Yukihide Tomari

List of Publications by Year
in descending order

97 papers	12,445 citations	57758 44 h-index	49909 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. Nature Biotechnology, 2001, 19, 751-755.	17.5	1,647
2	Passenger-Strand Cleavage Facilitates Assembly of siRNA into Ago2-Containing RNAi Enzyme Complexes. Cell, 2005, 123, 607-620.	28.9	991
3	Perspective: machines for RNAi. Genes and Development, 2005, 19, 517-529.	5.9	782
4	The Functions of MicroRNAs: mRNA Decay and Translational Repression. Trends in Cell Biology, 2015, 25, 651-665.	7.9	648
5	A Protein Sensor for siRNA Asymmetry. Science, 2004, 306, 1377-1380.	12.6	526
6	Normal microRNA Maturation and Germ-Line Stem Cell Maintenance Requires Loquacious, a Double-Stranded RNA-Binding Domain Protein. PLoS Biology, 2005, 3, e236.	5.6	457
7	Making RISC. Trends in Biochemical Sciences, 2010, 35, 368-376.	7.5	454
8	Hsc70/Hsp90 Chaperone Machinery Mediates ATP-Dependent RISC Loading of Small RNA Duplexes. Molecular Cell, 2010, 39, 292-299.	9.7	404
9	Drosophila microRNAs Are Sorted into Functionally Distinct Argonaute Complexes after Production by Dicer-1. Cell, 2007, 130, 287-297.	28.9	378
10	The RNA-Induced Silencing Complex Is a Mg2+-Dependent Endonuclease. Current Biology, 2004, 14, 787-791.	3.9	349
11	Sorting of Drosophila Small Silencing RNAs. Cell, 2007, 130, 299-308.	28.9	348
12	RISC Assembly Defects in the Drosophila RNAi Mutant armitage. Cell, 2004, 116, 831-841.	28.9	339
13	ATP-dependent human RISC assembly pathways. Nature Structural and Molecular Biology, 2010, 17, 17-23.	8.2	304
14	The N domain of Argonaute drives duplex unwinding during RISC assembly. Nature Structural and Molecular Biology, 2012, 19, 145-151.	8.2	262
15	RISC assembly: Coordination between small RNAs and Argonaute proteins. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 71-81.	1.9	247
16	Structural determinants of miRNAs for RISC loading and slicer-independent unwinding. Nature Structural and Molecular Biology, 2009, 16, 953-960.	8.2	241
17	Molecular Insights into microRNA-Mediated Translational Repression in Plants. Molecular Cell, 2013, 52, 591-601.	9.7	229
18	Codon Usage and 3â€² UTR Length Determine Maternal mRNA Stability in Zebrafish. Molecular Cell, 2016, 61, 874-885.	9.7	229

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19	3â€² End Formation of PIWI-Interacting RNAs InÂVitro. Molecular Cell, 2011, 43, 1015-1022.	9.7	222
20	The microRNA pathway and cancer. Cancer Science, 2010, 101, 2309-2315.	3.9	208
21	Identification and Functional Analysis of the Pre-piRNA 3â€² Trimmer in Silkworms. Cell, 2016, 164, 962-973.	28.9	159
22	Drosophila Argonaute1 and Argonaute2 Employ Distinct Mechanisms for Translational Repression. Molecular Cell, 2009, 34, 58-67.	9.7	158
23	Recognition of the pre-miRNA structure by DrosophilaÂDicer-1. Nature Structural and Molecular Biology, 2011, 18, 1153-1158.	8.2	153
24	Life of RISC: Formation, action, and degradation of RNA-induced silencing complex. Molecular Cell, 2022, 82, 30-43.	9.7	138
25	Poly(A)-Specific Ribonuclease Mediates 3â€²-End Trimming of Argonaute2-Cleaved Precursor MicroRNAs. Cell Reports, 2013, 5, 715-726.	6.4	131
26	MicroRNA Biogenesis: Drosha Can't Cut It without a Partner. Current Biology, 2005, 15, R61-R64.	3.9	126
27	The <i>Bombyx</i> ovary-derived cell line endogenously expresses PIWI/PIWI-interacting RNA complexes. Rna, 2009, 15, 1258-1264.	3.5	124
28	Defining fundamental steps in the assembly of the Drosophila RNAi enzyme complex. Nature, 2015, 521, 533-536.	27.8	115
29	piRNAsâ€"the ancient hunters of genome invaders: Figure 1.. Genes and Development, 2007, 21, 1707-1713.	5.9	105
30	MicroRNAs Mediate Gene Silencing via Multiple Different Pathways in Drosophila. Molecular Cell, 2012, 48, 825-836.	9.7	102
31	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.	9.7	102
32	Identification and Characterization of Mammalian Mitochondrial tRNA nucleotidyltransferases. Journal of Biological Chemistry, 2001, 276, 40041-40049.	3.4	100
33	MicroRNAs Block Assembly of eIF4F Translation Initiation Complex in Drosophila. Molecular Cell, 2014, 56, 67-78.	9.7	100
34	Elements and machinery of nonâ€coding <scp>RNA</scp> s: toward their taxonomy. EMBO Reports, 2014, 15, 489-507.	4.5	84
35	<i>Arabidopsis</i> ARGONAUTE7 selects miR390 through multiple checkpoints during RISC assembly. EMBO Reports, 2013, 14, 652-658.	4.5	71
36	Zucchini consensus motifs determine the mechanism of pre-piRNA production. Nature, 2020, 578, 311-316.	27.8	70

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37	Dicer is dispensable for asymmetric RISC loading in mammals. Rna, 2012, 18, 24-30.	3.5	66
38	The poly(A) tail blocks RDR6 from converting self mRNAs into substrates for gene silencing. Nature Plants, 2017, 3, 17036.	9.3	66
39	Zygotic amplification of secondary piRNAs during silkworm embryogenesis. Rna, 2011, 17, 1401-1407.	3.5	65
40	<scp>PNLDC</scp> 1, mouse preâ€pi <scp>RNA</scp> Trimmer, is required for meiotic and postâ€meiotic male germ cell development. EMBO Reports, 2018, 19, .	4.5	64
41	PABP is not essential for microRNA-mediated translational repression and deadenylation<i>in vitro</i>. EMBO Journal, 2011, 30, 4998-5009.	7.8	58
42	Conformational Activation of Argonaute by Distinct yet Coordinated Actions of the Hsp70 and Hsp90 Chaperone Systems. Molecular Cell, 2018, 70, 722-729.e4.	9.7	56
43	A widespread family of heat-resistant obscure (Hero) proteins protect against protein instability and aggregation. PLoS Biology, 2020, 18, e3000632.	5.6	51
44	The silkworm W chromosome is a source of female-enriched piRNAs. Rna, 2011, 17, 2144-2151.	3.5	50
45	A role for transcription from a piRNA cluster in de novo piRNA production. Rna, 2012, 18, 265-273.	3.5	50
46	Argonaute-mediated translational repression (and activation). Fly, 2009, 3, 205-208.	1.7	48
47	Single-Molecule Analysis of the Target Cleavage Reaction by the Drosophila RNAi Enzyme Complex. Molecular Cell, 2015, 59, 125-132.	9.7	48
48	Multilayer checkpoints for microRNA authenticity during RISC assembly. EMBO Reports, 2011, 12, 944-949.	4.5	47
49	Hsp90 facilitates accurate loading of precursor piRNAs into PIWI proteins. Rna, 2013, 19, 896-901.	3.5	46
50	Poly(A)-Binding Protein Facilitates Translation of an Uncapped/Nonpolyadenylated Viral RNA by Binding to the 3â€² Untranslated Region. Journal of Virology, 2012, 86, 7836-7849.	3.4	41
51	Iruka Eliminates Dysfunctional Argonaute by Selective Ubiquitination of Its Empty State. Molecular Cell, 2019, 73, 119-129.e5.	9.7	35
52	The true core of RNA silencing revealed. Nature Structural and Molecular Biology, 2012, 19, 657-660.	8.2	33
53	Decreased CCA-addition in Human Mitochondrial tRNAs Bearing a Pathogenic A4317G or A10044G Mutation. Journal of Biological Chemistry, 2003, 278, 16828-16833.	3.4	32
54	Ribosome stalling caused by the Argonaute-microRNA-SGS3 complex regulates the production of secondary siRNAs in plants. Cell Reports, 2021, 35, 109300.	6.4	30

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55	The comprehensive epigenome map of piRNA clusters. Nucleic Acids Research, 2013, 41, 1581-1590.	14.5	29
56	Structural basis for arginine methylation-independent recognition of PIWIL1 by TDRD2. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12483-12488.	7.1	27
57	Transcriptome profiling reveals infection strategy of an insect maculavirus. DNA Research, 2018, 25, 277-286.	3.4	26
58	In vitro reconstitution of chaperone-mediated human RISC assembly. Rna, 2018, 24, 6-11.	3.5	25
59	GTSF1 accelerates target RNA cleavage by PIWI-clade Argonaute proteins. Nature, 2022, 608, 618-625.	27.8	24
60	VCP Machinery Mediates Autophagic Degradation of Empty Argonaute. Cell Reports, 2019, 28, 1144-1153.e4.	6.4	23
61	Cell-free reconstitution reveals the molecular mechanisms for the initiation of secondary siRNA biogenesis in plants. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
62	The role of tightly bound ATP in Escherichia coli tRNA nucleotidyltransferase. Genes To Cells, 2000, 5, 689-698.	1.2	22
63	miRNA-like duplexes as RNAi triggers with improved specificity. Frontiers in Genetics, 2012, 3, 127.	2.3	22
64	Cryptic RNA-binding by PRC2 components EZH2 and SUZ12. RNA Biology, 2015, 12, 959-965.	3.1	20
65	Structure of the Dicer-2â€“R2D2 heterodimer bound to a small RNA duplex. Nature, 2022, 607, 393-398.	27.8	20
66	Diazirine-containing RNA photocrosslinking probes for the study of siRNAâ€“protein interactions. Chemical Communications, 2010, 46, 7367.	4.1	18
67	CCR4 and CAF1 deadenylases have an intrinsic activity to remove the post-poly(A) sequence. Rna, 2016, 22, 1550-1559.	3.5	18
68	Single-molecule analysis of processive double-stranded RNA cleavage by Drosophila Dicer-2. Nature Communications, 2021, 12, 4268.	12.8	15
69	Native Gel Analysis for RISC Assembly. Methods in Molecular Biology, 2011, 725, 91-105.	0.9	13
70	Dynamic subcellular compartmentalization ensures fidelity of piRNA biogenesis in silkworms. EMBO Reports, 2021, 22, e51342.	4.5	12
71	Diversity of the piRNA pathway for nonself silencing: worm-specific piRNA biogenesis factors. Genes and Development, 2014, 28, 665-671.	5.9	10
72	Pervasive yet nonuniform contributions of Dcp2 and Cnot7 to maternal <scp>mRNA</scp> clearance in zebrafish. Genes To Cells, 2017, 22, 670-678.	1.2	10

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73	In Vitro Analysis of ARGONAUTE-Mediated Target Cleavage and Translational Repression in Plants. Methods in Molecular Biology, 2017, 1640, 55-71.	0.9	10
74	Biochemical and single-molecule analyses of the RNA silencing suppressing activity of CrPV-1A. Nucleic Acids Research, 2017, 45, 10837-10844.	14.5	9
75	tRNA Recognition by CCA-adding enzyme. Nucleic Acids Symposium Series, 2002, 2, 77-78.	0.3	8
76	siRNA potency enhancement via chemical modifications of nucleotide bases at the 5â€²-end of the siRNA guide strand. Rna, 2021, 27, 163-173.	3.5	8
77	Functional specialization of monocot DCL3 and DCL5 proteins through the evolution of the PAZ domain. Nucleic Acids Research, 2022, 50, 4669-4684.	14.5	8
78	Single-Molecule Analysis for RISC Assembly and Target Cleavage. Methods in Molecular Biology, 2018, 1680, 145-164.	0.9	7
79	RNase Îº promotes robust piRNA production by generating 2â€²,3â€²-cyclic phosphate-containing precursors. Nature Communications, 2021, 12, 4498.	12.8	6
80	Mechanistic analysis of the enhanced RNAi activity by 6-mCEPh-purine at the 5â€² end of the siRNA guide strand. Rna, 2021, 27, 151-162.	3.5	6
81	Making piRNAs In Vitro. Methods in Molecular Biology, 2014, 1093, 35-46.	0.9	5
82	ATP is dispensable for both miRNA- and Smaug-mediated deadenylation reactions. Rna, 2017, 23, 866-871.	3.5	5
83	Identification of an AGO (Argonaute) protein as a prey of TER94/VCP. Autophagy, 2020, 16, 190-192.	9.1	5
84	Fusion with heat-resistant obscure (Hero) proteins have the potential to improve the molecular property of recombinant proteins. PLoS ONE, 2022, 17, e0270097.	2.5	5
85	Reconstitution of RNA Interference Machinery. Methods in Molecular Biology, 2018, 1680, 131-143.	0.9	4
86	Silencing messages in a unique way. Nature Plants, 2017, 3, 769-770.	9.3	3
87	Biochemical dissection of RISC assembly and function. Nucleic Acids Symposium Series, 2009, 53, 15-15.	0.3	2
88	Revisiting the Glass Treatment for Single-Molecule Analysis of ncRNA Function. Methods in Molecular Biology, 2022, , 209-231.	0.9	1
89	microRNA-Mediated Translational Repression in Plants and Animals. Kagaku To Seibutsu, 2015, 53, 510-514.	0.0	0
90	My encounter with RNA. Rna, 2015, 21, 747-748.	3.5	0

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91	In vitro RNA-dependent RNA Polymerase Assay Using Arabidopsis RDR6. Bio-protocol, 2018, 8, e2673.	0.4	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