Haruhiko Siomi

List of Publications by Year
in descending order

117	15,454	30070 54	24258 110
papers	citations	h-index	g-index

125	125	125	11994
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Slicer-Mediated Mechanism for Repeat-Associated siRNA 5' End Formation in Drosophila. Science, 2007, 315, 1587-1590.	12.6	1,065
2	Distinct roles for Argonaute proteins in small RNA-directed RNA cleavage pathways. Genes and Development, 2004, 18, 1655-1666.	5.9	715
3	The protein product of the fragile X gene, FMR1, has characteristics of an RNA-binding protein. Cell, 1993, 74, 291-298.	28.9	636
4	On the road to reading the RNA-interference code. Nature, 2009, 457, 396-404.	27.8	583
5	PIWI-Interacting RNA: Its Biogenesis and Functions. Annual Review of Biochemistry, 2015, 84, 405-433.	11.1	579
6	Specific association of Piwi with rasiRNAs derived from retrotransposon and heterochromatic regions in the Drosophila genome. Genes and Development, 2006, 20, 2214-2222.	5.9	566
7	The pre-mRNA binding K protein contains a novel evolutionary conserved motif. Nucleic Acids Research, 1993, 21, 1193-1198.	14.5	527
8	A Drosophila fragile X protein interacts with components of RNAi and ribosomal proteins. Genes and Development, 2002, 16, 2497-2508.	5.9	513
9	Posttranscriptional Regulation of MicroRNA Biogenesis in Animals. Molecular Cell, 2010, 38, 323-332.	9.7	507
10	A nuclear localization domain in the hnRNP A1 protein.. Journal of Cell Biology, 1995, 129, 551-560.	5.2	484
11	The dsRNA Binding Protein RDE-4 Interacts with RDE-1, DCR-1, and a DExH-Box Helicase to Direct RNAi in C. elegans. Cell, 2002, 109, 861-871.	28.9	456
12	Essential role for KH domains in RNA binding: Impaired RNA binding by a mutation in the KH domain of FMR1 that causes fragile X syndrome. Cell, 1994, 77, 33-39.	28.9	437
13	Drosophila endogenous small RNAs bind to Argonauteâ€‰2 in somatic cells. Nature, 2008, 453, 793-797.	27.8	417
14	Pimet, the Drosophila homolog of HEN1, mediates 2â€²-O-methylation of Piwi- interacting RNAs at their 3â€² ends. Genes and Development, 2007, 21, 1603-1608.	5.9	400
15	A regulatory circuit for piwi by the large Maf gene traffic jam in Drosophila. Nature, 2009, 461, 1296-1299.	27.8	387
16	Processing of Pre-microRNAs by the Dicer-1â€“Loquacious Complex in Drosophila Cells. PLoS Biology, 2005, 3, e235.	5.6	352
17	Sequence requirements for nucleolar localization of human T cell leukemia virus type I pX protein, which regulates viral RNA processing. Cell, 1988, 55, 197-209.	28.9	351
18	Slicer function of Drosophila Argonautes and its involvement in RISC formation. Genes and Development, 2005, 19, 2837-2848.	5.9	343

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19	Biology of PIWI-interacting RNAs: new insights into biogenesis and function inside and outside of germlines. Genes and Development, 2012, 26, 2361-2373.	5.9	305
20	Structure and function of Zucchini endoribonuclease in piRNA biogenesis. Nature, 2012, 491, 284-287.	27.8	298
21	A microRNA regulatory mechanism of osteoblast differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20794-20799.	7.1	273
22	Roles for the Yb body components Armitage and Yb in primary piRNA biogenesis in Drosophila. Genes and Development, 2010, 24, 2493-2498.	5.9	261
23	RNA-binding proteins as regulators of gene expression. Current Opinion in Genetics and Development, 1997, 7, 345-353.	3.3	255
24	Gene silencing mechanisms mediated by Aubergineâ€“piRNA complexes in Drosophila male gonad. Rna, 2007, 13, 1911-1922.	3.5	245
25	Characterization of endogenous human Argonautes and their miRNA partners in RNA silencing. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7964-7969.	7.1	221
26	Chromatin-associated RNA interference components contribute to transcriptional regulation in Drosophila. Nature, 2011, 480, 391-395.	27.8	203
27	Many ways to generate microRNA-like small RNAs: non-canonical pathways for microRNA production. Molecular Genetics and Genomics, 2010, 284, 95-103.	2.1	201
28	Functional involvement of Tudor and dPRMT5 in the piRNA processing pathway in Drosophila germlines. EMBO Journal, 2009, 28, 3820-3831.	7.8	174
29	How does the Royal Family of Tudor rule the PIWI-interacting RNA pathway?. Genes and Development, 2010, 24, 636-646.	5.9	172
30	A direct role for Hsp90 in pre-RISC formation in Drosophila. Nature Structural and Molecular Biology, 2010, 17, 1024-1026.	8.2	154
31	Functional similarity of HIV-I rev and HTLV-I rex proteins: Identification of a new nucleolar-targeting signal in rev protein. Biochemical and Biophysical Research Communications, 1989, 162, 963-970.	2.1	148
32	DmGTSF1 is necessary for Piwiâ€“piRISC-mediated transcriptional transposon silencing in the Drosophila ovary. Genes and Development, 2013, 27, 1656-1661.	5.9	122
33	Overexpression of HMGA2 relates to reduction of the let-7 and its relationship to clinicopathological features in pituitary adenomas. Modern Pathology, 2009, 22, 431-441.	5.5	120
34	Crystal Structure of Silkworm PIWI-Clade Argonaute Siwi Bound to piRNA. Cell, 2016, 167, 484-497.e9.	28.9	116
35	Nucleolar targeting signal of human T-cell leukemia virus type I rex-encoded protein is essential for cytoplasmic accumulation of unspliced viral mRNA.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 9798-9802.	7.1	113
36	Piwi Modulates Chromatin Accessibility by Regulating Multiple Factors Including Histone H1 to Repress Transposons. Molecular Cell, 2016, 63, 408-419.	9.7	110

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37	Biogenesis pathways of piRNAs loaded onto AGO3 in the Drosophila testis. Rna, 2010, 16, 2503-2515.	3.5	109
38	A Role for the Drosophila Fragile X-Related Gene in Circadian Output. Current Biology, 2002, 12, 1331-1335.	3.9	106
39	Transportin: Nuclear Transport Receptor of a Novel Nuclear Protein Import Pathway. Experimental Cell Research, 1996, 229, 261-266.	2.6	105
40	Characterization of the miRNA-RISC loading complex and miRNA-RISC formed in the Drosophila miRNA pathway. Rna, 2009, 15, 1282-1291.	3.5	96
41	Respective Functions of Two Distinct Siwi Complexes Assembled during PIWI-Interacting RNA Biogenesis in Bombyx Germ Cells. Cell Reports, 2015, 10, 193-203.	6.4	94
42	piRNA clusters and open chromatin structure. Mobile DNA, 2014, 5, 22.	3.6	86
43	Molecular mechanisms that funnel RNA precursors into endogenous small-interfering RNA and microRNA biogenesis pathways in Drosophila. Rna, 2010, 16, 506-515.	3.5	83
44	Casein Kinase II Phosphorylates the Fragile X Mental Retardation Protein and Modulates Its Biological Properties. Molecular and Cellular Biology, 2002, 22, 8438-8447.	2.3	81
45	Small RNA profiling and characterization of piRNA clusters in the adult testes of the common marmoset, a model primate. Rna, 2014, 20, 1223-1237.	3.5	80
46	Signal Sequences That Target Nuclear Import and Nuclear Export of Pre-mRNA-binding Proteins. Cold Spring Harbor Symposia on Quantitative Biology, 1995, 60, 663-668.	1.1	77
47	A region of basic amino-acid cluster in HIV-1 Tat protein is essential forTrans-acting activity and nucleolar localization. Virus Genes, 1989, 3, 99-110.	1.6	76
48	Inheritance of a Nuclear PIWI from Pluripotent Stem Cells by Somatic Descendants Ensures Differentiation by Silencing Transposons in Planarian. Developmental Cell, 2016, 37, 226-237.	7.0	71
49	Maelstrom coordinates microtubule organization during Drosophila oogenesis through interaction with components of the MTOC. Genes and Development, 2011, 25, 2361-2373.	5.9	65
50	Somatic Primary piRNA Biogenesis Driven by cis-Acting RNA Elements and trans-Acting Yb. Cell Reports, 2015, 12, 429-440.	6.4	63
51	Roles of R2D2, a Cytoplasmic D2 Body Component, in the Endogenous siRNA Pathway in Drosophila. Molecular Cell, 2013, 49, 680-691.	9.7	62
52	Yb Integrates piRNA Intermediates and Processing Factors into Perinuclear Bodies to Enhance piRISC Assembly. Cell Reports, 2014, 8, 103-113.	6.4	62
53	Krimper Enforces an Antisense Bias on piRNA Pools by Binding AGO3 in the Drosophila Germline. Molecular Cell, 2015, 59, 553-563.	9.7	61
54	Expression of a Provirus of Human T Cell leukaemia Virus Type I by DNA Transfection. Journal of General Virology, 1987, 68, 499-506.	2.9	59

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55	piRNAs derived from ancient viral processed pseudogenes as transgenerational sequence-specific immune memory in mammals. Rna, 2015, 21, 1691-1703.	3.5	59
56	RISC hitches onto endosome trafficking. Nature Cell Biology, 2009, 11, 1049-1051.	10.3	58
57	Nuclear RNA export factor variant initiates piRNAâ€guided coâ€transcriptional silencing. EMBO Journal, 2019, 38, e102870.	7.8	57
58	piRNA-mediated silencing in Drosophila germlines. Seminars in Cell and Developmental Biology, 2010, 21, 754-759.	5.0	56
59	Fragile X carrier screening and FMR1 allele distribution in the Japanese population. Brain and Development, 2010, 32, 110-114.	1.1	49
60	Piwi Nuclear Localization and Its Regulatory Mechanism in Drosophila Ovarian Somatic Cells. Cell Reports, 2018, 23, 3647-3657.	6.4	45
61	How selfish retrotransposons are silenced in Drosophila germline and somatic cells. FEBS Letters, 2008, 582, 2473-2478.	2.8	44
62	Hierarchical roles of mitochondrial Papi and Zucchini in Bombyx germline piRNA biogenesis. Nature, 2018, 555, 260-264.	27.8	44
63	Crystal structure of Drosophila Piwi. Nature Communications, 2020, 11, 858.	12.8	42
64	Crystal Structure and Activity of the Endoribonuclease Domain of the piRNA Pathway Factor Maelstrom. Cell Reports, 2015, 11, 366-375.	6.4	36
65	Essential roles of Windei and nuclear monoubiquitination of Eggless/ <scp>SETDB</scp> 1 in transposon silencing. EMBO Reports, 2019, 20, e48296.	4.5	34
66	Gender-Specific Hierarchy in Nuage Localization of PIWI-Interacting RNA Factors in Drosophila. Frontiers in Genetics, 2011, 2, 55.	2.3	33
67	RNA interference: A new mechanism by which FMRP acts in the normal brain? What can Drosophila teach us?. Mental Retardation and Developmental Disabilities Research Reviews, 2004, 10, 68-74.	3.6	32
68	Natural Variation of the Amino-Terminal Glutamine-Rich Domain in Drosophila Argonaute2 Is Not Associated with Developmental Defects. PLoS ONE, 2010, 5, e15264.	2.5	32
69	Loss of l(3)mbt leads to acquisition of the ping-pong cycle in Drosophila ovarian somatic cells. Genes and Development, 2016, 30, 1617-1622.	5.9	30
70	Production of functional oocytes requires maternally expressed PIWI genes and piRNAs in golden hamsters. Nature Cell Biology, 2021, 23, 1002-1012.	10.3	30
71	Gatekeepers for Piwiâ€“piRNA complexes to enter the nucleus. Current Opinion in Genetics and Development, 2011, 21, 484-490.	3.3	29
72	Hepatic Ago2-mediated RNA silencing controls energy metabolism linked to AMPK activation and obesity-associated pathophysiology. Nature Communications, 2018, 9, 3658.	12.8	29

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73	Differential effects on expression of ILâ€2 receptors (p55 and p70) by the HTLVâ€I pX DNA. International Journal of Cancer, 1988, 41, 880-885.	5.1	26
74	Broad Heterochromatic Domains Open in Gonocyte Development Prior to De Novo DNA Methylation. Developmental Cell, 2019, 51, 21-34.e5.	7.0	26
75	Hamster PIWI proteins bind to piRNAs with stage-specific size variations during oocyte maturation. Nucleic Acids Research, 2021, 49, 2700-2720.	14.5	26
76	In vitro RNA Cleavage Assay for Argonaute-Family Proteins. Methods in Molecular Biology, 2008, 442, 29-43.	0.9	25
77	Interactions between transposable elements and Argonautes have (probably) been shaping the Drosophila genome throughout evolution. Current Opinion in Genetics and Development, 2008, 18, 181-187.	3.3	21
78	Clinical utility of SARS-CoV-2 whole genome sequencing in deciphering source of infection. Journal of Hospital Infection, 2021, 107, 40-44.	2.9	19
79	Circadian Phenotypes of Drosophila Fragile X Mutants in Alternative Genetic Backgrounds. Zoological Science, 2008, 25, 561-571.	0.7	18
80	Piwi suppresses transcription of Brahma-dependent transposons via Maelstrom in ovarian somatic cells. Science Advances, 2020, 6, .	10.3	18
81	The emergence of SARS-CoV-2 variants threatens to decrease the efficacy of neutralizing antibodies and vaccines. Biochemical Society Transactions, 2021, 49, 2879-2890.	3.4	16
82	Augmentation of c-fos and c-jun expression in transgenic mice carrying the human T-cell leukemia virus type-Itax gene. Virus Genes, 1995, 9, 161-170.	1.6	15
83	A potential link between transgene silencing and poly(A) tails. Rna, 2005, 11, 1004-1011.	3.5	15
84	Gene expression ontogeny of spermatogenesis in the marmoset uncovers primate characteristics during testicular development. Developmental Biology, 2015, 400, 43-58.	2.0	15
85	Potent mouse monoclonal antibodies that block SARS-CoV-2 infection. Journal of Biological Chemistry, 2021, 296, 100346.	3.4	15
86	Pro108Ser mutation of SARS-CoV-2 3CLpro reduces the enzyme activity and ameliorates the clinical severity of COVID-19. Scientific Reports, 2022, 12, 1299.	3.3	15
87	Expanding RNA physiology: microRNAs in a unicellular organism. Genes and Development, 2007, 21, 1153-1156.	5.9	13
88	Tudor-domain containing proteins act to make the piRNA pathways more robust in Drosophila. Fly, 2015, 9, 86-90.	1.7	13
89	Is canalization more than just a beautiful idea?. Genome Biology, 2010, 11, 109.	9.6	12
90	Phased piRNAs tackle transposons. Science, 2015, 348, 756-757.	12.6	12

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91	diRNA-Ago2-RAD51 complexes at double-strand break sites. Cell Research, 2014, 24, 511-512.	12.0	11
92	Human PIWI (HIWI) is an azoospermia factor. Science China Life Sciences, 2018, 61, 348-350.	4.9	11
93	Two major subgroups of human T-Cell leukemia virus-1 in Japan. Virus Genes, 1988, 1, 377-83.	1.6	10
94	Analysis of a novel defective HTLV-I provirus and detection of a new HTLV-I-induced cellular transcript. FEBS Letters, 1995, 375, 31-36.	2.8	9
95	Misprocessed <scp>tRNA</scp> response targets pi <scp>RNA</scp> clusters. EMBO Journal, 2015, 34, 2988-2989.	7.8	9
96	Deep sequencing and high-throughput analysis of PIWI-associated small RNAs. Methods, 2017, 126, 66-75.	3.8	9
97	Piwiâ€“piRNA complexes induce stepwise changes in nuclear architecture at target loci. EMBO Journal, 2021, 40, e108345.	7.8	8
98	Sphere-formation culture of testicular germ cells in the common marmoset, a small New World monkey. Primates, 2016, 57, 129-135.	1.1	6
99	Biochemical Analyzes of Endogenous Argonaute Complexes Immunopurified with Anti-Argonaute Monoclonal Antibodies. Methods in Molecular Biology, 2011, 725, 29-43.	0.9	6
100	Identification of Components of RNAi Pathways Using the Tandem Affinity Purification Method<I>. , 2005, 309, 001-010.		5
101	miRNA Regulatory Ecosystem in Early Development. Molecular Cell, 2014, 56, 615-616.	9.7	5
102	Preferential transcription of HTLV-I LTR in cell-free extracts of human T cells producing HTLV-I viral proteins. Nucleic Acids Research, 1986, 14, 4779-4786.	14.5	4
103	Small RNAs: Artificial piRNAs for Transcriptional Silencing. Current Biology, 2015, 25, R280-R283.	3.9	4
104	Profiling Open Chromatin Structure in theÂOvarian Somatic Cells Using ATAC-seq. Methods in Molecular Biology, 2018, 1680, 165-177.	0.9	4
105	In Vitro Precursor MicroRNA Processing Assays Using Drosophila Schneider-2 Cell Lysates. , 2006, 342, 277-286.		3
106	Transposable elements, RNA silencing, and their impacts on the genome throughout evolution. Uirusu, 2008, 58, 55-60.	0.1	3
107	Identification of Mouse piRNA Pathway Components Using Anti-MIWI2 Antibodies. Methods in Molecular Biology, 2017, 1463, 205-216.	0.9	3
108	How to Define Targets for Small Guide RNAs in RNA Silencing: A Biochemical Approach. Methods in Enzymology, 2008, 449, 345-355.	1.0	2

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109	ATAC-seq method applied to embryonic germ cells and neural stem cells from mouse: Practical tips and modifications. , 2020, , 371-386.		2
110	Stress Signaling Etches Heritable Marks on Chromatin. Cell, 2011, 145, 1005-1007.	28.9	1
111	PIWI Proteins and Their Slicer Activity in piRNA Biogenesis and Transposon Silencing. The Enzymes, 2012, 32, 137-162.	1.7	1
112	It's time to exploit your favorite quirky organism with new technologies. EMBO Reports, 2014, 15, 620-621.	4.5	1
113	Connection between RNA silencing and fragile X syndrome. Neuroscience Research, 2007, 58, S12.	1.9	0
114	P36. A possible link between piRNA biogenesis and microtubule organization in Drosophila ovaries. Differentiation, 2010, 80, S28-S29.	1.9	0
115	The Key Features of RNA Silencing. , 2010, , 1-28.		0
116	Mobile elements control stem cell potency. Science, 2017, 355, 581-582.	12.6	0
117	Purification of dFMR1-Containing Complexes Using Tandem Affinity Purification. Methods in Molecular Biology, 2013, 1010, 111-121.	0.9	0