

Haruhiko Siomi

List of Publications by Year in descending order

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117
papers

15,454
citations

29994

54
h-index

24179

110
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125
all docs

125
docs citations

125
times ranked

11994
citing authors

#	ARTICLE	IF	CITATIONS
1	A Slicer-Mediated Mechanism for Repeat-Associated siRNA 5' End Formation in <i>Drosophila</i> . <i>Science</i> , 2007, 315, 1587-1590.	6.0	1,065
2	Distinct roles for Argonaute proteins in small RNA-directed RNA cleavage pathways. <i>Genes and Development</i> , 2004, 18, 1655-1666.	2.7	715
3	The protein product of the fragile X gene, FMR1, has characteristics of an RNA-binding protein. <i>Cell</i> , 1993, 74, 291-298.	13.5	636
4	On the road to reading the RNA-interference code. <i>Nature</i> , 2009, 457, 396-404.	13.7	583
5	PIWI-Interacting RNA: Its Biogenesis and Functions. <i>Annual Review of Biochemistry</i> , 2015, 84, 405-433.	5.0	579
6	Specific association of Piwi with rasiRNAs derived from retrotransposon and heterochromatic regions in the <i>Drosophila</i> genome. <i>Genes and Development</i> , 2006, 20, 2214-2222.	2.7	566
7	The pre-mRNA binding K protein contains a novel evolutionary conserved motif. <i>Nucleic Acids Research</i> , 1993, 21, 1193-1198.	6.5	527
8	A <i>Drosophila</i> fragile X protein interacts with components of RNAi and ribosomal proteins. <i>Genes and Development</i> , 2002, 16, 2497-2508.	2.7	513
9	Posttranscriptional Regulation of MicroRNA Biogenesis in Animals. <i>Molecular Cell</i> , 2010, 38, 323-332.	4.5	507
10	A nuclear localization domain in the hnRNP A1 protein.. <i>Journal of Cell Biology</i> , 1995, 129, 551-560.	2.3	484
11	The dsRNA Binding Protein RDE-4 Interacts with RDE-1, DCR-1, and a DExH-Box Helicase to Direct RNAi in <i>C. elegans</i> . <i>Cell</i> , 2002, 109, 861-871.	13.5	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. <i>Cell</i> , 1994, 77, 33-39.	13.5	437
13	<i>Drosophila</i> endogenous small RNAs bind to Argonaute2 in somatic cells. <i>Nature</i> , 2008, 453, 793-797.	13.7	417
14	Pimet, the <i>Drosophila</i> homolog of HEN1, mediates 2'-O-methylation of Piwi- interacting RNAs at their 3' ends. <i>Genes and Development</i> , 2007, 21, 1603-1608.	2.7	400
15	A regulatory circuit for piwi by the large Maf gene traffic jam in <i>Drosophila</i> . <i>Nature</i> , 2009, 461, 1296-1299.	13.7	387
16	Processing of Pre-microRNAs by the Dicer-1-Loquacious Complex in <i>Drosophila</i> Cells. <i>PLoS Biology</i> , 2005, 3, e235.	2.6	352
17	Sequence requirements for nucleolar localization of human T cell leukemia virus type I pX protein, which regulates viral RNA processing. <i>Cell</i> , 1988, 55, 197-209.	13.5	351
18	Slicer function of <i>Drosophila</i> Argonautes and its involvement in RISC formation. <i>Genes and Development</i> , 2005, 19, 2837-2848.	2.7	343

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19	Biology of PIWI-interacting RNAs: new insights into biogenesis and function inside and outside of germlines. <i>Genes and Development</i> , 2012, 26, 2361-2373.	2.7	305
20	Structure and function of Zucchini endoribonuclease in piRNA biogenesis. <i>Nature</i> , 2012, 491, 284-287.	13.7	298
21	A microRNA regulatory mechanism of osteoblast differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20794-20799.	3.3	273
22	Roles for the Yb body components Armitage and Yb in primary piRNA biogenesis in <i>Drosophila</i> . <i>Genes and Development</i> , 2010, 24, 2493-2498.	2.7	261
23	RNA-binding proteins as regulators of gene expression. <i>Current Opinion in Genetics and Development</i> , 1997, 7, 345-353.	1.5	255
24	Gene silencing mechanisms mediated by Aubergine piRNA complexes in <i>Drosophila</i> male gonad. <i>Rna</i> , 2007, 13, 1911-1922.	1.6	245
25	Characterization of endogenous human Argonautes and their miRNA partners in RNA silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7964-7969.	3.3	221
26	Chromatin-associated RNA interference components contribute to transcriptional regulation in <i>Drosophila</i> . <i>Nature</i> , 2011, 480, 391-395.	13.7	203
27	Many ways to generate microRNA-like small RNAs: non-canonical pathways for microRNA production. <i>Molecular Genetics and Genomics</i> , 2010, 284, 95-103.	1.0	201
28	Functional involvement of Tudor and dPRMT5 in the piRNA processing pathway in <i>Drosophila</i> germlines. <i>EMBO Journal</i> , 2009, 28, 3820-3831.	3.5	174
29	How does the Royal Family of Tudor rule the PIWI-interacting RNA pathway?. <i>Genes and Development</i> , 2010, 24, 636-646.	2.7	172
30	A direct role for Hsp90 in pre-RISC formation in <i>Drosophila</i> . <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1024-1026.	3.6	154
31	Functional similarity of HIV-1 rev and HTLV-1 rex proteins: Identification of a new nucleolar-targeting signal in rev protein. <i>Biochemical and Biophysical Research Communications</i> , 1989, 162, 963-970.	1.0	148
32	DmGTSF1 is necessary for Piwi piRISC-mediated transcriptional transposon silencing in the <i>Drosophila</i> ovary. <i>Genes and Development</i> , 2013, 27, 1656-1661.	2.7	122
33	Overexpression of HMGA2 relates to reduction of the let-7 and its relationship to clinicopathological features in pituitary adenomas. <i>Modern Pathology</i> , 2009, 22, 431-441.	2.9	120
34	Crystal Structure of Silkworm PIWI-Clade Argonaute Siwi Bound to piRNA. <i>Cell</i> , 2016, 167, 484-497.e9.	13.5	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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 9798-9802.	3.3	113
36	Piwi Modulates Chromatin Accessibility by Regulating Multiple Factors Including Histone H1 to Repress Transposons. <i>Molecular Cell</i> , 2016, 63, 408-419.	4.5	110

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37	Biogenesis pathways of piRNAs loaded onto AGO3 in the <i>Drosophila</i> testis. <i>Rna</i> , 2010, 16, 2503-2515.	1.6	109
38	A Role for the <i>Drosophila</i> Fragile X-Related Gene in Circadian Output. <i>Current Biology</i> , 2002, 12, 1331-1335.	1.8	106
39	Transportin: Nuclear Transport Receptor of a Novel Nuclear Protein Import Pathway. <i>Experimental Cell Research</i> , 1996, 229, 261-266.	1.2	105
40	Characterization of the miRNA-RISC loading complex and miRNA-RISC formed in the <i>Drosophila</i> miRNA pathway. <i>Rna</i> , 2009, 15, 1282-1291.	1.6	96
41	Respective Functions of Two Distinct Siwi Complexes Assembled during PIWI-Interacting RNA Biogenesis in <i>Bombyx</i> Germ Cells. <i>Cell Reports</i> , 2015, 10, 193-203.	2.9	94
42	piRNA clusters and open chromatin structure. <i>Mobile DNA</i> , 2014, 5, 22.	1.3	86
43	Molecular mechanisms that funnel RNA precursors into endogenous small-interfering RNA and microRNA biogenesis pathways in <i>Drosophila</i> . <i>Rna</i> , 2010, 16, 506-515.	1.6	83
44	Casein Kinase II Phosphorylates the Fragile X Mental Retardation Protein and Modulates Its Biological Properties. <i>Molecular and Cellular Biology</i> , 2002, 22, 8438-8447.	1.1	81
45	Small RNA profiling and characterization of piRNA clusters in the adult testes of the common marmoset, a model primate. <i>Rna</i> , 2014, 20, 1223-1237.	1.6	80
46	Signal Sequences That Target Nuclear Import and Nuclear Export of Pre-mRNA-binding Proteins. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1995, 60, 663-668.	2.0	77
47	A region of basic amino-acid cluster in HIV-1 Tat protein is essential for Trans-acting activity and nucleolar localization. <i>Virus Genes</i> , 1989, 3, 99-110.	0.7	76
48	Inheritance of a Nuclear PIWI from Pluripotent Stem Cells by Somatic Descendants Ensures Differentiation by Silencing Transposons in Planarian. <i>Developmental Cell</i> , 2016, 37, 226-237.	3.1	71
49	Maelstrom coordinates microtubule organization during <i>Drosophila</i> oogenesis through interaction with components of the MTOC. <i>Genes and Development</i> , 2011, 25, 2361-2373.	2.7	65
50	Somatic Primary piRNA Biogenesis Driven by cis-Acting RNA Elements and trans-Acting Yb. <i>Cell Reports</i> , 2015, 12, 429-440.	2.9	63
51	Roles of R2D2, a Cytoplasmic D2 Body Component, in the Endogenous siRNA Pathway in <i>Drosophila</i> . <i>Molecular Cell</i> , 2013, 49, 680-691.	4.5	62
52	Yb Integrates piRNA Intermediates and Processing Factors into Perinuclear Bodies to Enhance piRISC Assembly. <i>Cell Reports</i> , 2014, 8, 103-113.	2.9	62
53	Krimper Enforces an Antisense Bias on piRNA Pools by Binding AGO3 in the <i>Drosophila</i> Germline. <i>Molecular Cell</i> , 2015, 59, 553-563.	4.5	61
54	Expression of a Provirus of Human T Cell leukaemia Virus Type I by DNA Transfection. <i>Journal of General Virology</i> , 1987, 68, 499-506.	1.3	59

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55	piRNAs derived from ancient viral processed pseudogenes as transgenerational sequence-specific immune memory in mammals. <i>Rna</i> , 2015, 21, 1691-1703.	1.6	59
56	RISC hitchhikes onto endosome trafficking. <i>Nature Cell Biology</i> , 2009, 11, 1049-1051.	4.6	58
57	Nuclear RNA export factor variant initiates piRNA-guided co-transcriptional silencing. <i>EMBO Journal</i> , 2019, 38, e102870.	3.5	57
58	piRNA-mediated silencing in <i>Drosophila</i> germlines. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 754-759.	2.3	56
59	Fragile X carrier screening and FMR1 allele distribution in the Japanese population. <i>Brain and Development</i> , 2010, 32, 110-114.	0.6	49
60	Piwi Nuclear Localization and Its Regulatory Mechanism in <i>Drosophila</i> Ovarian Somatic Cells. <i>Cell Reports</i> , 2018, 23, 3647-3657.	2.9	45
61	How selfish retrotransposons are silenced in <i>Drosophila</i> germline and somatic cells. <i>FEBS Letters</i> , 2008, 582, 2473-2478.	1.3	44
62	Hierarchical roles of mitochondrial Papi and Zucchini in <i>Bombyx</i> germline piRNA biogenesis. <i>Nature</i> , 2018, 555, 260-264.	13.7	44
63	Crystal structure of <i>Drosophila</i> Piwi. <i>Nature Communications</i> , 2020, 11, 858.	5.8	42
64	Crystal Structure and Activity of the Endoribonuclease Domain of the piRNA Pathway Factor Maelstrom. <i>Cell Reports</i> , 2015, 11, 366-375.	2.9	36
65	Essential roles of Winder and nuclear monoubiquitination of Eggless/SETDB1 in transposon silencing. <i>EMBO Reports</i> , 2019, 20, e48296.	2.0	34
66	Gender-Specific Hierarchy in Nuage Localization of PIWI-Interacting RNA Factors in <i>Drosophila</i> . <i>Frontiers in Genetics</i> , 2011, 2, 55.	1.1	33
67	RNA interference: A new mechanism by which FMRP acts in the normal brain? What can <i>Drosophila</i> teach us?. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 2004, 10, 68-74.	3.5	32
68	Natural Variation of the Amino-Terminal Glutamine-Rich Domain in <i>Drosophila</i> Argonaute2 Is Not Associated with Developmental Defects. <i>PLoS ONE</i> , 2010, 5, e15264.	1.1	32
69	Loss of <i>(3)mbt</i> leads to acquisition of the ping-pong cycle in <i>Drosophila</i> ovarian somatic cells. <i>Genes and Development</i> , 2016, 30, 1617-1622.	2.7	30
70	Production of functional oocytes requires maternally expressed PIWI genes and piRNAs in golden hamsters. <i>Nature Cell Biology</i> , 2021, 23, 1002-1012.	4.6	30
71	Gatekeepers for Piwi-piRNA complexes to enter the nucleus. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 484-490.	1.5	29
72	Hepatic Ago2-mediated RNA silencing controls energy metabolism linked to AMPK activation and obesity-associated pathophysiology. <i>Nature Communications</i> , 2018, 9, 3658.	5.8	29

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73	Differential effects on expression of IL-2 receptors (p55 and p70) by the HTLV-1 pX DNA. International Journal of Cancer, 1988, 41, 880-885.	2.3	26
74	Broad Heterochromatic Domains Open in Gonocyte Development Prior to De Novo DNA Methylation. Developmental Cell, 2019, 51, 21-34.e5.	3.1	26
75	Hamster PIWI proteins bind to piRNAs with stage-specific size variations during oocyte maturation. Nucleic Acids Research, 2021, 49, 2700-2720.	6.5	26
76	In vitro RNA Cleavage Assay for Argonaute-Family Proteins. Methods in Molecular Biology, 2008, 442, 29-43.	0.4	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.	1.5	21
78	Clinical utility of SARS-CoV-2 whole genome sequencing in deciphering source of infection. Journal of Hospital Infection, 2021, 107, 40-44.	1.4	19
79	Circadian Phenotypes of Drosophila Fragile X Mutants in Alternative Genetic Backgrounds. Zoological Science, 2008, 25, 561-571.	0.3	18
80	Piwi suppresses transcription of Brahma-dependent transposons via Maelstrom in ovarian somatic cells. Science Advances, 2020, 6, .	4.7	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.	1.6	16
82	Augmentation of c-fos and c-jun expression in transgenic mice carrying the human T-cell leukemia virus type-1 tax gene. Virus Genes, 1995, 9, 161-170.	0.7	15
83	A potential link between transgene silencing and poly(A) tails. Rna, 2005, 11, 1004-1011.	1.6	15
84	Gene expression ontogeny of spermatogenesis in the marmoset uncovers primate characteristics during testicular development. Developmental Biology, 2015, 400, 43-58.	0.9	15
85	Potent mouse monoclonal antibodies that block SARS-CoV-2 infection. Journal of Biological Chemistry, 2021, 296, 100346.	1.6	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.	1.6	15
87	Expanding RNA physiology: microRNAs in a unicellular organism. Genes and Development, 2007, 21, 1153-1156.	2.7	13
88	Tudor-domain containing proteins act to make the piRNA pathways more robust in Drosophila. Fly, 2015, 9, 86-90.	0.9	13
89	Is canalization more than just a beautiful idea?. Genome Biology, 2010, 11, 109.	13.9	12
90	Phased piRNAs tackle transposons. Science, 2015, 348, 756-757.	6.0	12

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91	diRNA-Ago2-RAD51 complexes at double-strand break sites. <i>Cell Research</i> , 2014, 24, 511-512.	5.7	11
92	Human PIWI (HIWI) is an azoospermia factor. <i>Science China Life Sciences</i> , 2018, 61, 348-350.	2.3	11
93	Two major subgroups of human T-Cell leukemia virus-1 in Japan. <i>Virus Genes</i> , 1988, 1, 377-83.	0.7	10
94	Analysis of a novel defective HTLV-I provirus and detection of a new HTLV-I-induced cellular transcript. <i>FEBS Letters</i> , 1995, 375, 31-36.	1.3	9
95	Misprocessed <i><scp>tRNA</scp></i> response targets pi <i><scp>RNA</scp></i> clusters. <i>EMBO Journal</i> , 2015, 34, 2988-2989.	3.5	9
96	Deep sequencing and high-throughput analysis of PIWI-associated small RNAs. <i>Methods</i> , 2017, 126, 66-75.	1.9	9
97	Piwi piRNA complexes induce stepwise changes in nuclear architecture at target loci. <i>EMBO Journal</i> , 2021, 40, e108345.	3.5	8
98	Sphere-formation culture of testicular germ cells in the common marmoset, a small New World monkey. <i>Primates</i> , 2016, 57, 129-135.	0.7	6
99	Biochemical Analyses of Endogenous Argonaute Complexes Immunopurified with Anti-Argonaute Monoclonal Antibodies. <i>Methods in Molecular Biology</i> , 2011, 725, 29-43.	0.4	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. <i>Molecular Cell</i> , 2014, 56, 615-616.	4.5	5
102	Preferential transcription of HTLV-I LTR in cell-free extracts of human T cells producing HTLV-I viral proteins. <i>Nucleic Acids Research</i> , 1986, 14, 4779-4786.	6.5	4
103	Small RNAs: Artificial piRNAs for Transcriptional Silencing. <i>Current Biology</i> , 2015, 25, R280-R283.	1.8	4
104	Profiling Open Chromatin Structure in the Ovarian Somatic Cells Using ATAC-seq. <i>Methods in Molecular Biology</i> , 2018, 1680, 165-177.	0.4	4
105	In Vitro Precursor MicroRNA Processing Assays Using <i>Drosophila</i> Schneider-2 Cell Lysates. , 2006, 342, 277-286.		3
106	Transposable elements, RNA silencing, and their impacts on the genome throughout evolution. <i>Virus</i> , 2008, 58, 55-60.	0.1	3
107	Identification of Mouse piRNA Pathway Components Using Anti-MIWI2 Antibodies. <i>Methods in Molecular Biology</i> , 2017, 1463, 205-216.	0.4	3
108	How to Define Targets for Small Guide RNAs in RNA Silencing: A Biochemical Approach. <i>Methods in Enzymology</i> , 2008, 449, 345-355.	0.4	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.	13.5	1
111	PIWI Proteins and Their Slicer Activity in piRNA Biogenesis and Transposon Silencing. The Enzymes, 2012, 32, 137-162.	0.7	1
112	It's time to exploit your favorite quirky organism with new technologies. EMBO Reports, 2014, 15, 620-621.	2.0	1
113	Connection between RNA silencing and fragile X syndrome. Neuroscience Research, 2007, 58, S12.	1.0	0
114	P36. A possible link between piRNA biogenesis and microtubule organization in Drosophila ovaries. Differentiation, 2010, 80, S28-S29.	1.0	0
115	The Key Features of RNA Silencing. , 2010, , 1-28.		0
116	Mobile elements control stem cell potency. Science, 2017, 355, 581-582.	6.0	0
117	Purification of dFMR1-Containing Complexes Using Tandem Affinity Purification. Methods in Molecular Biology, 2013, 1010, 111-121.	0.4	0