

# Ronald R Breaker

## List of Publications by Year in descending order

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218  
papers

33,840  
citations

2970

93  
h-index

3822

178  
g-index

232  
all docs

232  
docs citations

232  
times ranked

13238  
citing authors

#	ARTICLE	IF	CITATIONS
1	DIMPL: a bioinformatics pipeline for the discovery of structured noncoding RNA motifs in bacteria. <i>Bioinformatics</i> , 2022, 38, 533-535.	1.8	3
2	The Biochemical Landscape of Riboswitch Ligands. <i>Biochemistry</i> , 2022, 61, 137-149.	1.2	47
3	Variants of the guanine riboswitch class exhibit altered ligand specificities for xanthine, guanine, or 2â€²-deoxyguanosine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	13
4	The case of the missing allosteric ribozymes. <i>Nature Chemical Biology</i> , 2021, 17, 375-382.	3.9	11
5	Structure of a bacterial OapB protein with its OLE RNA target gives insights into the architecture of the OLE ribonucleoprotein complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	1
6	Comprehensive discovery of novel structured noncoding RNAs in 26 bacterial genomes. <i>RNA Biology</i> , 2021, 18, 2417-2432.	1.5	13
7	Witnessing the structural evolution of an RNA enzyme. <i>ELife</i> , 2021, 10, .	2.8	14
8	A second riboswitch class for the enzyme cofactor NAD <sup>+</sup> . <i>Rna</i> , 2021, 27, 99-105.	1.6	23
9	Natural circularly permuted group II introns in bacteria produce RNA circles. <i>IScience</i> , 2021, 24, 103431.	1.9	7
10	Imaginary Ribozymes. <i>ACS Chemical Biology</i> , 2020, 15, 2020-2030.	1.6	19
11	Biochemical Validation of a Fourth Guanidine Riboswitch Class in Bacteria. <i>Biochemistry</i> , 2020, 59, 4654-4662.	1.2	32
12	<i>Bacillus halodurans</i> OapB forms a high-affinity complex with the P13 region of the noncoding RNA OLE. <i>Journal of Biological Chemistry</i> , 2020, 295, 9326-9334.	1.6	6
13	A rare bacterial RNA motif is implicated in the regulation of the <i>purF</i> gene whose encoded enzyme synthesizes phosphoribosylamine. <i>Rna</i> , 2020, 26, 1838-1846.	1.6	5
14	A bacterial riboswitch class senses xanthine and uric acid to regulate genes associated with purine oxidation. <i>Rna</i> , 2020, 26, 960-968.	1.6	24
15	Former orphan riboswitches reveal unexplored areas of bacterial metabolism, signaling, and gene control processes. <i>Rna</i> , 2020, 26, 675-693.	1.6	34
16	Variant Bacterial Riboswitches Associated with Nucleotide Hydrolase Genes Sense Nucleoside Diphosphates. <i>Biochemistry</i> , 2019, 58, 401-410.	1.2	34
17	Biochemical validation of a second class of tetrahydrofolate riboswitches in bacteria. <i>Rna</i> , 2019, 25, 1091-1097.	1.6	17
18	Employing a ZTP Riboswitch to Detect Bacterial Folate Biosynthesis Inhibitors in a Small Molecule High-Throughput Screen. <i>ACS Chemical Biology</i> , 2019, 14, 2841-2850.	1.6	13

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19	Disruption of the OLE ribonucleoprotein complex causes magnesium toxicity in <i>Bacillus halodurans</i> . <i>Molecular Microbiology</i> , 2019, 112, 1552-1563.	1.2	6
20	Evidence that the <i>nadA</i> motif is a bacterial riboswitch for the ubiquitous enzyme cofactor NAD <sup>+</sup> . <i>Rna</i> , 2019, 25, 1616-1627.	1.6	30
21	Genome-wide discovery of structured noncoding RNAs in bacteria. <i>BMC Microbiology</i> , 2019, 19, 66.	1.3	40
22	Rare variants of the FMN riboswitch class in <i>Clostridium difficile</i> and other bacteria exhibit altered ligand specificity. <i>Rna</i> , 2019, 25, 23-34.	1.6	18
23	Genome-wide Discovery of Rare Riboswitches in Bacteria. <i>FASEB Journal</i> , 2019, 33, 778.8.	0.2	1
24	A bacterial riboswitch class for the thiamin precursor HMP-PP employs a terminator-embedded aptamer. <i>ELife</i> , 2019, 8, .	2.8	33
25	SAM-VI RNAs selectively bind <i>S</i> -adenosylmethionine and exhibit similarities to SAM-III riboswitches. <i>RNA Biology</i> , 2018, 15, 371-378.	1.5	42
26	Challenges of ligand identification for the second wave of orphan riboswitch candidates. <i>RNA Biology</i> , 2018, 15, 377-390.	1.5	33
27	Large Noncoding RNAs in Bacteria. , 2018, , 515-526.		3
28	Riboswitches and Translation Control. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032797.	2.3	147
29	Riboswitches for the alarmone ppGpp expand the collection of RNA-based signaling systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6052-6057.	3.3	94
30	A glutamine riboswitch is a key element for the regulation of glutamine synthetase in cyanobacteria. <i>Nucleic Acids Research</i> , 2018, 46, 10082-10094.	6.5	51
31	Tandem riboswitches form a natural Boolean logic gate to control purine metabolism in bacteria. <i>ELife</i> , 2018, 7, .	2.8	59
32	Large Noncoding RNAs in Bacteria. <i>Microbiology Spectrum</i> , 2018, 6, .	1.2	39
33	A second RNA-binding protein is essential for ethanol tolerance provided by the bacterial OLE ribonucleoprotein complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6319-E6328.	3.3	9
34	High Throughput Validation of Orphan Riboswitch Candidates. <i>FASEB Journal</i> , 2018, 32, lb18.	0.2	0
35	PROSPECTS FOR RIBOZYME DISCOVERY AND ANALYSIS. , 2018, , .		0
36	The Biology of Free Guanidine As Revealed by Riboswitches. <i>Biochemistry</i> , 2017, 56, 345-347.	1.2	31

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37	Search for 5â€²-leader regulatory RNA structures based on gene annotation aided by the RiboGap database. <i>Methods</i> , 2017, 117, 3-13.	1.9	8
38	Bioinformatic analysis of riboswitch structures uncovers variant classes with altered ligand specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2077-E2085.	3.3	75
39	Mechanistic Debris Generated by Twister Ribozymes. <i>ACS Chemical Biology</i> , 2017, 12, 886-891.	1.6	25
40	Riboswitch diversity and distribution. <i>Rna</i> , 2017, 23, 995-1011.	1.6	374
41	The lost language of the RNA World. <i>Science Signaling</i> , 2017, 10, .	1.6	95
42	Biochemical Validation of a Second Guanidine Riboswitch Class in Bacteria. <i>Biochemistry</i> , 2017, 56, 352-358.	1.2	87
43	Biochemical Validation of a Third Guanidine Riboswitch Class in Bacteria. <i>Biochemistry</i> , 2017, 56, 359-363.	1.2	70
44	Metabolism of Free Guanidine in Bacteria Is Regulated by a Widespread Riboswitch Class. <i>Molecular Cell</i> , 2017, 65, 220-230.	4.5	129
45	Detection of 224 candidate structured RNAs by comparative analysis of specific subsets of intergenic regions. <i>Nucleic Acids Research</i> , 2017, 45, 10811-10823.	6.5	116
46	Numerous small hammerhead ribozyme variants associated with Penelope-like retrotransposons cleave RNA as dimers. <i>RNA Biology</i> , 2017, 14, 1499-1507.	1.5	17
47	Identification of 15 candidate structured noncoding RNA motifs in fungi by comparative genomics. <i>BMC Genomics</i> , 2017, 18, 785.	1.2	16
48	Singlet glycine riboswitches bind ligand as well as tandem riboswitches. <i>Rna</i> , 2016, 22, 1728-1738.	1.6	19
49	The <i>yjdF</i> riboswitch candidate regulates gene expression by binding diverse azaaromatic compounds. <i>Rna</i> , 2016, 22, 530-541.	1.6	33
50	Biochemical analysis of hatchet self-cleaving ribozymes. <i>Rna</i> , 2015, 21, 1845-1851.	1.6	36
51	Biochemical analysis of pistol self-cleaving ribozymes. <i>Rna</i> , 2015, 21, 1852-1858.	1.6	59
52	An Ancient Riboswitch Class in Bacteria Regulates Purine Biosynthesis and One-Carbon Metabolism. <i>Molecular Cell</i> , 2015, 57, 317-328.	4.5	102
53	Novel Riboswitch-Binding Flavin Analog That Protects Mice against <i>Clostridium difficile</i> Infection without Inhibiting Cecal Flora. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5736-5746.	1.4	75
54	New classes of self-cleaving ribozymes revealed by comparative genomics analysis. <i>Nature Chemical Biology</i> , 2015, 11, 606-610.	3.9	174

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55	Small Molecule Fluoride Toxicity Agonists. <i>Chemistry and Biology</i> , 2015, 22, 527-534.	6.2	21
56	Bacterial Riboswitches Cooperatively Bind Ni <sup>2+</sup> or Co <sup>2+</sup> Ions and Control Expression of Heavy Metal Transporters. <i>Molecular Cell</i> , 2015, 57, 1088-1098.	4.5	147
57	Control of bacterial exoelectrogenesis by c-AMP-GMP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5389-5394.	3.3	98
58	A widespread self-cleaving ribozyme class is revealed by bioinformatics. <i>Nature Chemical Biology</i> , 2014, 10, 56-60.	3.9	217
59	Gramicidin D enhances the antibacterial activity of fluoride. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2969-2971.	1.0	10
60	The Expanding View of RNA and DNA Function. <i>Chemistry and Biology</i> , 2014, 21, 1059-1065.	6.2	87
61	Structural, Functional, and Taxonomic Diversity of Three PreQ1 Riboswitch Classes. <i>Chemistry and Biology</i> , 2014, 21, 880-889.	6.2	78
62	Riboswitches That Sense Cyclic Di-GMP. , 2014, , 215-229.		4
63	In Vitro Selection of Allosteric Ribozymes that Sense the Bacterial Second Messenger c-di-GMP. <i>Methods in Molecular Biology</i> , 2014, 1111, 209-220.	0.4	9
64	Riboswitches in eubacteria sense the second messenger c-di-AMP. <i>Nature Chemical Biology</i> , 2013, 9, 834-839.	3.9	247
65	Integron attI1 Sites, Not Riboswitches, Associate with Antibiotic Resistance Genes. <i>Cell</i> , 2013, 153, 1417-1418.	13.5	19
66	Small, Highly Active DNAs That Hydrolyze DNA. <i>Journal of the American Chemical Society</i> , 2013, 135, 9121-9129.	6.6	134
67	Eukaryotic TPP riboswitch regulation of alternative splicing involving long-distance base pairing. <i>Nucleic Acids Research</i> , 2013, 41, 3022-3031.	6.5	96
68	Eukaryotic resistance to fluoride toxicity mediated by a widespread family of fluoride export proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19018-19023.	3.3	108
69	Production of single-stranded DNAs by self-cleavage of rolling-circle amplification products. <i>BioTechniques</i> , 2013, 54, 337-343.	0.8	23
70	OLE RNA protects extremophilic bacteria from alcohol toxicity. <i>Nucleic Acids Research</i> , 2012, 40, 6898-6907.	6.5	23
71	Ancient, giant riboswitches at atomic resolution. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 1208-1209.	3.6	4
72	Riboswitches and the RNA World. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a003566-a003566.	2.3	529

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73	Engineered Allosteric Ribozymes That Sense the Bacterial Second Messenger Cyclic Diguanosyl 5â€²-Monophosphate. <i>Analytical Chemistry</i> , 2012, 84, 4935-4941.	3.2	45
74	Widespread Genetic Switches and Toxicity Resistance Proteins for Fluoride. <i>Science</i> , 2012, 335, 233-235.	6.0	356
75	A highly specialized flavin mononucleotide riboswitch responds differently to similar ligands and confers roseoflavin resistance to <i>Streptomyces davawensis</i> . <i>Nucleic Acids Research</i> , 2012, 40, 8662-8673.	6.5	75
76	Identification of Ligand Analogues that Control c-di-GMP Riboswitches. <i>ACS Chemical Biology</i> , 2012, 7, 1436-1443.	1.6	41
77	Fluoride enhances the activity of fungicides that destabilize cell membranes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3317-3322.	1.0	31
78	Mechanism and Distribution of glmS Ribozymes. <i>Methods in Molecular Biology</i> , 2012, 848, 113-129.	0.4	22
79	New Insight on the Response of Bacteria to Fluoride. <i>Caries Research</i> , 2012, 46, 78-81.	0.9	47
80	Prospects for Riboswitch Discovery and Analysis. <i>Molecular Cell</i> , 2011, 43, 867-879.	4.5	445
81	Association of OLE RNA with bacterial membranes via an RNAâ€‘protein interaction. <i>Molecular Microbiology</i> , 2011, 79, 21-34.	1.2	28
82	Improved genetic transformation methods for the model alkaliphile <i>Bacillus halodurans</i> C-125. <i>Letters in Applied Microbiology</i> , 2011, 52, 430-432.	1.0	11
83	R2R - software to speed the depiction of aesthetic consensus RNA secondary structures. <i>BMC Bioinformatics</i> , 2011, 12, 3.	1.2	226
84	An expanded collection and refined consensus model of <i>glmS</i> ribozymes. <i>Rna</i> , 2011, 17, 728-736.	1.6	50
85	Mechanism for gene control by a natural allosteric group I ribozyme. <i>Rna</i> , 2011, 17, 1967-1972.	1.6	55
86	New families of human regulatory RNA structures identified by comparative analysis of vertebrate genomes. <i>Genome Research</i> , 2011, 21, 1929-1943.	2.4	100
87	Challenges of ligand identification for riboswitch candidates. <i>RNA Biology</i> , 2011, 8, 5-10.	1.5	61
88	Bacterial aptamers that selectively bind glutamine. <i>RNA Biology</i> , 2011, 8, 82-89.	1.5	85
89	Identification of Hammerhead Ribozymes in All Domains of Life Reveals Novel Structural Variations. <i>PLoS Computational Biology</i> , 2011, 7, e1002031.	1.5	124
90	A Eubacterial Riboswitch Class That Senses the Coenzyme Tetrahydrofolate. <i>Chemistry and Biology</i> , 2010, 17, 681-685.	6.2	86

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91	Evidence for Widespread Gene Control Function by the <i>ydaO</i> Riboswitch Candidate. <i>Journal of Bacteriology</i> , 2010, 192, 3983-3989.	1.0	60
92	RNA Switches Out in the Cold. <i>Molecular Cell</i> , 2010, 37, 1-2.	4.5	21
93	An Allosteric Self-Splicing Ribozyme Triggered by a Bacterial Second Messenger. <i>Science</i> , 2010, 329, 845-848.	6.0	309
94	Comparative genomics reveals 104 candidate structured RNAs from bacteria, archaea, and their metagenomes. <i>Genome Biology</i> , 2010, 11, R31.	13.9	348
95	RNA Second Messengers and Riboswitches: Relics from the RNA World?. <i>Microbe Magazine</i> , 2010, 5, 13-20.	0.4	7
96	The large, noncoding OLE RNA is associated with membrane biochemistry. <i>FASEB Journal</i> , 2010, 24, 493.2.	0.2	0
97	Roseoflavin is a natural antibacterial compound that binds to FMN riboswitches and regulates gene expression. <i>RNA Biology</i> , 2009, 6, 187-194.	1.5	202
98	A variant riboswitch aptamer class for <i>S</i> -adenosylmethionine common in marine bacteria. <i>Rna</i> , 2009, 15, 2046-2056.	1.6	96
99	Riboswitches: from ancient gene-control systems to modern drug targets. <i>Future Microbiology</i> , 2009, 4, 771-773.	1.0	60
100	Identification of candidate structured RNAs in the marine organism 'Candidatus Pelagibacter ubique'. <i>BMC Genomics</i> , 2009, 10, 268.	1.2	56
101	Engineering ligand-responsive gene-control elements: lessons learned from natural riboswitches. <i>Gene Therapy</i> , 2009, 16, 1189-1201.	2.3	68
102	Exceptional structured noncoding RNAs revealed by bacterial metagenome analysis. <i>Nature</i> , 2009, 462, 656-659.	13.7	102
103	A plant 5S ribosomal RNA mimic regulates alternative splicing of transcription factor IIIA pre-mRNAs. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 541-549.	3.6	43
104	Structural basis of ligand binding by a c-di-GMP riboswitch. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1218-1223.	3.6	257
105	Unique glycine-activated riboswitch linked to glycine-serine auxotrophy in SAR11. <i>Environmental Microbiology</i> , 2009, 11, 230-238.	1.8	90
106	The Structural and Functional Diversity of Metabolite-Binding Riboswitches. <i>Annual Review of Biochemistry</i> , 2009, 78, 305-334.	5.0	506
107	Design and Antimicrobial Action of Purine Analogues That Bind Guanine Riboswitches. <i>ACS Chemical Biology</i> , 2009, 4, 915-927.	1.6	113
108	FINDING NON-CODING RNAs THROUGH GENOME-SCALE CLUSTERING. <i>Journal of Bioinformatics and Computational Biology</i> , 2009, 07, 373-388.	0.3	28

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109	In Vitro Selection of glmS Ribozymes. <i>Methods in Molecular Biology</i> , 2009, 540, 349-364.	0.4	1
110	A plant 5S rRNA mimic regulates alternative splicing of transcription factor IIIA pre-mRNAs. <i>FASEB Journal</i> , 2009, 23, 665.4.	0.2	0
111	A widespread riboswitch candidate that controls bacterial genes involved in molybdenum cofactor and tungsten cofactor metabolism. <i>Molecular Microbiology</i> , 2008, 68, 918-932.	1.2	142
112	In-Line Probing Analysis of Riboswitches. <i>Methods in Molecular Biology</i> , 2008, 419, 53-67.	0.4	289
113	Purine sensing by riboswitches. <i>Biology of the Cell</i> , 2008, 100, 1-11.	0.7	87
114	Riboswitches in Eubacteria Sense the Second Messenger Cyclic Di-GMP. <i>Science</i> , 2008, 321, 411-413.	6.0	654
115	Riboswitches that Sense S-adenosylhomocysteine and Activate Genes Involved in Coenzyme Recycling. <i>Molecular Cell</i> , 2008, 29, 691-702.	4.5	153
116	Riboswitches that sense S-adenosylmethionine and S-adenosylhomocysteine This paper is one of a selection of papers published in this Special Issue, entitled CSBMCB "Systems and Chemical Biology, and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2008, 86, 157-168.	0.9	105
117	Complex Riboswitches. <i>Science</i> , 2008, 319, 1795-1797.	6.0	105
118	The aptamer core of SAM-IV riboswitches mimics the ligand-binding site of SAM-I riboswitches. <i>Rna</i> , 2008, 14, 822-828.	1.6	103
119	Confirmation of a second natural preQ1 aptamer class in Streptococcaceae bacteria. <i>Rna</i> , 2008, 14, 685-695.	1.6	102
120	In Vitro Selection and Characterization of Cellulose-Binding RNA Aptamers Using isothermal Amplification. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2008, 27, 949-966.	0.4	18
121	Riboswitches as new antibiotics targets. <i>FASEB Journal</i> , 2008, 22, 264.3.	0.2	0
122	Ligand binding and gene control characteristics of tandem riboswitches in <i>Bacillus anthracis</i> . <i>Rna</i> , 2007, 13, 573-582.	1.6	110
123	A Computational Pipeline for High- Throughput Discovery of cis-Regulatory Noncoding RNA in Prokaryotes. <i>PLoS Computational Biology</i> , 2007, 3, e126.	1.5	77
124	Identification of 22 candidate structured RNAs in bacteria using the CMfinder comparative genomics pipeline. <i>Nucleic Acids Research</i> , 2007, 35, 4809-4819.	6.5	292
125	Guanine riboswitch variants from <i>Mesoplasma florum</i> selectively recognize 2-deoxyguanosine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16092-16097.	3.3	129
126	In vitro selection and characterization of cellulose-binding DNA aptamers. <i>Nucleic Acids Research</i> , 2007, 35, 6378-6388.	6.5	46



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127	Engineering high-speed allosteric hammerhead ribozymes. <i>Biological Chemistry</i> , 2007, 388, 779-786.	1.2	50
128	The distributions, mechanisms, and structures of metabolite-binding riboswitches. <i>Genome Biology</i> , 2007, 8, R239.	13.9	414
129	Riboswitch Control of Gene Expression in Plants by Splicing and Alternative 3' End Processing of mRNAs. <i>Plant Cell</i> , 2007, 19, 3437-3450.	3.1	281
130	Importance of the Debye Screening Length on Nanowire Field Effect Transistor Sensors. <i>Nano Letters</i> , 2007, 7, 3405-3409.	4.5	716
131	Antibacterial lysine analogs that target lysine riboswitches. , 2007, 3, 44-49.		205
132	A riboswitch selective for the queuosine precursor preQ1 contains an unusually small aptamer domain. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 308-317.	3.6	224
133	Control of alternative RNA splicing and gene expression by eukaryotic riboswitches. <i>Nature</i> , 2007, 447, 497-500.	13.7	377
134	Tandem Riboswitch Architectures Exhibit Complex Gene Control Functions. <i>Science</i> , 2006, 314, 300-304.	6.0	232
135	Riboswitches: Natural Metabolite-binding RNAs Controlling Gene Expression. , 2006, , 191-207.		0
136	Riboswitches as antibacterial drug targets. <i>Nature Biotechnology</i> , 2006, 24, 1558-1564.	9.4	419
137	Structural basis for gene regulation by a thiamine pyrophosphate-sensing riboswitch. <i>Nature</i> , 2006, 441, 1167-1171.	13.7	404
138	Molecular-Recognition Characteristics of SAM-Binding Riboswitches. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 964-968.	7.2	51
139	Characteristics of Ligand Recognition by glmS Self-Cleaving Ribozyme. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6689-6693.	7.2	58
140	Development and Application of a High-Throughput Assay for glmS Riboswitch Activators. <i>RNA Biology</i> , 2006, 3, 77-81.	1.5	71
141	Examination of the structural and functional versatility of glmS ribozymes by using in vitro selection. <i>Nucleic Acids Research</i> , 2006, 34, 4968-4975.	6.5	21
142	Characteristics of the glmS ribozyme suggest only structural roles for divalent metal ions. <i>Rna</i> , 2006, 12, 607-619.	1.6	102
143	Identification of a large noncoding RNA in extremophilic eubacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19490-19495.	3.3	34
144	Riboswitches as Genetic Control Elements. , 2006, , 89-106.		0

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145	Genetic control by riboswitches and ribozymes. <i>FASEB Journal</i> , 2006, 20, A455.	0.2	0
146	Riboswitches: Regulators of modern and ancient metabolism. <i>Biochemist</i> , 2006, 28, 11-15.	0.2	1
147	Gene expression control: Harnessing RNA switches. <i>Gene Therapy</i> , 2005, 12, 725-726.	2.3	6
148	Thiamine Pyrophosphate Riboswitches Are Targets for the Antimicrobial Compound Pyrithiamine. <i>Chemistry and Biology</i> , 2005, 12, 1325-1335.	6.2	237
149	Computational design and experimental validation of oligonucleotide-sensing allosteric ribozymes. <i>Nature Biotechnology</i> , 2005, 23, 1424-1433.	9.4	199
150	Riboswitches as versatile gene control elements. <i>Current Opinion in Structural Biology</i> , 2005, 15, 342-348.	2.6	503
151	Engineered allosteric ribozymes that respond to specific divalent metal ions. <i>Nucleic Acids Research</i> , 2005, 33, 622-631.	6.5	59
152	REGULATION OF BACTERIAL GENE EXPRESSION BY RIBOSWITCHES. <i>Annual Review of Microbiology</i> , 2005, 59, 487-517.	2.9	687
153	6S RNA is a widespread regulator of eubacterial RNA polymerase that resembles an open promoter. <i>Rna</i> , 2005, 11, 774-784.	1.6	210
154	The Kinetics of Ligand Binding by an Adenine-Sensing Riboswitch. <i>Biochemistry</i> , 2005, 44, 13404-13414.	1.2	264
155	The Speed of RNA Transcription and Metabolite Binding Kinetics Operate an FMN Riboswitch. <i>Molecular Cell</i> , 2005, 18, 49-60.	4.5	430
156	Evidence for a second class of S-adenosylmethionine riboswitches and other regulatory RNA motifs in alpha-proteobacteria. <i>Genome Biology</i> , 2005, 6, R70.	13.9	213
157	New RNA motifs suggest an expanded scope for riboswitches in bacterial genetic control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6421-6426.	3.3	432
158	Selection In Vitro of Allosteric Ribozymes. , 2004, 252, 145-164.		19
159	Coenzyme B12 riboswitches are widespread genetic control elements in prokaryotes. <i>Nucleic Acids Research</i> , 2004, 32, 143-150.	6.5	292
160	Gene regulation by riboswitches. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 451-463.	16.1	799
161	Adenine riboswitches and gene activation by disruption of a transcription terminator. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 29-35.	3.6	471
162	Control of gene expression by a natural metabolite-responsive ribozyme. <i>Nature</i> , 2004, 428, 281-286.	13.7	847

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163	Natural and engineered nucleic acids as tools to explore biology. <i>Nature</i> , 2004, 432, 838-845.	13.7	336
164	Structural Basis for Discriminative Regulation of Gene Expression by Adenine- and Guanine-Sensing mRNAs. <i>Chemistry and Biology</i> , 2004, 11, 1729-1741.	6.2	505
165	Ligating DNA with DNA. <i>Journal of the American Chemical Society</i> , 2004, 126, 3454-3460.	6.6	100
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