

Roger A Garrett

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219
papers

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58
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13,480
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6.06
L-index

#	Paper	IF	Citations
219	An updated evolutionary classification of CRISPR-Cas systems. <i>Nature Reviews Microbiology</i> , 2015 , 13, 722-36	22.2	1434
218	Evolutionary classification of CRISPR-Cas systems: a burst of class 2 and derived variants. <i>Nature Reviews Microbiology</i> , 2020 , 18, 67-83	22.2	545
217	Viruses of the Archaea: a unifying view. <i>Nature Reviews Microbiology</i> , 2006 , 4, 837-48	22.2	283
216	Protospacer recognition motifs: mixed identities and functional diversity. <i>RNA Biology</i> , 2013 , 10, 891-9	4.8	245
215	The genome of <i>Sulfolobus acidocaldarius</i> , a model organism of the Crenarchaeota. <i>Journal of Bacteriology</i> , 2005 , 187, 4992-9	3.5	235
214	A putative viral defence mechanism in archaeal cells. <i>Archaea</i> , 2006 , 2, 59-72	2	221
213	The mosaic genome structure of the <i>Wolbachia</i> wRi strain infecting <i>Drosophila simulans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5725-30	11.5	207
212	A novel interference mechanism by a type IIIB CRISPR-Cmr module in <i>Sulfolobus</i> . <i>Molecular Microbiology</i> , 2013 , 87, 1088-99	4.1	194
211	CRISPR families of the crenarchaeal genus <i>Sulfolobus</i> : bidirectional transcription and dynamic properties. <i>Molecular Microbiology</i> , 2009 , 72, 259-72	4.1	194
210	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	4.1	184
209	Evolutionary relationships amongst archaeobacteria. A comparative study of 23 S ribosomal RNAs of a sulphur-dependent extreme thermophile, an extreme halophile and a thermophilic methanogen. <i>Journal of Molecular Biology</i> , 1987 , 195, 43-61	6.5	183
208	Evolutionary genomics of archaeal viruses: unique viral genomes in the third domain of life. <i>Virus Research</i> , 2006 , 117, 52-67	6.4	173
207	Identification of novel non-coding RNAs as potential antisense regulators in the archaeon <i>Sulfolobus solfataricus</i> . <i>Molecular Microbiology</i> , 2005 , 55, 469-81	4.1	173
206	The primary structures of two leghemoglobin genes from soybean. <i>Nucleic Acids Research</i> , 1982 , 10, 689-701	7.0	163
205	Sequence, organization, transcription and evolution of RNA polymerase subunit genes from the archaeobacterial extreme halophiles <i>Halobacterium halobium</i> and <i>Halococcus morrhuae</i> . <i>Journal of Molecular Biology</i> , 1989 , 206, 1-17	6.5	141
204	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, 224-35	6.5	140
203	Virology: independent virus development outside a host. <i>Nature</i> , 2005 , 436, 1101-2	50.4	128

202	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 Escherichia coli. <i>Journal of Molecular Biology</i> , 1990 , 213, 275-88	6.5	126
201	Genetic elements in the extremely thermophilic archaeon Sulfolobus. <i>Extremophiles</i> , 1998 , 2, 131-40	3	120
200	Novel splicing mechanism for the ribosomal RNA intron in the archaeobacterium Desulfurococcus mobilis. <i>Cell</i> , 1988 , 54, 693-703	56.2	119
199	Selective and hyperactive uptake of foreign DNA by adaptive immune systems of an archaeon via two distinct mechanisms. <i>Molecular Microbiology</i> , 2012 , 85, 1044-56	4.1	118
198	AFV1, a novel virus infecting hyperthermophilic archaea of the genus acidianus. <i>Virology</i> , 2003 , 315, 68-79	6.6	113
197	An investigation of the 16-S RNA binding sites of ribosomal proteins S4, S8, S15, and S20 FROM Escherichia coli. <i>FEBS Journal</i> , 1975 , 51, 165-80		112
196	CRISPR adaptive immune systems of Archaea. <i>RNA Biology</i> , 2014 , 11, 156-67	4.8	107
195	Genome analyses of Icelandic strains of Sulfolobus islandicus, model organisms for genetic and virus-host interaction studies. <i>Journal of Bacteriology</i> , 2011 , 193, 1672-80	3.5	106
194	The antibiotic thiostrepton inhibits a functional transition within protein L11 at the ribosomal GTPase centre. <i>Journal of Molecular Biology</i> , 1998 , 276, 391-404	6.5	106
193	Divergent transcriptional and translational signals in Archaea. <i>Environmental Microbiology</i> , 2005 , 7, 47-54	5.2	105
192	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, 226-34	3.6	103
191	Morphology and genome organization of the virus PSV of the hyperthermophilic archaeal genera Pyrobaculum and Thermoproteus: a novel virus family, the Globuloviridae. <i>Virology</i> , 2004 , 323, 233-42	3.6	98
190	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, 1203-16	6.5	97
189	An intron in the 23S ribosomal gene of the archaeobacterium Desulfurococcus mobilis. <i>Nature</i> , 1985 , 318, 675-7	50.4	97
188	The genetic element pSSVx of the extremely thermophilic crenarchaeon Sulfolobus is a hybrid between a plasmid and a virus. <i>Molecular Microbiology</i> , 1999 , 34, 217-26	4.1	95
187	The Scottish Structural Proteomics Facility: targets, methods and outputs. <i>Journal of Structural and Functional Genomics</i> , 2010 , 11, 167-80		92
186	Relationships between fuselloviruses infecting the extremely thermophilic archaeon Sulfolobus: SSV1 and SSV2. <i>Research in Microbiology</i> , 2003 , 154, 295-302	4	89
185	Viral diversity in hot springs of Pozzuoli, Italy, and characterization of a unique archaeal virus, Acidianus bottle-shaped virus, from a new family, the Ampullaviridae. <i>Journal of Virology</i> , 2005 , 79, 9904-11	6.6	89

184	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, 23-8	5.1	86
183	A plasmid-coded and site-directed mutation in Escherichia coli 23S RNA that confers resistance to erythromycin: implications for the mechanism of action of erythromycin. <i>Biochimie</i> , 1987 , 69, 891-900	4.6	86
182	Archaeal CRISPR-based immune systems: exchangeable functional modules. <i>Trends in Microbiology</i> , 2011 , 19, 549-56	12.4	84
181	CRISPR/Cas and Cmr modules, mobility and evolution of adaptive immune systems. <i>Research in Microbiology</i> , 2011 , 162, 27-38	4	80
180	Mobile elements in archaeal genomes. <i>FEMS Microbiology Letters</i> , 2002 , 206, 131-41	2.9	78
179	Four newly isolated fuselloviruses from extreme geothermal environments reveal unusual morphologies and a possible interviral recombination mechanism. <i>Environmental Microbiology</i> , 2009 , 11, 2849-62	5.2	75
178	Genomic comparison of archaeal conjugative plasmids from Sulfolobus. <i>Archaea</i> , 2004 , 1, 231-9	2	75
177	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	6.5	72
176	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. <i>Journal of Molecular Biology</i> , 1999 , 286, 375-87	6.5	70
175	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, 412-21		68
174	Viruses of hyperthermophilic Crenarchaea. <i>Trends in Microbiology</i> , 2005 , 13, 535-42	12.4	67
173	pING family of conjugative plasmids from the extremely thermophilic archaeon Sulfolobus islandicus: insights into recombination and conjugation in Crenarchaeota. <i>Journal of Bacteriology</i> , 2000 , 182, 7014-20	3.5	64
172	Evolution of the family of pRN plasmids and their integrase-mediated insertion into the chromosome of the crenarchaeon Sulfolobus solfataricus. <i>Journal of Molecular Biology</i> , 2000 , 303, 449-54	6.5	63
171	Archaeal rRNA operons. <i>Trends in Biochemical Sciences</i> , 1991 , 16, 22-6	10.3	63
170	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, 2453-70	20.1	62
169	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. <i>Journal of Molecular Biology</i> , 1983 , 169, 249-79	6.5	60
168	Inter-viral conflicts that exploit host CRISPR immune systems of Sulfolobus. <i>Molecular Microbiology</i> , 2014 , 91, 900-17	4.1	59
167	Modulation of CRISPR locus transcription by the repeat-binding protein Cbp1 in Sulfolobus. <i>Nucleic Acids Research</i> , 2012 , 40, 2470-80	20.1	59

166	Genus-specific protein binding to the large clusters of DNA repeats (short regularly spaced repeats) present in <i>Sulfolobus</i> genomes. <i>Journal of Bacteriology</i> , 2003 , 185, 2410-7	3.5	59
165	A novel rudivirus, ARV1, of the hyperthermophilic archaeal genus <i>Acidianus</i> . <i>Virology</i> , 2005 , 336, 83-92	3.6	59
164	The phylogenetic relations of DNA-dependent RNA polymerases of archaeobacteria, eukaryotes, and eubacteria. <i>Canadian Journal of Microbiology</i> , 1989 , 35, 73-80	3.2	59
163	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, 481-7		59
162	CRISPR-based immune systems of the Sulfolobales: complexity and diversity. <i>Biochemical Society Transactions</i> , 2011 , 39, 51-7	5.1	58
161	Type IV CRISPR-Cas systems are highly diverse and involved in competition between plasmids. <i>Nucleic Acids Research</i> , 2020 , 48, 2000-2012	20.1	57
160	Structure of 5 S ribosomal RNA from <i>Escherichia coli</i> : identification of kethoxal-reactive sites in the A and B conformations. <i>Journal of Molecular Biology</i> , 1979 , 132, 621-36	6.5	56
159	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. <i>Nucleic Acids Research</i> , 1979 , 6, 2717-29	20.1	56
158	<i>Stygiolobus</i> rod-shaped virus and the interplay of crenarchaeal rudiviruses with the CRISPR antiviral system. <i>Journal of Bacteriology</i> , 2008 , 190, 6837-45	3.5	55
157	Domain VI of <i>Escherichia coli</i> 23 S ribosomal RNA. Structure, assembly and function. <i>Journal of Molecular Biology</i> , 1988 , 204, 507-22	6.5	55
156	Mutations and rearrangements in the genome of <i>Sulfolobus solfataricus</i> P2. <i>Journal of Bacteriology</i> , 2006 , 188, 4198-206	3.5	54
155	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. Implications for ribosomal assembly. <i>Journal of Molecular Biology</i> , 1987 , 196, 125-36	6.5	53
154	Comprehensive search for accessory proteins encoded with archaeal and bacterial type III CRISPR-cas gene cassettes reveals 39 new cas gene families. <i>RNA Biology</i> , 2019 , 16, 530-542	4.8	52
153	The antibiotic micrococcin acts on protein L11 at the ribosomal GTPase centre. <i>Journal of Molecular Biology</i> , 1999 , 287, 33-45	6.5	52
152	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. <i>Journal of Molecular Biology</i> , 1979 , 132, 637-48	6.5	52
151	General vectors for archaeal hyperthermophiles: strategies based on a mobile intron and a plasmid. <i>FEMS Microbiology Reviews</i> , 1996 , 18, 93-104	15.1	51
150	Completing the sequence of the <i>Sulfolobus solfataricus</i> P2 genome. <i>Extremophiles</i> , 1998 , 2, 305-12	3	50
149	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, 4821-35	20.1	50

148	CRISPRstrand: predicting repeat orientations to determine the crRNA-encoding strand at CRISPR loci. <i>Bioinformatics</i> , 2014 , 30, i489-96	7.2	49
147	Gene capture in archaeal chromosomes. <i>Nature</i> , 2001 , 409, 478	50.4	49
146	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, 1867-88	20.1	48
145	Genome of the Acidianus bottle-shaped virus and insights into the replication and packaging mechanisms. <i>Virology</i> , 2007 , 364, 237-43	3.6	47
144	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, 431-52	6.5	47
143	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, 287-91	3.8	47
142	Movement of the 3'-end of tRNA through the peptidyl transferase centre and its inhibition by antibiotics. <i>FEBS Letters</i> , 1997 , 406, 223-33	3.8	46
141	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	4.2	46
140	Characterizing leader sequences of CRISPR loci. <i>Bioinformatics</i> , 2016 , 32, i576-i585	7.2	46
139	Structure and genome organization of AFV2, a novel archaeal lipothrixvirus with unusual terminal and core structures. <i>Journal of Bacteriology</i> , 2005 , 187, 3855-8	3.5	45
138	Secondary structure of prokaryotic 5S ribosomal ribonucleic acids: a study with ribonucleases. <i>Biochemistry</i> , 1981 , 20, 7301-7	3.2	45
137	Binding site of ribosomal proteins on prokaryotic 5S ribonucleic acids: a study with ribonucleases. <i>Biochemistry</i> , 1982 , 21, 2313-20	3.2	45
136	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, 103-10	3.8	44
135	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, 251-64	6.5	44
134	Structure of the acidianus filamentous virus 3 and comparative genomics of related archaeal lipothrixviruses. <i>Journal of Virology</i> , 2008 , 82, 371-81	6.6	43
133	Conservation of the Type IV secretion system throughout <i>Wolbachia</i> evolution. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 385, 557-62	3.4	42
132	Ribosomal mechanics, antibiotics, and GTP hydrolysis. <i>Cell</i> , 1999 , 97, 423-6	56.2	42
131	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, 210-4	3.2	41

130	A new RNA-RNA crosslinking reagent and its application to ribosomal 5S RNA. <i>Nucleic Acids Research</i> , 1978 , 5, 4065-75	20.1	41
129	Comparison of Escherichia coli tRNAPhe 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, 261-9		39
128	Alteration of 5S RNA conformation by ribosomal proteins L18 and L25. <i>Nucleic Acids Research</i> , 1977 , 4, 2511-26	20.1	39
127	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, 439-46		38
126	Viruses in acidic geothermal environments of the Kamchatka Peninsula. <i>Research in Microbiology</i> , 2008 , 159, 358-66	4	37
125	The genome of Hyperthermus butylicus: a sulfur-reducing, peptide fermenting, neutrophilic Crenarchaeote growing up to 108 degrees C. <i>Archaea</i> , 2007 , 2, 127-35	2	37
124	A sparsomycin-resistant mutant of Halobacterium salinarium lacks a modification at nucleotide U2603 in the peptidyl transferase centre of 23 S rRNA. <i>Journal of Molecular Biology</i> , 1996 , 261, 231-8	6.5	37
123	Novel expression of the ribosomal RNA genes in the extreme thermophile and archaebacterium Desulfurococcus mobilis. <i>EMBO Journal</i> , 1987 , 6, 3521-3530	13	37
122	Structure of bacterial ribosomes. <i>Advances in Protein Chemistry</i> , 1973 , 27, 277-347		37
121	Assembly of proteins and 5 S rRNA to transcripts of the major structural domains of 23 S rRNA. <i>Journal of Molecular Biology</i> , 1998 , 284, 227-40	6.5	36
120	Structural characteristics of the stable RNA introns of archaeal hyperthermophiles and their splicing junctions. <i>Journal of Molecular Biology</i> , 1994 , 243, 846-55	6.5	36
119	Distribution of Protein Assembly Sites along the 23-S Ribosomal RNA of Escherichia coli. <i>FEBS Journal</i> , 1976 , 69, 401-410		36
118	CRISPR-Cas Adaptive Immune Systems of the Sulfolobales: Unravelling Their Complexity and Diversity. <i>Life</i> , 2015 , 5, 783-817	3	35
117	Metagenomic analyses of novel viruses and plasmids from a cultured environmental sample of hyperthermophilic neutrophiles. <i>Environmental Microbiology</i> , 2010 , 12, 2918-30	5.2	35
116	Non-autonomous mobile elements in the crenarchaeon Sulfolobus solfataricus. <i>Journal of Molecular Biology</i> , 2001 , 306, 1-6	6.5	35
115	Evolutionary divergence between the ribosomal RNA operons of Halococcus morrhuae and Desulfurococcus mobilis. <i>Systematic and Applied Microbiology</i> , 1986 , 7, 49-57	4.2	35
114	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, 925-31	6.6	34
113	Getting the best out of long-wavelength X-rays: de novo chlorine/sulfur SAD phasing of a structural protein from ATV. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 304-8		34

112	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-tRNA(Phe). <i>Journal of Molecular Biology</i> , 1996 , 264, 472-83	6.5	34
111	A novel single-tailed fusiform Sulfolobus virus STSV2 infecting model Sulfolobus species. <i>Extremophiles</i> , 2014 , 18, 51-60	3	33
110	Novel insights into gene regulation of the rudivirus SIRV2 infecting Sulfolobus cells. <i>RNA Biology</i> , 2013 , 10, 875-85	4.8	33
109	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, 366-75	4.1	32
108	DNA substrate specificity and cleavage kinetics of an archaeal homing-type endonuclease from <i>Pyrobaculum organotrophum</i> . <i>Nucleic Acids Research</i> , 1994 , 22, 4583-90	20.1	32
107	The RNA binding properties of "native" protein-protein complexes isolated from the <i>Escherichia coli</i> ribosome. <i>FEBS Letters</i> , 1977 , 77, 295-300	3.8	32
106	Genomic analysis of <i>Acidianus hospitalis</i> W1 a host for studying crenarchaeal virus and plasmid life cycles. <i>Extremophiles</i> , 2011 , 15, 487-97	3	31
105	Role for the highly conserved region of domain IV of 23S-like rRNA in subunit-subunit interactions at the peptidyl transferase centre. <i>Nucleic Acids Research</i> , 1995 , 23, 1512-7	20.1	31
104	Cross-hypersensitivity effects of mutations in 23 S rRNA yield insight into aminoacyl-tRNA binding. <i>Journal of Molecular Biology</i> , 1994 , 244, 151-7	6.5	30
103	Protein L18 binds primarily at the junctions of helix II and internal loops A and B in <i>Escherichia coli</i> 5 S RNA. Implications for 5 S RNA structure. <i>Journal of Molecular Biology</i> , 1989 , 206, 651-68	6.5	30
102	A trypsin-resistant fragment from complexes of ribosomal protein S4 with 16-S RNA of <i>Escherichia coli</i> and from the uncomplexed protein. <i>FEBS Journal</i> , 1977 , 76, 51-61		30
101	The sequence of the 16S RNA gene and its flanking region from the archaebacterium <i>Desulfurococcus mobilis</i> . <i>Systematic and Applied Microbiology</i> , 1987 , 9, 22-28	4.2	29
100	Peptidyl transferase antibiotics perturb the relative positioning of the 3'-terminal adenosine of P/P'-site-bound tRNA and 23S rRNA in the ribosome. <i>Rna</i> , 1999 , 5, 1003-13	5.8	28
99	Structure of eukaryotic 5S ribonucleic acid: a study of <i>Saccharomyces cerevisiae</i> 5S ribonucleic acid with ribonucleases. <i>Biochemistry</i> , 1982 , 21, 4823-30	3.2	28
98	A partial localisation of the binding sites of the 50 S subunit proteins L1, L20 and L23 on 23 S ribosomal RNA of <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1975 , 52, 195-201	3.8	28
97	Chemical evidence for a codon-induced allosteric change in tRNA ^{Lys} involving the 7-methylguanosine residue 46. <i>FEBS Journal</i> , 1979 , 97, 615-21		26
96	The binding site of protein L1 ON 23-S ribosomal RNA of <i>Escherichia coli</i> . 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, 457-69		26
95	Phylogenetic Relationships Amongst the Hyperthermophilic Archaea Determined from Partial 23S rRNA Gene Sequences. <i>Systematic and Applied Microbiology</i> , 1992 , 15, 203-208	4.2	25

94	Chaperone role for proteins p618 and p892 in the extracellular tail development of <i>Acidianus</i> two-tailed virus. <i>Journal of Virology</i> , 2011 , 85, 4812-21	6.6	24
93	Transcriptome changes in STSV2-infected <i>Sulfolobus islandicus</i> REY15A undergoing continuous CRISPR spacer acquisition. <i>Molecular Microbiology</i> , 2016 , 99, 719-28	4.1	23
92	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, 1753-66	20.1	23
91	Novel RepA-MCM proteins encoded in plasmids pTAU4, pORA1 and pTIK4 from <i>Sulfolobus neozealandicus</i> . <i>Archaea</i> , 2005 , 1, 319-25	2	22
90	Puromycin-rRNA interaction sites at the peptidyl transferase center. <i>Rna</i> , 2000 , 6, 744-54	5.8	22
89	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		22
88	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	4.5	21
87	Archaeal viruses--novel, diverse and enigmatic. <i>Science China Life Sciences</i> , 2012 , 55, 422-33	8.5	21
86	SMV1 virus-induced CRISPR spacer acquisition from the conjugative plasmid pMGB1 in <i>Sulfolobus solfataricus</i> P2. <i>Biochemical Society Transactions</i> , 2013 , 41, 1449-58	5.1	21
85	<i>Sulfolobus</i> genome: from genomics to biology. <i>Current Opinion in Microbiology</i> , 1998 , 1, 584-8	7.9	21
84	Alternative conformers of 5S ribosomal RNA and their biological relevance. <i>Biochemistry</i> , 1985 , 24, 2284-91	3.2	21
83	Antibiotic inhibition of the movement of tRNA substrates through a peptidyl transferase cavity. <i>Biochemistry and Cell Biology</i> , 1995 , 73, 877-85	3.6	20
82	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	4.2	20
81	A consensus model of the <i>Escherichia coli</i> ribosome. <i>Trends in Biochemical Sciences</i> , 1983 , 8, 359-363	10.3	20
80	Comparison of eubacterial and eukaryotic 5S RNA structures: a chemical modification study. <i>Biochemistry</i> , 1985 , 24, 241-50	3.2	20
79	The role of the basic N-terminal region of protein L18 in 5S RNA-23S RNA complex formation. <i>Nucleic Acids Research</i> , 1980 , 8, 4131-42	20.1	20
78	Archaea and the new age of microorganisms. <i>Trends in Ecology and Evolution</i> , 1998 , 13, 190-4	10.9	18
77	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, 481-5	4	18

76	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	3.1	18
75	Enzymatic and chemical probing of ribosomal RNA-protein interactions. <i>Methods in Enzymology</i> , 1988 , 164, 456-68	1.7	18
74	Small-angle X-ray titration study on the complex formation between 5-S RNA and the L18 protein of the Escherichia coli 50-S ribosome particle. <i>FEBS Journal</i> , 1977 , 79, 56-72		18
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