

# Phillip D Zamore

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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.

145  
papers

34,076  
citations

76  
h-index

168  
g-index

168  
ext. papers

37,570  
ext. citations

22  
avg. IF

7.48  
L-index

#	Paper	IF	Citations
145	Principles and pitfalls of high-throughput analysis of microRNA-binding thermodynamics and kinetics by RNA Bind-n-Seq.. <i>Cell Reports Methods</i> , <b>2022</b> , 2, 100185		0
144	Terminal modification, sequence, length, and PIWI-protein identity determine piRNA stability. <i>Molecular Cell</i> , <b>2021</b> , 81, 4826-4842.e8	17.6	2
143	To Degrade a MicroRNA, Destroy Its Argonaute Protein. <i>Molecular Cell</i> , <b>2021</b> , 81, 223-225	17.6	3
142	Long first exons and epigenetic marks distinguish conserved pachytene piRNA clusters from other mammalian genes. <i>Nature Communications</i> , <b>2021</b> , 12, 73	17.4	4
141	Defining the functions of PIWI-interacting RNAs. <i>Nature Reviews Molecular Cell Biology</i> , <b>2021</b> , 22, 239-240	18.7	4
140	The evolutionarily conserved piRNA-producing locus pi6 is required for male mouse fertility. <i>Nature Genetics</i> , <b>2020</b> , 52, 728-739	36.3	37
139	Evolutionarily conserved pachytene piRNA loci are highly divergent among modern humans. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 156-168	12.3	27
138	Effective and Accurate Gene Silencing by a Recombinant AAV-Compatible MicroRNA Scaffold. <i>Molecular Therapy</i> , <b>2020</b> , 28, 422-430	11.7	5
137	<i>Thermus thermophilus</i> Argonaute Functions in the Completion of DNA Replication. <i>Cell</i> , <b>2020</b> , 182, 1545-1559.e18	15.9	18
136	One small step for worms, one giant leap for small RNAs. <i>Nature Reviews Molecular Cell Biology</i> , <b>2020</b> , 21, 565	48.7	
135	An automated Bayesian pipeline for rapid analysis of single-molecule binding data. <i>Nature Communications</i> , <b>2019</b> , 10, 272	17.4	11
134	The RNA-Binding ATPase, Armitage, Couples piRNA Amplification in Nuage to Phased piRNA Production on Mitochondria. <i>Molecular Cell</i> , <b>2019</b> , 74, 982-995.e6	17.6	32
133	Preparation of dsRNAs for RNAi by In Vitro Transcription. <i>Cold Spring Harbor Protocols</i> , <b>2019</b> , 2019,	1.2	3
132	RNAi in S2 Cells by dsRNA Soaking. <i>Cold Spring Harbor Protocols</i> , <b>2019</b> , 2019,	1.2	2
131	MicroRNAs tame CRISPR-Cas9. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 416-417	23.4	3
130	Preparation of siRNA Duplexes. <i>Cold Spring Harbor Protocols</i> , <b>2019</b> , 2019,	1.2	4
129	RNAi in Mammalian Cells by siRNA Duplex Transfection. <i>Cold Spring Harbor Protocols</i> , <b>2019</b> , 2019,	1.2	2

128	RNAi in S2 Cells by siRNA Duplex or dsRNA Transfection. <i>Cold Spring Harbor Protocols</i> , <b>2019</b> , 2019,	1.2	2
127	RNA Interference and Small RNA Analysis. <i>Cold Spring Harbor Protocols</i> , <b>2019</b> , 2019,	1.2	6
126	High-Throughput Analysis Reveals Rules for Target RNA Binding and Cleavage by AGO2. <i>Molecular Cell</i> , <b>2019</b> , 75, 741-755.e11	17.6	41
125	PIWI-interacting RNAs: small RNAs with big functions. <i>Nature Reviews Genetics</i> , <b>2019</b> , 20, 89-108	30.1	401
124	Maelstrom Represses Canonical Polymerase II Transcription within Bi-directional piRNA Clusters in <i>Drosophila melanogaster</i> . <i>Molecular Cell</i> , <b>2019</b> , 73, 291-303.e6	17.6	14
123	Comparison of partially and fully chemically-modified siRNA in conjugate-mediated delivery in vivo. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 2185-2196	20.1	71
122	Inhibiting miRNA Function by Antisense Oligonucleotides in S2 Cells. <i>Cold Spring Harbor Protocols</i> , <b>2018</b> , 2018,	1.2	4
121	Preparation of Antisense Oligonucleotides to Inhibit miRNA Function. <i>Cold Spring Harbor Protocols</i> , <b>2018</b> , 2018,	1.2	4
120	Inhibiting miRNA Function by Antisense Oligonucleotides in Cultured Mammalian Cells. <i>Cold Spring Harbor Protocols</i> , <b>2018</b> , 2018,	1.2	3
119	Transcriptome Profiling of Neovascularized Corneas Reveals miR-204 as a Multi-target Biotherapy Deliverable by rAAVs. <i>Molecular Therapy - Nucleic Acids</i> , <b>2018</b> , 10, 349-360	10.7	16
118	Analysis of Small RNAs by Northern Hybridization. <i>Cold Spring Harbor Protocols</i> , <b>2018</b> , 2018,	1.2	6
117	Elimination of PCR duplicates in RNA-seq and small RNA-seq using unique molecular identifiers. <i>BMC Genomics</i> , <b>2018</b> , 19, 531	4.5	70
116	Cas9-mediated allelic exchange repairs compound heterozygous recessive mutations in mice. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 839-842	44.5	23
115	Pan-arthropod analysis reveals somatic piRNAs as an ancestral defence against transposable elements. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 174-181	12.3	155
114	A Single Mechanism of Biogenesis, Initiated and Directed by PIWI Proteins, Explains piRNA Production in Most Animals. <i>Molecular Cell</i> , <b>2018</b> , 71, 775-790.e5	17.6	89
113	The genome of the Hi5 germ cell line from <i>A. gossypii</i> , an agricultural pest and novel model for small RNA biology. <i>ELife</i> , <b>2018</b> , 7,	8.9	42
112	Small methyltransferase RlmH assembles a composite active site to methylate a ribosomal pseudouridine. <i>Scientific Reports</i> , <b>2017</b> , 7, 969	4.9	10
111	Rapid Screening for CRISPR-Directed Editing of the <i>Drosophila</i> Genome Using white Coconversion. <i>G3: Genes, Genomes, Genetics</i> , <b>2016</b> , 6, 3197-3206	3.2	27

110	Single-Molecule Imaging Reveals that Argonaute Reshapes the Binding Properties of Its Nucleic Acid Guides. <i>Cell</i> , <b>2015</b> , 162, 84-95	56.2	168
109	Noncoding RNA. piRNA-guided transposon cleavage initiates Zucchini-dependent, phased piRNA production. <i>Science</i> , <b>2015</b> , 348, 817-21	33.3	236
108	Pitfalls of mapping high-throughput sequencing data to repetitive sequences: Piwi3 genomic targets still not identified. <i>Developmental Cell</i> , <b>2015</b> , 32, 765-71	10.2	14
107	Slicing and Binding by Ago3 or Aub Trigger Piwi-Bound piRNA Production by Distinct Mechanisms. <i>Molecular Cell</i> , <b>2015</b> , 59, 819-30	17.6	79
106	MicroRNA-33-dependent regulation of macrophage metabolism directs immune cell polarization in atherosclerosis. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 4334-48	15.9	241
105	Tailor: a computational framework for detecting non-templated tailing of small silencing RNAs. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, e109	20.1	15
104	piPipes: a set of pipelines for piRNA and transposon analysis via small RNA-seq, RNA-seq, degradome- and CAGE-seq, ChIP-seq and genomic DNA sequencing. <i>Bioinformatics</i> , <b>2015</b> , 31, 593-5	7.2	84
103	Assessing long-distance RNA sequence connectivity via RNA-templated DNA-DNA ligation. <i>ELife</i> , <b>2015</b> , 4,	8.9	25
102	piRNAs. <i>Current Biology</i> , <b>2014</b> , 24, R730-3	6.3	39
101	Competitive endogenous RNAs cannot alter microRNA function in vivo. <i>Molecular Cell</i> , <b>2014</b> , 54, 711-3	17.6	51
100	The HP1 homolog rhino anchors a nuclear complex that suppresses piRNA precursor splicing. <i>Cell</i> , <b>2014</b> , 157, 1353-1363	56.2	143
99	High-throughput sequencing analysis of post-liver transplantation HCV E2 glycoprotein evolution in the presence and absence of neutralizing monoclonal antibody. <i>PLoS ONE</i> , <b>2014</b> , 9, e100325	3.7	16
98	Antisense piRNA amplification, but not piRNA production or nuage assembly, requires the Tudor-domain protein Qin. <i>EMBO Journal</i> , <b>2014</b> , 33, 536-9	13	17
97	Inorganic phosphate blocks binding of pre-miRNA to Dicer-2 via its PAZ domain. <i>EMBO Journal</i> , <b>2014</b> , 33, 371-84	13	33
96	Cnidarian microRNAs frequently regulate targets by cleavage. <i>Genome Research</i> , <b>2014</b> , 24, 651-63	9.7	78
95	The initial uridine of primary piRNAs does not create the tenth adenine that is the hallmark of secondary piRNAs. <i>Molecular Cell</i> , <b>2014</b> , 56, 708-16	17.6	71
94	A universal small molecule, inorganic phosphate, restricts the substrate specificity of Dicer-2 in small RNA biogenesis. <i>Cell Cycle</i> , <b>2014</b> , 13, 1671-6	4.7	5
93	An ancient transcription factor initiates the burst of piRNA production during early meiosis in mouse testes. <i>Molecular Cell</i> , <b>2013</b> , 50, 67-81	17.6	243

92	Small RNA-directed silencing: the fly finds its inner fission yeast?. <i>Current Biology</i> , <b>2013</b> , 23, R318-20	6.3	14
91	Diversifying microRNA sequence and function. <i>Nature Reviews Molecular Cell Biology</i> , <b>2013</b> , 14, 475-88	48.7	875
90	Rapid and specific purification of Argonaute-small RNA complexes from crude cell lysates. <i>Rna</i> , <b>2013</b> , 19, 271-9	5.8	39
89	Increased Steady-State Mutant Huntingtin mRNA in Huntington's Disease Brain. <i>Journal of Huntington's Disease</i> , <b>2013</b> , 2, 491-500	1.9	10
88	Argonaute divides its RNA guide into domains with distinct functions and RNA-binding properties. <i>Cell</i> , <b>2012</b> , 151, 1055-67	56.2	262
87	UAP56 couples piRNA clusters to the perinuclear transposon silencing machinery. <i>Cell</i> , <b>2012</b> , 151, 871-88	56.2	164
86	Long-term, efficient inhibition of microRNA function in mice using rAAV vectors. <i>Nature Methods</i> , <b>2012</b> , 9, 403-9	21.6	159
85	Loquacious, a Dicer Partner Protein, Functions in Both the MicroRNA and siRNA Pathways. <i>The Enzymes</i> , <b>2012</b> , 37-68	2.3	2
84	Dicer partner proteins tune the length of mature miRNAs in flies and mammals. <i>Cell</i> , <b>2012</b> , 151, 533-46	56.2	134
83	RNA: methods and protocols - a new series. <i>Silence: A Journal of RNA Regulation</i> , <b>2012</b> , 3, 7		
82	Strand-specific libraries for high throughput RNA sequencing (RNA-Seq) prepared without poly(A) selection. <i>Silence: A Journal of RNA Regulation</i> , <b>2012</b> , 3, 9		92
81	Sustained miRNA-mediated knockdown of mutant AAT with simultaneous augmentation of wild-type AAT has minimal effect on global liver miRNA profiles. <i>Molecular Therapy</i> , <b>2012</b> , 20, 590-600	11.7	90
80	Adaptation to P element transposon invasion in <i>Drosophila melanogaster</i> . <i>Cell</i> , <b>2011</b> , 147, 1551-63	56.2	176
79	Phosphate and R2D2 restrict the substrate specificity of Dicer-2, an ATP-driven ribonuclease. <i>Molecular Cell</i> , <b>2011</b> , 42, 172-84	17.6	94
78	Heterotypic piRNA Ping-Pong requires qin, a protein with both E3 ligase and Tudor domains. <i>Molecular Cell</i> , <b>2011</b> , 44, 572-84	17.6	124
77	Isolation of <i>Drosophila melanogaster</i> testes. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	8
76	Argonaute proteins. <i>Current Biology</i> , <b>2011</b> , 21, R446-9	6.3	75
75	The 3' to 5' Exoribonuclease Nibbler shapes the 3' ends of microRNAs bound to <i>Drosophila</i> Argonaute 1. <i>Current Biology</i> , <b>2011</b> , 21, 1878-87	6.3	124

74	A 5'Ruridine amplifies miRNA/miRNA* asymmetry in Drosophila by promoting RNA-induced silencing complex formation. <i>Silence: A Journal of RNA Regulation</i> , <b>2011</b> , 2, 4		43
73	MicroRNA-regulated, systemically delivered rAAV9: a step closer to CNS-restricted transgene expression. <i>Molecular Therapy</i> , <b>2011</b> , 19, 526-35	11.7	115
72	Deep annotation of Drosophila melanogaster microRNAs yields insights into their processing, modification, and emergence. <i>Genome Research</i> , <b>2011</b> , 21, 203-15	9.7	185
71	Target RNA-directed tailing and trimming purifies the sorting of endo-siRNAs between the two Drosophila Argonaute proteins. <i>Rna</i> , <b>2011</b> , 17, 54-63	5.8	44
70	Argonaute protein identity and pairing geometry determine cooperativity in mammalian RNA silencing. <i>Rna</i> , <b>2011</b> , 17, 1858-69	5.8	95
69	Somatic piRNA biogenesis. <i>EMBO Journal</i> , <b>2010</b> , 29, 3219-21	13	26
68	Target RNA-directed trimming and tailing of small silencing RNAs. <i>Science</i> , <b>2010</b> , 328, 1534-9	33.3	419
67	Paternally induced transgenerational environmental reprogramming of metabolic gene expression in mammals. <i>Cell</i> , <b>2010</b> , 143, 1084-96	56.2	831
66	Sorting of Drosophila small silencing RNAs partitions microRNA* strands into the RNA interference pathway. <i>Rna</i> , <b>2010</b> , 16, 43-56	5.8	265
65	Welcome to silence. <i>Silence: A Journal of RNA Regulation</i> , <b>2010</b> , 1, 1		16
64	A role for microRNAs in the Drosophila circadian clock. <i>Genes and Development</i> , <b>2009</b> , 23, 2179-91	12.6	146
63	MicroRNAs: regulating a change of heart. <i>Circulation</i> , <b>2009</b> , 119, 2217-24	16.7	80
62	Five siRNAs targeting three SNPs may provide therapy for three-quarters of Huntington's disease patients. <i>Current Biology</i> , <b>2009</b> , 19, 774-8	6.3	198
61	Small silencing RNAs: an expanding universe. <i>Nature Reviews Genetics</i> , <b>2009</b> , 10, 94-108	30.1	1832
60	Collapse of germline piRNAs in the absence of Argonaute3 reveals somatic piRNAs in flies. <i>Cell</i> , <b>2009</b> , 137, 509-21	56.2	417
59	The Drosophila HP1 homolog Rhino is required for transposon silencing and piRNA production by dual-strand clusters. <i>Cell</i> , <b>2009</b> , 138, 1137-49	56.2	297
58	SnapShot: Fly piRNAs, PIWI proteins, and the ping-pong cycle. <i>Cell</i> , <b>2009</b> , 139, 634, 634.e1	56.2	12
57	SnapShot: mouse piRNAs, PIWI proteins, and the ping-pong cycle. <i>Cell</i> , <b>2009</b> , 139, 830-830.e1	56.2	9

56	Huntington <sup>B</sup> disease: silencing a brutal killer. <i>Experimental Neurology</i> , <b>2009</b> , 220, 226-9	5.7	21
55	What fruit flies teach us about RNA silencing.. <i>FASEB Journal</i> , <b>2009</b> , 23, 191.1	0.9	
54	Linking SNPs to CAG repeat length in Huntington <sup>B</sup> disease patients. <i>Nature Methods</i> , <b>2008</b> , 5, 951-3	21.6	28
53	Design and delivery of antisense oligonucleotides to block microRNA function in cultured <i>Drosophila</i> and human cells. <i>Nature Protocols</i> , <b>2008</b> , 3, 1537-49	18.8	85
52	Argonaute loading improves the 5' precision of both MicroRNAs and their miRNA* strands in flies. <i>Current Biology</i> , <b>2008</b> , 18, 147-51	6.3	152
51	Endogenous siRNAs derived from transposons and mRNAs in <i>Drosophila</i> somatic cells. <i>Science</i> , <b>2008</b> , 320, 1077-81	33.3	500
50	Beginning to understand microRNA function. <i>Cell Research</i> , <b>2007</b> , 17, 661-3	24.7	135
49	The <i>Drosophila</i> RNA methyltransferase, DmHen1, modifies germline piRNAs and single-stranded siRNAs in RISC. <i>Current Biology</i> , <b>2007</b> , 17, 1265-72	6.3	402
48	Small silencing RNAs. <i>Current Biology</i> , <b>2007</b> , 17, R789-93	6.3	49
47	<i>Drosophila</i> microRNAs are sorted into functionally distinct argonaute complexes after production by dicer-1. <i>Cell</i> , <b>2007</b> , 130, 287-97	56.2	336
46	Sorting of <i>Drosophila</i> small silencing RNAs. <i>Cell</i> , <b>2007</b> , 130, 299-308	56.2	303
45	A distinct small RNA pathway silences selfish genetic elements in the germline. <i>Science</i> , <b>2006</b> , 313, 320-4	33.3	990
44	Designing siRNA that distinguish between genes that differ by a single nucleotide. <i>PLoS Genetics</i> , <b>2006</b> , 2, e140	6	211
43	Rethinking the microprocessor. <i>Cell</i> , <b>2006</b> , 125, 827-9	56.2	53
42	RNA interference: big applause for silencing in Stockholm. <i>Cell</i> , <b>2006</b> , 127, 1083-6	56.2	44
41	microPrimer: the biogenesis and function of microRNA. <i>Development (Cambridge)</i> , <b>2005</b> , 132, 4645-52	6.6	600
40	Ribo-gnome: the big world of small RNAs. <i>Science</i> , <b>2005</b> , 309, 1519-24	33.3	1098
39	Passenger-strand cleavage facilitates assembly of siRNA into Ago2-containing RNAi enzyme complexes. <i>Cell</i> , <b>2005</b> , 123, 607-20	56.2	880

38	Normal microRNA maturation and germ-line stem cell maintenance requires Loquacious, a double-stranded RNA-binding domain protein. <i>PLoS Biology</i> , <b>2005</b> , 3, e236	9.7	412
37	MicroRNA biogenesis: drosha can cut it without a partner. <i>Current Biology</i> , <b>2005</b> , 15, R61-4	6.3	112
36	Perspective: machines for RNAi. <i>Genes and Development</i> , <b>2005</b> , 19, 517-29	12.6	695
35	Sequence-specific inhibition of small RNA function. <i>PLoS Biology</i> , <b>2004</b> , 2, E98	9.7	530
34	Biochemical dissection of RNA silencing in plants. <i>Methods in Molecular Biology</i> , <b>2004</b> , 257, 223-44	1.4	17
33	MicroRNA control of PHABULOSA in leaf development: importance of pairing to the microRNA 5R region. <i>EMBO Journal</i> , <b>2004</b> , 23, 3356-64	13	538
32	Kinetic analysis of the RNAi enzyme complex. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 599-606	17.6	424
31	Plant RNAi: How a viral silencing suppressor inactivates siRNA. <i>Current Biology</i> , <b>2004</b> , 14, R198-200	6.3	63
30	The RNA-induced silencing complex is a Mg <sup>2+</sup> -dependent endonuclease. <i>Current Biology</i> , <b>2004</b> , 14, 787-91	13	305
29	A protein sensor for siRNA asymmetry. <i>Science</i> , <b>2004</b> , 306, 1377-80	33.3	475
28	RISC assembly defects in the Drosophila RNAi mutant armitage. <i>Cell</i> , <b>2004</b> , 116, 831-41	56.2	314
27	A single Argonaute protein mediates both transcriptional and posttranscriptional silencing in <i>Schizosaccharomyces pombe</i> . <i>Genes and Development</i> , <b>2004</b> , 18, 2359-67	12.6	109
26	Selective silencing by RNAi of a dominant allele that causes amyotrophic lateral sclerosis. <i>Aging Cell</i> , <b>2003</b> , 2, 209-17	9.9	153
25	A biochemical framework for RNA silencing in plants. <i>Genes and Development</i> , <b>2003</b> , 17, 49-63	12.6	738
24	Asymmetry in the assembly of the RNAi enzyme complex. <i>Cell</i> , <b>2003</b> , 115, 199-208	56.2	2208
23	In vitro analysis of RNA interference in <i>Drosophila melanogaster</i> . <i>Methods</i> , <b>2003</b> , 30, 330-6	4.6	89
22	A microRNA in a multiple-turnover RNAi enzyme complex. <i>Science</i> , <b>2002</b> , 297, 2056-60	33.3	1640
21	Ancient pathways programmed by small RNAs. <i>Science</i> , <b>2002</b> , 296, 1265-9	33.3	300



20	Why do miRNAs live in the miRNP?. <i>Genes and Development</i> , <b>2002</b> , 16, 1025-31	12.6	54
19	Modular recognition of RNA by a human pumilio-homology domain. <i>Cell</i> , <b>2002</b> , 110, 501-12	56.2	387
18	Evidence that siRNAs function as guides, not primers, in the Drosophila and human RNAi pathways. <i>Molecular Cell</i> , <b>2002</b> , 10, 537-48	17.6	395
17	RNAi: nature abhors a double-strand. <i>Current Opinion in Genetics and Development</i> , <b>2002</b> , 12, 225-32	4.9	402
16	RNA interference: listening to the sound of silence. <i>Nature Structural Biology</i> , <b>2001</b> , 8, 746-50		286
15	A cellular function for the RNA-interference enzyme Dicer in the maturation of the let-7 small temporal RNA. <i>Science</i> , <b>2001</b> , 293, 834-8	33.3	2200
14	Crystal structure of a Pumilio homology domain. <i>Molecular Cell</i> , <b>2001</b> , 7, 855-65	17.6	192
13	Thirty-three years later, a glimpse at the ribonuclease III active site. <i>Molecular Cell</i> , <b>2001</b> , 8, 1158-60	17.6	33
12	ATP requirements and small interfering RNA structure in the RNA interference pathway. <i>Cell</i> , <b>2001</b> , 107, 309-21	56.2	832
11	RNAi: double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals. <i>Cell</i> , <b>2000</b> , 101, 25-33	56.2	2137
10	Molecular biology. RNA interference. <i>Science</i> , <b>2000</b> , 287, 2431-3	33.3	88
9	The PUMILIO-RNA interaction: a single RNA-binding domain monomer recognizes a bipartite target sequence. <i>Biochemistry</i> , <b>1999</b> , 38, 596-604	3.2	78
8	Drosophila development: homeodomains and translational control. <i>Current Biology</i> , <b>1996</b> , 6, 773-5	6.3	7
7	Translational regulation in development. <i>Cell</i> , <b>1995</b> , 81, 171-8	56.2	363
6	The protein Sex-lethal antagonizes the splicing factor U2AF to regulate alternative splicing of transformer pre-mRNA. <i>Nature</i> , <b>1993</b> , 362, 171-5	50.4	287
5	Cloning and domain structure of the mammalian splicing factor U2AF. <i>Nature</i> , <b>1992</b> , 355, 609-14	50.4	520
4	A factor, U2AF, is required for U2 snRNP binding and splicing complex assembly. <i>Cell</i> , <b>1988</b> , 52, 207-19	56.2	497
3	Terminal Modification, Sequence, and Length Determine Small RNA Stability in Animals		1

2	An Evolutionarily Conserved piRNA-producing Locus Required for Male Mouse Fertility	4
1	The tiny, conserved zinc-finger protein GTSF1 helps PIWI proteins achieve their full catalytic potential	2