

Phillip D Zamore

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4552771/phillip-d-zamore-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Asymmetry in the assembly of the RNAi enzyme complex. <i>Cell</i> , 2003 , 115, 199-208	56.2	2208
144	A cellular function for the RNA-interference enzyme Dicer in the maturation of the let-7 small temporal RNA. <i>Science</i> , 2001 , 293, 834-8	33.3	2200
143	RNAi: double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals. <i>Cell</i> , 2000 , 101, 25-33	56.2	2137
142	Small silencing RNAs: an expanding universe. <i>Nature Reviews Genetics</i> , 2009 , 10, 94-108	30.1	1832
141	A microRNA in a multiple-turnover RNAi enzyme complex. <i>Science</i> , 2002 , 297, 2056-60	33.3	1640
140	Ribo-gnome: the big world of small RNAs. <i>Science</i> , 2005 , 309, 1519-24	33.3	1098
139	A distinct small RNA pathway silences selfish genetic elements in the germline. <i>Science</i> , 2006 , 313, 320-433.3	33.3	990
138	Passenger-strand cleavage facilitates assembly of siRNA into Ago2-containing RNAi enzyme complexes. <i>Cell</i> , 2005 , 123, 607-20	56.2	880
137	Diversifying microRNA sequence and function. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 475-88	48.7	875
136	ATP requirements and small interfering RNA structure in the RNA interference pathway. <i>Cell</i> , 2001 , 107, 309-21	56.2	832
135	Paternally induced transgenerational environmental reprogramming of metabolic gene expression in mammals. <i>Cell</i> , 2010 , 143, 1084-96	56.2	831
134	A biochemical framework for RNA silencing in plants. <i>Genes and Development</i> , 2003 , 17, 49-63	12.6	738
133	Perspective: machines for RNAi. <i>Genes and Development</i> , 2005 , 19, 517-29	12.6	695
132	microPrimer: the biogenesis and function of microRNA. <i>Development (Cambridge)</i> , 2005 , 132, 4645-52	6.6	600
131	MicroRNA control of PHABULOSA in leaf development: importance of pairing to the microRNA 5R region. <i>EMBO Journal</i> , 2004 , 23, 3356-64	13	538
130	Sequence-specific inhibition of small RNA function. <i>PLoS Biology</i> , 2004 , 2, E98	9.7	530
129	Cloning and domain structure of the mammalian splicing factor U2AF. <i>Nature</i> , 1992 , 355, 609-14	50.4	520

128	Endogenous siRNAs derived from transposons and mRNAs in <i>Drosophila</i> somatic cells. <i>Science</i> , 2008 , 320, 1077-81	33.3	500
127	A factor, U2AF, is required for U2 snRNP binding and splicing complex assembly. <i>Cell</i> , 1988 , 52, 207-19	56.2	497
126	A protein sensor for siRNA asymmetry. <i>Science</i> , 2004 , 306, 1377-80	33.3	475
125	Kinetic analysis of the RNAi enzyme complex. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 599-606	17.6	424
124	Target RNA-directed trimming and tailing of small silencing RNAs. <i>Science</i> , 2010 , 328, 1534-9	33.3	419
123	Collapse of germline piRNAs in the absence of Argonaute3 reveals somatic piRNAs in flies. <i>Cell</i> , 2009 , 137, 509-21	56.2	417
122	Normal microRNA maturation and germ-line stem cell maintenance requires Loquacious, a double-stranded RNA-binding domain protein. <i>PLoS Biology</i> , 2005 , 3, e236	9.7	412
121	The <i>Drosophila</i> RNA methyltransferase, DmHen1, modifies germline piRNAs and single-stranded siRNAs in RISC. <i>Current Biology</i> , 2007 , 17, 1265-72	6.3	402
120	RNAi: nature abhors a double-strand. <i>Current Opinion in Genetics and Development</i> , 2002 , 12, 225-32	4.9	402
119	PIWI-interacting RNAs: small RNAs with big functions. <i>Nature Reviews Genetics</i> , 2019 , 20, 89-108	30.1	401
118	Evidence that siRNAs function as guides, not primers, in the <i>Drosophila</i> and human RNAi pathways. <i>Molecular Cell</i> , 2002 , 10, 537-48	17.6	395
117	Modular recognition of RNA by a human pumilio-homology domain. <i>Cell</i> , 2002 , 110, 501-12	56.2	387
116	Translational regulation in development. <i>Cell</i> , 1995 , 81, 171-8	56.2	363
115	<i>Drosophila</i> microRNAs are sorted into functionally distinct argonaute complexes after production by dicer-1. <i>Cell</i> , 2007 , 130, 287-97	56.2	336
114	RISC assembly defects in the <i>Drosophila</i> RNAi mutant armitage. <i>Cell</i> , 2004 , 116, 831-41	56.2	314
113	The RNA-induced silencing complex is a Mg ²⁺ -dependent endonuclease. <i>Current Biology</i> , 2004 , 14, 787-91	13	305
112	Sorting of <i>Drosophila</i> small silencing RNAs. <i>Cell</i> , 2007 , 130, 299-308	56.2	303
111	Ancient pathways programmed by small RNAs. <i>Science</i> , 2002 , 296, 1265-9	33.3	300

110	The <i>Drosophila</i> HP1 homolog Rhino is required for transposon silencing and piRNA production by dual-strand clusters. <i>Cell</i> , 2009 , 138, 1137-49	56.2	297
109	The protein Sex-lethal antagonizes the splicing factor U2AF to regulate alternative splicing of transformer pre-mRNA. <i>Nature</i> , 1993 , 362, 171-5	50.4	287
108	RNA interference: listening to the sound of silence. <i>Nature Structural Biology</i> , 2001 , 8, 746-50		286
107	Sorting of <i>Drosophila</i> small silencing RNAs partitions microRNA* strands into the RNA interference pathway. <i>Rna</i> , 2010 , 16, 43-56	5.8	265
106	Argonaute divides its RNA guide into domains with distinct functions and RNA-binding properties. <i>Cell</i> , 2012 , 151, 1055-67	56.2	262
105	An ancient transcription factor initiates the burst of piRNA production during early meiosis in mouse testes. <i>Molecular Cell</i> , 2013 , 50, 67-81	17.6	243
104	MicroRNA-33-dependent regulation of macrophage metabolism directs immune cell polarization in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4334-48	15.9	241
103	Noncoding RNA. piRNA-guided transposon cleavage initiates Zucchini-dependent, phased piRNA production. <i>Science</i> , 2015 , 348, 817-21	33.3	236
102	Designing siRNA that distinguish between genes that differ by a single nucleotide. <i>PLoS Genetics</i> , 2006 , 2, e140	6	211
101	Five siRNAs targeting three SNPs may provide therapy for three-quarters of Huntington's disease patients. <i>Current Biology</i> , 2009 , 19, 774-8	6.3	198
100	Crystal structure of a Pumilio homology domain. <i>Molecular Cell</i> , 2001 , 7, 855-65	17.6	192
99	Deep annotation of <i>Drosophila melanogaster</i> microRNAs yields insights into their processing, modification, and emergence. <i>Genome Research</i> , 2011 , 21, 203-15	9.7	185
98	Adaptation to P element transposon invasion in <i>Drosophila melanogaster</i> . <i>Cell</i> , 2011 , 147, 1551-63	56.2	176
97	Single-Molecule Imaging Reveals that Argonaute Reshapes the Binding Properties of Its Nucleic Acid Guides. <i>Cell</i> , 2015 , 162, 84-95	56.2	168
96	UAP56 couples piRNA clusters to the perinuclear transposon silencing machinery. <i>Cell</i> , 2012 , 151, 871-884	56.2	164
95	Long-term, efficient inhibition of microRNA function in mice using rAAV vectors. <i>Nature Methods</i> , 2012 , 9, 403-9	21.6	159
94	Pan-arthropod analysis reveals somatic piRNAs as an ancestral defence against transposable elements. <i>Nature Ecology and Evolution</i> , 2018 , 2, 174-181	12.3	155
93	Selective silencing by RNAi of a dominant allele that causes amyotrophic lateral sclerosis. <i>Aging Cell</i> , 2003 , 2, 209-17	9.9	153

92	Argonaute loading improves the 5' precision of both MicroRNAs and their miRNA* strands in flies. <i>Current Biology</i> , 2008 , 18, 147-51	6.3	152
91	A role for microRNAs in the Drosophila circadian clock. <i>Genes and Development</i> , 2009 , 23, 2179-91	12.6	146
90	The HP1 homolog rhino anchors a nuclear complex that suppresses piRNA precursor splicing. <i>Cell</i> , 2014 , 157, 1353-1363	56.2	143
89	Beginning to understand microRNA function. <i>Cell Research</i> , 2007 , 17, 661-3	24.7	135
88	Dicer partner proteins tune the length of mature miRNAs in flies and mammals. <i>Cell</i> , 2012 , 151, 533-46	56.2	134
87	Heterotypic piRNA Ping-Pong requires qin, a protein with both E3 ligase and Tudor domains. <i>Molecular Cell</i> , 2011 , 44, 572-84	17.6	124
86	The 3' to 5' exonuclease Nibbler shapes the 3' ends of microRNAs bound to Drosophila Argonaute1. <i>Current Biology</i> , 2011 , 21, 1878-87	6.3	124
85	MicroRNA-regulated, systemically delivered rAAV9: a step closer to CNS-restricted transgene expression. <i>Molecular Therapy</i> , 2011 , 19, 526-35	11.7	115
84	MicroRNA biogenesis: drosha can't cut it without a partner. <i>Current Biology</i> , 2005 , 15, R61-4	6.3	112
83	A single Argonaute protein mediates both transcriptional and posttranscriptional silencing in <i>Schizosaccharomyces pombe</i> . <i>Genes and Development</i> , 2004 , 18, 2359-67	12.6	109
82	Argonaute protein identity and pairing geometry determine cooperativity in mammalian RNA silencing. <i>Rna</i> , 2011 , 17, 1858-69	5.8	95
81	Phosphate and R2D2 restrict the substrate specificity of Dicer-2, an ATP-driven ribonuclease. <i>Molecular Cell</i> , 2011 , 42, 172-84	17.6	94
80	Strand-specific libraries for high throughput RNA sequencing (RNA-Seq) prepared without poly(A) selection. <i>Silence: A Journal of RNA Regulation</i> , 2012 , 3, 9		92
79	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> , 2012 , 20, 590-600	11.7	90
78	In vitro analysis of RNA interference in <i>Drosophila melanogaster</i> . <i>Methods</i> , 2003 , 30, 330-6	4.6	89
77	A Single Mechanism of Biogenesis, Initiated and Directed by PIWI Proteins, Explains piRNA Production in Most Animals. <i>Molecular Cell</i> , 2018 , 71, 775-790.e5	17.6	89
76	Molecular biology. RNA interference. <i>Science</i> , 2000 , 287, 2431-3	33.3	88
75	Design and delivery of antisense oligonucleotides to block microRNA function in cultured <i>Drosophila</i> and human cells. <i>Nature Protocols</i> , 2008 , 3, 1537-49	18.8	85

74	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> , 2015 , 31, 593-5	7.2	84
73	MicroRNAs: regulating a change of heart. <i>Circulation</i> , 2009 , 119, 2217-24	16.7	80
72	Slicing and Binding by Ago3 or Aub Trigger Piwi-Bound piRNA Production by Distinct Mechanisms. <i>Molecular Cell</i> , 2015 , 59, 819-30	17.6	79
71	Cnidarian microRNAs frequently regulate targets by cleavage. <i>Genome Research</i> , 2014 , 24, 651-63	9.7	78
70	The PUMILIO-RNA interaction: a single RNA-binding domain monomer recognizes a bipartite target sequence. <i>Biochemistry</i> , 1999 , 38, 596-604	3.2	78
69	Argonaute proteins. <i>Current Biology</i> , 2011 , 21, R446-9	6.3	75
68	Comparison of partially and fully chemically-modified siRNA in conjugate-mediated delivery in vivo. <i>Nucleic Acids Research</i> , 2018 , 46, 2185-2196	20.1	71
67	The initial uridine of primary piRNAs does not create the tenth adenine that is the hallmark of secondary piRNAs. <i>Molecular Cell</i> , 2014 , 56, 708-16	17.6	71
66	Elimination of PCR duplicates in RNA-seq and small RNA-seq using unique molecular identifiers. <i>BMC Genomics</i> , 2018 , 19, 531	4.5	70
65	Plant RNAi: How a viral silencing suppressor inactivates siRNA. <i>Current Biology</i> , 2004 , 14, R198-200	6.3	63
64	Why do miRNAs live in the miRNP?. <i>Genes and Development</i> , 2002 , 16, 1025-31	12.6	54
63	Rethinking the microprocessor. <i>Cell</i> , 2006 , 125, 827-9	56.2	53
62	Competitive endogenous RNAs cannot alter microRNA function in vivo. <i>Molecular Cell</i> , 2014 , 54, 711-3	17.6	51
61	Small silencing RNAs. <i>Current Biology</i> , 2007 , 17, R789-93	6.3	49
60	Target RNA-directed tailing and trimming purifies the sorting of endo-siRNAs between the two <i>Drosophila</i> Argonaute proteins. <i>Rna</i> , 2011 , 17, 54-63	5.8	44
59	RNA interference: big applause for silencing in Stockholm. <i>Cell</i> , 2006 , 127, 1083-6	56.2	44
58	A 5'Ruridine amplifies miRNA/miRNA* asymmetry in <i>Drosophila</i> by promoting RNA-induced silencing complex formation. <i>Silence: A Journal of RNA Regulation</i> , 2011 , 2, 4		43
57	The genome of the Hi5 germ cell line from , an agricultural pest and novel model for small RNA biology. <i>ELife</i> , 2018 , 7,	8.9	42

56	High-Throughput Analysis Reveals Rules for Target RNA Binding and Cleavage by AGO2. <i>Molecular Cell</i> , 2019 , 75, 741-755.e11	17.6	41
55	piRNAs. <i>Current Biology</i> , 2014 , 24, R730-3	6.3	39
54	Rapid and specific purification of Argonaute-small RNA complexes from crude cell lysates. <i>Rna</i> , 2013 , 19, 271-9	5.8	39
53	The evolutionarily conserved piRNA-producing locus pi6 is required for male mouse fertility. <i>Nature Genetics</i> , 2020 , 52, 728-739	36.3	37
52	Inorganic phosphate blocks binding of pre-miRNA to Dicer-2 via its PAZ domain. <i>EMBO Journal</i> , 2014 , 33, 371-84	13	33
51	Thirty-three years later, a glimpse at the ribonuclease III active site. <i>Molecular Cell</i> , 2001 , 8, 1158-60	17.6	33
50	The RNA-Binding ATPase, Armitage, Couples piRNA Amplification in Nuage to Phased piRNA Production on Mitochondria. <i>Molecular Cell</i> , 2019 , 74, 982-995.e6	17.6	32
49	Linking SNPs to CAG repeat length in Huntington's disease patients. <i>Nature Methods</i> , 2008 , 5, 951-3	21.6	28
48	Evolutionarily conserved pachytene piRNA loci are highly divergent among modern humans. <i>Nature Ecology and Evolution</i> , 2020 , 4, 156-168	12.3	27
47	Rapid Screening for CRISPR-Directed Editing of the Drosophila Genome Using white Coconversion. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 3197-3206	3.2	27
46	Somatic piRNA biogenesis. <i>EMBO Journal</i> , 2010 , 29, 3219-21	13	26
45	Assessing long-distance RNA sequence connectivity via RNA-templated DNA-DNA ligation. <i>ELife</i> , 2015 , 4,	8.9	25
44	Cas9-mediated allelic exchange repairs compound heterozygous recessive mutations in mice. <i>Nature Biotechnology</i> , 2018 , 36, 839-842	44.5	23
43	Huntington's disease: silencing a brutal killer. <i>Experimental Neurology</i> , 2009 , 220, 226-9	5.7	21
42	Thermus thermophilus Argonaute Functions in the Completion of DNA Replication. <i>Cell</i> , 2020 , 182, 1545-1559.e18	15.5	18
41	Antisense piRNA amplification, but not piRNA production or nuage assembly, requires the Tudor-domain protein Qin. <i>EMBO Journal</i> , 2014 , 33, 536-9	13	17
40	Biochemical dissection of RNA silencing in plants. <i>Methods in Molecular Biology</i> , 2004 , 257, 223-44	1.4	17
39	Transcriptome Profiling of Neovascularized Corneas Reveals miR-204 as a Multi-target Biotherapy Deliverable by rAAVs. <i>Molecular Therapy - Nucleic Acids</i> , 2018 , 10, 349-360	10.7	16

38	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> , 2014 , 9, e100325	3.7	16
37	Welcome to silence. <i>Silence: A Journal of RNA Regulation</i> , 2010 , 1, 1		16
36	Tailor: a computational framework for detecting non-templated tailing of small silencing RNAs. <i>Nucleic Acids Research</i> , 2015 , 43, e109	20.1	15
35	Pitfalls of mapping high-throughput sequencing data to repetitive sequences: Piwi β genomic targets still not identified. <i>Developmental Cell</i> , 2015 , 32, 765-71	10.2	14
34	Small RNA-directed silencing: the fly finds its inner fission yeast?. <i>Current Biology</i> , 2013 , 23, R318-20	6.3	14
33	Maelstrom Represses Canonical Polymerase II Transcription within Bi-directional piRNA Clusters in <i>Drosophila melanogaster</i> . <i>Molecular Cell</i> , 2019 , 73, 291-303.e6	17.6	14
32	SnapShot: Fly piRNAs, PIWI proteins, and the ping-pong cycle. <i>Cell</i> , 2009 , 139, 634, 634.e1	56.2	12
31	An automated Bayesian pipeline for rapid analysis of single-molecule binding data. <i>Nature Communications</i> , 2019 , 10, 272	17.4	11
30	Small methyltransferase RlmH assembles a composite active site to methylate a ribosomal pseudouridine. <i>Scientific Reports</i> , 2017 , 7, 969	4.9	10
29	Increased Steady-State Mutant Huntingtin mRNA in Huntington β Disease Brain. <i>Journal of Huntingtonβ Disease</i> , 2013 , 2, 491-500	1.9	10
28	SnapShot: mouse piRNAs, PIWI proteins, and the ping-pong cycle. <i>Cell</i> , 2009 , 139, 830-830.e1	56.2	9
27	Isolation of <i>Drosophila melanogaster</i> testes. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	8
26	<i>Drosophila</i> development: homeodomains and translational control. <i>Current Biology</i> , 1996 , 6, 773-5	6.3	7
25	RNA Interference and Small RNA Analysis. <i>Cold Spring Harbor Protocols</i> , 2019 , 2019,	1.2	6
24	Analysis of Small RNAs by Northern Hybridization. <i>Cold Spring Harbor Protocols</i> , 2018 , 2018,	1.2	6
23	A universal small molecule, inorganic phosphate, restricts the substrate specificity of Dicer-2 in small RNA biogenesis. <i>Cell Cycle</i> , 2014 , 13, 1671-6	4.7	5
22	Effective and Accurate Gene Silencing by a Recombinant AAV-Compatible MicroRNA Scaffold. <i>Molecular Therapy</i> , 2020 , 28, 422-430	11.7	5
21	Preparation of siRNA Duplexes. <i>Cold Spring Harbor Protocols</i> , 2019 , 2019,	1.2	4

20	Inhibiting miRNA Function by Antisense Oligonucleotides in S2 Cells. <i>Cold Spring Harbor Protocols</i> , 2018 , 2018,	1.2	4
19	Preparation of Antisense Oligonucleotides to Inhibit miRNA Function. <i>Cold Spring Harbor Protocols</i> , 2018 , 2018,	1.2	4
18	An Evolutionarily Conserved piRNA-producing Locus Required for Male Mouse Fertility		4
17	Long first exons and epigenetic marks distinguish conserved pachytene piRNA clusters from other mammalian genes. <i>Nature Communications</i> , 2021 , 12, 73	17.4	4
16	Defining the functions of PIWI-interacting RNAs. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 239-248.7	18.7	4
15	Preparation of dsRNAs for RNAi by In Vitro Transcription. <i>Cold Spring Harbor Protocols</i> , 2019 , 2019,	1.2	3
14	MicroRNAs tame CRISPR-Cas9. <i>Nature Cell Biology</i> , 2019 , 21, 416-417	23.4	3
13	Inhibiting miRNA Function by Antisense Oligonucleotides in Cultured Mammalian Cells. <i>Cold Spring Harbor Protocols</i> , 2018 , 2018,	1.2	3
12	To Degrade a MicroRNA, Destroy Its Argonaute Protein. <i>Molecular Cell</i> , 2021 , 81, 223-225	17.6	3
11	RNAi in S2 Cells by dsRNA Soaking. <i>Cold Spring Harbor Protocols</i> , 2019 , 2019,	1.2	2
10	RNAi in Mammalian Cells by siRNA Duplex Transfection. <i>Cold Spring Harbor Protocols</i> , 2019 , 2019,	1.2	2
9	RNAi in S2 Cells by siRNA Duplex or dsRNA Transfection. <i>Cold Spring Harbor Protocols</i> , 2019 , 2019,	1.2	2
8	Loquacious, a Dicer Partner Protein, Functions in Both the MicroRNA and siRNA Pathways. <i>The Enzymes</i> , 2012 , 37-68	2.3	2
7	Terminal modification, sequence, length, and PIWI-protein identity determine piRNA stability. <i>Molecular Cell</i> , 2021 , 81, 4826-4842.e8	17.6	2
6	The tiny, conserved zinc-finger protein GTSF1 helps PIWI proteins achieve their full catalytic potential		2
5	Terminal Modification, Sequence, and Length Determine Small RNA Stability in Animals		1
4	Principles and pitfalls of high-throughput analysis of microRNA-binding thermodynamics and kinetics by RNA Bind-n-Seq.. <i>Cell Reports Methods</i> , 2022 , 2, 100185		0
3	RNA: methods and protocols - a new series. <i>Silence: A Journal of RNA Regulation</i> , 2012 , 3, 7		

- 2 What fruit flies teach us about RNA silencing.. *FASEB Journal*, **2009**, 23, 191.1 0.9
- 1 One small step for worms, one giant leap for small RNAs. *Nature Reviews Molecular Cell Biology*, **2020**, 21, 565 48.7