.0	173
61	Crystal structure of the essential N-terminal domain of telomerase reverse transcriptase. Nature Structural and Molecular Biology, 2006, 13, 218-225.	3.6	169
62	The intervening sequence of the ribosomal RNA precursor is converted to a circular RNA in isolated nuclei of tetrahymena. Cell, 1981, 23, 467-476.	13.5	168
63	Mutation of the <i>TERT</i> promoter, switch to active chromatin, and monoallelic <i>TERT</i> expression in multiple cancers. Genes and Development, 2015, 29, 2219-2224.	2.7	168
64	Cloning and expression of genes for the Oxytricha telomere-binding protein: Specific subunit interactions in the telomeric complex. Cell, 1991, 67, 807-814.	13.5	162
65	POT1â€“TPP1 enhances telomerase processivity by slowing primer dissociation and aiding translocation. EMBO Journal, 2010, 29, 924-933.	3.5	160
66	The RNA Worlds in Context. Cold Spring Harbor Perspectives in Biology, 2012, 4, a006742-a006742.	2.3	160
67	Live Cell Imaging Reveals the Dynamics of Telomerase Recruitment to Telomeres. Cell, 2016, 166, 1188-1197.e9.	13.5	158
68	POT1 Stimulates RecQ Helicases WRN and BLM to Unwind Telomeric DNA Substrates. Journal of Biological Chemistry, 2005, 280, 32069-32080.	1.6	157
69	RNA editing: World's smallest introns?. Cell, 1991, 64, 667-669.	13.5	156
70	Structural Basis of the Enhanced Stability of a Mutant Ribozyme Domain and a Detailed View of RNAâ€“Solvent Interactions. Structure, 2001, 9, 221-231.	1.6	154
71	Human Pot1 (Protection of Telomeres) Protein: Cytolocalization, Gene Structure, and Alternative Splicing. Molecular and Cellular Biology, 2002, 22, 8079-8087.	1.1	153
72	Cross-linking of DNA with trimethylpsoralen is a probe for chromatin structure. Cell, 1977, 11, 631-640.	13.5	150

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73	Atomic level architecture of group I introns revealed. Trends in Biochemical Sciences, 2006, 31, 41-51.	3.7	149
74	RNA as an Enzyme. Scientific American, 1986, 255, 64-75.	1.0	147
75	Switching Human Telomerase On and Off with hPOT1 Protein in Vitro*. Journal of Biological Chemistry, 2005, 280, 20449-20456.	1.6	143
76	Chromatin structure of the molecular ends of oxytricha macronuclear DNA: phased nucleosomes and a telomeric complex. Cell, 1984, 38, 501-510.	13.5	141
77	DNA cleavage catalysed by the ribozyme from Tetrahymena. Nature, 1990, 344, 405-409.	13.7	139
78	Protection of Telomeres by the Ku Protein in Fission Yeast. Molecular Biology of the Cell, 2000, 11, 3265-3275.	0.9	138
79	Shaping human telomeres: from shelterin and CST complexes to telomeric chromatin organization. Nature Reviews Molecular Cell Biology, 2021, 22, 283-298.	16.1	137
80	Life at the End of the Chromosome: Telomeres and Telomerase. Angewandte Chemie - International Edition, 2000, 39, 34-43.	7.2	133
81	A bulged stem tethers Est1p to telomerase RNA in budding yeast. Genes and Development, 2002, 16, 2800-2812.	2.7	128
82	Inventory of telomerase components in human cells reveals multiple subpopulations of hTR and hTERT. Nucleic Acids Research, 2014, 42, 8565-8577.	6.5	120
83	Intermolecular exon ligation of the rRNA precursor of tetrahymena: Oligonucleotides can function as 5â€² exons. Cell, 1985, 43, 431-437.	13.5	119
84	Chromatin structure at the replication origins and transcription-initiation regions of the ribosomal RNA genes of tetrahymena. Cell, 1984, 36, 933-942.	13.5	116
85	Energetics and Cooperativity of Tertiary Hydrogen Bonds in RNA Structure. Biochemistry, 1999, 38, 8691-8702.	1.2	116
86	Self-Splicing RNA: Implications for Evolution. International Review of Cytology, 1985, 93, 3-22.	6.2	114
87	Protein facilitation of group I intron splicing by assembly of the catalytic core and the 5â€² splice site domain. Cell, 1995, 82, 221-230.	13.5	114
88	Telomerase and chromosome end maintenance. Current Opinion in Genetics and Development, 1998, 8, 226-232.	1.5	113
89	In vitro splicing of the ribosomal RNA precursor in nuclei of tetrahymena. Cell, 1980, 19, 331-338.	13.5	111
90	Telomerase RNA Bound by Protein Motifs Specific to Telomerase Reverse Transcriptase. Molecular Cell, 2000, 6, 493-499.	4.5	110

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91	Low abundance of telomerase in yeast: Implications for telomerase haploinsufficiency. Rna, 2006, 12, 1721-1737.	1.6	108
92	Catalysis of RNA cleavage by the Tetrahymena thermophila ribozyme. 2. Kinetic description of the reaction of an RNA substrate that forms a mismatch at the active site. Biochemistry, 1990, 29, 10172-10180.	1.2	107
93	Triple-helix structure in telomerase RNA contributes to catalysis. Nature Structural and Molecular Biology, 2008, 15, 634-640.	3.6	107
94	Ribozymes, the first 20 years. Biochemical Society Transactions, 2002, 30, 1162-1166.	1.6	106
95	Crawling Out of the RNA World. Cell, 2009, 136, 599-602.	13.5	105
96	Functional interaction between telomere protein TPP1 and telomerase. Genes and Development, 2010, 24, 613-622.	2.7	105
97	Replication of the extrachromosomal ribosomal RNA genes of Tetrahymena thermophilia. Nucleic Acids Research, 1981, 9, 3531-3543.	6.5	104
98	Nucleic acid-binding specificity of human FUS protein. Nucleic Acids Research, 2015, 43, 7535-7543.	6.5	104
99	Essential Regions of Saccharomyces cerevisiae Telomerase RNA: Separate Elements for Est1p and Est2p Interaction. Molecular and Cellular Biology, 2002, 22, 2366-2374.	1.1	103
100	RNA is essential for PRC2 chromatin occupancy and function in human pluripotent stem cells. Nature Genetics, 2020, 52, 931-938.	9.4	99
101	Targeted CRISPR disruption reveals a role for RNase MRP RNA in human preribosomal RNA processing. Genes and Development, 2017, 31, 59-71.	2.7	96
102	A Lifelong Passion for All Things Ribonucleic. Cell, 2018, 175, 14-17.	13.5	95
103	Peptidyl-transferase ribozymes: trans reactions, structural characterization and ribosomal RNA-like features. Chemistry and Biology, 1998, 5, 539-553.	6.2	93
104	Inhibition of telomerase RNA decay rescues telomerase deficiency caused by dyskerin or PARN defects. Nature Structural and Molecular Biology, 2016, 23, 286-292.	3.6	93
105	The efficiency and versatility of catalytic RNA: implications for an RNA world. Gene, 1993, 135, 33-36.	1.0	92
106	Multiple Folding Pathways for the P4â€"P6 RNA Domain. Biochemistry, 2000, 39, 12465-12475.	1.2	91
107	Mutations in a nonconserved sequence of the Tetrahymena ribozyme increase activity and specificity. Cell, 1991, 67, 1007-1019.	13.5	88
108	Identification of human TERT elements necessary for telomerase recruitment to telomeres. ELife, 2014, 3, .	2.8	85

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109	Mitochondrial telomeres: Surprising diversity of repeated telomeric DNA sequences among six species of Tetrahymena. Cell, 1988, 52, 367-374.	13.5	83
110	The intervening sequence excised from the ribosomal RNA precursor ofTetrahymenacontains a 5â€²-terminal guanosine residue not encoded by the DNA. Nucleic Acids Research, 1982, 10, 2823-2838.	6.5	82
111	Role of conserved sequence elements 9L and 2 in self-splicing of the Tetrahymena ribosomal RNA precursor. Cell, 1986, 45, 167-176.	13.5	82
112	A Mutant of Tetrahymena Telomerase Reverse Transcriptase with Increased Processivity. Journal of Biological Chemistry, 2000, 275, 24199-24207.	1.6	82
113	Mutually Exclusive Binding of Telomerase RNA and DNA by Ku Alters Telomerase Recruitment Model. Cell, 2012, 148, 922-932.	13.5	81
114	A novel two-step genome editing strategy with CRISPR-Cas9 provides new insights into telomerase action and TERT gene expression. Genome Biology, 2015, 16, 231.	3.8	81
115	A miniature yeast telomerase RNA functions in vivo and reconstitutes activity in vitro. Nature Structural and Molecular Biology, 2005, 12, 1072-1077.	3.6	80
116	The telomeres of the linear mitochondrial DNA of tetrahymena thermophila consist of 53 bp tandem repeats. Cell, 1986, 46, 873-883.	13.5	79
117	Cooperative Binding of Single-Stranded Telomeric DNA by the Pot1 Protein of Schizosaccharomyces pombe. Biochemistry, 2002, 41, 14560-14568.	1.2	79
118	Dynamics of Thermal Motions within a Large Catalytic RNA Investigated by Cross-linking with Thiolâˆ’Disulfide Interchange. Journal of the American Chemical Society, 1997, 119, 6259-6268.	6.6	77
119	Sites of circularization of theTetrahymenarRNA IVS are determined by sequence and influenced by position and secondary structure. Nucleic Acids Research, 1985, 13, 8389-8408.	6.5	76
120	The structure of human CST reveals a decameric assembly bound to telomeric DNA. Science, 2020, 368, 1081-1085.	6.0	76
121	Conserved RNA-binding specificity of polycomb repressive complex 2 is achieved by dispersed amino acid patches in EZH2. ELife, 2017, 6, .	2.8	76
122	RNA Tertiary Folding Monitored by Fluorescence of Covalently Attached Pyreneâ€. Biochemistry, 1999, 38, 14224-14237.	1.2	75
123	A hammerhead ribozyme allows synthesis of a new form of theTetrahymenaribozyme homogeneous in length with a 3' end blocked for transesterification. Nucleic Acids Research, 1991, 19, 3875-3880.	6.5	74
124	An electron microscopic study of mouse foldback DNA. Cell, 1975, 5, 429-446.	13.5	73
125	Modulation of telomerase activity by telomere DNA-binding proteins inâ€‰<i>Oxytricha</i>. Genes and Development, 1998, 12, 1504-1514.	2.7	71
126	Live-cell imaging reveals the dynamics of PRC2 and recruitment to chromatin by SUZ12-associated subunits. Genes and Development, 2018, 32, 794-805.	2.7	70

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127	Reversibility of cyclization of the tetrahymena rRNA intervening sequence: implication for the mechanism of splice site choice. Cell, 1985, 42, 639-648.	13.5	69
128	Many disease-associated variants of hTERT retain high telomerase enzymatic activity. Nucleic Acids Research, 2013, 41, 8969-8978.	6.5	68
129	Allele-Specific DNA Methylation and Its Interplay with Repressive Histone Marks at Promoter-Mutant TERT Genes. Cell Reports, 2017, 21, 3700-3707.	2.9	68
130	Self-splicing and enzymatic activity of an intervening sequence RNA from Tetrahymena. Bioscience Reports, 1990, 10, 239-261.	1.1	66
131	How telomeric protein POT1 avoids RNA to achieve specificity for single-stranded DNA. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 651-656.	3.3	66
132	N-terminal Domain of Yeast Telomerase Reverse Transcriptase: Recruitment of Est3p to the Telomerase Complex. Molecular Biology of the Cell, 2003, 14, 1-13.	0.9	65
133	Reconstitution of human shelterin complexes reveals unexpected stoichiometry and dual pathways to enhance telomerase processivity. Nature Communications, 2017, 8, 1075.	5.8	64
134	Selection of circularization sites in a group I IVS RNA requires multiple alignments of an internal template-like sequence. Cell, 1987, 50, 951-961.	13.5	62
135	Assembly and self-association of Oxytricha telomeric nucleoprotein complexes. Cell, 1989, 59, 719-728.	13.5	61
136	A self-splicing group I intron in the nuclear pre-rRNA of the green alga,Ankistrodesmus stipitatus. Nucleic Acids Research, 1991, 19, 4429-4436.	6.5	60
137	An early transition state for folding of the P4-P6 RNA domain. Rna, 2001, 7, 161-166.	1.6	60
138	Sequence requirements for self-splicing of theTetrahymena thermophilapre-ribosomal RNA. Nucleic Acids Research, 1985, 13, 1871-1889.	6.5	59
139	The RNA accordion model for template positioning by telomerase RNA during telomeric DNA synthesis. Nature Structural and Molecular Biology, 2011, 18, 1371-1375.	3.6	59
140	Characterization of the most rapidly renaturing sequences in mouse main-band DNA. Journal of Molecular Biology, 1973, 81, 299-325.	2.0	58
141	Mutation in TERT separates processivity from anchor-site function. Nature Structural and Molecular Biology, 2008, 15, 870-872.	3.6	58
142	Synthesis and Characterization of an RNA Dinucleotide Containing a 3â€˜-S-Phosphorothiolate Linkage. Journal of the American Chemical Society, 1996, 118, 10341-10350.	6.6	56
143	Exocyclic Amine of the Conserved GÂ·U Pair at the Cleavage Site of theTetrahymenaRibozyme Contributes to 5â€˜-Splice Site Selection and Transition State Stabilizationâ€. Biochemistry, 1996, 35, 1201-1211.	1.2	56
144	Oxytrichatelomeric nucleoprotein complexes reconstituted with synthetic DNA. Nucleic Acids Research, 1989, 17, 4235-4253.	6.5	55

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145	TheEuplotesLa Motif Protein p43 Has Properties of a Telomerase-Specific Subunitâ€. Biochemistry, 2003, 42, 5736-5747.	1.2	55
146	Sharing Publication-Related Data and Materials: Responsibilities of Authorship in the Life Sciences. Plant Physiology, 2003, 132, 19-24.	2.3	55
147	Self-splicing and Enzymatic Activity of an Intervening Sequence RNA fromTetrahymena(Nobel Lecture). Angewandte Chemie International Edition in English, 1990, 29, 759-768.	4.4	53
148	Phylogenetic relationships and altered genome structures amongTetrahymenamitochondrial DNAs. Nucleic Acids Research, 1988, 16, 327-346.	6.5	52
149	Molecular cloning of telomere-binding protein gens fromStylonchia mytilis. Nucleic Acids Research, 1991, 19, 5515-5518.	6.5	52
150	Quantifying the energetic interplay of RNA tertiary and secondary structure interactions. Rna, 1999, 5, 1665-1674.	1.6	52
151	Local RNA structural changes induced by crystallization are revealed by SHAPE. Rna, 2007, 13, 536-548.	1.6	51
152	Chromatin structure of the ribosomal RNA genes of Tetrahymena thermophila as analyzed by trimethylpsoralen crosslinking in vivo. Journal of Molecular Biology, 1980, 136, 395-416.	2.0	49
153	TetrahymenaTelomerase Is Active as a Monomer. Molecular Biology of the Cell, 2003, 14, 4794-4804.	0.9	49
154	Expression of a RecQ Helicase Homolog Affects Progression through Crisis in Fission Yeast Lacking Telomerase. Journal of Biological Chemistry, 2005, 280, 5249-5257.	1.6	48
155	FUS is sequestered in nuclear aggregates in ALS patient fibroblasts. Molecular Biology of the Cell, 2014, 25, 2571-2578.	0.9	48
156	5â€² exon requirement for self-splicing of the Tetrahymena thermophila pre-ribosomal RNA and identification of a cryptic 5â€² splice site in the 3â€² exon. Journal of Molecular Biology, 1987, 196, 49-60.	2.0	47
157	Joining the Two Domains of a Group I Ribozyme to Form the Catalytic Core. Science, 1997, 275, 847-849.	6.0	47
158	Regulation of histone methylation by automethylation of PRC2. Genes and Development, 2019, 33, 1416-1427.	2.7	47
159	Hammerhead nailed down. Nature, 1994, 372, 39-40.	13.7	46
160	A template-proximal RNA paired element contributes to Saccharomyces cerevisiae telomerase activity. Rna, 2003, 9, 1323-1332.	1.6	45
161	EuplotesTelomerase:Â Evidence for Limited Base-Pairing during Primer Elongation and dGTP as an Effector of Translocationâ€. Biochemistry, 1998, 37, 5162-5172.	1.2	44
162	Nurturing interdisciplinary research. Nature Structural and Molecular Biology, 2004, 11, 1166-1169.	3.6	44

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163	G-strings at chromosome ends. Nature, 1988, 332, 777-778.	13.7	43
164	Crystals by design: a strategy for crystallization of a ribozyme derived from the Tetrahymena group I intron. Journal of Molecular Biology, 1997, 270, 711-723.	2.0	43
165	A dimeric state for PRC2. Nucleic Acids Research, 2014, 42, 9236-9248.	6.5	43
166	Inhibition of Telomerase Recruitment and Cancer Cell Death. Journal of Biological Chemistry, 2013, 288, 33171-33180.	1.6	42
167	Visualization of a Tertiary Structural Domain of the Tetrahymena Group I Intron by Electron Microscopy. Journal of Molecular Biology, 1994, 236, 64-71.	2.0	41
168	Organization of highly repeated sequences in mouse main-band DNA. Journal of Molecular Biology, 1976, 100, 227-256.	2.0	40
169	Translocation of an RNA duplex on a ribozyme. Nature Structural and Molecular Biology, 1994, 1, 13-17.	3.6	40
170	Multiple Yeast Genes, Including Paf1 Complex Genes, Affect Telomere Length via Telomerase RNA Abundance. Molecular and Cellular Biology, 2008, 28, 4152-4161.	1.1	40
171	Ribozyme self-replication?. Nature, 1989, 339, 507-508.	13.7	39
172	Conformational Switches Involved in Orchestrating the Successive Steps of Group I RNA Splicing. Biochemistry, 1996, 35, 3754-3763.	1.2	38
173	In vitro selection of RNAs with increased tertiary structure stability. Rna, 1999, 5, 1119-1129.	1.6	38
174	Soluble domains of telomerase reverse transcriptase identified by high-throughput screening. Protein Science, 2005, 14, 2051-2058.	3.1	38
175	Toward predicting self-splicing and protein-facilitated splicing of group I introns. Rna, 2008, 14, 2013-2029.	1.6	38
176	Multiple POT1â€"TPP1 Proteins Coat and Compact Long Telomeric Single-Stranded DNA. Journal of Molecular Biology, 2011, 410, 10-17.	2.0	38
177	Competition between PRC2.1 and 2.2 subcomplexes regulates PRC2 chromatin occupancy in human stem cells. Molecular Cell, 2021, 81, 488-501.e9.	4.5	38
178	Mechanism of recognition of the 5â€² splice site in self-splicing group I introns. Nature, 1986, 322, 86-89.	13.7	36
179	Self-splicing of the Tetrahymena intron from mRNA in mammalian cells. EMBO Journal, 1999, 18, 6491-6500.	3.5	35
180	Different nucleosome spacing in transcribed and non-transcribed regions of the ribosomal RNA gene inTetrahymena thermophila. Nucleic Acids Research, 1983, 11, 2093-2110.	6.5	34

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181	C9orf72 and triplet repeat disorder RNAs: G-quadruplex formation, binding to PRC2 and implications for disease mechanisms. Rna, 2019, 25, 935-947.	1.6	34
182	<i>Tetrahymena</i> Telomerase Protein p65 Induces Conformational Changes throughout Telomerase RNA (TER) and Rescues Telomerase Reverse Transcriptase and TER Assembly Mutants. Molecular and Cellular Biology, 2010, 30, 4965-4976.	1.1	33
183	Polycomb-mediated genome architecture enables long-range spreading of H3K27 methylation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	33
184	A natural ribozyme with 3â€²,5â€² RNA ligase activity. Nature Chemical Biology, 2009, 5, 97-99.	3.9	32
185	Ku can contribute to telomere lengthening in yeast at multiple positions in the telomerase RNP. Rna, 2011, 17, 298-311.	1.6	32
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