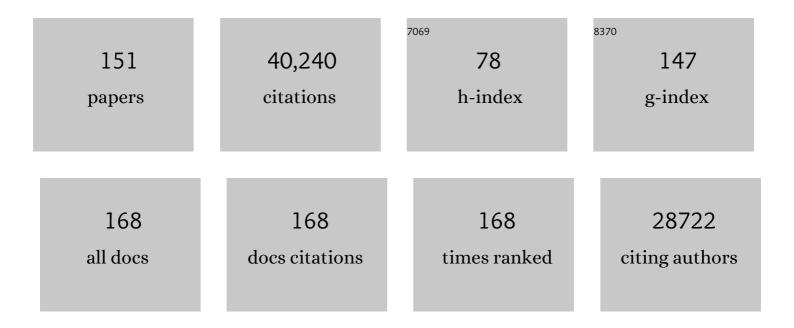
## Phillip D Zamore

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Asymmetry in the Assembly of the RNAi Enzyme Complex. Cell, 2003, 115, 199-208.	13.5	2,486
2	A Cellular Function for the RNA-Interference Enzyme Dicer in the Maturation of the let-7 Small Temporal RNA. Science, 2001, 293, 834-838.	6.0	2,450
3	RNAi. Cell, 2000, 101, 25-33.	13.5	2,421
4	Small silencing RNAs: an expanding universe. Nature Reviews Genetics, 2009, 10, 94-108.	7.7	2,142
5	A microRNA in a Multiple-Turnover RNAi Enzyme Complex. Science, 2002, 297, 2056-2060.	6.0	1,844
6	Ribo-gnome: The Big World of Small RNAs. Science, 2005, 309, 1519-1524.	6.0	1,195
7	A Distinct Small RNA Pathway Silences Selfish Genetic Elements in the Germline. Science, 2006, 313, 320-324.	6.0	1,185
8	Diversifying microRNA sequence and function. Nature Reviews Molecular Cell Biology, 2013, 14, 475-488.	16.1	1,066
9	Passenger-Strand Cleavage Facilitates Assembly of siRNA into Ago2-Containing RNAi Enzyme Complexes. Cell, 2005, 123, 607-620.	13.5	991
10	Paternally Induced Transgenerational Environmental Reprogramming of Metabolic Gene Expression in Mammals. Cell, 2010, 143, 1084-1096.	13.5	990
11	ATP Requirements and Small Interfering RNA Structure in the RNA Interference Pathway. Cell, 2001, 107, 309-321.	13.5	919
12	A biochemical framework for RNA silencing in plants. Genes and Development, 2003, 17, 49-63.	2.7	832
13	Perspective: machines for RNAi. Genes and Development, 2005, 19, 517-529.	2.7	782
14	PIWI-interacting RNAs: small RNAs with big functions. Nature Reviews Genetics, 2019, 20, 89-108.	7.7	779
15	microPrimer: the biogenesis and function of microRNA. Development (Cambridge), 2005, 132, 4645-4652.	1.2	689
16	MicroRNA control of PHABULOSA in leaf development: importance of pairing to the microRNA 5′ region. EMBO Journal, 2004, 23, 3356-3364.	3.5	630
17	Endogenous siRNAs Derived from Transposons and mRNAs in <i>Drosophila</i> Somatic Cells. Science, 2008, 320, 1077-1081.	6.0	594
18	Sequence-Specific Inhibition of Small RNA Function. PLoS Biology, 2004, 2, e98.	2.6	562

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19	Cloning and domain structure of the mammalian splicing factor U2AF. Nature, 1992, 355, 609-614.	13.7	557
20	A factor, U2AF, is required for U2 snRNP binding and splicing complex assembly. Cell, 1988, 52, 207-219.	13.5	531
21	A Protein Sensor for siRNA Asymmetry. Science, 2004, 306, 1377-1380.	6.0	526
22	Target RNA–Directed Trimming and Tailing of Small Silencing RNAs. Science, 2010, 328, 1534-1539.	6.0	514
23	Collapse of Germline piRNAs in the Absence of Argonaute3 Reveals Somatic piRNAs in Flies. Cell, 2009, 137, 509-521.	13.5	503
24	Kinetic analysis of the RNAi enzyme complex. Nature Structural and Molecular Biology, 2004, 11, 599-606.	3.6	481
25	The Drosophila RNA Methyltransferase, DmHen1, Modifies Germline piRNAs and Single-Stranded siRNAs in RISC. Current Biology, 2007, 17, 1265-1272.	1.8	464
26	Normal microRNA Maturation and Germ-Line Stem Cell Maintenance Requires Loquacious, a Double-Stranded RNA-Binding Domain Protein. PLoS Biology, 2005, 3, e236.	2.6	457
27	RNAi: nature abhors a double-strand. Current Opinion in Genetics and Development, 2002, 12, 225-232.	1.5	451
28	Modular Recognition of RNA by a Human Pumilio-Homology Domain. Cell, 2002, 110, 501-512.	13.5	450
29	Evidence that siRNAs Function as Guides, Not Primers, in the Drosophila and Human RNAi Pathways. Molecular Cell, 2002, 10, 537-548.	4.5	433
30	Translational regulation in development. Cell, 1995, 81, 171-178.	13.5	400
31	The Drosophila HP1 Homolog Rhino Is Required for Transposon Silencing and piRNA Production by Dual-Strand Clusters. Cell, 2009, 138, 1137-1149.	13.5	382
32	Drosophila microRNAs Are Sorted into Functionally Distinct Argonaute Complexes after Production by Dicer-1. Cell, 2007, 130, 287-297.	13.5	378
33	The RNA-Induced Silencing Complex Is a Mg2+-Dependent Endonuclease. Current Biology, 2004, 14, 787-791.	1.8	349
34	Sorting of Drosophila Small Silencing RNAs. Cell, 2007, 130, 299-308.	13.5	348
35	Argonaute Divides Its RNA Guide into Domains with Distinct Functions and RNA-Binding Properties. Cell, 2012, 151, 1055-1067.	13.5	347
36	RISC Assembly Defects in the Drosophila RNAi Mutant armitage. Cell, 2004, 116, 831-841.	13.5	339

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37	Ancient Pathways Programmed by Small RNAs. Science, 2002, 296, 1265-1269.	6.0	334
38	RNA interference: listening to the sound of silence. , 2001, 8, 746-750.		324
39	An Ancient Transcription Factor Initiates the Burst of piRNA Production during Early Meiosis in Mouse Testes. Molecular Cell, 2013, 50, 67-81.	4.5	322
40	piRNA-guided transposon cleavage initiates Zucchini-dependent, phased piRNA production. Science, 2015, 348, 817-821.	6.0	320
41	The protein Sex-lethal antagonizes the splicing factor U2AF to regulate alternative splicing of transformer pre-mRNA. Nature, 1993, 362, 171-175.	13.7	316
42	Sorting of <i>Drosophila</i> small silencing RNAs partitions microRNA* strands into the RNA interference pathway. Rna, 2010, 16, 43-56.	1.6	304
43	MicroRNA-33–dependent regulation of macrophage metabolism directs immune cell polarization in atherosclerosis. Journal of Clinical Investigation, 2015, 125, 4334-4348.	3.9	304
44	Single-Molecule Imaging Reveals that Argonaute Reshapes the Binding Properties of Its Nucleic Acid Guides. Cell, 2015, 162, 84-95.	13.5	246
45	Designing siRNA That Distinguish between Genes That Differ by a Single Nucleotide. PLoS Genetics, 2006, 2, e140.	1.5	237
46	Five siRNAs Targeting Three SNPs May Provide Therapy for Three-Quarters of Huntington's Disease Patients. Current Biology, 2009, 19, 774-778.	1.8	227
47	Crystal Structure of a Pumilio Homology Domain. Molecular Cell, 2001, 7, 855-865.	4.5	226
48	Adaptation to P Element Transposon Invasion in Drosophila melanogaster. Cell, 2011, 147, 1551-1563.	13.5	226
49	Pan-arthropod analysis reveals somatic piRNAs as an ancestral defence against transposable elements. Nature Ecology and Evolution, 2018, 2, 174-181.	3.4	214
50	Deep annotation of <i>Drosophila melanogaster</i> microRNAs yields insights into their processing, modification, and emergence. Genome Research, 2011, 21, 203-215.	2.4	207
51	UAP56 Couples piRNA Clusters to the Perinuclear Transposon Silencing Machinery. Cell, 2012, 151, 871-884.	13.5	204
52	The HP1 Homolog Rhino Anchors a Nuclear Complex that Suppresses piRNA Precursor Splicing. Cell, 2014, 157, 1353-1363.	13.5	198
53	Long-term, efficient inhibition of microRNA function in mice using rAAV vectors. Nature Methods, 2012, 9, 403-409.	9.0	188
54	A role for microRNAs in the <i>Drosophila</i> circadian clock. Genes and Development, 2009, 23, 2179-2191.	2.7	178

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55	Selective silencing by RNAi of a dominant allele that causes amyotrophic lateral sclerosis. Aging Cell, 2003, 2, 209-217.	3.0	170
56	Argonaute Loading Improves the 5′ Precision of Both MicroRNAs and Their miRNAâ^— Strands in Flies. Current Biology, 2008, 18, 147-151.	1.8	168
57	A Single Mechanism of Biogenesis, Initiated and Directed by PIWI Proteins, Explains piRNA Production in Most Animals. Molecular Cell, 2018, 71, 775-790.e5.	4.5	159
58	Dicer Partner Proteins Tune the Length of Mature miRNAs in Flies and Mammals. Cell, 2012, 151, 533-546.	13.5	158
59	Beginning to understand microRNA function. Cell Research, 2007, 17, 661-663.	5.7	157
60	Heterotypic piRNA Ping-Pong Requires Qin, a Protein with Both E3 Ligase and Tudor Domains. Molecular Cell, 2011, 44, 572-584.	4.5	156
61	The 3′-to-5′ Exoribonuclease Nibbler Shapes the 3′ Ends of MicroRNAs Bound to Drosophila Argonaute1. Current Biology, 2011, 21, 1878-1887.	1.8	143
62	MicroRNA-regulated, Systemically Delivered rAAV9: A Step Closer to CNS-restricted Transgene Expression. Molecular Therapy, 2011, 19, 526-535.	3.7	143
63	A single Argonaute protein mediates both transcriptional and posttranscriptional silencing in Schizosaccharomyces pombe. Genes and Development, 2004, 18, 2359-2367.	2.7	128
64	MicroRNA Biogenesis: Drosha Can't Cut It without a Partner. Current Biology, 2005, 15, R61-R64.	1.8	126
65	Comparison of partially and fully chemically-modified siRNA in conjugate-mediated delivery in vivo. Nucleic Acids Research, 2018, 46, 2185-2196.	6.5	125
66	Phosphate and R2D2 Restrict the Substrate Specificity of Dicer-2, an ATP-Driven Ribonuclease. Molecular Cell, 2011, 42, 172-184.	4.5	124
67	Elimination of PCR duplicates in RNA-seq and small RNA-seq using unique molecular identifiers. BMC Genomics, 2018, 19, 531.	1.2	123
68	Strand-specific libraries for high throughput RNA sequencing (RNA-Seq) prepared without poly(A) selection. Silence: A Journal of RNA Regulation, 2012, 3, 9.	8.0	122
69	piPipes: a set of pipelines for piRNA and transposon analysis via small RNA-seq, RNA-seq, degradome- and CACE-seq, ChIP-seq and genomic DNA sequencing. Bioinformatics, 2015, 31, 593-595.	1.8	122
70	Slicing and Binding by Ago3 or Aub Trigger Piwi-Bound piRNA Production by Distinct Mechanisms. Molecular Cell, 2015, 59, 819-830.	4.5	112
71	Argonaute protein identity and pairing geometry determine cooperativity in mammalian RNA silencing. Rna, 2011, 17, 1858-1869.	1.6	110
72	High-Throughput Analysis Reveals Rules for Target RNA Binding and Cleavage by AGO2. Molecular Cell, 2019, 75, 741-755.e11.	4.5	107

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73	Sustained miRNA-mediated Knockdown of Mutant AAT With Simultaneous Augmentation of Wild-type AAT Has Minimal Effect on Global Liver miRNA Profiles. Molecular Therapy, 2012, 20, 590-600.	3.7	105
74	Cnidarian microRNAs frequently regulate targets by cleavage. Genome Research, 2014, 24, 651-663.	2.4	104
75	The Initial Uridine of Primary piRNAs Does Not Create the Tenth Adenine that Is the Hallmark of Secondary piRNAs. Molecular Cell, 2014, 56, 708-716.	4.5	102
76	MOLECULAR BIOLOGY:RNA Interference. Science, 2000, 287, 2431-2433.	6.0	101
77	In vitro analysis of RNA interference in Drosophila melanogaster. Methods, 2003, 30, 330-336.	1.9	100
78	The evolutionarily conserved piRNA-producing locus pi6 is required for male mouse fertility. Nature Genetics, 2020, 52, 728-739.	9.4	96
79	Design and delivery of antisense oligonucleotides to block microRNA function in cultured Drosophila and human cells. Nature Protocols, 2008, 3, 1537-1549.	5.5	91
80	Argonaute proteins. Current Biology, 2011, 21, R446-R449.	1.8	89
81	The PUMILIOâ^'RNA Interaction:  A Single RNA-Binding Domain Monomer Recognizes a Bipartite Target Sequence. Biochemistry, 1999, 38, 596-604.	1.2	86
82	MicroRNAs. Circulation, 2009, 119, 2217-2224.	1.6	86
83	Thermus thermophilus Argonaute Functions in the Completion of DNA Replication. Cell, 2020, 182, 1545-1559.e18.	13.5	78
84	Plant RNAi: How aViral Silencing Suppressor Inactivates siRNA. Current Biology, 2004, 14, R198-R200.	1.8	69
85	The genome of the Hi5 germ cell line from Trichoplusia ni, an agricultural pest and novel model for small RNA biology. ELife, 2018, 7, .	2.8	68
86	Why do miRNAs live in the miRNP?. Genes and Development, 2002, 16, 1025-1031.	2.7	65
87	The RNA-Binding ATPase, Armitage, Couples piRNA Amplification in Nuage to Phased piRNA Production on Mitochondria. Molecular Cell, 2019, 74, 982-995.e6.	4.5	65
88	Rethinking the Microprocessor. Cell, 2006, 125, 827-829.	13.5	62
89	Small silencing RNAs. Current Biology, 2007, 17, R789-R793.	1.8	58
90	Evolutionarily conserved pachytene piRNA loci are highly divergent among modern humans. Nature Ecology and Evolution, 2020, 4, 156-168.	3.4	58

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91	RNA Interference: Big Applause for Silencing in Stockholm. Cell, 2006, 127, 1083-1086.	13.5	55
92	piRNAs. Current Biology, 2014, 24, R730-R733.	1.8	55
93	Competitive Endogenous RNAs Cannot Alter MicroRNA Function InÂVivo. Molecular Cell, 2014, 54, 711-713.	4.5	54
94	Rapid Screening for CRISPR-Directed Editing of the Drosophila Genome Using white Coconversion. G3: Genes, Genomes, Genetics, 2016, 6, 3197-3206.	0.8	53
95	Target RNA-directed tailing and trimming purifies the sorting of endo-siRNAs between the two <i>Drosophila</i> Argonaute proteins. Rna, 2011, 17, 54-63.	1.6	51
96	A 5′-uridine amplifies miRNA/miRNA* asymmetry in Drosophila by promoting RNA-induced silencing complex formation. Silence: A Journal of RNA Regulation, 2011, 2, 4.	8.0	50
97	Rapid and specific purification of Argonaute-small RNA complexes from crude cell lysates. Rna, 2013, 19, 271-279.	1.6	45
98	Inorganic phosphate blocks binding of pre-miRNA to Dicer-2 via its PAZ domain. EMBO Journal, 2014, 33, 371-384.	3.5	38
99	Thirty-Three Years Later, a Glimpse at the Ribonuclease III Active Site. Molecular Cell, 2001, 8, 1158-1160.	4.5	37
100	Genomic defence with a slice of pi. Nature, 2007, 446, 864-865.	13.7	37
101	Cas9-mediated allelic exchange repairs compound heterozygous recessive mutations in mice. Nature Biotechnology, 2018, 36, 839-842.	9.4	36
102	RNA binding: βS and basics. Nature, 1990, 348, 485-486.	13.7	34
103	Linking SNPs to CAG repeat length in Huntington's disease patients. Nature Methods, 2008, 5, 951-953.	9.0	33
104	Somatic piRNA biogenesis. EMBO Journal, 2010, 29, 3219-3221.	3.5	33
105	Maelstrom Represses Canonical Polymerase II Transcription within Bi-directional piRNA Clusters in Drosophila melanogaster. Molecular Cell, 2019, 73, 291-303.e6.	4.5	33
106	siRNAs knock down hepatitis. Nature Medicine, 2003, 9, 266-267.	15.2	32
107	Tailor: a computational framework for detecting non-templated tailing of small silencing RNAs. Nucleic Acids Research, 2015, 43, e109-e109.	6.5	31
108	Welcome to Silence. Silence: A Journal of RNA Regulation, 2010, 1, 1.	8.0	29

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109	Assessing long-distance RNA sequence connectivity via RNA-templated DNA–DNA ligation. ELife, 2015, 4,	2.8	29
110	Terminal modification, sequence, length, and PIWI-protein identity determine piRNA stability. Molecular Cell, 2021, 81, 4826-4842.e8.	4.5	27
111	Pitfalls of Mapping High-Throughput Sequencing Data to Repetitive Sequences: Piwi's Genomic Targets Still Not Identified. Developmental Cell, 2015, 32, 765-771.	3.1	26
112	An automated Bayesian pipeline for rapid analysis of single-molecule binding data. Nature Communications, 2019, 10, 272.	5.8	26
113	Defining piRNA primary transcripts. Cell Cycle, 2013, 12, 1657-1658.	1.3	24
114	Transcriptome Profiling of Neovascularized Corneas Reveals miR-204 as a Multi-target Biotherapy Deliverable by rAAVs. Molecular Therapy - Nucleic Acids, 2018, 10, 349-360.	2.3	24
115	GTSF1 accelerates target RNA cleavage by PIWI-clade Argonaute proteins. Nature, 2022, 608, 618-625.	13.7	24
116	High-Throughput Sequencing Analysis of Post-Liver Transplantation HCV E2 Glycoprotein Evolution in the Presence and Absence of Neutralizing Monoclonal Antibody. PLoS ONE, 2014, 9, e100325.	1.1	23
117	Huntington's disease: Silencing a brutal killer. Experimental Neurology, 2009, 220, 226-229.	2.0	21
118	Antisense piRNA amplification, but not piRNA production or nuage assembly, requires the Tudor-domain protein Qin. EMBO Journal, 2014, 33, 536-539.	3.5	21
119	Biochemical Dissection of RNA Silencing in Plants. , 2004, 257, 223-244.		20
120	Effective and Accurate Gene Silencing by a Recombinant AAV-Compatible MicroRNA Scaffold. Molecular Therapy, 2020, 28, 422-430.	3.7	20
121	SnapShot: Fly piRNAs, PIWI Proteins, and the Ping-Pong Cycle. Cell, 2009, 139, 634-634.e1.	13.5	17
122	Long first exons and epigenetic marks distinguish conserved pachytene piRNA clusters from other mammalian genes. Nature Communications, 2021, 12, 73.	5.8	17
123	Small RNA-Directed Silencing: The Fly Finds Its Inner Fission Yeast?. Current Biology, 2013, 23, R318-R320.	1.8	16
124	Defining the functions of PIWI-interacting RNAs. Nature Reviews Molecular Cell Biology, 2021, 22, 239-240.	16.1	14
125	Small methyltransferase RlmH assembles a composite active site to methylate a ribosomal pseudouridine. Scientific Reports, 2017, 7, 969.	1.6	13
126	Increased Steady-State Mutant Huntingtin mRNA in Huntington's Disease Brain. Journal of Huntington's Disease, 2013, 2, 491-500.	0.9	12

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127	Isolation of <em>Drosophila melanogaster</em> Testes. Journal of Visualized Experiments, 2011, , .	0.2	11
128	SnapShot: Mouse piRNAs, PIWI Proteins, and the Ping-Pong Cycle. Cell, 2009, 139, 830-830.e1.	13.5	10
129	RNA Interference and Small RNA Analysis. Cold Spring Harbor Protocols, 2019, 2019, pdb.top097436.	0.2	9
130	To Degrade a MicroRNA, Destroy Its Argonaute Protein. Molecular Cell, 2021, 81, 223-225.	4.5	9
131	Analysis of Small RNAs by Northern Hybridization. Cold Spring Harbor Protocols, 2018, 2018, pdb.prot097493.	0.2	8
132	High-throughput biochemical profiling reveals functional adaptation of a bacterial Argonaute. Molecular Cell, 2022, 82, 1329-1342.e8.	4.5	8
133	Drosophila development: Homeodomains and translational control. Current Biology, 1996, 6, 773-775.	1.8	7
134	Preparation of Antisense Oligonucleotides to Inhibit miRNA Function. Cold Spring Harbor Protocols, 2018, 2018, pdb.prot097527.	0.2	7
135	A universal small molecule, inorganic phosphate, restricts the substrate specificity of Dicer-2 in small RNA biogenesis. Cell Cycle, 2014, 13, 1671-1676.	1.3	6
136	Preparation of siRNA Duplexes. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot097444.	0.2	6
137	Tetrazine-Ligated CRISPR sgRNAs for Efficient Genome Editing. ACS Chemical Biology, 2022, 17, 1045-1050.	1.6	5
138	Inhibiting miRNA Function by Antisense Oligonucleotides in <i>Drosophila</i> S2 Cells. Cold Spring Harbor Protocols, 2018, 2018, pdb.prot097543.	0.2	4
139	Preparation of dsRNAs for RNAi by In Vitro Transcription. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot097469.	0.2	4
140	Principles and pitfalls of high-throughput analysis of microRNA-binding thermodynamics and kinetics by RNA Bind-n-Seq. Cell Reports Methods, 2022, 2, 100185.	1.4	4
141	Loquacious, a Dicer Partner Protein, Functions in Both the MicroRNA and siRNA Pathways. The Enzymes, 2012, , 37-68.	0.7	3
142	Inhibiting miRNA Function by Antisense Oligonucleotides in Cultured Mammalian Cells. Cold Spring Harbor Protocols, 2018, 2018, pdb.prot097535.	0.2	3
143	MicroRNAs tame CRISPR–Cas9. Nature Cell Biology, 2019, 21, 416-417.	4.6	3
144	RNAi in <i>Drosophila</i> S2 Cells by dsRNA Soaking. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot097477.	0.2	2

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145	RNAi in Mammalian Cells by siRNA Duplex Transfection. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot097451.	0.2	2
146	RNAi in <i>Drosophila</i> S2 Cells by siRNA Duplex or dsRNA Transfection. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot097485.	0.2	2
147	Rhino gives voice to silent chromatin. Nature, 2017, 549, 38-39.	13.7	1
148	Nucleus and gene expression. Current Opinion in Cell Biology, 2009, 21, 331-334.	2.6	0
149	RNA: methods and protocols — a new series. Silence: A Journal of RNA Regulation, 2012, 3, 7.	8.0	0
150	One small step for worms, one giant leap for small RNAs. Nature Reviews Molecular Cell Biology, 2020, 21, 565-565.	16.1	0
151	What fruit flies teach us about RNA silencing FASEB Journal, 2009, 23, 191.1.	0.2	0