

Roger A Garrett

List of Publications by Year in descending order

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218
papers

14,860
citations

20759

60
h-index

23472

111
g-index

226
all docs

226
docs citations

226
times ranked

7849
citing authors

#	ARTICLE	IF	CITATIONS
1	An updated evolutionary classification of CRISPR-Cas systems. <i>Nature Reviews Microbiology</i> , 2015, 13, 722-736.	13.6	2,081
2	Evolutionary classification of CRISPR-Cas systems: a burst of class 2 and derived variants. <i>Nature Reviews Microbiology</i> , 2020, 18, 67-83.	13.6	1,427
3	Viruses of the Archaea: a unifying view. <i>Nature Reviews Microbiology</i> , 2006, 4, 837-848.	13.6	344
4	Protospacer recognition motifs. <i>RNA Biology</i> , 2013, 10, 891-899.	1.5	309
5	The Genome of <i>Sulfolobus acidocaldarius</i> , a Model Organism of the Crenarchaeota. <i>Journal of Bacteriology</i> , 2005, 187, 4992-4999.	1.0	262
6	The mosaic genome structure of the <i>Wolbachia w</i> strain infecting <i>Drosophila simulans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5725-5730.	3.3	236
7	A putative viral defence mechanism in archaeal cells. <i>Archaea</i> , 2006, 2, 59-72.	2.3	235
8	A novel interference mechanism by a type III CRISPR-Cmr module in <i>Sulfolobus</i> . <i>Molecular Microbiology</i> , 2013, 87, 1088-1099.	1.2	224
9	CRISPR families of the crenarchaeal genus <i>Sulfolobus</i> : bidirectional transcription and dynamic properties. <i>Molecular Microbiology</i> , 2009, 72, 259-272.	1.2	214
10	Dynamic properties of the <i>Sulfolobus</i> CRISPR/Cas and CRISPR/Cmr systems when challenged with vector-borne viral and plasmid genes and protospacers. <i>Molecular Microbiology</i> , 2011, 79, 35-49.	1.2	205
11	Evolutionary relationships amongst archaebacteria. <i>Journal of Molecular Biology</i> , 1987, 195, 43-61.	2.0	198
12	Evolutionary genomics of archaeal viruses: Unique viral genomes in the third domain of life. <i>Virus Research</i> , 2006, 117, 52-67.	1.1	198
13	Identification of novel non-coding RNAs as potential antisense regulators in the archaeon <i>Sulfolobus solfataricus</i> . <i>Molecular Microbiology</i> , 2004, 55, 469-481.	1.2	189
14	The primary structures of two leghemoglobin genes from soybean. <i>Nucleic Acids Research</i> , 1982, 10, 689-701.	6.5	171
15	Independent virus development outside a host. <i>Nature</i> , 2005, 436, 1101-1102.	13.7	169
16	Fine Structure of the Peptidyl Transferase Centre on 23 S-like rRNAs Deduced from Chemical Probing of Antibiotic-Ribosome Complexes. <i>Journal of Molecular Biology</i> , 1995, 247, 224-235.	2.0	153
17	Sequence, organization, transcription and evolution of RNA polymerase subunit genes from the archaebacterial extreme halophiles <i>Halobacterium halobium</i> and <i>Halococcus morrhuae</i> . <i>Journal of Molecular Biology</i> , 1989, 206, 1-17.	2.0	148
18	Genetic elements in the extremely thermophilic archaeon <i>Sulfolobus</i> . <i>Extremophiles</i> , 1998, 2, 131-140.	0.9	148

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19	Genome Analyses of Icelandic Strains of <i>Sulfolobus islandicus</i> , Model Organisms for Genetic and Virus-Host Interaction Studies. <i>Journal of Bacteriology</i> , 2011, 193, 1672-1680.	1.0	139
20	Novel splicing mechanism for the ribosomal RNA intron in the archaeobacterium <i>Desulfurococcus mobilis</i> . <i>Cell</i> , 1988, 54, 693-703.	13.5	136
21	Characterization of the binding sites of protein L11 and the L10.(L12) ₄ pentameric complex in the GTPase domain of 23 S ribosomal RNA from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1990, 213, 275-288.	2.0	134
22	Selective and hyperactive uptake of foreign DNA by adaptive immune systems of an archaeon via two distinct mechanisms. <i>Molecular Microbiology</i> , 2012, 85, 1044-1056.	1.2	134
23	CRISPR adaptive immune systems of Archaea. <i>RNA Biology</i> , 2014, 11, 156-167.	1.5	129
24	Type IV CRISPR-Cas systems are highly diverse and involved in competition between plasmids. <i>Nucleic Acids Research</i> , 2020, 48, 2000-2012.	6.5	128
25	AFV1, a novel virus infecting hyperthermophilic archaea of the genus <i>acidianus</i> . <i>Virology</i> , 2003, 315, 68-79.	1.1	124
26	An Investigation of the 16-S RNA Binding Sites of Ribosomal Proteins S4, S8, S15 and S20 from <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1975, 51, 165-180.	0.2	115
27	The antibiotic thiostrepton inhibits a functional transition within protein L11 at the ribosomal GTPase centre 1 Edited by D. E. Draper. <i>Journal of Molecular Biology</i> , 1998, 276, 391-404.	2.0	114
28	Divergent transcriptional and translational signals in Archaea. <i>Environmental Microbiology</i> , 2005, 7, 47-54.	1.8	113
29	Sequences and Replication of Genomes of the Archaeal Rudiviruses SIRV1 and SIRV2: Relationships to the Archaeal Lipothrixvirus SIFV and Some Eukaryal Viruses. <i>Virology</i> , 2001, 291, 226-234.	1.1	112
30	Morphology and genome organization of the virus PSV of the hyperthermophilic archaeal genera <i>Pyrobaculum</i> and <i>Thermoproteus</i> : a novel virus family, the Globuloviridae. <i>Virology</i> , 2004, 323, 233-242.	1.1	112
31	Structural and Genomic Properties of the Hyperthermophilic Archaeal Virus ATV with an Extracellular Stage of the Reproductive Cycle. <i>Journal of Molecular Biology</i> , 2006, 359, 1203-1216.	2.0	110
32	The genetic element pSSVx of the extremely thermophilic crenarchaeon <i>Sulfolobus</i> is a hybrid between a plasmid and a virus. <i>Molecular Microbiology</i> , 1999, 34, 217-226.	1.2	107
33	The Scottish Structural Proteomics Facility: targets, methods and outputs. <i>Journal of Structural and Functional Genomics</i> , 2010, 11, 167-180.	1.2	107
34	An intron in the 23S ribosomal RNA gene of the archaeobacterium <i>Desulfurococcus mobilis</i> . <i>Nature</i> , 1985, 318, 675-677.	13.7	104
35	Relationships between fuselloviruses infecting the extremely thermophilic archaeon <i>Sulfolobus</i> : SSV1 and SSV2. <i>Research in Microbiology</i> , 2003, 154, 295-302.	1.0	104
36	Viral Diversity in Hot Springs of Pozzuoli, Italy, and Characterization of a Unique Archaeal Virus, <i>Acidianus</i> Bottle-Shaped Virus, from a New Family, the Ampullaviridae. <i>Journal of Virology</i> , 2005, 79, 9904-9911.	1.5	101

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37	Comprehensive search for accessory proteins encoded with archaeal and bacterial type III CRISPR- <i>cas</i> gene cassettes reveals 39 new <i>cas</i> gene families. <i>RNA Biology</i> , 2019, 16, 530-542.	1.5	97
38	Archaeal CRISPR-based immune systems: exchangeable functional modules. <i>Trends in Microbiology</i> , 2011, 19, 549-556.	3.5	96
39	A plasmid-coded and site-directed mutation in <i>Escherichia coli</i> 23S rRNA that confers resistance to erythromycin: implications for the mechanism of action of erythromycin. <i>Biochimie</i> , 1987, 69, 891-900.	1.3	94
40	Distribution of CRISPR spacer matches in viruses and plasmids of crenarchaeal acidothermophiles and implications for their inhibitory mechanism. <i>Biochemical Society Transactions</i> , 2009, 37, 23-28.	1.6	93
41	CRISPR/Cas and Cmr modules, mobility and evolution of adaptive immune systems. <i>Research in Microbiology</i> , 2011, 162, 27-38.	1.0	92
42	Mobile elements in archaeal genomes. <i>FEMS Microbiology Letters</i> , 2002, 206, 131-141.	0.7	89
43	Genomic comparison of archaeal conjugative plasmids from <i>Sulfolobus</i> . <i>Archaea</i> , 2004, 1, 231-239.	2.3	85
44	Four newly isolated fuselloviruses from extreme geothermal environments reveal unusual morphologies and a possible interviral recombination mechanism. <i>Environmental Microbiology</i> , 2009, 11, 2849-2862.	1.8	85
45	Characterizing leader sequences of CRISPR loci. <i>Bioinformatics</i> , 2016, 32, i576-i585.	1.8	81
46	Mapping Important Nucleotides in the Peptidyl Transferase Centre of 23 S rRNA using a Random Mutagenesis Approach. <i>Journal of Molecular Biology</i> , 1995, 249, 1-10.	2.0	76
47	Archaeal rRNA operons. <i>Trends in Biochemical Sciences</i> , 1991, 16, 22-26.	3.7	75
48	Sites of interaction of streptogramin A and B antibiotics in the peptidyl transferase loop of 23 S rRNA and the synergism of their inhibitory mechanisms 1 Edited by D. E. Draper. <i>Journal of Molecular Biology</i> , 1999, 286, 375-387.	2.0	74
49	pING Family of Conjugative Plasmids from the Extremely Thermophilic Archaeon <i>Sulfolobus islandicus</i> : Insights into Recombination and Conjugation in Crenarchaeota. <i>Journal of Bacteriology</i> , 2000, 182, 7014-7020.	1.0	74
50	Viruses of hyperthermophilic Crenarchaea. <i>Trends in Microbiology</i> , 2005, 13, 535-542.	3.5	74
51	An Attempt at the Identification of the Proteins Involved in the Incorporation of 5-S RNA during 50-S Ribosomal Subunit Assembly. <i>FEBS Journal</i> , 1972, 28, 412-421.	0.2	72
52	Molecular Model for 5-S RNA. A Small-Angle X-Ray Scattering Study of Native, Denatured and Aggregated 5-S RNA from <i>Escherichia coli</i> Ribosomes. <i>FEBS Journal</i> , 1976, 68, 481-487.	0.2	70
53	A ribonuclease-resistant region of 5S RNA and its relation to the RNA binding sites of proteins L18 and L25. <i>Nucleic Acids Research</i> , 1979, 6, 2453-2470.	6.5	70
54	Modulation of CRISPR locus transcription by the repeat-binding protein Cbp1 in <i>Sulfolobus</i> . <i>Nucleic Acids Research</i> , 2012, 40, 2470-2480.	6.5	70

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55	The phylogenetic relations of DNA-dependent RNA polymerases of archaebacteria, eukaryotes, and eubacteria. Canadian Journal of Microbiology, 1989, 35, 73-80.	0.8	69
56	Inter-viral conflicts that exploit host CRISPR immune systems of <i>Sulfolobus</i> . Molecular Microbiology, 2014, 91, 900-917.	1.2	68
57	Evolution of the family of pRN plasmids and their integrase-mediated insertion into the chromosome of the crenarchaeon <i>Sulfolobus solfataricus</i> 1 Edited by J. Karn. Journal of Molecular Biology, 2000, 303, 449-454.	2.0	67
58	Genus-Specific Protein Binding to the Large Clusters of DNA Repeats (Short Regularly Spaced Repeats) Present in <i>Sulfolobus</i> Genomes. Journal of Bacteriology, 2003, 185, 2410-2417.	1.0	67
59	General vectors for archaeal hyperthermophiles: Strategies based on a mobile intron and a plasmid. FEMS Microbiology Reviews, 1996, 18, 93-104.	3.9	65
60	Higher order structure in the 3'-minor domain of small subunit ribosomal RNAs from a gram negative bacterium, a gram positive bacterium and a eukaryote. Journal of Molecular Biology, 1983, 169, 249-279.	2.0	64
61	CRISPR-based immune systems of the Sulfolobales: complexity and diversity. Biochemical Society Transactions, 2011, 39, 51-57.	1.6	64
62	Structure of 5 S ribosomal RNA from <i>Escherichia coli</i> : Identification of kethoxal-reactive sites in the A and B conformations. Journal of Molecular Biology, 1979, 132, 621-636.	2.0	61
63	A novel rudivirus, ARV1, of the hyperthermophilic archaeal genus <i>Acidianus</i> . Virology, 2005, 336, 83-92.	1.1	61
64	Studies on the binding of the ribosomal protein complex L7/12-L10 and protein L11 to the 5'-one third of 23S RNA: a functional centre of the 50S subunit. Nucleic Acids Research, 1979, 6, 2717-2729.	6.5	60
65	Mutations and Rearrangements in the Genome of <i>Sulfolobus solfataricus</i> P2. Journal of Bacteriology, 2006, 188, 4198-4206.	1.0	59
66	Completing the sequence of the <i>Sulfolobus solfataricus</i> P2 genome. Extremophiles, 1998, 2, 305-312.	0.9	58
67	<i>Stygiolobus</i> Rod-Shaped Virus and the Interplay of Crenarchaeal Rudiviruses with the CRISPR Antiviral System. Journal of Bacteriology, 2008, 190, 6837-6845.	1.0	58
68	Domain VI of <i>Escherichia coli</i> 23 S ribosomal RNA. Journal of Molecular Biology, 1988, 204, 507-522.	2.0	57
69	CRISPRstrand: predicting repeat orientations to determine the crRNA-encoding strand at CRISPR loci. Bioinformatics, 2014, 30, i489-i496.	1.8	57
70	Structure and accessibility of domain I of <i>Escherichia coli</i> 23 S RNA in free RNA, in the L24-RNA complex and in 50 S subunits. Journal of Molecular Biology, 1987, 196, 125-136.	2.0	56
71	The antibiotic micrococcin acts on protein L11 at the ribosomal GTPase centre 1 Edited by D. E. Draper. Journal of Molecular Biology, 1999, 287, 33-45.	2.0	56
72	Structures of complexes of 5S RNA with ribosomal proteins L5, L18 and L25 from <i>Escherichia coli</i> : Identification of kethoxal-reactive sites on the 5S RNA. Journal of Molecular Biology, 1979, 132, 637-648.	2.0	54

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73	Secondary structure of prokaryotic 5S ribosomal ribonucleic acids: a study with ribonucleases. <i>Biochemistry</i> , 1981, 20, 7301-7307.	1.2	54
74	Movement of the 3'-end of tRNA through the peptidyl transferase centre and its inhibition by antibiotics. <i>FEBS Letters</i> , 1997, 406, 223-233.	1.3	54
75	Gene organization, transcription signals and processing of the single ribosomal RNA operon of the archaeobacterium <i>Thermoproteus tenax</i> . <i>Nucleic Acids Research</i> , 1987, 15, 4821-4835.	6.5	53
76	Gene capture in archaeal chromosomes. <i>Nature</i> , 2001, 409, 478-478.	13.7	52
77	Binding sites of ribosomal proteins on prokaryotic 5S RNAs: a study with ribonucleases. <i>Biochemistry</i> , 1982, 21, 2313-2320.	1.2	51
78	A Ribosomal RNA Operon and its Flanking Region from the Archaeobacterium <i>Methanobacterium thermoautotrophicum</i> , Marburg Strain: Transcription Signals, RNA Structure and Evolutionary Implications. <i>Systematic and Applied Microbiology</i> , 1987, 9, 199-209.	1.2	51
79	Structure and Genome Organization of AFV2, a Novel Archaeal Lipothrixvirus with Unusual Terminal and Core Structures. <i>Journal of Bacteriology</i> , 2005, 187, 3855-3858.	1.0	51
80	Evidence for tertiary structural RNA-RNA interactions within the protein S4 binding site at the 5'-end of 16S ribosomal RNA of <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 1975, 2, 1867-1888.	6.5	50
81	A new method for the isolation of A 5 S RNA complex with proteins L5, L18 and L25 from <i>Escherichia coli</i> ribosomes. <i>FEBS Letters</i> , 1977, 74, 287-291.	1.3	50
82	Structure of a protein L23-RNA complex located at the A-site domain of the ribosomal peptidyl transferase centre. <i>Journal of Molecular Biology</i> , 1984, 179, 431-452.	2.0	50
83	Protein-coding introns from the 23S rRNA-encoding gene form stable circles in the hyperthermophilic archaeon <i>Pyrobaculum organotrophum</i> . <i>Gene</i> , 1992, 121, 103-110.	1.0	50
84	Attachment sites of primary binding proteins L1, L2 and L23 on 23 S ribosomal RNA of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1991, 222, 251-264.	2.0	49
85	Genome of the <i>Acidianus</i> bottle-shaped virus and insights into the replication and packaging mechanisms. <i>Virology</i> , 2007, 364, 237-243.	1.1	49
86	Structure of the <i>Acidianus</i> Filamentous Virus 3 and Comparative Genomics of Related Archaeal Lipothrixviruses. <i>Journal of Virology</i> , 2008, 82, 371-381.	1.5	49
87	Conservation of the Type IV Secretion System throughout <i>Wolbachia</i> evolution. <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 557-562.	1.0	49
88	A new RNA-RNA crosslinking reagent and its application to ribosomal 5S RNA. <i>Nucleic Acids Research</i> , 1978, 5, 4065-4076.	6.5	46
89	Alteration of 5S RNA conformation by ribosomal proteins L18 and L25. <i>Nucleic Acids Research</i> , 1977, 4, 2511-2526.	6.5	45
90	Novel expression of the ribosomal RNA genes in the extreme thermophile and archaeobacterium <i>Desulfurococcus mobilis</i> . <i>EMBO Journal</i> , 1987, 6, 3521-3530.	3.5	45

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91	Ribosomal Mechanics, Antibiotics, and GTP Hydrolysis. <i>Cell</i> , 1999, 97, 423-426.	13.5	45
92	Comparison of transfer RNA and ribosomal RNA intron splicing in the extreme thermophile and archaeobacterium <i>Desulfurococcus mobilis</i> . <i>Canadian Journal of Microbiology</i> , 1989, 35, 210-214.	0.8	44
93	CRISPR-Cas systems are widespread accessory elements across bacterial and archaeal plasmids. <i>Nucleic Acids Research</i> , 2022, 50, 4315-4328.	6.5	44
94	Novel insights into gene regulation of the rudivirus SIRV2 infecting <i>Sulfolobus</i> cells. <i>RNA Biology</i> , 2013, 10, 875-885.	1.5	43
95	A Sparsomycin-resistant Mutant of <i>Halobacterium salinarium</i> Lacks a Modification at Nucleotide U2603 in the Peptidyl Transferase Centre of 23 S rRNA. <i>Journal of Molecular Biology</i> , 1996, 261, 231-238.	2.0	42
96	Structure of Bacterial Ribosomes. <i>Advances in Protein Chemistry</i> , 1973, 27, 277-347.	4.4	41
97	Structural Characteristics of the Stable RNA Introns of Archaeal Hyperthermophiles and their Splicing Junctions. <i>Journal of Molecular Biology</i> , 1994, 243, 846-855.	2.0	41
98	The genome of <i>Hyperthermus butylicus</i> : a sulfur-reducing, peptide fermenting, neutrophilic Crenarchaeote growing up to 108 ÅC. <i>Archaea</i> , 2007, 2, 127-135.	2.3	41
99	Viruses in acidic geothermal environments of the Kamchatka Peninsula. <i>Research in Microbiology</i> , 2008, 159, 358-366.	1.0	41
100	Comparison of <i>Escherichia coli</i> tRNA ^{Phe} in the Free State, in the Ternary Complex and in the Ribosomal A and P Sites by Chemical Probing. <i>FEBS Journal</i> , 1983, 131, 261-269.	0.2	40
101	Non-autonomous mobile elements in the crenarchaeon <i>Sulfolobus solfataricus</i> Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2001, 306, 1-6.	2.0	40
102	The Topography of the 5' End of 16-S RNA in the Presence and Absence of Ribosomal Proteins S4 and S20. <i>FEBS Journal</i> , 1980, 103, 439-446.	0.2	39
103	Evolutionary divergence between the ribosomal RNA operons of <i>Halococcus morrhuae</i> and <i>Desulfurococcus mobilis</i> . <i>Systematic and Applied Microbiology</i> , 1986, 7, 49-57.	1.2	39
104	Metagenomic analyses of novel viruses and plasmids from a cultured environmental sample of hyperthermophilic neutrophiles. <i>Environmental Microbiology</i> , 2010, 12, 2918-2930.	1.8	39
105	CRISPR-Cas Adaptive Immune Systems of the Sulfolobales: Unravelling Their Complexity and Diversity. <i>Life</i> , 2015, 5, 783-817.	1.1	39
106	A novel single-tailed fusiform <i>Sulfolobus</i> virus STSV2 infecting model <i>Sulfolobus</i> species. <i>Extremophiles</i> , 2014, 18, 51-60.	0.9	38
107	Distribution of Protein Assembly Sites along the 23-S Ribosomal RNA of <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1976, 69, 401-410.	0.2	37
108	Structure of eukaryotic 5S ribonucleic acid: a study of <i>Saccharomyces cerevisiae</i> 5S RNA with ribonucleases. <i>Biochemistry</i> , 1982, 21, 4823-4830.	1.2	37

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109	The Donor Substrate Site within the Peptidyl Transferase Loop of 23 S rRNA and its Putative Interactions with the CCA-end of N-blocked Aminoacyl-tRNAPhe. <i>Journal of Molecular Biology</i> , 1996, 264, 472-483.	2.0	37
110	Getting the best out of long-wavelength X-rays: <i>de novo</i> chlorine/sulfur SAD phasing of a structural protein from ATV. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 304-308.	2.5	37
111	Assembly of proteins and 5 S rRNA to transcripts of the major structural domains of 23 S rRNA 1 Edited by D. E. Draper. <i>Journal of Molecular Biology</i> , 1998, 284, 227-240.	2.0	36
112	A Dimeric Rep Protein Initiates Replication of a Linear Archaeal Virus Genome: Implications for the Rep Mechanism and Viral Replication. <i>Journal of Virology</i> , 2011, 85, 925-931.	1.5	36
113	The RNA binding properties of <i>native</i> ™ protein-protein complexes isolated from the Escherichia coli ribosome. <i>FEBS Letters</i> , 1977, 77, 295-300.	1.3	35
114	Multiple variants of the archaeal DNA rudivirus SIRV1 in a single host and a novel mechanism of genomic variation. <i>Molecular Microbiology</i> , 2004, 54, 366-375.	1.2	35
115	Genomic analysis of <i>Acidianus hospitalis</i> W1 a host for studying crenarchaeal virus and plasmid life cycles. <i>Extremophiles</i> , 2011, 15, 487-497.	0.9	35
116	Cross-hypersensitivity Effects of Mutations in 23 S rRNA Yield Insight into Aminoacyl-tRNA Binding. <i>Journal of Molecular Biology</i> , 1994, 244, 151-157.	2.0	34
117	DNA substrate specificity and cleavage kinetics of an archaeal homing-type endonuclease from <i>Pyrobaculum organotrophum</i> . <i>Nucleic Acids Research</i> , 1994, 22, 4583-4590.	6.5	34
118	Transcriptome changes in STSV2-infected <i>Sulfolobus islandicus</i> ...REY15A undergoing continuous CRISPR spacer acquisition. <i>Molecular Microbiology</i> , 2016, 99, 719-728.	1.2	34
119	Role for the highly conserved region of domain IV of 23 S-1 ike rRNA in subunit-subunit interactions at the peptidyl transferase centre. <i>Nucleic Acids Research</i> , 1995, 23, 1512-1517.	6.5	33
120	A Trypsin-Resistant Fragment from Complexes of Ribosomal Protein S4 with 16-S RNA of Escherichia coli and from the Uncomplexed Protein. <i>FEBS Journal</i> , 1977, 76, 51-61.	0.2	32
121	Protein L18 binds primarily at the junctions of helix II and internal loops A and B in Escherichia coli 5 S RNA. <i>Journal of Molecular Biology</i> , 1989, 206, 651-668.	2.0	32
122	Peptidyl transferase antibiotics perturb the relative positioning of the 3'-terminal adenosine of P-site-bound tRNA and 23S rRNA in the ribosome. <i>Rna</i> , 1999, 5, 1003-1013.	1.6	31
123	Chemical Evidence for a Codon-Induced Allosteric Change in tRNA ^{Lys} Involving the 7-Methylguanosine Residue 46. <i>FEBS Journal</i> , 1979, 97, 615-621.	0.2	30
124	The sequence of the 16S RNA gene and its flanking region from the archaeobacterium <i>Desulfurococcus mobilis</i> . <i>Systematic and Applied Microbiology</i> , 1987, 9, 22-28.	1.2	30
125	A partial localisation of the binding sites of the 50 S subunit proteins L1, L20 and L23 on 23 S ribosomal RNA of Escherichia coli. <i>FEBS Letters</i> , 1975, 52, 195-201.	1.3	28
126	The Binding Site of Protein L1 on 23-S Ribosomal RNA of Escherichia coli. 2. Identification of the RNA Region Contained in the L1 Ribonucleoproteins and Determination of the Order of the RNA Subfragments within this Region. <i>FEBS Journal</i> , 1976, 70, 457-469.	0.2	28

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127	Mechanics of the ribosome. <i>Nature</i> , 1999, 400, 811-812.	13.7	28
128	Phylogenetic Relationships Amongst the Hyperthermophilic Archaea Determined from Partial 23S rRNA Gene Sequences. <i>Systematic and Applied Microbiology</i> , 1992, 15, 203-208.	1.2	27
129	Puromycinâ€rRNA interaction sites at the peptidyl transferase center. <i>Rna</i> , 2000, 6, 744-754.	1.6	26
130	Chaperone Role for Proteins p618 and p892 in the Extracellular Tail Development of Acidianus Two-Tailed Virus. <i>Journal of Virology</i> , 2011, 85, 4812-4821.	1.5	26
131	Small-Angle X-Ray Studies on the Structure of 16-S Ribosomal RNA and of a Complex of Ribosomal Protein S4 and 16-S Ribosomal RNA from <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1975, 59, 63-71.	0.2	24
132	Fragment of protein L18 from the <i>Escherichia coli</i> ribosome that contains the 5S RNA binding site. <i>Nucleic Acids Research</i> , 1978, 5, 1753-1766.	6.5	24
133	Alternative conformers of 5S ribosomal RNA and their biological relevance. <i>Biochemistry</i> , 1985, 24, 2284-2291.	1.2	23
134	<i>Sulfolobus</i> genome: from genomics to biology. <i>Current Opinion in Microbiology</i> , 1998, 1, 584-588.	2.3	23
135	Novel RepA-MCM proteins encoded in plasmids pTAU4, pORA1 and pTIK4 from <i>Sulfolobus neozealandicus</i> . <i>Archaea</i> , 2005, 1, 319-325.	2.3	23
136	The expression of one ankyrin pk2 allele of the WO prophage is correlated with the <i>Wolbachia</i> feminizing effect in isopods. <i>BMC Microbiology</i> , 2012, 12, 55.	1.3	23
137	Archaeal virusesâ€novel, diverse and enigmatic. <i>Science China Life Sciences</i> , 2012, 55, 422-433.	2.3	23
138	The role of the basic N-terminal region of protein L18 in 5S RNAâ€23S RNA complex formation. <i>Nucleic Acids Research</i> , 1980, 8, 4131-4142.	6.5	22
139	Comparison of eubacterial and eukaryotic 5S RNA structures: a chemical modification study. <i>Biochemistry</i> , 1985, 24, 241-250.	1.2	22
140	SMV1 virus-induced CRISPR spacer acquisition from the conjugative plasmid pMGB1 in <i>Sulfolobus solfataricus</i> P2. <i>Biochemical Society Transactions</i> , 2013, 41, 1449-1458.	1.6	22
141	A consensus model of the <i>Escherichia coli</i> ribosome. <i>Trends in Biochemical Sciences</i> , 1983, 8, 359-363.	3.7	21
142	[30] Enzymatic and chemical probing of ribosomal RNAâ€Protein interactions. <i>Methods in Enzymology</i> , 1988, 164, 456-468.	0.4	21
143	Sequence, Organization and Transcription of the Ribosomal RNA Operon and the Downstream tRNA and Protein Genes in the Archaeobacterium <i>Thermofilum pendents</i> . <i>Systematic and Applied Microbiology</i> , 1990, 13, 117-127.	1.2	21
144	Antibiotic inhibition of the movement of tRNA substrates through a peptidyl transferase cavity. <i>Biochemistry and Cell Biology</i> , 1995, 73, 877-885.	0.9	21

#	ARTICLE	IF	CITATIONS
145	Archaea and the new age of microorganisms. <i>Trends in Ecology and Evolution</i> , 1998, 13, 190-194.	4.2	21
146	Secondary structural elements exclusive to the sequences flanking ribosomal RNAs lend support to the monophyletic nature of the archaeobacteria. <i>Journal of Molecular Evolution</i> , 1990, 31, 25-32.	0.8	20
147	Characterization and transcriptional analysis of two gene clusters for type IV secretion machinery in <i>Wolbachia</i> of <i>Armadillidium vulgare</i> . <i>Research in Microbiology</i> , 2008, 159, 481-485.	1.0	20
148	Repression of RNA polymerase by the archaeo-viral regulator ORF145/RIP. <i>Nature Communications</i> , 2016, 7, 13595.	5.8	20
149	Low angle X-ray diffraction from dilute nucleohistone gels. <i>Nucleic Acids and Protein Synthesis</i> , 1971, 246, 553-560.	1.7	19
150	Small-Angle X-Ray Titration Study on the Complex Formation between 5-S RNA and the L18 Protein of the <i>Escherichia coli</i> 50-S Ribosome Particle. <i>FEBS Journal</i> , 1977, 79, 67-72.	0.2	19
151	RNA-RNA interactions in the binding site of protein L24 on 23S ribosomal RNA of <i>Escherichia coli</i> : 1. Evidence for their occurrence between widely separated sequence regions. <i>Nucleic Acids Research</i> , 1978, 5, 3503-3514.	6.5	19
152	Molecular evolution: The uniqueness of Archaeobacteria. <i>Nature</i> , 1985, 318, 233-234.	13.7	19
153	Higher-order structure in the 3'-terminal domain VI of the 23 S ribosomal RNAs from <i>Escherichia coli</i> and <i>Bacillus stearothermophilus</i> . <i>Journal of Molecular Biology</i> , 1984, 179, 689-712.	2.0	18
154	UV-induced modifications in the peptidyl transferase loop of 23S rRNA dependent on binding of the streptogramin B antibiotic, pristinamycin IA. <i>Rna</i> , 1999, 5, 585-595.	1.6	18
155	Diverse CRISPR-Cas responses and dramatic cellular DNA changes and cell death in pKEF9-conjugated <i>Sulfolobus</i> species. <i>Nucleic Acids Research</i> , 2016, 44, 4233-4242.	6.5	18
156	The Binding Site of Protein L1 on 23-S Ribosomal RNA of <i>Escherichia coli</i> . 1. Isolation and Characterization. <i>FEBS Journal</i> , 1976, 70, 447-456.	0.2	16
157	Archaeal rRNA Operons, Intron Splicing and Homing Endonucleases, RNA Polymerase Operons and Phylogeny. <i>Systematic and Applied Microbiology</i> , 1993, 16, 680-691.	1.2	15
158	AAA ATPase p529 of <i>Acidianus</i> two-tailed virus ATV and host receptor recognition. <i>Virology</i> , 2011, 421, 61-66.	1.1	15
159	Major and minor crRNA annealing sites facilitate low stringency DNA protospacer binding prior to Type I-A CRISPR-Cas interference in <i>Sulfolobus</i> . <i>RNA Biology</i> , 2016, 13, 1166-1173.	1.5	15
160	The characterisation of a fragment of ribosomal protein S4 that is protected against trypsin digestion by 16S ribosomal RNA of <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 1975, 2, 931-942.	6.5	14
161	Native and denatured structures within the 5'-region of 16 S ribosomal RNA from <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1977, 84, 37-42.	1.3	14
162	Small-angle x-ray scattering study of S4-RNA, the 16 S RNA binding site for the protein S4 from <i>Escherichia coli</i> ribosomes. <i>FEBS Letters</i> , 1977, 80, 169-172.	1.3	13

#	ARTICLE	IF	CITATIONS
163	Genome Sequence of a Novel Archaeal Rudivirus Recovered from a Mexican Hot Spring. <i>Genome Announcements</i> , 2013, 1, .	0.8	13
164	A ribonucleoprotein core in the 50 S ribosomal subunit of <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1978, 94, 207-212.	1.3	12
165	Genomes: <i>Methanococcus jannaschii</i> and the golden fleece. <i>Current Biology</i> , 1996, 6, 1377-1380.	1.8	12
166	Stable maintenance of the rudivirus SIRV3 in a carrier state in <i>Sulfolobus islandicus</i> despite activation of the CRISPR-Cas immune response by a second virus SMV1. <i>RNA Biology</i> , 2019, 16, 557-565.	1.5	12
167	Phylogenetic Analysis of the Archaeal Order of Sulfolobales Based on Sequences of 23S rRNA Genes and 16S/23S rDNA Spacers. <i>Systematic and Applied Microbiology</i> , 1996, 19, 61-65.	1.2	11
168	Gene content and organization of a 281-kbp contig from the genome of the extremely thermophilic archaeon, <i>Sulfolobus solfataricus</i> P2. <i>Genome</i> , 2000, 43, 116-136.	0.9	11
169	Genome Sequence of a Novel Archaeal Fusellovirus Assembled from the Metagenome of a Mexican Hot Spring. <i>Genome Announcements</i> , 2013, 1, e0016413.	0.8	11
170	A Bac Library and Paired-PCR Approach to Mapping and Completing the Genome Sequence of <i>Sulfolobus Solfataricus</i> P2. <i>DNA Sequence</i> , 2000, 11, 183-192.	0.7	10
171	Solution properties of the archaeal CRISPR DNA repeat-binding homeodomain protein Cbp2. <i>Nucleic Acids Research</i> , 2013, 41, 3424-3435.	6.5	10
172	Structure of the Yeast Ribosomal Stalk. , 2014, , 115-125.		10
173	Predicted highly derived class 1 CRISPR-Cas system in Haloarchaea containing diverged Cas5 and Cas7 homologs but no CRISPR array. <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	10
174	Discovery and Seminal Developments in the CRISPR Field. , 2013, , 1-31.		9
175	Small-angle X-ray titration of the complex formed between the ribosomal protein S4 and its 16S binding site, S4-RNA: a central core in the 30S subunit. <i>Nucleic Acids Research</i> , 1978, 5, 3579-3588.	6.5	8
176	Genome Sequence of the Acidophilic Bacterium <i>Acidocella</i> sp. Strain MX-AZ02. <i>Genome Announcements</i> , 2013, 1, .	0.8	8
177	Discovery and Seminal Developments in the CRISPR Field. , 2013, , 1-31.		8
178	Archaeal Plasmids. , 0, , 377-392.		8
179	Ribosomal Elongation Cycle. , 0, , 319-335.		8
180	The ribosomal S4-RNA fragment melts cooperatively when complexed with protein S4. <i>FEBS Letters</i> , 1979, 100, 99-102.	1.3	7

#	ARTICLE	IF	CITATIONS
181	Antibiotics and active ribosomal RNA sites. Trends in Biochemical Sciences, 1983, 8, 189-190.	3.7	7
182	Adenosine triphosphatases of thermophilic archaeal double-stranded DNA viruses. Cell and Bioscience, 2014, 4, 37.	2.1	7
183	Crystal Structure of ATVORF273, a New Fold for a Thermo- and Acido-Stable Protein from the Acidianus Two-Tailed Virus. PLoS ONE, 2012, 7, e45847.	1.1	7
184	Roles for ribosomal proteins. Trends in Biochemical Sciences, 1983, 8, 75-76.	3.7	6
185	A note on the storage of soluble nucleohistone. Nucleic Acids and Protein Synthesis, 1971, 232, 43-47.	1.7	5
186	A backward view from 16S rRNA to archaea to the universal tree of life to progenotes. RNA Biology, 2014, 11, 232-235.	1.5	5
187	Mechanisms of Partial Reactions of the Elongation Cycle Catalyzed by Elongation Factors Tu and G. , 0, , 299-317.		5
188	On the preparation and long range order of soluble nucleohistone. Nucleic Acids and Protein Synthesis, 1970, 213, 215-222.	1.7	4
189	tRNA binding to ribosomes "two sites or more?". Trends in Biochemical Sciences, 1982, 7, 79.	3.7	4
190	Crystallization and preliminary X-ray diffraction analysis of protein 14 from Sulfolobus islandicus filamentous virus (SIFV). Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 884-886.	0.7	4
191	Archaeal Type II Toxin-Antitoxins. , 2013, , 225-238.		4
192	[49] Primer-directed deletions in 5S ribosomal RNA. Methods in Enzymology, 1988, 164, 710-721.	0.4	3
193	Selective and hyperactive uptake of foreign DNA by adaptive immune systems of an archaeon via two distinct mechanisms. Molecular Microbiology, 2012, 86, 757-757.	1.2	3
194	Three-Dimensional Organization of the Bacterial Ribosome and Its Subunits: Transition from Low-Resolution Models to High-Resolution Structures. , 0, , 151-163.		3
195	Reconstitution of the 50S Subunit with In Vitro-Transcribed 23S rRNA: a New Tool for Studying Peptidyltransferase. , 0, , 229-243.		3
196	Antibiotics and the Peptidyltransferase Center. , 0, , 441-449.		3
197	Sulfolobus Genomes: Mechanisms of Rearrangement and Change. , 0, , 95-104.		2
198	Archaeal Viruses of the Sulfolobales: Isolation, Infection, and CRISPR Spacer Acquisition. Methods in Molecular Biology, 2015, 1311, 223-232.	0.4	2

#	ARTICLE	IF	CITATIONS
199	Archaeal physiology: The secrets of termination. <i>Nature Microbiology</i> , 2016, 1, 16159.	5.9	2
200	CRISPR/Cas and CRISPR/Cmr Immune Systems of Archaea. , 2012, , 163-181.		2
201	General vectors for archaeal hyperthermophiles: Strategies based on a mobile intron and a plasmid. <i>FEMS Microbiology Reviews</i> , 1996, 18, 93-104.	3.9	2
202	How Ribosomal Proteins and rRNA Recognize One Another. , 0, , 93-104.		2
203	RNA Tertiary Structure and Protein Recognition in an L11-RNA Complex. , 0, , 105-114.		2
204	Antibiotic Biosynthesis: Some Thoughts on "Why?" and "How?". , 0, , 407-417.		2
205	Macrolide Resistance Conferred by Alterations in the Ribosome Target Site. , 0, , 431-439.		2
206	Gene content and organization of a 281-kbp contig from the genome of the extremely thermophilic archaeon, <i>Sulfolobus solfataricus</i> P2. <i>Genome</i> , 2000, 43, 116-136.	0.9	2
207	The conformation of histone-poly rI.rC complexes. <i>Biopolymers</i> , 1972, 11, 1311-1316.	1.2	1
208	The conformation of a large RNA fragment from the E.coli ribosomal 16S-RNA. An X-ray and neutron small-angle scattering study. <i>Nucleic Acids Research</i> , 1980, 8, 6221-6231.	6.5	1
209	Stable Maintenance in Halobacteria of Plasmids Harboring rDNA. <i>Systematic and Applied Microbiology</i> , 1993, 16, 672-679.	1.2	1
210	Genomic context drives transcription of insertion sequences in the bacterial endosymbiont <i>Wolbachia wVulC</i> . <i>Gene</i> , 2015, 564, 81-86.	1.0	1
211	Visualization of the Translational Elongation Cycle by Cryo-Electron Microscopy. , 0, , 35-44.		1
212	Probing Ribosomal Structure and Function: Analyses with rRNA and Protein Mutants. , 0, , 215-227.		1
213	A Domain of 23S Ribosomal RNA in Search of a Function. , 1986, , 221-237.		1
214	Crystal Structure of the Large Ribosomal Subunit at 5-Angstrom Resolution. , 0, , 11-20.		1
215	Applying Photolabile Derivatives of Oligonucleotides To Probe the Peptidyltransferase Center. , 0, , 271-285.		0
216	Progress toward the Crystal Structure of a Bacterial 30S Ribosomal Subunit. , 0, , 1-9.		0

#	ARTICLE	IF	CITATIONS
217	Structure and Evolution of the 23S rRNA Binding Domain of Protein L2. , 0, , 85-92.		0
218	Archaeal Viruses and Their Interactions with CRISPR-Cas Systems. , 2020, , 199-220.		0