

# Mariya Meshchaninova

## List of Publications by Year in descending order

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54  
papers

789  
citations

516710

16  
h-index

552781

26  
g-index

59  
all docs

59  
docs citations

59  
times ranked

806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Protection of Nuclease-Sensitive Sites in siRNA Prolongs Silencing Effect. <i>Oligonucleotides</i> , 2009, 19, 191-202.	2.7	89
2	Carrier-free cellular uptake and the gene-silencing activity of the lipophilic siRNAs is strongly affected by the length of the linker between siRNA and lipophilic group. <i>Nucleic Acids Research</i> , 2012, 40, 2330-2344.	14.5	77
3	Cholesterol-Containing Nuclease-Resistant siRNA Accumulates in Tumors in a Carrier-free Mode and Silences MDR1 Gene. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 6, 209-220.	5.1	64
4	Targeting Insulin-like Growth Factor I with 10 <sup>23</sup> DNAzymes: 2'-O-Methyl Modifications in the Catalytic Core Enhance mRNA Cleavage. <i>Biochemistry</i> , 2012, 51, 2181-2191.	2.5	45
5	Modeling of Antigenomic Therapy of Mitochondrial Diseases by Mitochondrially Addressed RNA Targeting a Pathogenic Point Mutation in Mitochondrial DNA. <i>Journal of Biological Chemistry</i> , 2014, 289, 13323-13334.	3.4	39
6	Small Interfering RNA Targeted to IGF-1R Delays Tumor Growth and Induces Proinflammatory Cytokines in a Mouse Breast Cancer Model. <i>PLoS ONE</i> , 2012, 7, e29213.	2.5	35
7	Short Double-Stranded RNA with Immunostimulatory Activity: Sequence Dependence. <i>Nucleic Acid Therapeutics</i> , 2012, 22, 196-204.	3.6	29
8	mRNA 3' UTR of the A Site Bound Codon is Located Close to Protein S3 on the Human 80S Ribosome. <i>RNA Biology</i> , 2006, 3, 122-129.	3.1	28
9	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.	2.4	26
10	2'-O-Methyl-Modified Anti-MDR1 Fork-siRNA Duplexes Exhibiting High Nuclease Resistance and Prolonged Silencing Activity. <i>Oligonucleotides</i> , 2010, 20, 297-308.	2.7	23
11	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, 3056-3065.	14.5	20
12	Molecular contacts of ribose-phosphate backbone of mRNA with human ribosome. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 930-939.	1.9	20
13	Novel Convenient Approach to the Solid-Phase Synthesis of Oligonucleotide Conjugates. <i>Molecules</i> , 2019, 24, 4266.	3.8	19
14	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, 1328-1338.	2.3	18
15	Title is missing!. <i>Molecular Biology</i> , 2003, 37, 132-139.	1.3	17
16	Characterization of chemically modified oligonucleotides targeting a pathogenic mutation in human mitochondrial DNA. <i>Biochimie</i> , 2014, 100, 192-199.	2.6	17
17	Silencing activity of 2'-O-methyl modified anti-MDR1 siRNAs with mismatches in the central part of the duplexes. <i>FEBS Letters</i> , 2011, 585, 2352-2356.	2.8	14
18	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.	2.6	13

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19	In Vitro Validation of the Therapeutic Potential of Dendrimer-Based Nanoformulations against Tumor Stem Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5691.	4.1	11
20	Doubly Spin-Labeled RNA as an EPR Reporter for Studying Multicomponent Supramolecular Assemblies. <i>Biophysical Journal</i> , 2015, 109, 2637-2643.	0.5	10
21	Structural rearrangements in mRNA upon its binding to human 80S ribosomes revealed by EPR spectroscopy. <i>Nucleic Acids Research</i> , 2018, 46, 897-904.	14.5	10
22	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.	14.5	10
23	Fluorophore Labeling Affects the Cellular Accumulation and Gene Silencing Activity of Cholesterol-Modified siRNAs <i>In Vitro</i> . <i>Nucleic Acid Therapeutics</i> , 2019, 29, 33-43.	3.6	10
24	Arrangement of the Sense and Stop Codons of the Template in the A Site of the Human Ribosome as Inferred from Crosslinking with Oligonucleotide Derivatives. <i>Molecular Biology</i> , 2003, 37, 866-873.	1.3	9
25	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, 1228.	4.1	9
26	The C domain of translation termination factor eRF1 is close to the stop codon in the A site of the 80S ribosome. <i>Molecular Biology</i> , 2007, 41, 781-789.	1.3	7
27	Cholesterol-modified anti-MDR1 small interfering RNA: Uptake and biological activity. <i>Molecular Biology</i> , 2010, 44, 254-261.	1.3	7
28	Nuclease-resistant 63bp trimeric siRNA simultaneously silence three different genes in tumor cells. <i>FEBS Letters</i> , 2018, 592, 122-129.	2.8	7
29	Trimeric Small Interfering RNAs and Their Cholesterol-Containing Conjugates Exhibit Improved Accumulation in Tumors, but Dramatically Reduced Silencing Activity. <i>Molecules</i> , 2020, 25, 1877.	3.8	6
30	New eximer-based tandem systems for SNP detection. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 229-230.	0.3	5
31	Multipyrene tandem probes for detection of C677T polymorphism in MTHFR gene. <i>Nucleic Acids Symposium Series</i> , 2009, 53, 143-144.	0.3	5
32	Multipyrene Tandem Probes for Point Mutations Detection in DNA. <i>Journal of Nucleic Acids</i> , 2013, 2013, 1-12.	1.2	5
33	A Versatile Solid-Phase Approach to the Synthesis of Oligonucleotide Conjugates with Biodegradable Hydrazone Linker. <i>Molecules</i> , 2021, 26, 2119.	3.8	5
34	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.	2.3	5
35	Modified siRNA effectively silence inducible immunoproteasome subunits in NSO cells. <i>Biochimie</i> , 2016, 125, 75-82.	2.6	4
36	Characterization of biological peculiarities of the radioprotective activity of double-stranded RNA isolated from <i>Saccharomyces Nerevisiae</i> . <i>International Journal of Radiation Biology</i> , 2020, 96, 1173-1191.	1.8	4

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37	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.	2.6	4
38	Title is missing!. <i>Molecular Biology</i> , 2003, 37, 415-420.	1.3	3
39	Oligoribonucleotides with Functionalized Nucleobases as New Modifiers of Biopolymers. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1509-1512.	1.1	3
40	Novel Method for the Synthesis of 2'-Phosphorylated Oligonucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 821-825.	1.1	3
41	Photoactivatable CRISPR/Cas9 System. <i>Russian Journal of Bioorganic Chemistry</i> , 2021, 47, 496-504.	1.0	3
42	Preparation, Determination of Activity, and Biodistribution of Cholesterol-Containing Nuclease-Resistant siRNAs In Vivo. <i>Methods in Molecular Biology</i> , 2020, 2115, 57-77.	0.9	3
43	Cholesterol-conjugated siRNA Accumulates In The Different Hematopoietic And Lymphoid Cells. <i>Journal of Hematology and Oncology Research</i> , 2016, 2, 13-19.	1.8	3
44	Title is missing!. <i>Russian Chemical Bulletin</i> , 2002, 51, 1194-1197.	1.5	2
45	Protein Environment of the Sense Codon of the Template in the A Site of the Human Ribosome as Inferred from Crosslinking to Oligoribonucleotide Derivatives. <i>Molecular Biology</i> , 2004, 38, 414-420.	1.3	2
46	Effective cleavage of structured RNAs by tandems of 10-23 DNAzymes with 3'-modified oligo(2'-O-methylribonucleotide)-effectors. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 525-526.	0.3	2
47	New Photoreactive Oligoribonucleotide Conjugates: Hybridization and Modification Assays. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2004, 23, 969-975.	1.1	1
48	Impact of chemical modifications in the structure of siRNA on its antiproliferative and immunostimulatory properties. <i>Russian Journal of Bioorganic Chemistry</i> , 2017, 43, 50-57.	1.0	1
49	Investigation of the Internalization of Fluorescently Labeled Lipophilic siRNA into Cultured Tumor Cells. <i>Russian Journal of Bioorganic Chemistry</i> , 2019, 45, 766-773.	1.0	1
50	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.	4.1	1
51	Lipophilic Conjugates for Carrier-Free Delivery of RNA Importable into Human Mitochondria. <i>Methods in Molecular Biology</i> , 2021, 2277, 49-67.	0.9	1
52	OR02-4 DNAzyme AND ANTIGENE STRATEGIES TO INHIBIT THE INSULIN-LIKE GROWTH FACTOR I GENE EXPRESSION IN TUMOR MODELS. <i>Growth Hormone and IGF Research</i> , 2006, 16, S4.	1.1	0
53	Incorporation of Antisense Oligonucleotides into Lipophilic Concatemeric Complexes Provides Their Effective Penetration into Cells. <i>Russian Journal of Bioorganic Chemistry</i> , 2019, 45, 739-748.	1.0	0
54	Interaction of Lipophilic Conjugates of Modified siRNAs with Hematopoietic Cells In Vitro and In Vivo. <i>Russian Journal of Bioorganic Chemistry</i> , 2021, 47, 399-410.	1.0	0