

# Jonathan D Dinman

## List of Publications by Year in descending order

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134  
papers

6,929  
citations

47006

47  
h-index

74163

75  
g-index

140  
all docs

140  
docs citations

140  
times ranked

6035  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new system for naming ribosomal proteins. <i>Current Opinion in Structural Biology</i> , 2014, 24, 165-169.	5.7	481
2	rRNA Pseudouridylation Defects Affect Ribosomal Ligand Binding and Translational Fidelity from Yeast to Human Cells. <i>Molecular Cell</i> , 2011, 44, 660-666.	9.7	256
3	Trajectories of the ribosome as a Brownian nanomachine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17492-17497.	7.1	218
4	Mechanisms and implications of programmed translational frameshifting. <i>Wiley Interdisciplinary Reviews RNA</i> , 2012, 3, 661-673.	6.4	178
5	Structural and functional conservation of the programmed $-1$ ribosomal frameshift signal of SARS coronavirus 2 (SARS-CoV-2). <i>Journal of Biological Chemistry</i> , 2020, 295, 10741-10748.	3.4	163
6	A Three-Stemmed mRNA Pseudoknot in the SARS Coronavirus Frameshift Signal. <i>PLoS Biology</i> , 2005, 3, e172.	5.6	158
7	Translation Elongation and Recoding in Eukaryotes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032649.	5.5	154
8	Identification of functional, endogenous programmed $-1$ ribosomal frameshift signals in the genome of <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2007, 35, 165-174.	14.5	145
9	An in vivo dual-luciferase assay system for studying translational recoding in the yeast <i>Saccharomyces cerevisiae</i> . <i>Rna</i> , 2003, 9, 1019-1024.	3.5	141
10	The 9-A solution: How mRNA pseudoknots promote efficient programmed $-1$ ribosomal frameshifting. <i>Rna</i> , 2003, 9, 168-174.	3.5	139
11	How Ribosomes Translate Cancer. <i>Cancer Discovery</i> , 2017, 7, 1069-1087.	9.4	131
12	Ribosomal frameshifting in the CCR5 mRNA is regulated by miRNAs and the NMD pathway. <i>Nature</i> , 2014, 512, 265-269.	27.8	130
13	Optimization of Ribosome Structure and Function by rRNA Base Modification. <i>PLoS ONE</i> , 2007, 2, e174.	2.5	123
14	Crystal structure of the 80S yeast ribosome. <i>Current Opinion in Structural Biology</i> , 2012, 22, 759-767.	5.7	120
15	Achieving a Golden Mean: Mechanisms by Which Coronaviruses Ensure Synthesis of the Correct Stoichiometric Ratios of Viral Proteins. <i>Journal of Virology</i> , 2010, 84, 4330-4340.	3.4	112
16	Kinetics of Ribosomal Pausing during Programmed $-1$ Translational Frameshifting. <i>Molecular and Cellular Biology</i> , 2000, 20, 1095-1103.	2.3	106
17	Pokeweed Antiviral Protein Accesses Ribosomes by Binding to L3. <i>Journal of Biological Chemistry</i> , 1999, 274, 3859-3864.	3.4	101
18	Pathways to Specialized Ribosomes: The Brussels Lecture. <i>Journal of Molecular Biology</i> , 2016, 428, 2186-2194.	4.2	99

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19	An "integrated model" of programmed ribosomal frameshifting. Trends in Biochemical Sciences, 2002, 27, 448-454.	7.5	97
20	The 3' proximal translational enhancer of Turnip crinkle virus binds to 60S ribosomal subunits. Rna, 2008, 14, 2379-2393.	3.5	92
21	Systematic analysis of bicistronic reporter assay data. Nucleic Acids Research, 2004, 32, e160-e160.	14.5	90
22	Peptidyl-transferase inhibitors have antiviral properties by altering programmed -1 ribosomal frameshifting efficiencies: Development of model systems. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 6606-6611.	7.1	89
23	Ribosomopathies and the paradox of cellular hypo- to hyperproliferation. Blood, 2015, 125, 1377-1382.	1.4	83
24	Translating old drugs into new treatments: ribosomal frameshifting as a target for antiviral agents. Trends in Biotechnology, 1998, 16, 190-196.	9.3	81
25	The Mof2/Sui1 Protein Is a General Monitor of Translational Accuracy. Molecular and Cellular Biology, 1998, 18, 1506-1516.	2.3	81
26	The role of programmed-1 ribosomal frameshifting in coronavirus propagation. Frontiers in Bioscience - Landmark, 2008, Volume, 4873.	3.0	81
27	Programmed Ribosomal Frameshifting Generates a Copper Transporter and a Copper Chaperone from the Same Gene. Molecular Cell, 2017, 65, 207-219.	9.7	81
28	Torsional restraint: a new twist on frameshifting pseudoknots. Nucleic Acids Research, 2005, 33, 1825-1833.	14.5	80
29	The frameshift signal of HIV-1 involves a potential intramolecular triplex RNA structure. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5331-5336.	7.1	76
30	Spermidine deficiency increases +1 ribosomal frameshifting efficiency and inhibits Ty1 retrotransposition in Saccharomyces cerevisiae.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 172-176.	7.1	73
31	Bypass of the pre-60S ribosomal quality control as a pathway to oncogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5640-5645.	7.1	71
32	Human ribosomal protein L13a is dispensable for canonical ribosome function but indispensable for efficient rRNA methylation. Rna, 2007, 13, 2224-2237.	3.5	69
33	A Ribosomopathy Reveals Decoding Defective Ribosomes Driving Human Dysmorphisms. American Journal of Human Genetics, 2017, 100, 506-522.	6.2	69
34	Ribosomal frameshifting in yeast viruses. Yeast, 1995, 11, 1115-1127.	1.7	68
35	Altering SARS Coronavirus Frameshift Efficiency Affects Genomic and Subgenomic RNA Production. Viruses, 2013, 5, 279-294.	3.3	67
36	Ribosomal Protein L3 Mutants Alter Translational Fidelity and Promote Rapid Loss of the Yeast Killer Virus. Molecular and Cellular Biology, 1999, 19, 384-391.	2.3	64

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37	Evaluation of Microwave-Accelerated Residue-Specific Acid Cleavage for Proteomic Applications. <i>Journal of Proteome Research</i> , 2008, 7, 579-586.	3.7	62
38	Ribosome Binding to a 5' Translational Enhancer Is Altered in the Presence of the 3' Untranslated Region in Cap-Independent Translation of Turnip Crinkle Virus. <i>Journal of Virology</i> , 2011, 85, 4638-4653.	3.4	62
39	Endogenous ribosomal frameshift signals operate as mRNA destabilizing elements through at least two molecular pathways in yeast. <i>Nucleic Acids Research</i> , 2011, 39, 2799-2808.	14.5	62
40	Identification of Functionally Important Amino Acids of Ribosomal Protein L3 by Saturation Mutagenesis. <i>Molecular and Cellular Biology</i> , 2005, 25, 10863-10874.	2.3	60
41	Ribosomal Protein L3: Gatekeeper to the A Site. <i>Molecular Cell</i> , 2007, 25, 877-888.	9.7	60
42	Identification of Putative Programmed +1 Ribosomal Frameshift Signals in Large DNA Databases. <i>Genome Research</i> , 1999, 9, 417-427.	5.5	60
43	Eukaryotic rpL10 drives ribosomal rotation. <i>Nucleic Acids Research</i> , 2014, 42, 2049-2063.	14.5	59
44	RNA dimerization plays a role in ribosomal frameshifting of the SARS coronavirus. <i>Nucleic Acids Research</i> , 2013, 41, 2594-2608.	14.5	56
45	Ribosomal protein L5 helps anchor peptidyl-tRNA to the P-site in <i>Saccharomyces cerevisiae</i> . <i>Rna</i> , 2001, 7, 1084-1096.	3.5	54
46	The Pokeweed Antiviral Protein Specifically Inhibits Ty 1 -Directed +1 Ribosomal Frameshifting and Retrotransposition in <i>Saccharomyces cerevisiae</i> . <i>Journal of Virology</i> , 1998, 72, 1036-1042.	3.4	52
47	PRFdb: A database of computationally predicted eukaryotic programmed -1 ribosomal frameshift signals. <i>BMC Genomics</i> , 2008, 9, 339.	2.8	51
48	New Targets for Antivirals: The Ribosomal A-Site and the Factors That Interact with It. <i>Virology</i> , 2002, 300, 60-70.	2.4	49
49	Venezuelan Equine Encephalitis Virus Induces Apoptosis through the Unfolded Protein Response Activation of EGR1. <i>Journal of Virology</i> , 2016, 90, 3558-3572.	3.4	48
50	Saturation Mutagenesis of 5S rRNA in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2001, 21, 8264-8275.	2.3	47
51	Comparative study of the effects of heptameric slippery site composition on -1 frameshifting among different eukaryotic systems. <i>Rna</i> , 2006, 12, 666-673.	3.5	45
52	Programmed +1 Ribosomal Frameshifting in coronaviruses: A therapeutic target. <i>Virology</i> , 2021, 554, 75-82.	2.4	45
53	Differentiating between Near- and Non-Cognate Codons in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2007, 2, e517.	2.5	45
54	Decreased peptidyltransferase activity correlates with increased programmed -1 ribosomal frameshifting and viral maintenance defects in the yeast <i>Saccharomyces cerevisiae</i> . <i>Rna</i> , 2003, 9, 982-992.	3.5	44

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55	Control of gene expression by translational recoding. <i>Advances in Protein Chemistry and Structural Biology</i> , 2012, 86, 129-149.	2.3	44
56	A programmed -1 ribosomal frameshift signal can function as a cis-acting mRNA destabilizing element. <i>Nucleic Acids Research</i> , 2004, 32, 784-790.	14.5	43
57	The many paths to frameshifting: kinetic modelling and analysis of the effects of different elongation steps on programmed -1 ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2011, 39, 300-312.	14.5	42
58	Structural and functional analysis of 5S rRNA in <i>Saccharomyces cerevisiae</i> . <i>Molecular Genetics and Genomics</i> , 2005, 274, 235-247.	2.1	40
59	An Arc of Unpaired Hinge Bases Facilitates Information Exchange among Functional Centers of the Ribosome. <i>Molecular and Cellular Biology</i> , 2006, 26, 8992-9002.	2.3	40
60	Ribosomal protein L3 functions as a rocker switch to aid in coordinating of large subunit-associated functions in eukaryotes and Archaea. <i>Nucleic Acids Research</i> , 2008, 36, 6175-6186.	14.5	40
61	The Kissing-Loop T-Shaped Structure Translational Enhancer of Pea Enation Mosaic Virus Can Bind Simultaneously to Ribosomes and a 5' Proximal Hairpin. <i>Journal of Virology</i> , 2013, 87, 11987-12002.	3.4	40
62	rRNA mutants in the yeast peptidyltransferase center reveal allosteric information networks and mechanisms of drug resistance. <i>Nucleic Acids Research</i> , 2008, 36, 1497-1507.	14.5	38
63	Reprogramming the genetic code: The emerging role of ribosomal frameshifting in regulating cellular gene expression. <i>BioEssays</i> , 2016, 38, 21-26.	2.5	38
64	Ablation of Programmed -1 Ribosomal Frameshifting in Venezuelan Equine Encephalitis Virus Results in Attenuated Neuropathogenicity. <i>Journal of Virology</i> , 2017, 91, .	3.4	38
65	Structural and Functional Characterization of Programmed Ribosomal Frameshift Signals in West Nile Virus Strains Reveals High Structural Plasticity Among cis-Acting RNA Elements. <i>Journal of Biological Chemistry</i> , 2016, 291, 15788-15795.	3.4	37
66	The Upf3 protein is a component of the surveillance complex that monitors both translation and mRNA turnover and affects viral propagation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 8721-8726.	7.1	36
67	Mutations in the MOF2/SUI1 gene affect both translation and nonsense-mediated mRNA decay. <i>Rna</i> , 1999, 5, 794-804.	3.5	35
68	The Eukaryotic Ribosome: Current Status and Challenges. <i>Journal of Biological Chemistry</i> , 2009, 284, 11761-11765.	3.4	35
69	A molecular clamp ensures allosteric coordination of peptidyltransfer and ligand binding to the ribosomal A-site. <i>Nucleic Acids Research</i> , 2010, 38, 7800-7813.	14.5	34
70	Integration of Residue-Specific Acid Cleavage into Proteomic Workflows. <i>Journal of Proteome Research</i> , 2007, 6, 4525-4527.	3.7	33
71	Major sperm protein genes from <i>Onchocerca volvulus</i> . <i>Molecular and Biochemical Parasitology</i> , 1989, 36, 119-126.	1.1	32
72	Evidence against a direct role for the Upf proteins in frameshifting or nonsense codon readthrough. <i>Rna</i> , 2004, 10, 1721-1729.	3.5	32

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73	A new kinetic model reveals the synergistic effect of E-, P- and A-sites on +1 ribosomal frameshifting. <i>Nucleic Acids Research</i> , 2008, 36, 2619-2629.	14.5	31
74	Ribosomal Protein L3: Influence on Ribosome Structure and Function. <i>RNA Biology</i> , 2004, 1, 58-64.	3.1	30
75	Yeast ribosomal protein L10 helps coordinate tRNA movement through the large subunit. <i>Nucleic Acids Research</i> , 2008, 36, 6187-6198.	14.5	30
76	Delayed rRNA Processing Results in Significant Ribosome Biogenesis and Functional Defects. <i>Molecular and Cellular Biology</i> , 2003, 23, 1602-1613.	2.3	29
77	Cell cycle control (and more) by programmed +1 ribosomal frameshifting: implications for disease and therapeutics. <i>Cell Cycle</i> , 2015, 14, 172-178.	2.6	29
78	Programmed Ribosomal Frameshifting Goes beyond Viruses. <i>Microbe Magazine</i> , 2006, 1, 521-527.	0.4	29
79	Specific Effects of Ribosome-Tethered Molecular Chaperones on Programmed +1 Ribosomal Frameshifting. <i>Eukaryotic Cell</i> , 2006, 5, 762-770.	3.4	28
80	Ribosomal protein gene RPL9 variants can differentially impair ribosome function and cellular metabolism. <i>Nucleic Acids Research</i> , 2020, 48, 770-787.	14.5	28
81	Cloning and Characterization of a Human Genotoxic and Endoplasmic Reticulum Stress-inducible cDNA That Encodes Translation Initiation Factor 1 (eIF1A121/SUI1). <i>Journal of Biological Chemistry</i> , 1999, 274, 16487-16493.	3.4	27
82	Yeast telomere maintenance is globally controlled by programmed ribosomal frameshifting and the nonsense-mediated mRNA decay pathway. <i>Translation</i> , 2013, 1, e24418.	2.9	27
83	High throughput structural analysis of yeast ribosomes using hSHAPE. <i>RNA Biology</i> , 2011, 8, 478-487.	3.1	26
84	Single-Molecule Measurements of the CCR5 mRNA Unfolding Pathways. <i>Biophysical Journal</i> , 2014, 106, 244-252.	0.5	26
85	Small molecule inhibitors of Ago2 decrease Venezuelan equine encephalitis virus replication. <i>Antiviral Research</i> , 2014, 112, 26-37.	4.1	26
86	Ty1 Retrotransposition and Programmed +1 Ribosomal Frameshifting Require the Integrity of the Protein Synthetic Translocation Step. <i>Virology</i> , 2001, 286, 216-224.	2.4	25
87	Structure/function analysis of yeast ribosomal protein L2. <i>Nucleic Acids Research</i> , 2008, 36, 1826-1835.	14.5	25
88	Subtractational Heterogeneity: A Crucial Step toward Defining Specialized Ribosomes. <i>Molecular Cell</i> , 2017, 67, 3-4.	9.7	25
89	A flexible loop in yeast ribosomal protein L11 coordinates P-site tRNA binding. <i>Nucleic Acids Research</i> , 2010, 38, 8377-8389.	14.5	24
90	An Extensive Network of Information Flow through the B1b/c Intersubunit Bridge of the Yeast Ribosome. <i>PLoS ONE</i> , 2011, 6, e20048.	2.5	24

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91	Mutations of highly conserved bases in the peptidyltransferase center induce compensatory rearrangements in yeast ribosomes. <i>Rna</i> , 2011, 17, 855-864.	3.5	23
92	Ribosomal Lesions Promote Oncogenic Mutagenesis. <i>Cancer Research</i> , 2019, 79, 320-327.	0.9	22
93	Identifying Inhibitors of +1 Programmed Ribosomal Frameshifting in a Broad Spectrum of Coronaviruses. <i>Viruses</i> , 2022, 14, 177.	3.3	21
94	Functional and structural characterization of the chikungunya virus translational recoding signals. <i>Journal of Biological Chemistry</i> , 2018, 293, 17536-17545.	3.4	20
95	A C-Terminal Deletion Mutant of Pokeweed Antiviral Protein Inhibits Programmed +1 Ribosomal Frameshifting and Ty1 Retrotransposition without Depurinating the Sarcin/Ricin Loop of rRNA. <i>Virology</i> , 2001, 279, 292-301.	2.4	19
96	5S rRNA: Structure and Function from Head to Toe. <i>International Journal of Biomedical Science</i> , 2005, 1, 2-7.	0.1	18
97	Enhanced purity, activity and structural integrity of yeast ribosomes purified using a general chromatographic method. <i>RNA Biology</i> , 2010, 7, 354-360.	3.1	17
98	The Functional Role of eL19 and eB12 Intersubunit Bridge in the Eukaryotic Ribosome. <i>Journal of Molecular Biology</i> , 2016, 428, 2203-2216.	4.2	17
99	Crystal Structures of the uL3 Mutant Ribosome: Illustration of the Importance of Ribosomal Proteins for Translation Efficiency. <i>Journal of Molecular Biology</i> , 2016, 428, 2195-2202.	4.2	17
100	Tracking fluctuation hotspots on the yeast ribosome through the elongation cycle. <i>Nucleic Acids Research</i> , 2017, 45, 4958-4971.	14.5	17
101	EGR1 upregulation following Venezuelan equine encephalitis virus infection is regulated by ERK and PERK pathways contributing to cell death. <i>Virology</i> , 2020, 539, 121-128.	2.4	16
102	Molecular cloning of a gene expressed during early embryonic development in <i>Onchocerca volvulus</i> . <i>Molecular and Biochemical Parasitology</i> , 1995, 69, 161-171.	1.1	14
103	Translational recoding signals: Expanding the synthetic biology toolbox. <i>Journal of Biological Chemistry</i> , 2019, 294, 7537-7545.	3.4	14
104	A rapid, inexpensive yeast-based dual-fluorescence assay of programmed +1 ribosomal frameshifting for high-throughput screening. <i>Nucleic Acids Research</i> , 2011, 39, e97-e97.	14.5	13
105	Ribosomal protein uS19 mutants reveal its role in coordinating ribosome structure and function. <i>Translation</i> , 2015, 3, e1117703.	2.9	13
106	The Expanding Riboverse. <i>Cells</i> , 2019, 8, 1205.	4.1	13
107	CCR 5 RNA Pseudoknots: Residue and Site-Specific Labeling correlate Internal Motions with microRNA Binding. <i>Chemistry - A European Journal</i> , 2018, 24, 5462-5468.	3.3	12
108	EGR1 Upregulation during Encephalitic Viral Infections Contributes to Inflammation and Cell Death. <i>Viruses</i> , 2022, 14, 1210.	3.3	12

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109	<i>De Novo</i> variants in <i>EEF2</i> cause a neurodevelopmental disorder with benign external hydrocephalus. <i>Human Molecular Genetics</i> , 2021, 29, 3892-3899.	2.9	11
110	<i>Onchocerca volvulus</i> : Molecular cloning, primary structure, and expression of a microfilarial surface-associated antigen. <i>Experimental Parasitology</i> , 1990, 71, 176-188.	1.2	10
111	Still Searching for Specialized Ribosomes. <i>Developmental Cell</i> , 2019, 48, 744-746.	7.0	10
112	XIV. Yeast sequencing reports. Sequence ofMKT1, needed for propagation of M2 satellite dsRNA of the L-A virus of <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1994, 10, 1477-1479.	1.7	9
113	The case for the involvement of the Upf3p in programmed $\hat{+}1$ ribosomal frameshifting. <i>Rna</i> , 2000, 6, 1685-1686.	3.5	8
114	5S rRNA: Structure and Function from Head to Toe. <i>International Journal of Biomedical Science</i> , 2005, 1, 1-7.	0.1	8
115	Mutants That Affect Recoding. <i>Nucleic Acids and Molecular Biology</i> , 2010, , 321-344.	0.2	7
116	The central core region of yeast ribosomal protein L11 is important for subunit joining and translational fidelity. <i>Molecular Genetics and Genomics</i> , 2011, 285, 505-516.	2.1	6
117	Evolution of a helper virus-derived, ribosome binding translational enhancer in an untranslated satellite RNA of Turnip crinkle virus. <i>Virology</i> , 2011, 419, 10-16.	2.4	5
118	Ribosomes in the balance: structural equilibrium ensures translational fidelity and proper gene expression. <i>Nucleic Acids Research</i> , 2014, 42, 13384-13392.	14.5	5
119	Activation of the unfolded protein response in sarcoma cells treated with rapamycin or temsirolimus. <i>PLoS ONE</i> , 2017, 12, e0185089.	2.5	5
120	Slippery ribosomes prefer shapeshifting mRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19225-19227.	7.1	5
121	PERK Is Critical for Alphavirus Nonstructural Protein Translation. <i>Viruses</i> , 2021, 13, 892.	3.3	5
122	Improved Purification of the Double-Stranded RNA from Killer Strains of Yeast. <i>BioTechniques</i> , 2000, 28, 64-65.	1.8	4
123	Chromatographic Purification of Highly Active Yeast Ribosomes. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	3
124	Scaring Ribosomes Shiftless. <i>Biochemistry</i> , 2019, 58, 1831-1832.	2.5	3
125	Programmed $\hat{-}1$ Ribosomal Frameshifting in SARS Coronavirus. , 2010, , 63-72.		3
126	Efficient expression of the 15-kDa form of infectious pancreatic necrosis virus VP5 by suppression of a UGA codon. <i>Virus Research</i> , 2006, 122, 61-68.	2.2	2



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127	Two Ribosomes Are Better Than One... Sometimes. <i>Molecular Cell</i> , 2020, 79, 541-543.	9.7	2
128	Trajectories of the ribosome as a Brownian nanomachine. <i>Journal of Hand Surgery Asian-Pacific Volume</i> , 2018, , 463-475.	0.4	2
129	Shapeshifting RNAs guide innate immunity. <i>Journal of Biological Chemistry</i> , 2018, 293, 16125-16126.	3.4	1
130	Expanding the Ribosomal Universe. <i>Structure</i> , 2009, 17, 1547-1548.	3.3	0
131	Entry signals control development. <i>Nature</i> , 2015, 517, 24-25.	27.8	0
132	Characterization of breast tumor metabolites reâ€œediting macrophage function. <i>FASEB Journal</i> , 2008, 22, 1076.22.	0.5	0
133	Structural Analyses of the Ribosome by Chemical Modification Methods. , 2012, , 69-81.		0
134	Effect of 3`-Azido-3`-Deoxythymidine (AZT) on Telomerase Activity and Proliferation of HO-8910 Cell Line of Ovarian Cancer. <i>International Journal of Biomedical Science</i> , 2006, 2, 41.	0.1	0