

Galina G Karpova

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92
papers

1,631
citations

24
h-index

34
g-index

94
ext. papers

1,866
ext. citations

6.9
avg, IF

4.42
L-index

#	Paper	IF	Citations
92	Isolation of ribosomal subunits containing intact rRNA from human placenta: estimation of functional activity of 80S ribosomes. <i>Analytical Biochemistry</i> , 1991 , 198, 219-23	3.1	89
91	Characterization and analysis of posttranslational modifications of the human large cytoplasmic ribosomal subunit proteins by mass spectrometry and Edman sequencing. <i>The Protein Journal</i> , 2003 , 22, 249-58		63
90	Cytosolic YB-1 and NSUN2 are the only proteins recognizing specific motifs present in mRNAs enriched in exosomes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 664-673	4	59
89	HCV IRES interacts with the 18S rRNA to activate the 40S ribosome for subsequent steps of translation initiation. <i>Nucleic Acids Research</i> , 2013 , 41, 8706-14	20.1	53
88	Variable and conserved elements of human ribosomes surrounding the mRNA at the decoding and upstream sites. <i>Nucleic Acids Research</i> , 2004 , 32, 3282-93	20.1	53
87	Human ribosomal protein S13 regulates expression of its own gene at the splicing step by a feedback mechanism. <i>Nucleic Acids Research</i> , 2007 , 35, 6414-23	20.1	52
86	Characterization of the human small-ribosomal-subunit proteins by N-terminal and internal sequencing, and mass spectrometry. <i>FEBS Journal</i> , 1996 , 239, 144-9		52
85	Positioning of subdomain IIIId and apical loop of domain II of the hepatitis C IRES on the human 40S ribosome. <i>Nucleic Acids Research</i> , 2009 , 37, 1141-51	20.1	49
84	Proteins surrounding hairpin IIIe of the hepatitis C virus internal ribosome entry site on the human 40S ribosomal subunit. <i>Nucleic Acids Research</i> , 2006 , 34, 2027-36	20.1	44
83	Nucleotides of 18S rRNA surrounding mRNA codons at the human ribosomal A, P, and E sites: a crosslinking study with mRNA analogs carrying an aryl azide group at either the uracil or the guanine residue. <i>Rna</i> , 2000 , 6, 1727-36	5.8	42
82	Eukaryotic ribosomal protein S3: A constituent of translational machinery and an extraribosomal player in various cellular processes. <i>Biochimie</i> , 2014 , 99, 8-18	4.6	41
81	The first position of a codon placed in the A site of the human 80S ribosome contacts nucleotide C1696 of the 18S rRNA as well as proteins S2, S3, S3a, S30, and S15. <i>Biochemistry</i> , 2005 , 44, 2153-62	3.2	36
80	Positioning of the mRNA stop signal with respect to polypeptide chain release factors and ribosomal proteins in 80S ribosomes. <i>FEBS Letters</i> , 2002 , 514, 96-101	3.8	35
79	Expression and purification of human ribosomal proteins S3, S5, S10, S19, and S26. <i>Protein Expression and Purification</i> , 2003 , 28, 57-62	2	33
78	Roles of ribosomal proteins in the functioning of translational machinery of eukaryotes. <i>Biochimie</i> , 2015 , 109, 1-17	4.6	31
77	Three distinct peptides from the N domain of translation termination factor eRF1 surround stop codon in the ribosome. <i>Rna</i> , 2010 , 16, 1902-14	5.8	31
76	Complementary-addressed site-directed spin labeling of long natural RNAs. <i>Nucleic Acids Research</i> , 2016 , 44, 7935-43	20.1	31

75	Arrangement of mRNA at the decoding site of human ribosomes. 18S rRNA nucleotides and ribosomal proteins cross-linked to oligouridylate derivatives with alkylating groups at either the 3V or the 5Vtermini. <i>FEBS Journal</i> , 1994 , 226, 715-23		30
74	A versatile approach for site-directed spin labeling and structural EPR studies of RNAs. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 3129-36	3.9	29
73	mRNA 3Vof the A site bound codon is located close to protein S3 on the human 80S ribosome. <i>RNA Biology</i> , 2006 , 3, 122-9	4.8	27
72	Human ribosomal protein S26 suppresses the splicing of its pre-mRNA. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2005 , 1727, 134-40		27
71	A region in the C-terminal domain of ribosomal protein SA required for binding of SA to the human 40S ribosomal subunit. <i>Biochimie</i> , 2011 , 93, 612-7	4.6	26
70	Cross-linking of mRNA analogues containing 4-thiouridine residues on the 3V or 5Vside of the coding triplet to the mRNA binding center of the human ribosome. <i>Biochemistry</i> , 1994 , 33, 3878-84	3.2	26
69	mRNA binding track in the human 80S ribosome for mRNA analogues randomly substituted with 4-thiouridine residues. <i>Biochemistry</i> , 1994 , 33, 6201-6	3.2	25
68	Eukaryote-specific motif of ribosomal protein S15 neighbors A site codon during elongation and termination of translation. <i>Biochimie</i> , 2010 , 92, 820-5	4.6	23
67	Studying functional significance of the sequence 980-1061 in the central domain of human 18S rRNA using complementary DNA probes. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1997 , 1350, 335-44		23
66	Structural arrangement of tRNA binding sites on Escherichia coli ribosomes, as revealed from data on affinity labelling with photoactivatable tRNA derivatives. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1989 , 1008, 146-56		23
65	Structural features of the interaction of the 3Vuntranslated region of mRNA containing exosomal RNA-specific motifs with YB-1, a potential mediator of mRNA sorting. <i>Biochimie</i> , 2018 , 144, 134-143	4.6	22
64	The SBP2 protein central to selenoprotein synthesis contacts the human ribosome at expansion segment 7L of the 28S rRNA. <i>Rna</i> , 2014 , 20, 1046-56	5.8	20
63	Adenine and guanine recognition of stop codon is mediated by different N domain conformations of translation termination factor eRF1. <i>Nucleic Acids Research</i> , 2011 , 39, 7134-46	20.1	20
62	Structural arrangement of the decoding site of Escherichia coli ribosomes as revealed from the data on affinity labelling of ribosomes by analogs of mRNA--derivatives of oligoribonucleotides. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1990 , 1048, 245-56		20
61	Positioning of mRNA codons with respect to 18S rRNA at the P and E sites of human ribosome. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2003 , 1627, 39-46		19
60	Molecular contacts of ribose-phosphate backbone of mRNA with human ribosome. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015 , 1849, 930-9	6	18
59	A novel insight into the mechanism of mammalian selenoprotein synthesis. <i>Rna</i> , 2013 , 19, 1147-58	5.8	18
58	Interaction of human and Escherichia coli tRNA(Phe) with human 80S ribosomes in the presence of oligo- and polyuridylate templates. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1992 , 1171, 56-64		18

57	Proteins S7, S10, S16 and S19 of the human 40S ribosomal subunit are most resistant to dissociation by salt. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000 , 1494, 213-6		17
56	Exploring accessibility of structural elements of the mammalian 40S ribosomal mRNA entry channel at various steps of translation initiation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016 , 1864, 1328-38	4	16
55	Hydroxylated histidine of human ribosomal protein uL2 is involved in maintaining the local structure of 28S rRNA in the ribosomal peptidyl transferase center. <i>FEBS Journal</i> , 2015 , 282, 1554-66	5.7	16
54	Lys53 of ribosomal protein L36AL and the CCA end of a tRNA at the P/E hybrid site are in close proximity on the human ribosome. <i>ChemBioChem</i> , 2012 , 13, 1791-7	3.8	16
53	Ribosomal protein S5e is implicated in translation initiation through its interaction with the N-terminal domain of initiation factor eIF2. <i>ChemBioChem</i> , 2013 , 14, 2136-43	3.8	15
52	Interaction of tRNA with eukaryotic ribosome. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 7173-74	3.94	14
51	Photoactivatable RNA derivatives as tools for studying the structural and functional organization of complex cellular ribonucleoprotein machineries. <i>RSC Advances</i> , 2013 , 3, 2858-2872	3.7	14
50	A novel approach to introduce site-directed specific cross-links within RNA-protein complexes. Application to the Escherichia coli threonyl-tRNA synthetase/translational operator complex. <i>FEBS Journal</i> , 1995 , 231, 726-35		14
49	Exploring contacts of eRF1 with the 3' terminus of the P site tRNA and mRNA stop signal in the human ribosome at various translation termination steps. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017 , 1860, 782-793	6	13
48	A central fragment of ribosomal protein S26 containing the eukaryote-specific motif YxxPKxYxK is a key component of the ribosomal binding site of mRNA region 5' of the E site codon. <i>Nucleic Acids Research</i> , 2012 , 40, 3056-65	20.1	12
47	Protein environment of mRNA at the decoding site of 80S ribosomes from human placenta as revealed from affinity labeling with mRNA analogs--derivatives of oligoribonucleotides. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1997 , 1351, 325-32		12
46	Arrangement of mRNA 3' of the A site codon on the human 80S ribosome. <i>RNA Biology</i> , 2005 , 2, 63-9	4.8	12
45	The CCA-end of P-tRNA Contacts Both the Human RPL36AL and the A-site Bound Translation Termination Factor eRF1 at the Peptidyl Transferase Center of the Human 80S Ribosome. <i>The Open Biochemistry Journal</i> , 2014 , 8, 52-67	0.9	11
44	Recognition but no repair of abasic site in single-stranded DNA by human ribosomal uS3 protein residing within intact 40S subunit. <i>Nucleic Acids Research</i> , 2017 , 45, 3833-3843	20.1	10
43	Human ribosomal protein eS1 is engaged in cellular events related to processing and functioning of U11 snRNA. <i>Nucleic Acids Research</i> , 2017 , 45, 9121-9137	20.1	10
42	Structural and functional topography of the human ribosome. <i>Acta Biochimica Et Biophysica Sinica</i> , 2012 , 44, 281-99	2.8	10
41	Ribosomal protein S18e as a putative molecular staple for the 18S rRNA 3' major domain core. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 505-12	4	10
40	The ribosomal A site-bound sense and stop codons are similarly positioned towards the A1823-A1824 dinucleotide of the 18S ribosomal RNA. <i>FEBS Letters</i> , 2003 , 548, 97-102	3.8	10

39	Interactions of human ribosomal proteins S16 and S5 with an 18S rRNA fragment containing their binding sites. <i>Biochimie</i> , 2009 , 91, 1180-6	4.6	9
38	Nucleotides of 18S rRNA surrounding mRNA at the decoding site of translating human ribosome as revealed from the cross-linking data. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998 , 1397, 231-9		9
37	Site-specific modification of 4.5S RNA apical domain by complementary oligodeoxynucleotides carrying an alkylating group. <i>FEBS Journal</i> , 1998 , 251, 175-80		9
36	Exploring the interactions of short RNAs with the human 40S ribosomal subunit near the mRNA entry site by EPR spectroscopy. <i>Nucleic Acids Research</i> , 2019 , 47, 11850-11860	20.1	9
35	The human ribosome can interact with the abasic site in mRNA via a specific peptide of the uS3 protein located near the mRNA entry channel. <i>Biochimie</i> , 2019 , 158, 117-125	4.6	9
34	Doubly Spin-Labeled RNA as an EPR Reporter for Studying Multicomponent Supramolecular Assemblies. <i>Biophysical Journal</i> , 2015 , 109, 2637-2643	2.9	8
33	Structural motifs of the bacterial ribosomal proteins S20, S18 and S16 that contact rRNA present in the eukaryotic ribosomal proteins S25, S26 and S27A, respectively. <i>Nucleic Acids Research</i> , 2010 , 38, 2089-98	20.1	8
32	Sites of 18S rRNA contacting mRNA 3' and 5' of the P site codon in human ribosome: a cross-linking study with mRNAs carrying 4-thiouridines at specific positions. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2009 , 1789, 167-74	6	8
31	Human ribosomal protein S13: cloning, expression, refolding, and structural stability. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005 , 1747, 93-7	4	8
30	Exploring human 40S ribosomal proteins binding to the 18S rRNA fragment containing major 3' terminal domain. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 101-9	4	7
29	Chemical footprinting reveals conformational changes of 18S and 28S rRNAs at different steps of translation termination on the human ribosome. <i>Rna</i> , 2016 , 22, 278-89	5.8	7
28	Positioning of CCA-arms of the A- and the P-tRNAs towards the 28S rRNA in the human ribosome. <i>Biochimie</i> , 2013 , 95, 195-203	4.6	7
27	Hybridization of two oligodeoxynucleotides to both strands of an RNA hairpin structure increases the efficiency of RNA-DNA duplex formation. <i>FEBS Letters</i> , 1996 , 392, 114-6	3.8	7
26	Structural rearrangements in mRNA upon its binding to human 80S ribosomes revealed by EPR spectroscopy. <i>Nucleic Acids Research</i> , 2018 , 46, 897-904	20.1	7
25	Tetrapeptide 60-63 of human ribosomal protein uS3 is crucial for translation initiation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2019 , 1862, 194411	6	6
24	General approach for introduction of various chemical labels in specific RNA locations based on insertion of amino linkers. <i>Molecules</i> , 2013 , 18, 14455-69	4.8	6
23	mRNA regions where 80S ribosomes pause during translation elongation in vivo interact with protein uS19, a component of the decoding site. <i>Nucleic Acids Research</i> , 2020 , 48, 912-923	20.1	6
22	2'OH of mRNA are critical for the binding of its codons at the 40S ribosomal P site but not at the mRNA entry site. <i>FEBS Letters</i> , 2012 , 586, 3731-6	3.8	5

21	Site-specific cleavage of the 40S ribosomal subunit reveals eukaryote-specific ribosomal protein S28 in the subunit head. <i>FEBS Letters</i> , 2010 , 584, 4396-400	3.8	5
20	Arrangement of 3' terminus of tRNA on the human ribosome as revealed from cross-linking data. <i>Biochimie</i> , 2008 , 90, 1624-36	4.6	5
19	Knockdown of the Ribosomal Protein eL29 in Mammalian Cells Leads to Significant Changes in Gene Expression at the Transcription Level. <i>Cells</i> , 2020 , 9,	7.9	4
18	The central part of the 5.8 S rRNA is differently arranged in programmed and free human ribosomes. <i>Biochemical Journal</i> , 2005 , 387, 139-45	3.8	4
17	Proteins neighboring 18S rRNA conserved sequences 609-618 and 1047-1061 within the 40S human ribosomal subunit. <i>Rna</i> , 1999 , 5, 1656-64	5.8	4
16	Knockdown of the Ribosomal Protein eL38 in HEK293 Cells Changes the Translational Efficiency of Specific Genes. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
15	Ribosomal protein eL42 contributes to the catalytic activity of the yeast ribosome at the elongation step of translation. <i>Biochimie</i> , 2019 , 158, 20-33	4.6	4
14	Hydroxylation of protein constituents of the human translation system: structural aspects and functional assignments. <i>Future Medicinal Chemistry</i> , 2019 ,	4.1	3
13	Degenerate consensus sequences in the 3' untranslated regions of cellular mRNAs as specific motifs potentially involved in the YB-1-mediated packaging of these mRNAs. <i>Biochimie</i> , 2020 , 170, 152-162	4.6	3
12	The functional role of the C-terminal tail of the human ribosomal protein uS19. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2020 , 1863, 194490	6	3
11	Ribosomal protein uS3 in cell biology and human disease: Latest insights and prospects. <i>BioEssays</i> , 2020 , 42, e2000124	4.1	3
10	Knockdown of the mRNA encoding the ribosomal protein eL38 in mammalian cells causes a substantial reorganization of genomic transcription. <i>Biochimie</i> , 2021 , 184, 132-142	4.6	3
9	Arrangements of nucleotides flanking the start codon in the IRES of the hepatitis C virus in the IRES binary complex with the human 40S ribosomal subunit. <i>Biochimie</i> , 2018 , 148, 72-79	4.6	2
8	The eS26 protein is involved in the formation of a nucleophosmin binding site on the human 40S ribosomal subunit. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 642-650	4	2
7	Refining Spin-Spin Distance Distributions in Complex Biological Systems Using Multi-Gaussian Monte Carlo Analysis. <i>Applied Magnetic Resonance</i> , 2018 , 49, 265-276	0.8	2
6	Changes in the Transcriptome Caused by Mutations in the Ribosomal Protein uS10 Associated with a Predisposition to Colorectal Cancer. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6174	6.3	2
5	The human ribosomal protein eL29 binds in vivo to the cognate mRNA by interacting with its coding sequence, as revealed from in-cell cross-linking data. <i>Biochimie</i> , 2020 , 177, 68-77	4.6	1
4	Eukaryotic protein uS19: a component of the decoding site of ribosomes and a player in human diseases. <i>Biochemical Journal</i> , 2021 , 478, 997-1008	3.8	1

- 3 AP sites in various mRNA positions cross-link to the protein uS3 in the translating mammalian ribosome. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2021**, 1869, 140698 4 ○
- 2 Specific Chemical Approaches for Studying Mammalian Ribosomes Complexed with Ligands Involved in Selenoprotein Synthesis. *Methods in Molecular Biology*, **2018**, 1661, 73-92 1.4
- 1 Two alternative conformations of mRNA in the human ribosome during elongation and termination of translation as revealed by EPR spectroscopy. *Computational and Structural Biotechnology Journal*, **2021**, 19, 4702-4710 6.8