

# Yukihide Tomari

## List of Publications by Year in descending order

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97  
papers

12,445  
citations

57631

44  
h-index

49773

87  
g-index

104  
all docs

104  
docs citations

104  
times ranked

11714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-free translation reconstituted with purified components. <i>Nature Biotechnology</i> , 2001, 19, 751-755.	9.4	1,647
2	Passenger-Strand Cleavage Facilitates Assembly of siRNA into Ago2-Containing RNAi Enzyme Complexes. <i>Cell</i> , 2005, 123, 607-620.	13.5	991
3	Perspective: machines for RNAi. <i>Genes and Development</i> , 2005, 19, 517-529.	2.7	782
4	The Functions of MicroRNAs: mRNA Decay and Translational Repression. <i>Trends in Cell Biology</i> , 2015, 25, 651-665.	3.6	648
5	A Protein Sensor for siRNA Asymmetry. <i>Science</i> , 2004, 306, 1377-1380.	6.0	526
6	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.	2.6	457
7	Making RISC. <i>Trends in Biochemical Sciences</i> , 2010, 35, 368-376.	3.7	454
8	Hsc70/Hsp90 Chaperone Machinery Mediates ATP-Dependent RISC Loading of Small RNA Duplexes. <i>Molecular Cell</i> , 2010, 39, 292-299.	4.5	404
9	Drosophila microRNAs Are Sorted into Functionally Distinct Argonaute Complexes after Production by Dicer-1. <i>Cell</i> , 2007, 130, 287-297.	13.5	378
10	The RNA-Induced Silencing Complex Is a Mg <sup>2+</sup> -Dependent Endonuclease. <i>Current Biology</i> , 2004, 14, 787-791.	1.8	349
11	Sorting of Drosophila Small Silencing RNAs. <i>Cell</i> , 2007, 130, 299-308.	13.5	348
12	RISC Assembly Defects in the Drosophila RNAi Mutant armitage. <i>Cell</i> , 2004, 116, 831-841.	13.5	339
13	ATP-dependent human RISC assembly pathways. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 17-23.	3.6	304
14	The N domain of Argonaute drives duplex unwinding during RISC assembly. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 145-151.	3.6	262
15	RISC assembly: Coordination between small RNAs and Argonaute proteins. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016, 1859, 71-81.	0.9	247
16	Structural determinants of miRNAs for RISC loading and slicer-independent unwinding. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 953-960.	3.6	241
17	Molecular Insights into microRNA-Mediated Translational Repression in Plants. <i>Molecular Cell</i> , 2013, 52, 591-601.	4.5	229
18	Codon Usage and 3' UTR Length Determine Maternal mRNA Stability in Zebrafish. <i>Molecular Cell</i> , 2016, 61, 874-885.	4.5	229

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19	3' End Formation of PIWI-Interacting RNAs In Vitro. <i>Molecular Cell</i> , 2011, 43, 1015-1022.	4.5	222
20	The microRNA pathway and cancer. <i>Cancer Science</i> , 2010, 101, 2309-2315.	1.7	208
21	Identification and Functional Analysis of the Pre-piRNA 3' Trimmer in Silkworms. <i>Cell</i> , 2016, 164, 962-973.	13.5	159
22	<i>Drosophila</i> Argonaute1 and Argonaute2 Employ Distinct Mechanisms for Translational Repression. <i>Molecular Cell</i> , 2009, 34, 58-67.	4.5	158
23	Recognition of the pre-miRNA structure by <i>Drosophila</i> Dicer-1. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1153-1158.	3.6	153
24	Life of RISC: Formation, action, and degradation of RNA-induced silencing complex. <i>Molecular Cell</i> , 2022, 82, 30-43.	4.5	138
25	Poly(A)-Specific Ribonuclease Mediates 3'-End Trimming of Argonaute2-Cleaved Precursor MicroRNAs. <i>Cell Reports</i> , 2013, 5, 715-726.	2.9	131
26	MicroRNA Biogenesis: Drosha Can't Cut It without a Partner. <i>Current Biology</i> , 2005, 15, R61-R64.	1.8	126
27	The <i>Bombyx</i> ovary-derived cell line endogenously expresses PIWI/PIWI-interacting RNA complexes. <i>Rna</i> , 2009, 15, 1258-1264.	1.6	124
28	Defining fundamental steps in the assembly of the <i>Drosophila</i> RNAi enzyme complex. <i>Nature</i> , 2015, 521, 533-536.	13.7	115
29	piRNAs—the ancient hunters of genome invaders: Figure 1.. <i>Genes and Development</i> , 2007, 21, 1707-1713.	2.7	105
30	MicroRNAs Mediate Gene Silencing via Multiple Different Pathways in <i>Drosophila</i> . <i>Molecular Cell</i> , 2012, 48, 825-836.	4.5	102
31	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, 708-716.	4.5	102
32	Identification and Characterization of Mammalian Mitochondrial tRNA nucleotidyltransferases. <i>Journal of Biological Chemistry</i> , 2001, 276, 40041-40049.	1.6	100
33	MicroRNAs Block Assembly of eIF4F Translation Initiation Complex in <i>Drosophila</i> . <i>Molecular Cell</i> , 2014, 56, 67-78.	4.5	100
34	Elements and machinery of non-coding <i>scp</i> RNA: s: toward their taxonomy. <i>EMBO Reports</i> , 2014, 15, 489-507.	2.0	84
35	<i>Arabidopsis</i> ARGONAUTE7 selects miR390 through multiple checkpoints during RISC assembly. <i>EMBO Reports</i> , 2013, 14, 652-658.	2.0	71
36	Zucchini consensus motifs determine the mechanism of pre-piRNA production. <i>Nature</i> , 2020, 578, 311-316.	13.7	70

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37	Dicer is dispensable for asymmetric RISC loading in mammals. <i>Rna</i> , 2012, 18, 24-30.	1.6	66
38	The poly(A) tail blocks RDR6 from converting self mRNAs into substrates for gene silencing. <i>Nature Plants</i> , 2017, 3, 17036.	4.7	66
39	Zygotic amplification of secondary piRNAs during silkworm embryogenesis. <i>Rna</i> , 2011, 17, 1401-1407.	1.6	65
40	PNLDC1, mouse piRNA Trimmer, is required for meiotic and postmeiotic male germ cell development. <i>EMBO Reports</i> , 2018, 19, .	2.0	64
41	PABP is not essential for microRNA-mediated translational repression and deadenylation in vitro. <i>EMBO Journal</i> , 2011, 30, 4998-5009.	3.5	58
42	Conformational Activation of Argonaute by Distinct yet Coordinated Actions of the Hsp70 and Hsp90 Chaperone Systems. <i>Molecular Cell</i> , 2018, 70, 722-729.e4.	4.5	56
43	A widespread family of heat-resistant obscure (Hero) proteins protect against protein instability and aggregation. <i>PLoS Biology</i> , 2020, 18, e3000632.	2.6	51
44	The silkworm W chromosome is a source of female-enriched piRNAs. <i>Rna</i> , 2011, 17, 2144-2151.	1.6	50
45	A role for transcription from a piRNA cluster in de novo piRNA production. <i>Rna</i> , 2012, 18, 265-273.	1.6	50
46	Argonaute-mediated translational repression (and activation). <i>Fly</i> , 2009, 3, 205-208.	0.9	48
47	Single-Molecule Analysis of the Target Cleavage Reaction by the Drosophila RNAi Enzyme Complex. <i>Molecular Cell</i> , 2015, 59, 125-132.	4.5	48
48	Multilayer checkpoints for microRNA authenticity during RISC assembly. <i>EMBO Reports</i> , 2011, 12, 944-949.	2.0	47
49	Hsp90 facilitates accurate loading of precursor piRNAs into PIWI proteins. <i>Rna</i> , 2013, 19, 896-901.	1.6	46
50	Poly(A)-Binding Protein Facilitates Translation of an Uncapped/Nonpolyadenylated Viral RNA by Binding to the 5' Untranslated Region. <i>Journal of Virology</i> , 2012, 86, 7836-7849.	1.5	41
51	Iruka Eliminates Dysfunctional Argonaute by Selective Ubiquitination of Its Empty State. <i>Molecular Cell</i> , 2019, 73, 119-129.e5.	4.5	35
52	The true core of RNA silencing revealed. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 657-660.	3.6	33
53	Decreased CCA-addition in Human Mitochondrial tRNAs Bearing a Pathogenic A4317G or A10044G Mutation. <i>Journal of Biological Chemistry</i> , 2003, 278, 16828-16833.	1.6	32
54	Ribosome stalling caused by the Argonaute-microRNA-SGS3 complex regulates the production of secondary siRNAs in plants. <i>Cell Reports</i> , 2021, 35, 109300.	2.9	30

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55	The comprehensive epigenome map of piRNA clusters. <i>Nucleic Acids Research</i> , 2013, 41, 1581-1590.	6.5	29
56	Structural basis for arginine methylation-independent recognition of PIWIL1 by TDRD2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12483-12488.	3.3	27
57	Transcriptome profiling reveals infection strategy of an insect maculavirus. <i>DNA Research</i> , 2018, 25, 277-286.	1.5	26
58	In vitro reconstitution of chaperone-mediated human RISC assembly. <i>Rna</i> , 2018, 24, 6-11.	1.6	25
59	GTSF1 accelerates target RNA cleavage by PIWI-clade Argonaute proteins. <i>Nature</i> , 2022, 608, 618-625.	13.7	24
60	VCP Machinery Mediates Autophagic Degradation of Empty Argonaute. <i>Cell Reports</i> , 2019, 28, 1144-1153.e4.	2.9	23
61	Cell-free reconstitution reveals the molecular mechanisms for the initiation of secondary siRNA biogenesis in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	23
62	The role of tightly bound ATP in Escherichia coli tRNA nucleotidyltransferase. <i>Genes To Cells</i> , 2000, 5, 689-698.	0.5	22
63	miRNA-like duplexes as RNAi triggers with improved specificity. <i>Frontiers in Genetics</i> , 2012, 3, 127.	1.1	22
64	Cryptic RNA-binding by PRC2 components EZH2 and SUZ12. <i>RNA Biology</i> , 2015, 12, 959-965.	1.5	20
65	Structure of the Dicer-2/R2D2 heterodimer bound to a small RNA duplex. <i>Nature</i> , 2022, 607, 393-398.	13.7	20
66	Diazirine-containing RNA photocrosslinking probes for the study of siRNA-protein interactions. <i>Chemical Communications</i> , 2010, 46, 7367.	2.2	18
67	CCR4 and CAF1 deadenylases have an intrinsic activity to remove the post-poly(A) sequence. <i>Rna</i> , 2016, 22, 1550-1559.	1.6	18
68	Single-molecule analysis of processive double-stranded RNA cleavage by Drosophila Dicer-2. <i>Nature Communications</i> , 2021, 12, 4268.	5.8	15
69	Native Gel Analysis for RISC Assembly. <i>Methods in Molecular Biology</i> , 2011, 725, 91-105.	0.4	13
70	Dynamic subcellular compartmentalization ensures fidelity of piRNA biogenesis in silkworms. <i>EMBO Reports</i> , 2021, 22, e51342.	2.0	12
71	Diversity of the piRNA pathway for nonself silencing: worm-specific piRNA biogenesis factors. <i>Genes and Development</i> , 2014, 28, 665-671.	2.7	10
72	Pervasive yet nonuniform contributions of Dcp2 and Cnot7 to maternal <i>scp</i> mRNA clearance in zebrafish. <i>Genes To Cells</i> , 2017, 22, 670-678.	0.5	10

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73	In Vitro Analysis of ARGONAUTE-Mediated Target Cleavage and Translational Repression in Plants. <i>Methods in Molecular Biology</i> , 2017, 1640, 55-71.	0.4	10
74	Biochemical and single-molecule analyses of the RNA silencing suppressing activity of CrPV-1A. <i>Nucleic Acids Research</i> , 2017, 45, 10837-10844.	6.5	9
75	tRNA Recognition by CCA-adding enzyme. <i>Nucleic Acids Symposium Series</i> , 2002, 2, 77-78.	0.3	8
76	siRNA potency enhancement via chemical modifications of nucleotide bases at the 5' end of the siRNA guide strand. <i>Rna</i> , 2021, 27, 163-173.	1.6	8
77	Functional specialization of monocot DCL3 and DCL5 proteins through the evolution of the PAZ domain. <i>Nucleic Acids Research</i> , 2022, 50, 4669-4684.	6.5	8
78	Single-Molecule Analysis for RISC Assembly and Target Cleavage. <i>Methods in Molecular Biology</i> , 2018, 1680, 145-164.	0.4	7
79	RNAse H <sup>1</sup> promotes robust piRNA production by generating 2',3'-cyclic phosphate-containing precursors. <i>Nature Communications</i> , 2021, 12, 4498.	5.8	6
80	Mechanistic analysis of the enhanced RNAi activity by 6-mCEPh-purine at the 5' end of the siRNA guide strand. <i>Rna</i> , 2021, 27, 151-162.	1.6	6
81	Making piRNAs In Vitro. <i>Methods in Molecular Biology</i> , 2014, 1093, 35-46.	0.4	5
82	ATP is dispensable for both miRNA- and Smaug-mediated deadenylation reactions. <i>Rna</i> , 2017, 23, 866-871.	1.6	5
83	Identification of an AGO (Argonaute) protein as a prey of TER94/VCP. <i>Autophagy</i> , 2020, 16, 190-192.	4.3	5
84	Fusion with heat-resistant obscure (Hero) proteins have the potential to improve the molecular property of recombinant proteins. <i>PLoS ONE</i> , 2022, 17, e0270097.	1.1	5
85	Reconstitution of RNA Interference Machinery. <i>Methods in Molecular Biology</i> , 2018, 1680, 131-143.	0.4	4
86	Silencing messages in a unique way. <i>Nature Plants</i> , 2017, 3, 769-770.	4.7	3
87	Biochemical dissection of RISC assembly and function. <i>Nucleic Acids Symposium Series</i> , 2009, 53, 15-15.	0.3	2
88	Revisiting the Glass Treatment for Single-Molecule Analysis of ncRNA Function. <i>Methods in Molecular Biology</i> , 2022, , 209-231.	0.4	1
89	microRNA-Mediated Translational Repression in Plants and Animals. <i>Kagaku To Seibutsu</i> , 2015, 53, 510-514.	0.0	0
90	My encounter with RNA. <i>Rna</i> , 2015, 21, 747-748.	1.6	0

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91	In vitro RNA-dependent RNA Polymerase Assay Using Arabidopsis RDR6. Bio-protocol, 2018, 8, e2673.	0.2	0
92	Title is missing!. , 2020, 18, e3000632.		0
93	Title is missing!. , 2020, 18, e3000632.		0
94	Title is missing!. , 2020, 18, e3000632.		0
95	Title is missing!. , 2020, 18, e3000632.		0
96	Title is missing!. , 2020, 18, e3000632.		0
97	Title is missing!. , 2020, 18, e3000632.		0