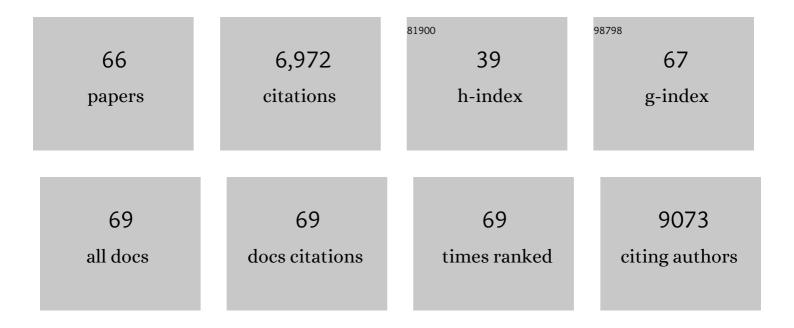
Svetlana A Shabalina

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Genetic basis for individual variations in pain perception and the development of a chronic pain condition. Human Molecular Genetics, 2005, 14, 135-143.	2.9	1,134
2	A putative RNA-interference-based immune system in prokaryotes: computational analysis of the predicted enzymatic machinery, functional analogies with eukaryotic RNAi, and hypothetical mechanisms of action. Biology Direct, 2006, 1, 7.	4.6	961
3	Origins and evolution of eukaryotic RNA interference. Trends in Ecology and Evolution, 2008, 23, 578-587.	8.7	442
4	MicL, a new σ ^E -dependent sRNA, combats envelope stress by repressing synthesis of Lpp, the major outer membrane lipoprotein. Genes and Development, 2014, 28, 1620-1634.	5.9	255
5	Sounds of silence: synonymous nucleotides as a key to biological regulation and complexity. Nucleic Acids Research, 2013, 41, 2073-2094.	14.5	241
6	Abundance of type I toxin–antitoxin systems in bacteria: searches for new candidates and discovery of novel families. Nucleic Acids Research, 2010, 38, 3743-3759.	14.5	237
7	Genetic architecture of human pain perception. Trends in Genetics, 2007, 23, 605-613.	6.7	207
8	Differential Arginylation of Actin Isoforms Is Regulated by Coding Sequence–Dependent Degradation. Science, 2010, 329, 1534-1537.	12.6	179
9	A periodic pattern of mRNA secondary structure created by the genetic code. Nucleic Acids Research, 2006, 34, 2428-2437.	14.5	175
10	Three major haplotypes of the β2 adrenergic receptor define psychological profile, blood pressure, and the risk for development of a common musculoskeletal pain disorder. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2006, 141B, 449-462.	1.7	169
11	Expansion of the human μ-opioid receptor gene architecture: novel functional variants. Human Molecular Genetics, 2009, 18, 1037-1051.	2.9	150
12	Computational models with thermodynamic and composition features improve siRNA design. BMC Bioinformatics, 2006, 7, 65.	2.6	139
13	The mammalian transcriptome and the function of non-coding DNA sequences. Genome Biology, 2004, 5, 105.	9.6	137
14	Comparison of approaches for rational siRNA design leading to a new efficient and transparent method. Nucleic Acids Research, 2007, 35, e63-e63.	14.5	129
15	Selective constraint in intergenic regions of human and mouse genomes. Trends in Genetics, 2001, 17, 373-376.	6.7	127
16	Related Giant Viruses in Distant Locations and Different Habitats: Acanthamoeba polyphaga moumouvirus Represents a Third Lineage of the Mimiviridae That Is Close to the Megavirus Lineage. Genome Biology and Evolution, 2012, 4, 1324-1330.	2.5	118
17	Distinct Patterns of Expression and Evolution of Intronless and Intron-Containing Mammalian Genes. Molecular Biology and Evolution, 2010, 27, 1745-1749.	8.9	116
18	Continuing Evolution of Burkholderia mallei Through Genome Reduction and Large-Scale Rearrangements. Genome Biology and Evolution, 2010, 2, 102-116.	2.5	106

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19	Role of mRNA structure in the control of protein folding. Nucleic Acids Research, 2016, 44, 10898-10911.	14.5	99
20	Pattern of selective constraint in C. elegans and C. briggsae genomes. Genetical Research, 1999, 74, 23-30.	0.9	93
21	Widespread Positive Selection in Synonymous Sites of Mammalian Genes. Molecular Biology and Evolution, 2007, 24, 1821-1831.	8.9	86
22	Negative Correlation between Expression Level and Evolutionary Rate of Long Intergenic Noncoding RNAs. Genome Biology and Evolution, 2011, 3, 1390-1404.	2.5	86
23	A significant fraction of conserved noncoding DNA in human and mouse consists of predicted matrix attachment regions. Trends in Genetics, 2003, 19, 119-124.	6.7	83
24	Viruses with More Than 1,000 Genes: Mamavirus, a New Acanthamoeba polyphagamimivirus Strain, and Reannotation of Mimivirus Genes. Genome Biology and Evolution, 2011, 3, 737-742.	2.5	83
25	Comparative analysis of orthologous eukaryotic mRNAs: potential hidden functional signals. Nucleic Acids Research, 2004, 32, 1774-1782.	14.5	82
26	How do base-pairing small RNAs evolve?. FEMS Microbiology Reviews, 2015, 39, 379-391.	8.6	76
27	Identification and functional analysis of 'hypothetical' genes expressed in Haemophilus influenzae. Nucleic Acids Research, 2004, 32, 2353-2361.	14.5	75
28	Prosurvival long noncoding RNA PINCR regulates a subset of p53 targets in human colorectal cancer cells by binding to Matrin 3. ELife, 2017, 6, .	6.0	68
29	Evolution of alternative and constitutive regions of mammalian 5'UTRs. BMC Genomics, 2009, 10, 162.	2.8	62
30	The Vast, Conserved Mammalian lincRNome. PLoS Computational Biology, 2013, 9, e1002917.	3.2	62
31	Variation in human chromosome 21 ribosomal RNA genes characterized by TAR cloning and long-read sequencing. Nucleic Acids Research, 2018, 46, 6712-6725.	14.5	61
32	Analysis of internal loops within the RNA secondary structure in almost quadratic time. Bioinformatics, 2006, 22, 1317-1324.	4.1	53
33	OWEN: aligning long collinear regions of genomes. Bioinformatics, 2002, 18, 1703-1704.	4.1	51
34	Disruptive mRNA folding increases translational efficiency of catechol-O-methyltransferase variant. Nucleic Acids Research, 2011, 39, 6201-6212.	14.5	51
35	Classification of common conserved sequences in mammalian intergenic regions. Human Molecular Genetics, 2002, 11, 669-674.	2.9	50
36	Low Enzymatic Activity Haplotypes of the Human Catechol-O-Methyltransferase Gene: Enrichment for Marker SNPs. PLoS ONE, 2009, 4, e5237.	2.5	46

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37	Diverse functions of homologous actin isoforms are defined by their nucleotide, rather than their amino acid sequence. ELife, 2017, 6, .	6.0	44
38	Association of Polymorphisms in Odorant-Binding Protein Genes With Variation in Olfactory Response to Benzaldehyde in Drosophila. Genetics, 2007, 177, 1655-1665.	2.9	43
39	A small protein encoded by a putative lncRNA regulates apoptosis and tumorigenicity in human colorectal cancer cells. ELife, 2020, 9, .	6.0	43
40	Oncolysis by paramyxoviruses: multiple mechanisms contribute to therapeutic efficiency. Molecular Therapy - Oncolytics, 2015, 2, 15011.	4.4	42
41	Evolution at protein ends: major contribution of alternative transcription initiation and termination to the transcriptome and proteome diversity in mammals. Nucleic Acids Research, 2014, 42, 7132-7144.	14.5	40
42	The small protein MgtS and small RNA MgrR modulate the PitA phosphate symporter to boost intracellular magnesium levels. Molecular Microbiology, 2019, 111, 131-144.	2.5	37
43	Analysis of similarity within 142 pairs of orthologous intergenic regions of Caenorhabditis elegans and Caenorhabditis briggsae. Nucleic Acids Research, 2002, 30, 1233-1239.	14.5	36
44	Arginylation regulates purine nucleotide biosynthesis by enhancing the activity of phosphoribosyl pyrophosphate synthase. Nature Communications, 2015, 6, 7517.	12.8	36
45	Optimization of Duplex Stability and Terminal Asymmetry for shRNA Design. PLoS ONE, 2010, 5, e10180.	2.5	36
46	Oncolysis by paramyxoviruses: preclinical and clinical studies. Molecular Therapy - Oncolytics, 2015, 2, 15017.	4.4	33
47	A vast pool of lineage-specific microproteins encoded by long non-coding RNAs in plants. Nucleic Acids Research, 2021, 49, 10328-10346.	14.5	33
48	Connections between Alternative Transcription and Alternative Splicing in Mammals. Genome Biology and Evolution, 2010, 2, 791-799.	2.5	31
49	Growth differentiation factor-15 encodes a novel microRNA 3189 that functions as a potent regulator of cell death. Cell Death and Differentiation, 2015, 22, 1641-1653.	11.2	30
50	Evolutionary switches between two serine codon sets are driven by selection. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13109-13113.	7.1	25
51	Adaptation of mRNA structure to control protein folding. RNA Biology, 2017, 14, 1649-1654.	3.1	23
52	Expression Patterns of Protein Kinases Correlate with Gene Architecture and Evolutionary Rates. PLoS ONE, 2008, 3, e3599.	2.5	20
53	Alternative Splicing of the Delta-Opioid Receptor Gene Suggests Existence of New Functional Isoforms. Molecular Neurobiology, 2019, 56, 2855-2869.	4.0	20
54	Patterns in interspecies similarity correlate with nucleotide composition in mammalian 3'UTRs. Nucleic Acids Research, 2003, 31, 5433-5439.	14.5	17

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55	Optimized models for design of efficient miR30-based shRNAs. Frontiers in Genetics, 2012, 3, 163.	2.3	17
56	The genomic structure of a human chromosome 22 nucleolar organizer region determined by TAR cloning. Scientific Reports, 2021, 11, 2997.	3.3	13
57	Optimization of signal-to-noise ratio for efficient microarray probe design. Bioinformatics, 2016, 32, i552-i558.	4.1	11
58	Understanding off-target effects through hybridization kinetics and thermodynamics. Cell Biology and Toxicology, 2020, 36, 11-15.	5.3	10
59	A unique insert in the genomes of high-risk human papillomaviruses with a predicted dual role in conferring oncogenic risk. F1000Research, 2019, 8, 1000.	1.6	10
60	A hierarchical approach to aligning collinear regions of genomes. Bioinformatics, 2002, 18, 1673-1680.	4.1	8
61	Prospects for Using Expression Patterns of Paramyxovirus Receptors as Biomarkers for Oncolytic Virotherapy. Cancers, 2020, 12, 3659.	3.7	6
62	Alternative Splicing of Opioid Receptor Genes Shows a Conserved Pattern for 6TM Receptor Variants. Cellular and Molecular Neurobiology, 2021, 41, 1039-1055.	3.3	5
63	Uncertainty-aware and interpretable evaluation of Cas9–gRNA and Cas12a–gRNA specificity for fully matched and partially mismatched targets with Deep Kernel Learning. Nucleic Acids Research, 2022, 50, e11-e11.	14.5	5
64	Identification of regions in multiple sequence alignments thermodynamically suitable for targeting by consensus oligonucleotides: application to HIV genome. BMC Bioinformatics, 2004, 5, 44.	2.6	3
65	Sequence characteristics define trade-offs between on-target and genome-wide off-target hybridization of oligoprobes. PLoS ONE, 2018, 13, e0199162.	2.5	3
66	Persistence Time of Loss-of-Function Mutations at Nonessential Loci Affecting Eye Color in Drosophila melanogaster. Genetics, 2005, 171, 2133-2138.	2.9	2