Maria B Garber

List of Publications by Year
in descending order

73 papers	1,824 citations	218592 26 h-index	302012 39 g-index
73 all docs	73 docs citations	73 times ranked	1526 citing authors

#	Article	IF	Citations
1	Structure and Function of Archaeal Translation Initiation Factor 2 Fragments Containing Cys2â€'Cys2 Motifs. Biochemistry (Moscow), 2021, 86, 1003-1011.	0.7	1
2	Structure of the ribosomal P stalk base in archaean Methanococcus jannaschii. Journal of Structural Biology, 2020, 211, 107559.	1.3	4
3	The third structural switch in the archaeal translation initiation factor 2 (aIF2) molecule and its possible role in the initiation of GTP hydrolysis and the removal of aIF2 from the ribosome. Acta Crystallographica Section D: Structural Biology, 2019, 75, 392-399.	1.1	4
4	Crystal Structure of the 23S rRNA Fragment Specific to r-Protein L1 and Designed Model of the Ribosomal L1 Stalk from Haloarcula marismortui. Crystals, 2017, 7, 37.	1.0	9
5	Four translation initiation pathways employed by the leaderless mRNA in eukaryotes. Scientific Reports, 2016, 6, 37905.	1.6	40
6	Water clusters in the nucleotide-binding pocket of the protein aIF2Î³ from the archaeon Sulfolobus solfataricus: Proton transmission. Biochimie, 2016, 121, 197-203.	1.3	5
7	Crystallographic analysis of archaeal ribosomal protein L11. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1083-1087.	0.4	2
8	Proteinâ€"RNA affinity of ribosomal protein L1 mutants does not correlate with the number of intermolecular interactions. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 376-386.	2.5	12
9	Studying the Properties of Domain I of the Ribosomal Protein L1: Incorporation into Ribosome and Regulation of the L1 Operon Expression. Protein Journal, 2015, 34, 103-110.	0.7	8
10	Binding of the 5â€²-Triphosphate End of mRNA to the Î³-Subunit of Translation Initiation Factor 2 of the Crenarchaeon Sulfolobus solfataricus. Journal of Molecular Biology, 2015, 427, 3086-3095.	2.0	15
11	Conformational transitions in the Î³ subunit of the archaeal translation initiation factor 2. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 658-667.	2.5	13
12	Crystal Structure of the Archaeal Translation Initiation Factor 2 in Complex with a GTP Analogue and Met-tRNAfMet. Journal of Molecular Biology, 2013, 425, 989-998.	2.0	13
13	The base of the ribosomal P stalk fromMethanococcus jannaschii: crystallization and preliminary X-ray studies. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1288-1290.	0.7	2
14	Revisiting theHaloarcula marismortui50S ribosomal subunit model. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 997-1004.	2.5	40
15	Protein L5 is crucial for in vivo assembly of the bacterial 50S ribosomal subunit central protuberance. Nucleic Acids Research, 2012, 40, 9153-9159.	6.5	28
16	Hydration shells of molecules in molecular association: A mechanism for biomolecular recognition. Journal of Theoretical Biology, 2012, 301, 42-48.	0.8	11
17	Archaeal Translation Initiation Factor aIF2 Can Substitute for Eukaryotic eIF2 in Ribosomal Scanning during Mammalian 48S Complex Formation. Journal of Molecular Biology, 2011, 413, 106-114.	2.0	14
18	Disruption of shape complementarity in the ribosomal protein L1â€"RNA contact region does not hinder specific recognition of the RNA target site. Journal of Molecular Recognition, 2011, 24, 524-532.	1.1	9

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19	The structures of mutant forms of Hfq fromPseudomonas aeruginosareveal the importance of the conserved His57 for the protein hexamer organization. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 760-764.	0.7	25
20	Structure of a Two-Domain N-Terminal Fragment of Ribosomal Protein L10 from Methanococcus jannaschii Reveals a Specific Piece of the Archaeal Ribosomal Stalk. Journal of Molecular Biology, 2010, 399, 214-220.	2.0	18
21	High-resolution structure of methionine Î³-lyase fromCitrobacter freundii. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 211-218.	2.5	35
22	Crystal Structure of the Intact Archaeal Translation Initiation Factor 2 Demonstrates Very High Conformational Flexibility in the Î±- and Î²-Subunits. Journal of Molecular Biology, 2008, 382, 680-691.	2.0	53
23	Domain II of Thermus thermophilus Ribosomal Protein L1 Hinders Recognition of Its mRNA. Journal of Molecular Biology, 2008, 383, 301-305.	2.0	18
24	Domain I of ribosomal protein L1 is sufficient for specific RNA binding. Nucleic Acids Research, 2007, 35, 7389-7395.	6.5	17
25	Importance of the 5 S rRNA-binding Ribosomal Proteins for Cell Viability and Translation in Escherichia coli. Journal of Molecular Biology, 2007, 366, 1199-1208.	2.0	41
26	New Insights into the Interactions of the Translation Initiation Factor 2 from Archaea with Guanine Nucleotides and Initiator tRNA. Journal of Molecular Biology, 2007, 373, 328-336.	2.0	29
27	New Insights into the Interaction of Ribosomal Protein L1 with RNA. Journal of Molecular Biology, 2006, 355, 747-759.	2.0	40
28	30S ribosomal subunits can be assembled in vivo without primary binding ribosomal protein S15. Rna, 2006, 12, 1229-1239.	1.6	39
29	Structure ofPseudomonas aeruginosaHfq protein. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 141-146.	2.5	68
30	Preliminary investigation of the three-dimensional structure ofSalmonella typhimuriumuridine phosphorylase in the crystalline state. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 337-340.	0.7	18
31	The Crucial Role of Conserved Intermolecular H-bonds Inaccessible to the Solvent in Formation and Stabilization of the TL5Â·5 SrRNA Complex. Journal of Biological Chemistry, 2005, 280, 16151-16156.	1.6	14
32	Ribosomal protein L1 recognizes the same specific structural motif in its target sites on the autoregulatory mRNA and 23S rRNA. Nucleic Acids Research, 2005, 33, 478-485.	6.5	56
33	Analysis of Recognition of Transfer-messenger RNA by the Ribosomal Decoding Center. Journal of Molecular Biology, 2005, 346, 395-398.	2.0	12
34	Ribosomal Elongation Cycle: Energetic, Kinetic and Stereochemical Aspects. Journal of Molecular Biology, 2005, 351, 470-480.	2.0	15
35	Molecular Mimicry in Translational Regulation: The Case of Ribosomal Protein S15. RNA Biology, 2004, 1, 65-72.	1.5	27
36	NMR structure of the ribosomal protein L23 from Thermus thermophilus. Journal of Biomolecular NMR, 2003, 26, 131-137.	1.6	13

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37	Crystallization of Hfq protein: a bacterial gene-expression regulator. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1061-1063.	2.5	3
38	Structure of the L1 protuberance in the ribosome. Nature Structural Biology, 2003, 10, 104-108.	9.7	84
39	The solution structure of ribosomal protein L18 from Thermus thermophilus reveals a conserved RNA-binding fold. Biochemical Journal, 2002, 363, 553.	1.7	12
40	L22 Ribosomal Protein and Effect of Its Mutation on Ribosome Resistance to Erythromycin. Journal of Molecular Biology, 2002, 322, 635-644.	2.0	48
41	NMR Structure of Bacterial Ribosomal Protein L20: Implications for Ribosome Assembly and Translational Control. Journal of Molecular Biology, 2002, 323, 143-151.	2.0	24
42	Structure of ribosomal protein L1 fromMethanococcus thermolithotrophicus. Functionally important structural invariants on the L1 surface. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1023-1029.	2.5	12
43	Crystallization of RNA/protein complexes. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1664-1669.	2.5	4
44	Ribosome-associated factor Y adopts a fold resembling a double-stranded RNA binding domain scaffold. FEBS Journal, 2002, 269, 5182-5191.	0.2	27
45	Detailed analysis of RNA-protein interactions within the bacterial ribosomal protein L5/5S rRNA complex. Rna, 2002, 8, 1548-57.	1.6	22
46	Role of conserved nucleotides in building the 16 S rRNA binding site for ribosomal protein S15. Journal of Molecular Biology, 2001, 305, 785-803.	2.0	29
47	Detailed analysis of RNA-protein interactions within the ribosomal protein S8-rRNA complex from the archaeon Methanococcus jannaschii. Journal of Molecular Biology, 2001, 311, 311-324.	2.0	44
48	Structure of ribosomal protein TL5 complexed with RNA provides new insights into the CTC family of stress proteins. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 968-976.	2.5	38
49	Crystals of a mutant form of ribosomal protein L22 rendering bacterial ribosomes resistant to erythromycin. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1150-1152.	2.5	1
50	Crystal structure of the S15-rRNA complex. Nature Structural Biology, 2000, 7, 273-277.	9.7	74
51	Archaeal ribosomal protein L1: the structure provides new insights into RNA binding of the L1 protein family. Structure, 2000, 8, 363-371.	1.6	35
52	Another piece of the ribosome: solution structure of S16 and its location in the 30S subunit. Structure, 2000, 8, 875-882.	1.6	16
53	Letter to the editor: assignment and secondary structure identification of the ribosomal protein L18 from Thermus thermophilus. Journal of Biomolecular NMR, 2000, 17, 273-274.	1.6	4
54	Crystal structure combined with genetic analysis of the Thermus thermophilus ribosome recycling factor shows that a flexible hinge may act as a functional switch. Rna, 2000, 6, 1432-1444.	1.6	70

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55	The solution structure of ribosomal protein L36 from Thermus thermophilus reveals a zinc-ribbon-like fold 1 1Edited by P. E. Wright. Journal of Molecular Biology, 2000, 296, 169-180.	2.0	48
56	Proteolytic fragmentation of polypeptide release factor 1 of Thermus thermophilus and crystallization of the stable fragments. Biochimie, 2000, 82, 765-772.	1.3	10
57	Translation termination factor aRF1 from the archaeonMethanococcus jannaschiiis active with eukaryotic ribosomes. FEBS Letters, 2000, 472, 213-216.	1.3	38
58	Structure of ribosomal protein L30 from Thermus thermophilus at 1.9â€…Ã… resolution: conformational flexibility of the molecule. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1827-1833.	2.5	5
59	N-terminal domain, residues 1-91, of ribosomal protein TL5 fromThermus thermophilusbinds specifically and strongly to the region of 5S rRNA containing loop E. FEBS Letters, 1999, 451, 51-55.	1.3	15
60	Solution structure of the ribosomal protein S19 from Thermus thermophilus 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1999, 292, 1071-1081.	2.0	11
61	Crystals of ribosomal protein L1 from a hyperthermophilic archaeon Methanococcus jannaschii. IUBMB Life, 1998, 45, 349-354.	1.5	5
62	Crystal structure of ribosomal protein S8 from Thermus thermophilus reveals a high degree of structural conservation of a specific RNA binding site 1 1Edited by K. Nagai. Journal of Molecular Biology, 1998, 279, 233-244.	2.0	29
63	Structural Studies of Ribosomal Proteins. Biological Chemistry, 1998, 379, 795-806.	1.2	10
64	Preliminary NMR studies ofThermus thermophilusribosomal protein S19 overproduced inEscherichia coli. FEBS Letters, 1997, 415, 155-159.	1.3	2
65	Sequencing and analysis of the Thermus thermophilus ribosomal protein gene cluster equivalent to the spectinomycin operon. Gene, 1997, 193, 23-30.	1.0	4
66	Solution structure of the ribosomal RNA binding protein S15 from Thermus thermophilus. Nature Structural and Molecular Biology, 1997, 4, 20-23.	3.6	67
67	Ribosomal Protein S15 from Thermus Thermophilus. Cloning, Sequencing, Overexpression of the Gene and RNA-Binding Properties of the Protein. FEBS Journal, 1997, 246, 291-300.	0.2	29
68	The structure of elongation factor G in complex with GDP: conformational flexibility and nucleotide exchange. Structure, 1996, 4, 555-565.	1.6	137
69	Crystallographic studies of elongation factor G. Biochemistry and Cell Biology, 1995, 73, 1209-1216.	0.9	20
70	Ribosomal proteins and elongation factors. Current Opinion in Structural Biology, 1995, 5, 721-727.	2.6	51
71	Ribosomal protein L22 fromThermus thermophilus: sequencing overexpression and crystallisation. FEBS Letters, 1995, 369, 229-232.	1.3	7
72	The ribosomal protein S8 from Thermus thermophilus VK1. Sequencing of the gene, overexpression of the protein in Escherichia coli and interaction with rRNA. FEBS Journal, 1994, 223, 437-445.	0.2	21

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73	Ribosomal Proteins and Their Structural Transitions on and off the Ribosome. , 0, , 63-72.		0