Mikiko C Siomi

List of Publications by Year
in descending order

67 papers	13,383 citations	100601 38 h-index	116156 66 g-index
69 all docs	69 docs citations	69 times ranked	12739 citing authors

#	Article	IF	Citations
1	T-hairpin structure found in the RNA element involved in piRNA biogenesis. Rna, 2022, 28, 541-550.	1.6	4
2	Maelstrom functions in the production of Siwi-piRISC capable of regulating transposons in Bombyx germ cells. IScience, 2022, 25, 103914.	1.9	5
3	Siwi cooperates with Par-1 kinase to resolve the autoinhibitory effect of Papi for Siwi-piRISC biogenesis. Nature Communications, 2022, 13, 1518.	5.8	1
4	DEADâ€box polypeptide 43 facilitates piRNA amplification by actively liberating RNA from Ago3â€piRISC. EMBO Reports, 2021, 22, e51313.	2.0	14
5	Hamster PIWI proteins bind to piRNAs with stage-specific size variations during oocyte maturation. Nucleic Acids Research, 2021, 49, 2700-2720.	6.5	26
6	piRNAâ€•and siRNAâ€mediated transcriptional repression in <i>Drosophila</i> , mice, and yeast: new insights and biodiversity. EMBO Reports, 2021, 22, e53062.	2.0	31
7	Japan: prize diversity, not conformity, to boost research. Nature, 2021, 599, 201-201.	13.7	1
8	Armitage determines Piwiâ˜'piRISC processing from precursor formation and quality control to interâ€organelle translocation. EMBO Reports, 2020, 21, e48769.	2.0	19
9	Piwi suppresses transcription of Brahma-dependent transposons via Maelstrom in ovarian somatic cells. Science Advances, 2020, 6, .	4.7	18
10	The Mi-2 nucleosome remodeler and the Rpd3 histone deacetylase are involved in piRNA-guided heterochromatin formation. Nature Communications, 2020, 11, 2818.	5.8	30
11	The piRNA pathway in <i>Drosophila</i> ovarian germ and somatic cells. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2020, 96, 32-42.	1.6	50
12	Crystal structure of Drosophila Piwi. Nature Communications, 2020, 11, 858.	5.8	42
13	Siwi levels reversibly regulate secondary pi <scp>RISC</scp> biogenesis by affecting Ago3 body morphology in <i>Bombyx mori</i>. EMBO Journal, 2020, 39, e105130.	3.5	13
14	Assembly and Function of Gonad-Specific Non-Membranous Organelles in Drosophila piRNA Biogenesis. Non-coding RNA, 2019, 5, 52.	1.3	5
15	Distinct and Collaborative Functions of Yb and Armitage in Transposon-Targeting piRNA Biogenesis. Cell Reports, 2019, 27, 1822-1835.e8.	2.9	37
16	Requirements for multivalent Yb body assembly in transposon silencing in <i>Drosophila</i>. EMBO Reports, 2019, 20, e47708.	2.0	25
17	Essential roles of Windei and nuclear monoubiquitination of Eggless/ <scp>SETDB</scp> 1 in transposon silencing. EMBO Reports, 2019, 20, e48296.	2.0	34
18	Nuclear RNA export factor variant initiates piRNAâ€guided coâ€transcriptional silencing. EMBO Journal, 2019, 38, e102870.	3.5	57

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19	Hierarchical roles of mitochondrial Papi and Zucchini in Bombyx germline piRNA biogenesis. Nature, 2018, 555, 260-264.	13.7	44
20	PIWI-Interacting RNA in <i>Drosophila</i>: Biogenesis, Transposon Regulation, and Beyond. Chemical Reviews, 2018, 118, 4404-4421.	23.0	82
21	The PIWIâ€Interacting RNA Molecular Pathway: Insights From Cultured Silkworm Germline Cells. BioEssays, 2018, 40, 1700068.	1.2	21
22	Two distinct transcriptional controls triggered by nuclear Piwi-piRISCs in the Drosophila piRNA pathway. Current Opinion in Structural Biology, 2018, 53, 69-76.	2.6	20
23	Piwi Nuclear Localization and Its Regulatory Mechanism in Drosophila Ovarian Somatic Cells. Cell Reports, 2018, 23, 3647-3657.	2.9	45
24	Use of the CRISPR-Cas9 system for genome editing in cultured Drosophila ovarian somatic cells. Methods, 2017, 126, 186-192.	1.9	8
25	Loss of <i>l(3)mbt</i> leads to acquisition of the ping-pong cycle in <i>Drosophila</i> ovarian somatic cells. Genes and Development, 2016, 30, 1617-1622.	2.7	30
26	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.	3.1	71
27	Crystal Structure of Silkworm PIWI-Clade Argonaute Siwi Bound to piRNA. Cell, 2016, 167, 484-497.e9.	13.5	116
28	Piwi Modulates Chromatin Accessibility by Regulating Multiple Factors Including Histone H1 to Repress Transposons. Molecular Cell, 2016, 63, 408-419.	4.5	110
29	piRNA biogenesis in the germline: From transcription of piRNA genomic sources to piRNA maturation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2016, 1859, 82-92.	0.9	87
30	Somatic Primary piRNA Biogenesis Driven by cis-Acting RNA Elements and trans-Acting Yb. Cell Reports, 2015, 12, 429-440.	2.9	63
31	Tudor-domain containing proteins act to make the piRNA pathways more robust in Drosophila. Fly, 2015, 9, 86-90.	0.9	13
32	Respective Functions of Two Distinct Siwi Complexes Assembled during PIWI-Interacting RNA Biogenesis in Bombyx Germ Cells. Cell Reports, 2015, 10, 193-203.	2.9	94
33	PIWI-Interacting RNA: Its Biogenesis and Functions. Annual Review of Biochemistry, 2015, 84, 405-433.	5.0	579
34	Krimper Enforces an Antisense Bias on piRNA Pools by Binding AGO3 in the Drosophila Germline. Molecular Cell, 2015, 59, 553-563.	4.5	61
35	Functional and structural insights into the piRNA factor Maelstrom. FEBS Letters, 2015, 589, 1688-1693.	1.3	25
36	Crystal Structure and Activity of the Endoribonuclease Domain of the piRNA Pathway Factor Maelstrom. Cell Reports, 2015, 11, 366-375.	2.9	36

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37	Phased piRNAs tackle transposons. Science, 2015, 348, 756-757.	6.0	12
38	Immuno-Electron Microscopy and Electron Microscopic In Situ Hybridization for Visualizing piRNA Biogenesis Bodies in Drosophila Ovaries. Methods in Molecular Biology, 2015, 1328, 163-178.	0.4	21
39	piRNA clusters and open chromatin structure. Mobile DNA, 2014, 5, 22.	1.3	86
40	Yb Integrates piRNA Intermediates and Processing Factors into Perinuclear Bodies to Enhance piRISC Assembly. Cell Reports, 2014, 8, 103-113.	2.9	62
41	Small RNA profiling and characterization of piRNA clusters in the adult testes of the common marmoset, a model primate. Rna, 2014, 20, 1223-1237.	1.6	80
42	Roles of R2D2, a Cytoplasmic D2 Body Component, in the Endogenous siRNA Pathway in Drosophila. Molecular Cell, 2013, 49, 680-691.	4.5	62
43	DmGTSF1 is necessary for Piwiâ€“piRISC-mediated transcriptional transposon silencing in the <i>Drosophila</i> ovary. Genes and Development, 2013, 27, 1656-1661.	2.7	122
44	Biology of PIWI-interacting RNAs: new insights into biogenesis and function inside and outside of germlines. Genes and Development, 2012, 26, 2361-2373.	2.7	305
45	Structure and function of Zucchini endoribonuclease in piRNA biogenesis. Nature, 2012, 491, 284-287.	13.7	298
46	Gender-Specific Hierarchy in Nuage Localization of PIWI-Interacting RNA Factors in Drosophila. Frontiers in Genetics, 2011, 2, 55.	1.1	33
47	PIWI-interacting small RNAs: the vanguard of genome defence. Nature Reviews Molecular Cell Biology, 2011, 12, 246-258.	16.1	1,114
48	Maelstrom coordinates microtubule organization during <i>Drosophila</i> oogenesis through interaction with components of the MTOC. Genes and Development, 2011, 25, 2361-2373.	2.7	65
49	How does the Royal Family of Tudor rule the PIWI-interacting RNA pathway?. Genes and Development, 2010, 24, 636-646.	2.7	172
50	Biogenesis pathways of piRNAs loaded onto AGO3 in the <i>Drosophila</i> testis. Rna, 2010, 16, 2503-2515.	1.6	109
51	Roles for the Yb body components Armitage and Yb in primary piRNA biogenesis in <i>Drosophila</i>. Genes and Development, 2010, 24, 2493-2498.	2.7	261
52	Small RNA-Mediated Quiescence of Transposable Elements in Animals. Developmental Cell, 2010, 19, 687-697.	3.1	156
53	Characterization of the miRNA-RISC loading complex and miRNA-RISC formed in the <i>Drosophila</i> miRNA pathway. Rna, 2009, 15, 1282-1291.	1.6	96
54	RNA silencing in germlinesâ€”exquisite collaboration of Argonaute proteins with small RNAs for germline survival. Current Opinion in Cell Biology, 2009, 21, 426-434.	2.6	35

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55	Functional involvement of Tudor and dPRMT5 in the piRNA processing pathway in Drosophila germlines. EMBO Journal, 2009, 28, 3820-3831.	3.5	174
56	On the road to reading the RNA-interference code. Nature, 2009, 457, 396-404.	13.7	583
57	A regulatory circuit for piwi by the large Maf gene traffic jam in Drosophila. Nature, 2009, 461, 1296-1299.	13.7	387
58	Biogenesis of small RNAs in animals. Nature Reviews Molecular Cell Biology, 2009, 10, 126-139.	16.1	2,885
59	Drosophila endogenous small RNAs bind to Argonauteâ€‰2 in somatic cells. Nature, 2008, 453, 793-797.	13.7	417
60	Pimet, the <i>Drosophila</i> homolog of HEN1, mediates 2â€²-<i>O</i>-methylation of Piwi- interacting RNAs at their 3â€² ends. Genes and Development, 2007, 21, 1603-1608.	2.7	400
61	Gene silencing mechanisms mediated by Aubergineâ€"piRNA complexes in <i>Drosophila</i> male gonad. Rna, 2007, 13, 1911-1922.	1.6	245
62	A Slicer-Mediated Mechanism for Repeat-Associated siRNA 5' End Formation in Drosophila. Science, 2007, 315, 1587-1590.	6.0	1,065
63	Specific association of Piwi with rasiRNAs derived from retrotransposon and heterochromatic regions in the Drosophila genome. Genes and Development, 2006, 20, 2214-2222.	2.7	566
64	Slicer function of Drosophila Argonautes and its involvement in RISC formation. Genes and Development, 2005, 19, 2837-2848.	2.7	343
65	Processing of Pre-microRNAs by the Dicer-1â€"Loquacious Complex in Drosophila Cells. PLoS Biology, 2005, 3, e235.	2.6	352
66	A Drosophila fragile X protein interacts with components of RNAi and ribosomal proteins. Genes and Development, 2002, 16, 2497-2508.	2.7	513
67	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.	13.5	437