

Thomas R Cech

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243
papers

32,956
citations

93
h-index

179
g-index

266
ext. papers

36,058
ext. citations

22.1
avg, IF

7.56
L-index

#	Paper	IF	Citations
243	Telomerase catalytic subunit homologs from fission yeast and human. <i>Science</i> , 1997 , 277, 955-9	33.3	1963
242	Self-splicing RNA: autoexcision and autocyclization of the ribosomal RNA intervening sequence of <i>Tetrahymena</i> . <i>Cell</i> , 1982 , 31, 147-57	56.2	1756
241	The noncoding RNA revolution-trashing old rules to forge new ones. <i>Cell</i> , 2014 , 157, 77-94	56.2	1466
240	Monovalent cation-induced structure of telomeric DNA: the G-quartet model. <i>Cell</i> , 1989 , 59, 871-80	56.2	1080
239	Reverse transcriptase motifs in the catalytic subunit of telomerase. <i>Science</i> , 1997 , 276, 561-7	33.3	1034
238	Inhibition of telomerase by G-quartet DNA structures. <i>Nature</i> , 1991 , 350, 718-20	50.4	1002
237	Pot1, the putative telomere end-binding protein in fission yeast and humans. <i>Science</i> , 2001 , 292, 1171-5	33.3	786
236	Self-splicing of group I introns. <i>Annual Review of Biochemistry</i> , 1990 , 59, 543-68	29.1	774
235	In vitro splicing of the ribosomal RNA precursor of <i>Tetrahymena</i> : involvement of a guanosine nucleotide in the excision of the intervening sequence. <i>Cell</i> , 1981 , 27, 487-96	56.2	731
234	The chemical repertoire of natural ribozymes. <i>Nature</i> , 2002 , 418, 222-8	50.4	559
233	The POT1-TPP1 telomere complex is a telomerase processivity factor. <i>Nature</i> , 2007 , 445, 506-10	50.4	513
232	The generality of self-splicing RNA: relationship to nuclear mRNA splicing. <i>Cell</i> , 1986 , 44, 207-10	56.2	450
231	Conserved sequences and structures of group I introns: building an active site for RNA catalysis--a review. <i>Gene</i> , 1988 , 73, 259-71	3.8	441
230	Regulation of telomere length and function by a Myb-domain protein in fission yeast. <i>Nature</i> , 1997 , 385, 744-7	50.4	432
229	Metal ion catalysis in the <i>Tetrahymena</i> ribozyme reaction. <i>Nature</i> , 1993 , 361, 85-8	50.4	369
228	RNA Duplex Map in Living Cells Reveals Higher-Order Transcriptome Structure. <i>Cell</i> , 2016 , 165, 1267-1276	56.2	368
227	Beginning to understand the end of the chromosome. <i>Cell</i> , 2004 , 116, 273-9	56.2	360

226	Structure of human POT1 bound to telomeric single-stranded DNA provides a model for chromosome end-protection. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 1223-9	17.6	356
225	How do lncRNAs regulate transcription?. <i>Science Advances</i> , 2017 , 3, eaao2110	14.3	338
224	Promiscuous RNA binding by Polycomb repressive complex 2. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 1250-7	17.6	332
223	Human POT1 disrupts telomeric G-quadruplexes allowing telomerase extension in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10864-9	11.5	295
222	Catalysis of RNA cleavage by the Tetrahymena thermophila ribozyme. 1. Kinetic description of the reaction of an RNA substrate complementary to the active site. <i>Biochemistry</i> , 1990 , 29, 10159-71	3.2	291
221	Structural conventions for group I introns. <i>Nucleic Acids Research</i> , 1987 , 15, 7217-21	20.1	276
220	Reversing time: origin of telomerase. <i>Cell</i> , 1998 , 92, 587-90	56.2	272
219	Finding the end: recruitment of telomerase to telomeres. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 69-82	48.7	267
218	A preorganized active site in the crystal structure of the Tetrahymena ribozyme. <i>Science</i> , 1998 , 282, 259-64	54.3	262
217	The Tetrahymena ribozyme acts like an RNA restriction endonuclease. <i>Nature</i> , 1986 , 324, 429-33	50.4	261
216	Autocatalytic cyclization of an excised intervening sequence RNA is a cleavage-ligation reaction. <i>Nature</i> , 1983 , 301, 578-83	50.4	260
215	Peptide bond formation by in vitro selected ribozymes. <i>Nature</i> , 1997 , 390, 96-100	50.4	257
214	The beta subunit of Oxytricha telomere-binding protein promotes G-quartet formation by telomeric DNA. <i>Cell</i> , 1993 , 74, 875-85	56.2	248
213	Specific interaction between the self-splicing RNA of Tetrahymena and its guanosine substrate: implications for biological catalysis by RNA. <i>Nature</i> , 1984 , 308, 820-6	50.4	248
212	Structural biology. The ribosome is a ribozyme. <i>Science</i> , 2000 , 289, 878-9	33.3	245
211	Representation of the secondary and tertiary structure of group I introns. <i>Nature Structural and Molecular Biology</i> , 1994 , 1, 273-80	17.6	238
210	Saccharomyces cerevisiae telomerase is an Sm small nuclear ribonucleoprotein particle. <i>Nature</i> , 1999 , 401, 177-80	50.4	237
209	Ribozyme-mediated repair of defective mRNA by targeted, trans-splicing. <i>Nature</i> , 1994 , 371, 619-22	50.4	236

208	Telomerase and the maintenance of chromosome ends. <i>Current Opinion in Cell Biology</i> , 1999 , 11, 318-24	9	235
207	GAAA tetraloop and conserved bulge stabilize tertiary structure of a group I intron domain. <i>Journal of Molecular Biology</i> , 1994 , 236, 49-63	6.5	234
206	The TEL patch of telomere protein TPP1 mediates telomerase recruitment and processivity. <i>Nature</i> , 2012 , 492, 285-9	50.4	231
205	Two modes of survival of fission yeast without telomerase. <i>Science</i> , 1998 , 282, 493-6	33.3	222
204	RNA splicing: three themes with variations. <i>Cell</i> , 1983 , 34, 713-6	56.2	221
203	RNA seeds higher-order assembly of FUS protein. <i>Cell Reports</i> , 2013 , 5, 918-25	10.6	216
202	Cancer. TERT promoter mutations and telomerase reactivation in urothelial cancer. <i>Science</i> , 2015 , 347, 1006-10	33.3	214
201	Minor-groove recognition of double-stranded RNA by the double-stranded RNA-binding domain from the RNA-activated protein kinase PKR. <i>Biochemistry</i> , 1996 , 35, 9983-94	3.2	209
200	One binding site determines sequence specificity of Tetrahymena pre-rRNA self-splicing, trans-splicing, and RNA enzyme activity. <i>Cell</i> , 1986 , 47, 207-16	56.2	207
199	The recruitment of chromatin modifiers by long noncoding RNAs: lessons from PRC2. <i>Rna</i> , 2015 , 21, 2007-22	3.2	195
198	RNA substrate binding site in the catalytic core of the Tetrahymena ribozyme. <i>Nature</i> , 1992 , 358, 123-8	50.4	194
197	Human telomerase: biogenesis, trafficking, recruitment, and activation. <i>Genes and Development</i> , 2015 , 29, 1095-105	12.6	190
196	Yeast telomerase RNA: a flexible scaffold for protein subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10024-9	11.5	187
195	Telomere shortening and loss of self-renewal in dyskeratosis congenita induced pluripotent stem cells. <i>Nature</i> , 2011 , 474, 399-402	50.4	186
194	Ribozyme recognition of RNA by tertiary interactions with specific ribose 2ROH groups. <i>Nature</i> , 1991 , 350, 628-31	50.4	185
193	Reverse self-splicing of the tetrahymena group I intron: implication for the directionality of splicing and for intron transposition. <i>Cell</i> , 1989 , 57, 335-45	56.2	183
192	New reactions of the ribosomal RNA precursor of Tetrahymena and the mechanism of self-splicing. <i>Journal of Molecular Biology</i> , 1986 , 189, 143-65	6.5	175
191	Human POT1 facilitates telomere elongation by telomerase. <i>Current Biology</i> , 2003 , 13, 942-6	6.3	171

190	A second catalytic metal ion in group I ribozyme. <i>Nature</i> , 1997 , 388, 805-8	50.4	169
189	DNA self-recognition in the structure of Pot1 bound to telomeric single-stranded DNA. <i>Nature</i> , 2003 , 426, 198-203	50.4	165
188	Toward a consensus on the binding specificity and promiscuity of PRC2 for RNA. <i>Molecular Cell</i> , 2015 , 57, 552-8	17.6	156
187	FUS binds the CTD of RNA polymerase II and regulates its phosphorylation at Ser2. <i>Genes and Development</i> , 2012 , 26, 2690-5	12.6	152
186	Crystal structure of the essential N-terminal domain of telomerase reverse transcriptase. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 218-25	17.6	148
185	Cloning and expression of genes for the <i>Oxytricha</i> telomere-binding protein: specific subunit interactions in the telomeric complex. <i>Cell</i> , 1991 , 67, 807-14	56.2	148
184	Structural basis of the enhanced stability of a mutant ribozyme domain and a detailed view of RNA-solvent interactions. <i>Structure</i> , 2001 , 9, 221-31	5.2	146
183	RNA editing: world's smallest introns?. <i>Cell</i> , 1991 , 64, 667-9	56.2	140
182	POT1 stimulates RecQ helicases WRN and BLM to unwind telomeric DNA substrates. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32069-80	5.4	139
181	Human Pot1 (protection of telomeres) protein: cytolocalization, gene structure, and alternative splicing. <i>Molecular and Cellular Biology</i> , 2002 , 22, 8079-87	4.8	139
180	The intervening sequence of the ribosomal RNA precursor is converted to a circular RNA in isolated nuclei of <i>Tetrahymena</i> . <i>Cell</i> , 1981 , 23, 467-76	56.2	139
179	POT1-TPP1 enhances telomerase processivity by slowing primer dissociation and aiding translocation. <i>EMBO Journal</i> , 2010 , 29, 924-33	13	137
178	Cross-linking of DNA with trimethylpsoralen is a probe for chromatin structure. <i>Cell</i> , 1977 , 11, 631-40	56.2	137
177	Atomic level architecture of group I introns revealed. <i>Trends in Biochemical Sciences</i> , 2006 , 31, 41-51	10.3	136
176	Molecular analysis of PRC2 recruitment to DNA in chromatin and its inhibition by RNA. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 1028-1038	17.6	135
175	Chromatin structure of the molecular ends of <i>Oxytricha</i> macronuclear DNA: phased nucleosomes and a telomeric complex. <i>Cell</i> , 1984 , 38, 501-10	56.2	130
174	Switching human telomerase on and off with hPOT1 protein in vitro. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20449-56	5.4	128
173	Protection of telomeres by the Ku protein in fission yeast. <i>Molecular Biology of the Cell</i> , 2000 , 11, 3265-75	5.5	125

172	DNA cleavage catalysed by the ribozyme from Tetrahymena. <i>Nature</i> , 1990 , 344, 405-9	50.4	124
171	Targeting of Polycomb Repressive Complex 2 to RNA by Short Repeats of Consecutive Guanines. <i>Molecular Cell</i> , 2017 , 65, 1056-1067.e5	17.6	119
170	Life at the End of the Chromosome: Telomeres and Telomerase. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 34-43	16.4	119
169	Mutation of the TERT promoter, switch to active chromatin, and monoallelic TERT expression in multiple cancers. <i>Genes and Development</i> , 2015 , 29, 2219-24	12.6	117
168	Intermolecular exon ligation of the rRNA precursor of Tetrahymena: oligonucleotides can function as 5Rexons. <i>Cell</i> , 1985 , 43, 431-7	56.2	116
167	RNA as an enzyme. <i>Scientific American</i> , 1986 , 255, 64-75	0.5	113
166	A bulged stem tethers Est1p to telomerase RNA in budding yeast. <i>Genes and Development</i> , 2002 , 16, 2800-12	12.6	110
165	Energetics and cooperativity of tertiary hydrogen bonds in RNA structure. <i>Biochemistry</i> , 1999 , 38, 8691-702	10.2	110
164	The RNA worlds in context. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4, a006742	10.2	109
163	Protein facilitation of group I intron splicing by assembly of the catalytic core and the 5Rsplice site domain. <i>Cell</i> , 1995 , 82, 221-30	56.2	108
162	Biochemical Properties and Biological Functions of FET Proteins. <i>Annual Review of Biochemistry</i> , 2015 , 84, 355-79	29.1	107
161	Chromatin structure at the replication origins and transcription-initiation regions of the ribosomal RNA genes of Tetrahymena. <i>Cell</i> , 1984 , 36, 933-42	56.2	107
160	Live Cell Imaging Reveals the Dynamics of Telomerase Recruitment to Telomeres. <i>Cell</i> , 2016 , 166, 1188-1197.e206	16.7	106
159	Triple-helix structure in telomerase RNA contributes to catalysis. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 634-40	17.6	100
158	Telomerase RNA bound by protein motifs specific to telomerase reverse transcriptase. <i>Molecular Cell</i> , 2000 , 6, 493-9	17.6	100
157	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. <i>Biochemistry</i> , 1990 , 29, 10172-80	3.2	97
156	Replication of the extrachromosomal ribosomal RNA genes of Tetrahymena thermophila. <i>Nucleic Acids Research</i> , 1981 , 9, 3531-43	20.1	97
155	In vitro splicing of the ribosomal RNA precursor in nuclei of Tetrahymena. <i>Cell</i> , 1980 , 19, 331-8	56.2	95

154	Telomerase and chromosome end maintenance. <i>Current Opinion in Genetics and Development</i> , 1998 , 8, 226-32	4.9	94
153	Functional interaction between telomere protein TPP1 and telomerase. <i>Genes and Development</i> , 2010 , 24, 613-22	12.6	93
152	Low abundance of telomerase in yeast: implications for telomerase haploinsufficiency. <i>Rna</i> , 2006 , 12, 1721-37	5.8	93
151	Essential regions of <i>Saccharomyces cerevisiae</i> telomerase RNA: separate elements for Est1p and Est2p interaction. <i>Molecular and Cellular Biology</i> , 2002 , 22, 2366-74	4.8	93
150	Inventory of telomerase components in human cells reveals multiple subpopulations of hTR and hTERT. <i>Nucleic Acids Research</i> , 2014 , 42, 8565-77	20.1	92
149	Ribozymes, the first 20 years. <i>Biochemical Society Transactions</i> , 2002 , 30, 1162-6	5.1	92
148	Self-splicing RNA: implications for evolution. <i>International Review of Cytology</i> , 1985 , 93, 3-22		92
147	Multiple folding pathways for the P4-P6 RNA domain. <i>Biochemistry</i> , 2000 , 39, 12465-75	3.2	85
146	Crawling out of the RNA world. <i>Cell</i> , 2009 , 136, 599-602	56.2	84
145	Peptidyl-transferase ribozymes: trans reactions, structural characterization and ribosomal RNA-like features. <i>Chemistry and Biology</i> , 1998 , 5, 539-53		83
144	Mutations in a nonconserved sequence of the <i>Tetrahymena</i> ribozyme increase activity and specificity. <i>Cell</i> , 1991 , 67, 1007-19	56.2	82
143	Mitochondrial telomeres: surprising diversity of repeated telomeric DNA sequences among six species of <i>Tetrahymena</i> . <i>Cell</i> , 1988 , 52, 367-74	56.2	81
142	The efficiency and versatility of catalytic RNA: implications for an RNA world. <i>Gene</i> , 1993 , 135, 33-6	3.8	79
141	Role of conserved sequence elements 9L and 2 in self-splicing of the <i>Tetrahymena</i> ribosomal RNA precursor. <i>Cell</i> , 1986 , 45, 167-76	56.2	77
140	A mutant of <i>Tetrahymena</i> telomerase reverse transcriptase with increased processivity. <i>Journal of Biological Chemistry</i> , 2000 , 275, 24199-207	5.4	76
139	Nucleic acid-binding specificity of human FUS protein. <i>Nucleic Acids Research</i> , 2015 , 43, 7535-43	20.1	74
138	The telomeres of the linear mitochondrial DNA of <i>Tetrahymena thermophila</i> consist of 53 bp tandem repeats. <i>Cell</i> , 1986 , 46, 873-83	56.2	74
137	A miniature yeast telomerase RNA functions in vivo and reconstitutes activity in vitro. <i>Nature Structural and Molecular Biology</i> , 2005 , 12, 1072-7	17.6	72

136	Cooperative binding of single-stranded telomeric DNA by the Pot1 protein of <i>Schizosaccharomyces pombe</i> . <i>Biochemistry</i> , 2002 , 41, 14560-8	3.2	72
135	Inhibition of telomerase RNA decay rescues telomerase deficiency caused by dyskerin or PARN defects. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 286-92	17.6	71
134	RNA tertiary folding monitored by fluorescence of covalently attached pyrene. <i>Biochemistry</i> , 1999 , 38, 14224-37	3.2	71
133	Dynamics of Thermal Motions within a Large Catalytic RNA Investigated by Cross-linking with ThiolDisulfide Interchange. <i>Journal of the American Chemical Society</i> , 1997 , 119, 6259-6268	16.4	70
132	Sites of circularization of the Tetrahymena rRNA IVS are determined by sequence and influenced by position and secondary structure. <i>Nucleic Acids Research</i> , 1985 , 13, 8389-408	20.1	70
131	The intervening sequence excised from the ribosomal RNA precursor of Tetrahymena contains a 5-terminal guanosine residue not encoded by the DNA. <i>Nucleic Acids Research</i> , 1982 , 10, 2823-38	20.1	70
130	An electron microscopic study of mouse foldback DNA. <i>Cell</i> , 1975 , 5, 429-46	56.2	70
129	Mutually exclusive binding of telomerase RNA and DNA by Ku alters telomerase recruitment model. <i>Cell</i> , 2012 , 148, 922-32	56.2	69
128	Identification of human TERT elements necessary for telomerase recruitment to telomeres. <i>ELife</i> , 2014 , 3,	8.9	67
127	A hammerhead ribozyme allows synthesis of a new form of the Tetrahymena ribozyme homogeneous in length with a 3Rend blocked for transesterification. <i>Nucleic Acids Research</i> , 1991 , 19, 3875-80	20.1	67
126	Modulation of telomerase activity by telomere DNA-binding proteins in Oxytricha. <i>Genes and Development</i> , 1998 , 12, 1504-14	12.6	66
125	Reversibility of cyclization of the Tetrahymena rRNA intervening sequence: implication for the mechanism of splice site choice. <i>Cell</i> , 1985 , 42, 639-48	56.2	66
124	Targeted CRISPR disruption reveals a role for RNase MRP RNA in human preribosomal RNA processing. <i>Genes and Development</i> , 2017 , 31, 59-71	12.6	60
123	A novel two-step genome editing strategy with CRISPR-Cas9 provides new insights into telomerase action and TERT gene expression. <i>Genome Biology</i> , 2015 , 16, 231	18.3	58
122	How telomeric protein POT1 avoids RNA to achieve specificity for single-stranded DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 651-6	11.5	58
121	Assembly and self-association of oxytricha telomeric nucleoprotein complexes. <i>Cell</i> , 1989 , 59, 719-28	56.2	57
120	Sequence requirements for self-splicing of the Tetrahymena thermophila pre-ribosomal RNA. <i>Nucleic Acids Research</i> , 1985 , 13, 1871-89	20.1	57
119	Conserved RNA-binding specificity of polycomb repressive complex 2 is achieved by dispersed amino acid patches in EZH2. <i>ELife</i> , 2017 , 6,	8.9	57

118	N-terminal domain of yeast telomerase reverse transcriptase: recruitment of Est3p to the telomerase complex. <i>Molecular Biology of the Cell</i> , 2003 , 14, 1-13	3.5	56
117	Selection of circularization sites in a group I IVS RNA requires multiple alignments of an internal template-like sequence. <i>Cell</i> , 1987 , 50, 951-61	56.2	56
116	Many disease-associated variants of hTERT retain high telomerase enzymatic activity. <i>Nucleic Acids Research</i> , 2013 , 41, 8969-78	20.1	55
115	Oxytricha telomeric nucleoprotein complexes reconstituted with synthetic DNA. <i>Nucleic Acids Research</i> , 1989 , 17, 4235-53	20.1	55
114	Mutation in TERT separates processivity from anchor-site function. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 870-2	17.6	54
113	A self-splicing group I intron in the nuclear pre-rRNA of the green alga, <i>Ankistrodesmus stipitatus</i> . <i>Nucleic Acids Research</i> , 1991 , 19, 4429-36	20.1	54
112	Characterization of the most rapidly renaturing sequences in mouse main-band DNA. <i>Journal of Molecular Biology</i> , 1973 , 81, 299-325	6.5	53
111	Exocyclic amine of the conserved G.U pair at the cleavage site of the Tetrahymena ribozyme contributes to 5Rsplice site selection and transition state stabilization. <i>Biochemistry</i> , 1996 , 35, 1201-11	3.2	52
110	Nobel lecture. Self-splicing and enzymatic activity of an intervening sequence RNA from Tetrahymena. <i>Bioscience Reports</i> , 1990 , 10, 239-61	4.1	52
109	The RNA accordion model for template positioning by telomerase RNA during telomeric DNA synthesis. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 1371-5	17.6	50
108	An early transition state for folding of the P4-P6 RNA domain. <i>Rna</i> , 2001 , 7, 161-6	5.8	50
107	Quantifying the energetic interplay of RNA tertiary and secondary structure interactions. <i>Rna</i> , 1999 , 5, 1665-74	5.8	50
106	Synthesis and Characterization of an RNA Dinucleotide Containing a 3 ϵ -Phosphorothiolate Linkage. <i>Journal of the American Chemical Society</i> , 1996 , 118, 10341-10350	16.4	50
105	The Euplotes La motif protein p43 has properties of a telomerase-specific subunit. <i>Biochemistry</i> , 2003 , 42, 5736-47	3.2	49
104	Phylogenetic relationships and altered genome structures among Tetrahymena mitochondrial DNAs. <i>Nucleic Acids Research</i> , 1988 , 16, 327-46	20.1	49
103	Molecular cloning of telomere-binding protein genes from <i>Stylonychia mytilis</i> . <i>Nucleic Acids Research</i> , 1991 , 19, 5515-8	20.1	48
102	RNA is essential for PRC2 chromatin occupancy and function in human pluripotent stem cells. <i>Nature Genetics</i> , 2020 , 52, 931-938	36.3	47
101	Local RNA structural changes induced by crystallization are revealed by SHAPE. <i>Rna</i> , 2007 , 13, 536-48	5.8	47

100	Self-splicing and Enzymatic Activity of an Intervening Sequence RNA from Tetrahymena (Nobel Lecture). <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 759-768		47
99	Chromatin structure of the ribosomal RNA genes of Tetrahymena thermophila as analyzed by trimethylpsoralen crosslinking in vivo. <i>Journal of Molecular Biology</i> , 1980 , 136, 395-416	6.5	47
98	Tetrahymena telomerase is active as a monomer. <i>Molecular Biology of the Cell</i> , 2003 , 14, 4794-804	3.5	46
97	Live-cell imaging reveals the dynamics of PRC2 and recruitment to chromatin by SUZ12-associated subunits. <i>Genes and Development</i> , 2018 , 32, 794-805	12.6	45
96	Allele-Specific DNA Methylation and Its Interplay with Repressive Histone Marks at Promoter-Mutant TERT Genes. <i>Cell Reports</i> , 2017 , 21, 3700-3707	10.6	44
95	Joining the two domains of a group I ribozyme to form the catalytic core. <i>Science</i> , 1997 , 275, 847-9	33.3	44
94	A template-proximal RNA paired element contributes to Saccharomyces cerevisiae telomerase activity. <i>Rna</i> , 2003 , 9, 1323-32	5.8	44
93	Reconstitution of human shelterin complexes reveals unexpected stoichiometry and dual pathways to enhance telomerase processivity. <i>Nature Communications</i> , 2017 , 8, 1075	17.4	43
92	Euplotes telomerase: evidence for limited base-pairing during primer elongation and dGTP as an effector of translocation. <i>Biochemistry</i> , 1998 , 37, 5162-72	3.2	41
91	Expression of a RecQ helicase homolog affects progression through crisis in fission yeast lacking telomerase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 5249-57	5.4	41
90	FUS is sequestered in nuclear aggregates in ALS patient fibroblasts. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2571-8	3.5	40
89	5Rexon requirement for self-splicing of the Tetrahymena thermophila pre-ribosomal RNA and identification of a cryptic 5Rsplice site in the 3Rexon. <i>Journal of Molecular Biology</i> , 1987 , 196, 49-60	6.5	40
88	Visualization of a tertiary structural domain of the Tetrahymena group I intron by electron microscopy. <i>Journal of Molecular Biology</i> , 1994 , 236, 64-71	6.5	39
87	Crystals by design: a strategy for crystallization of a ribozyme derived from the Tetrahymena group I intron. <i>Journal of Molecular Biology</i> , 1997 , 270, 711-23	6.5	38
86	Inhibition of telomerase recruitment and cancer cell death. <i>Journal of Biological Chemistry</i> , 2013 , 288, 33171-80	5.4	37
85	In vitro selection of RNAs with increased tertiary structure stability. <i>Rna</i> , 1999 , 5, 1119-29	5.8	37
84	Organization of highly repeated sequences in mouse main-band DNA. <i>Journal of Molecular Biology</i> , 1976 , 100, 227-56	6.5	37
83	Multiple yeast genes, including Paf1 complex genes, affect telomere length via telomerase RNA abundance. <i>Molecular and Cellular Biology</i> , 2008 , 28, 4152-61	4.8	35

82	Soluble domains of telomerase reverse transcriptase identified by high-throughput screening. <i>Protein Science</i> , 2005 , 14, 2051-8	6.3	35
81	Conformational switches involved in orchestrating the successive steps of group I RNA splicing. <i>Biochemistry</i> , 1996 , 35, 3754-63	3.2	35
80	Translocation of an RNA duplex on a ribozyme. <i>Nature Structural and Molecular Biology</i> , 1994 , 1, 13-7	17.6	35
79	Sharing publication-related data and materials: responsibilities of authorship in the life sciences. <i>Plant Physiology</i> , 2003 , 132, 19-24	6.6	33
78	Regulation of histone methylation by automethylation of PRC2. <i>Genes and Development</i> , 2019 , 33, 1416-1427	14.7	32
77	The structure of human CST reveals a decameric assembly bound to telomeric DNA. <i>Science</i> , 2020 , 368, 1081-1085	33.3	32
76	Toward predicting self-splicing and protein-facilitated splicing of group I introns. <i>Rna</i> , 2008 , 14, 2013-29	5.8	32
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