Tatyana V Pestova

List of Publications by Year
in descending order

92 papers	13,950 citations	22153 59 h-index	43889 91 g-index
95 all docs	95 docs citations	95 times ranked	10279 citing authors

#	Article	IF	Citations
1	Horizontal gene transfer as a mechanism for the promiscuous acquisition of distinct classes of IRES by avian caliciviruses. Nucleic Acids Research, 2022, 50, 1052-1068.	14.5	5
2	Molecular architecture of <scp>40S</scp> translation initiation complexes on the hepatitis C virus <scp>IRES</scp>. EMBO Journal, 2022, 41, .	7.8	10
3	Functional role and ribosomal position of the unique N-terminal region of DHX29, a factor required for initiation on structured mammalian mRNAs. Nucleic Acids Research, 2021, 49, 12955-12969.	14.5	7
4	The Halastavi Ã¡rva Virus Intergenic Region IRES Promotes Translation by the Simplest Possible Initiation Mechanism. Cell Reports, 2020, 33, 108476.	6.4	11
5	Dissemination of Internal Ribosomal Entry Sites (IRES) Between Viruses by Horizontal Gene Transfer. Viruses, 2020, 12, 612.	3.3	23
6	Extraction of mRNA from Stalled Ribosomes by the Ski Complex. Molecular Cell, 2020, 77, 1340-1349.e6.	9.7	34
7	In Vitro Characterization of the Activity of the Mammalian RNA Exosome on mRNAs in Ribosomal Translation Complexes. Methods in Molecular Biology, 2020, 2062, 327-354.	0.9	4
8	Two classes of EF1-family translational GTPases encoded by giant viruses. Nucleic Acids Research, 2019, 47, 5761-5776.	14.5	8
9	Release of Ubiquitinated and Non-ubiquitinated Nascent Chains from Stalled Mammalian Ribosomal Complexes by ANKZF1 and Ptrh1. Molecular Cell, 2018, 72, 286-302.e8.	9.7	74
10	Human eIF5 and eIF1A Compete for Binding to eIF5B. Biochemistry, 2018, 57, 5910-5920.	2.5	15
11	Functions of unconventional mammalian translational GTPases GTPBP1 and GTPBP2. Genes and Development, 2018, 32, 1226-1241.	5.9	25
12	Toward the mechanism of eIF4F-mediated ribosomal attachment to mammalian capped mRNAs. Genes and Development, 2016, 30, 1573-1588.	5.9	97
13	PCBP2 enables the cadicivirus IRES to exploit the function of a conserved GRNA tetraloop to enhance ribosomal initiation complex formation. Nucleic Acids Research, 2016, 44, gkw609.	14.5	11
14	Initiation on the divergent Type I cadicivirus IRES: factor requirements and interactions with the translation apparatus. Nucleic Acids Research, 2016, 44, 3390-3407.	14.5	19
15	Attachment of ribosomal complexes and retrograde scanning during initiation on the Halastavi Ã¡rva virus IRES. Nucleic Acids Research, 2016, 44, 2362-2377.	14.5	28
16	Cryo-EM of Ribosomal 80S Complexes with Termination Factors Reveals the Translocated Cricket Paralysis Virus IRES. Molecular Cell, 2015, 57, 422-432.	9.7	82
17	Multiple Mechanisms of Reinitiation on Bicistronic Calicivirus mRNAs. Molecular Cell, 2015, 57, 1059-1073.	9.7	55
18	5â€² UTR m6A Promotes Cap-Independent Translation. Cell, 2015, 163, 999-1010.	28.9	1,414

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19	Structure of mammalian eIF3 in the context of the 43S preinitiation complex. Nature, 2015, 525, 491-495.	27.8	204
20	The mechanism of translation initiation on Type 1 picornavirus IRESs. EMBO Journal, 2014, 33, 76-92.	7.8	135
21	Inhibition of translation by IFIT family members is determined by their ability to interact selectively with the 5â€²-terminal regions of cap0-, cap1- and 5â€²ppp- mRNAs. Nucleic Acids Research, 2014, 42, 3228-3245.	14.5	182
22	Structure of the mammalian ribosomal pre-termination complex associated with eRF1â€¢eRF3â€¢GDPNP. Nucleic Acids Research, 2014, 42, 3409-3418.	14.5	63
23	Hepatitis-C-virus-like internal ribosome entry sites displace eIF3 to gain access to the 40S subunit. Nature, 2013, 503, 539-543.	27.8	158
24	Structure of the Mammalian Ribosomal 43S Preinitiation Complex Bound to the Scanning Factor DHX29. Cell, 2013, 153, 1108-1119.	28.9	197
25	Reinitiation and Other Unconventional Posttermination Events during Eukaryotic Translation. Molecular Cell, 2013, 51, 249-264.	9.7	133
26	Termination and post-termination events in eukaryotic translation. Advances in Protein Chemistry and Structural Biology, 2012, 86, 45-93.	2.3	182
27	Cryo-EM structure of the mammalian eukaryotic release factor eRF1â€"eRF3-associated termination complex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18413-18418.	7.1	53
28	Roles of individual domains in the function of DHX29, an essential factor required for translation of structured mammalian mRNAs. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3150-9.	7.1	40
29	Postâ€Termination Events in Eukaryotic Translation. FASEB Journal, 2012, 26, 461.2.	0.5	0
30	Bypassing of stems versus linear base-by-base inspection of mammalian mRNAs during ribosomal scanning. EMBO Journal, 2011, 30, 115-129.	7.8	66
31	Dissociation by Pelota, Hbs1 and ABCE1 of mammalian vacant 80S ribosomes and stalled elongation complexes. EMBO Journal, 2011, 30, 1804-1817.	7.8	255
32	The mechanism of translation initiation on Aichivirus RNA mediated by a novel type of picornavirus IRES. EMBO Journal, 2011, 30, 4423-4436.	7.8	65
33	Common conformational changes induced in type 2 picornavirus IRESs by cognate trans-acting factors. Nucleic Acids Research, 2011, 39, 4851-4865.	14.5	98
34	The mechanism of eukaryotic translation initiation and principles of its regulation. Nature Reviews Molecular Cell Biology, 2010, 11, 113-127.	37.0	2,160
35	Activities of Ligatin and MCT-1/DENR in eukaryotic translation initiation and ribosomal recycling. Genes and Development, 2010, 24, 1787-1801.	5.9	204
36	The Role of ABCE1 in Eukaryotic Posttermination Ribosomal Recycling. Molecular Cell, 2010, 37, 196-210.	9.7	290

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37	Direct functional interaction of initiation factor eIF4G with type 1 internal ribosomal entry sites. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9197-9202.	7.1	128
38	The helicase protein DHX29 promotes translation initiation, cell proliferation, and tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22217-22222.	7.1	103
39	Position of eukaryotic translation initiation factor eIF1A on the 40S ribosomal subunit mapped by directed hydroxyl radical probing. Nucleic Acids Research, 2009, 37, 5167-5182.	14.5	94
40	General RNA-binding proteins have a function in poly(A)-binding protein-dependent translation. EMBO Journal, 2009, 28, 58-68.	7.8	69
41	Structural insights into eRF3 and stop codon recognition by eRF1. Genes and Development, 2009, 23, 1106-1118.	5.9	133
42	Factor requirements for translation initiation on the Simian picornavirus internal ribosomal entry site. Rna, 2008, 14, 367-380.	3.5	51
43	eIF2-dependent and eIF2-independent modes of initiation on the CSFV IRES: a common role of domain II. EMBO Journal, 2008, 27, 1060-1072.	7.8	138
44	Ribosomal position and contacts of mRNA in eukaryotic translation initiation complexes. EMBO Journal, 2008, 27, 1609-1621.	7.8	202
45	Distinct eRF3 Requirements Suggest Alternate eRF1 Conformations Mediate Peptide Release during Eukaryotic Translation Termination. Molecular Cell, 2008, 30, 599-609.	9.7	56
46	Translation Initiation on Mammalian mRNAs with Structured 5â€²UTRs Requires DExH-Box Protein DHX29. Cell, 2008, 135, 1237-1250.	28.9	208
47	Translational Control by a Small RNA: Dendritic BC1 RNA Targets the Eukaryotic Initiation Factor 4A Helicase Mechanism. Molecular and Cellular Biology, 2008, 28, 3008-3019.	2.3	163
48	In Vitro Reconstitution and Biochemical Characterization of Translation Initiation by Internal Ribosomal Entry. Methods in Enzymology, 2007, 430, 409-439.	1.0	24
49	Roles of the negatively charged N-terminal extension of Saccharomyces cerevisiae ribosomal protein S5 revealed by characterization of a yeast strain containing human ribosomal protein S5. Rna, 2007, 13, 2116-2128.	3.5	28
50	Transcription Antitermination by Translation Initiation Factor IF1. Journal of Bacteriology, 2007, 189, 4087-4093.	2.2	26
51	Dissociation of eIF1 from the 40S ribosomal subunit is a key step in start codon selection in vivo. Genes and Development, 2007, 21, 1217-1230.	5.9	146
52	Recycling of Eukaryotic Posttermination Ribosomal Complexes. Cell, 2007, 131, 286-299.	28.9	190
53	Assembly and Analysis of Eukaryotic Translation Initiation Complexes. Methods in Enzymology, 2007, 430, 147-177.	1.0	107
54	Position of eukaryotic initiation factor eIF5B on the 80S ribosome mapped by directed hydroxyl radical probing. EMBO Journal, 2007, 26, 3109-3123.	7.8	52

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55	Kinetic Analysis of Interaction of Eukaryotic Release Factor 3 with Guanine Nucleotides. Journal of Biological Chemistry, 2006, 281, 40224-40235.	3.4	70
56	In Vitro Reconstitution of Eukaryotic Translation Reveals Cooperativity between Release Factors eRF1 and eRF3. Cell, 2006, 125, 1125-1136.	28.9	258
57	Small molecule derails translation initiation. Nature Chemical Biology, 2006, 2, 176-177.	8.0	6
58	Translation, interrupted. Nature Structural and Molecular Biology, 2006, 13, 98-99.	8.2	6
59	The fidelity of translation initiation: reciprocal activities of eIF1, IF3 and YciH. EMBO Journal, 2006, 25, 196-210.	7.8	105
60	Specific functional interactions of nucleotides at key -3 and +4 positions flanking the initiation codon with components of the mammalian 48S translation initiation complex. Genes and Development, 2006, 20, 624-636.	5.9	187
61	The eIF1A C-terminal domain promotes initiation complex assembly, scanning and AUG selection in vivo. EMBO Journal, 2005, 24, 3588-3601.	7.8	80
62	Binding of eukaryotic initiation factor 3 to ribosomal 40S subunits and its role in ribosomal dissociation and anti-association. Rna, 2005, 11, 470-486.	3.5	108
63	Reconstitution of eukaryotic translation elongation in vitro following initiation by internal ribosomal entry. Methods, 2005, 36, 261-269.	3.8	22
64	Translation Initiation in Eukaryotes: Factors and Mechanisms. , 2004, , 237-241.		0
65	Release of initiation factors from 48S complexes during ribosomal subunit joining and the link between establishment of codon-anticodon base-pairing and hydrolysis of eIF2-bound GTP. Genes and Development, 2004, 18, 3078-3093.	5.9	193
66	Position of the CrPV IRES on the 40S subunit and factor dependence of IRES/80S ribosome assembly. EMBO Reports, 2004, 5, 906-913.	4.5	114
67	Coupled Folding during Translation Initiation. Cell, 2003, 115, 650-652.	28.9	9
68	Position of eukaryotic initiation factor eIF1 on the 40S ribosomal subunit determined by directed hydroxyl radical probing. Genes and Development, 2003, 17, 2786-2797.	5.9	127
69	Eukaryotic Initiation Factors 4G and 4A Mediate Conformational Changes Downstream of the Initiation Codon of the Encephalomyocarditis Virus Internal Ribosomal Entry Site. Molecular and Cellular Biology, 2003, 23, 687-698.	2.3	94
70	Translation elongation after assembly of ribosomes on the Cricket paralysis virus internal ribosomal entry site without initiation factors or initiator tRNA. Genes and Development, 2003, 17, 181-186.	5.9	212
71	Mapping the binding interface between human eukaryotic initiation factors 1A and 5B: A new interaction between old partners. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1535-1540.	7.1	83
72	Initiation factor eIF5B catalyzes second GTP-dependent step in eukaryotic translation initiation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16689-16694.	7.1	105

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73	The roles of individual eukaryotic translation initiation factors in ribosomal scanning and initiation codon selection. Genes and Development, 2002, 16, 2906-2922.	5.9	463
74	A Conserved HEAT Domain within eIF4G Directs Assembly of the Translation Initiation Machinery. Molecular Cell, 2001, 7, 193-203.	9.7	199
75	Preparation and activity of synthetic unmodified mammalian tRNAi Met in initiation of translation in vitro. Rna, 2001, 7, 1496-1505.	3.5	55
76	The joining of ribosomal subunits in eukaryotes requires eIF5B. Nature, 2000, 403, 332-335.	27.8	355
77	Ribosomal binding to the internal ribosomal entry site of classical swine fever virus. Rna, 2000, 6, 1791-1807.	3.5	66
78	Physical Association of Eukaryotic Initiation Factor 4G (eIF4G) with eIF4A Strongly Enhances Binding of eIF4G to the Internal Ribosomal Entry Site of Encephalomyocarditis Virus and Is Required for Internal Initiation of Translation. Molecular and Cellular Biology, 2000, 20, 6019-6029.	2.3	173
79	Eukaryotic Translation Initiation Factor 4E (eIF4E) Binding Site and the Middle One-Third of eIF4GI Constitute the Core Domain for Cap-Dependent Translation, and the C-Terminal One-Third Functions as a Modulatory Region. Molecular and Cellular Biology, 2000, 20, 468-477.	2.3	190
80	An Enzymatic Footprinting Analysis of the Interaction of 40S Ribosomal Subunits with the Internal Ribosomal Entry Site of Hepatitis C Virus. Journal of Virology, 2000, 74, 6242-6250.	3.4	153
81	The eIF1A Solution Structure Reveals a Large RNA-Binding Surface Important for Scanning Function. Molecular Cell, 2000, 5, 109-119.	9.7	166
82	Initiation of Protein Synthesis from the A Site of the Ribosome. Cell, 2000, 102, 511-520.	28.9	402
83	A cell cycle-dependent protein serves as a template-specific translation initiation factor. Genes and Development, 2000, 14, 2028-2045.	5.9	256
84	Internal Initiation of Translation of Bovine Viral Diarrhea Virus RNA. Virology, 1999, 258, 249-256.	2.4	63
85	Structure and interactions of the translation initiation factor eIF1. EMBO Journal, 1999, 18, 2631-2637.	7.8	135
86	Ribosome recruitment and scanning: whatâ€™s new?. Trends in Biochemical Sciences, 1999, 24, 85-87.	7.5	42
87	Eukaryotic ribosomes require initiation factors 1 and 1A to locate initiation codons. Nature, 1998, 394, 854-859.	27.8	381
88	Translation Eukaryotic Initiation Factor 4G Recognizes a Specific Structural Element within the Internal Ribosome Entry Site of Encephalomyocarditis Virus RNA. Journal of Biological Chemistry, 1998, 273, 18599-18604.	3.4	171
89	Specific Interaction of Eukaryotic Translation Initiation Factor 3 with the 5â€² Nontranslated Regions of Hepatitis C Virus and Classical Swine Fever Virus RNAs. Journal of Virology, 1998, 72, 4775-4782.	3.4	266
90	Pyrimidine tract binding protein strongly stimulates in vitro encephalomyocarditis virus RNA translation at the level of preinitiation complex formation. FEBS Letters, 1994, 351, 299-302.	2.8	63

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91	Cap-Independent Translation of Picornavirus RN As: Structure and Function of the Internal Ribosomal Entry Site. Enzyme, 1990, 44, 292-309.	0.7	216
92	Distinct modes of poliovirus polyprotein initiation in vitro. Virus Research, 1989, 14, 107-118.	2.2	16