

Galina G Karpova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | 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 |
| 88 | Two alternative conformations of mRNA in the human ribosome during elongation and termination of translation as revealed by EPR spectroscopy. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 4702-4710 | 6.8 | |
| 87 | AP sites in various mRNA positions cross-link to the protein uS3 in the translating mammalian ribosome. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2021 , 1869, 140698 | 4 | 0 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | Ribosomal protein uS3 in cell biology and human disease: Latest insights and prospects. <i>BioEssays</i> , 2020 , 42, e2000124 | 4.1 | 3 |
| 80 | Hydroxylation of protein constituents of the human translation system: structural aspects and functional assignments. <i>Future Medicinal Chemistry</i> , 2019 , | 4.1 | 3 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |

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|----|---|------|----|
| 75 | 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 |
| 74 | 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 |
| 73 | Specific Chemical Approaches for Studying Mammalian Ribosomes Complexed with Ligands Involved in Selenoprotein Synthesis. <i>Methods in Molecular Biology</i> , 2018 , 1661, 73-92 | 1.4 | |
| 72 | 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 |
| 71 | Structural features of the interaction of the 3' untranslated 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | Complementary-addressed site-directed spin labeling of long natural RNAs. <i>Nucleic Acids Research</i> , 2016 , 44, 7935-43 | 20.1 | 31 |
| 62 | Interaction of tRNA with eukaryotic ribosome. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 7173-74 | 3.94 | 14 |
| 61 | 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 |
| 60 | 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 |
| 59 | Roles of ribosomal proteins in the functioning of translational machinery of eukaryotes. <i>Biochimie</i> , 2015 , 109, 1-17 | 4.6 | 31 |
| 58 | 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 |

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|----|---|------|----|
| 57 | Doubly Spin-Labeled RNA as an EPR Reporter for Studying Multicomponent Supramolecular Assemblies. <i>Biophysical Journal</i> , 2015 , 109, 2637-2643 | 2.9 | 8 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | A novel insight into the mechanism of mammalian selenoprotein synthesis. <i>Rna</i> , 2013 , 19, 1147-58 | 5.8 | 18 |
| 46 | 2VOH 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 |
| 45 | Structural and functional topography of the human ribosome. <i>Acta Biochimica Et Biophysica Sinica</i> , 2012 , 44, 281-99 | 2.8 | 10 |
| 44 | 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 |
| 43 | 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 5V of the E site codon. <i>Nucleic Acids Research</i> , 2012 , 40, 3056-65 | 20.1 | 12 |
| 42 | 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 |
| 41 | Ribosomal protein S18e as a putative molecular staple for the 18S rRNA 3V major domain core. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 505-12 | 4 | 10 |
| 40 | 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 |

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|----|---|------|----|
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | Positioning of subdomain III _d 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | mRNA 3' of 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 |
| 29 | Proteins surrounding hairpin III _e 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |

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|----|---|-----|----|
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 3' or the 5' termini. <i>FEBS Journal</i> , 1994 , 226, 715-23 | | 30 |
| 6 | Cross-linking of mRNA analogues containing 4-thiouridine residues on the 3' or 5' side of the coding triplet to the mRNA binding center of the human ribosome. <i>Biochemistry</i> , 1994 , 33, 3878-84 | 3.2 | 26 |
| 5 | 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 |
| 4 | 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 |

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| 3 | 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 |
| 2 | 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 |
| 1 | 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 |