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	Biogenesis of small RNAs in animals. Nature Reviews Molecular Cell Biology, 2009, 10, 126-139.	16.1	2,885
2	PIWI-interacting small RNAs: the vanguard of genome defence. Nature Reviews Molecular Cell Biology, 2011, 12, 246-258.	16.1	1,114
3	A Slicer-Mediated Mechanism for Repeat-Associated siRNA 5' End Formation in Drosophila. Science, 2007, 315, 1587-1590.	6.0	1,065
4	On the road to reading the RNA-interference code. Nature, 2009, 457, 396-404.	13.7	583
5	PIWI-Interacting RNA: Its Biogenesis and Functions. Annual Review of Biochemistry, 2015, 84, 405-433.	5.0	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.	2.7	566
7	A Drosophila fragile X protein interacts with components of RNAi and ribosomal proteins. Genes and Development, 2002, 16, 2497-2508.	2.7	513
8	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
9	Drosophila endogenous small RNAs bind to Argonauteâ€‰2 in somatic cells. Nature, 2008, 453, 793-797.	13.7	417
10	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
11	A regulatory circuit for piwi by the large Maf gene traffic jam in Drosophila. Nature, 2009, 461, 1296-1299.	13.7	387
12	Processing of Pre-microRNAs by the Dicer-1â€“Loquacious Complex in Drosophila Cells. PLoS Biology, 2005, 3, e235.	2.6	352
13	Slicer function of Drosophila Argonautes and its involvement in RISC formation. Genes and Development, 2005, 19, 2837-2848.	2.7	343
14	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
15	Structure and function of Zucchini endoribonuclease in piRNA biogenesis. Nature, 2012, 491, 284-287.	13.7	298
16	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
17	Gene silencing mechanisms mediated by Aubergineâ€“piRNA complexes in <i>Drosophila</i> male gonad. Rna, 2007, 13, 1911-1922.	1.6	245
18	Functional involvement of Tudor and dPRMT5 in the piRNA processing pathway in Drosophila germlines. EMBO Journal, 2009, 28, 3820-3831.	3.5	174

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19	How does the Royal Family of Tudor rule the PIWI-interacting RNA pathway?. Genes and Development, 2010, 24, 636-646.	2.7	172
20	Small RNA-Mediated Quiescence of Transposable Elements in Animals. Developmental Cell, 2010, 19, 687-697.	3.1	156
21	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
22	Crystal Structure of Silkworm PIWI-Clade Argonaute Siwi Bound to piRNA. Cell, 2016, 167, 484-497.e9.	13.5	116
23	Piwi Modulates Chromatin Accessibility by Regulating Multiple Factors Including Histone H1 to Repress Transposons. Molecular Cell, 2016, 63, 408-419.	4.5	110
24	Biogenesis pathways of piRNAs loaded onto AGO3 in the <i>Drosophila</i> testis. Rna, 2010, 16, 2503-2515.	1.6	109
25	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
26	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
27	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
28	piRNA clusters and open chromatin structure. Mobile DNA, 2014, 5, 22.	1.3	86
29	PIWI-Interacting RNA in <i>Drosophila</i>: Biogenesis, Transposon Regulation, and Beyond. Chemical Reviews, 2018, 118, 4404-4421.	23.0	82
30	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
31	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
32	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
33	Somatic Primary piRNA Biogenesis Driven by cis-Acting RNA Elements and trans-Acting Yb. Cell Reports, 2015, 12, 429-440.	2.9	63
34	Roles of R2D2, a Cytoplasmic D2 Body Component, in the Endogenous siRNA Pathway in Drosophila. Molecular Cell, 2013, 49, 680-691.	4.5	62
35	Yb Integrates piRNA Intermediates and Processing Factors into Perinuclear Bodies to Enhance piRISC Assembly. Cell Reports, 2014, 8, 103-113.	2.9	62
36	Krimper Enforces an Antisense Bias on piRNA Pools by Binding AGO3 in the Drosophila Germline. Molecular Cell, 2015, 59, 553-563.	4.5	61

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37	Nuclear RNA export factor variant initiates piRNAâ€guided coâ€transcriptional silencing. EMBO Journal, 2019, 38, e102870.	3.5	57
38	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
39	Piwi Nuclear Localization and Its Regulatory Mechanism in Drosophila Ovarian Somatic Cells. Cell Reports, 2018, 23, 3647-3657.	2.9	45
40	Hierarchical roles of mitochondrial Papi and Zucchini in Bombyx germline piRNA biogenesis. Nature, 2018, 555, 260-264.	13.7	44
41	Crystal structure of Drosophila Piwi. Nature Communications, 2020, 11, 858.	5.8	42
42	Distinct and Collaborative Functions of Yb and Armitage in Transposon-Targeting piRNA Biogenesis. Cell Reports, 2019, 27, 1822-1835.e8.	2.9	37
43	Crystal Structure and Activity of the Endoribonuclease Domain of the piRNA Pathway Factor Maelstrom. Cell Reports, 2015, 11, 366-375.	2.9	36
44	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
45	Essential roles of Windei and nuclear monoubiquitination of Eggless/ <scp>SETDB</scp> 1 in transposon silencing. EMBO Reports, 2019, 20, e48296.	2.0	34
46	Gender-Specific Hierarchy in Nuage Localization of PIWI-Interacting RNA Factors in Drosophila. Frontiers in Genetics, 2011, 2, 55.	1.1	33
47	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
48	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
49	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
50	Hamster PIWI proteins bind to piRNAs with stage-specific size variations during oocyte maturation. Nucleic Acids Research, 2021, 49, 2700-2720.	6.5	26
51	Functional and structural insights into the piRNA factor Maelstrom. FEBS Letters, 2015, 589, 1688-1693.	1.3	25
52	Requirements for multivalent Yb body assembly in transposon silencing in <i>Drosophila</i>. EMBO Reports, 2019, 20, e47708.	2.0	25
53	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
54	The PIWIâ€Interacting RNA Molecular Pathway: Insights From Cultured Silkworm Germline Cells. BioEssays, 2018, 40, 1700068.	1.2	21

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55	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
56	Armitage determines Piwiâ"piRISC processing from precursor formation and quality control to interâ€organelle translocation. EMBO Reports, 2020, 21, e48769.	2.0	19
57	Piwi suppresses transcription of Brahma-dependent transposons via Maelstrom in ovarian somatic cells. Science Advances, 2020, 6, .	4.7	18
58	DEADâ€box polypeptide 43 facilitates piRNA amplification by actively liberating RNA from Ago3â€piRISC. EMBO Reports, 2021, 22, e51313.	2.0	14
59	Tudor-domain containing proteins act to make the piRNA pathways more robust in Drosophila. Fly, 2015, 9, 86-90.	0.9	13
60	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
61	Phased piRNAs tackle transposons. Science, 2015, 348, 756-757.	6.0	12
62	Use of the CRISPR-Cas9 system for genome editing in cultured Drosophila ovarian somatic cells. Methods, 2017, 126, 186-192.	1.9	8
63	Assembly and Function of Gonad-Specific Non-Membranous Organelles in Drosophila piRNA Biogenesis. Non-coding RNA, 2019, 5, 52.	1.3	5
64	Maelstrom functions in the production of Siwi-piRISC capable of regulating transposons in Bombyx germ cells. IScience, 2022, 25, 103914.	1.9	5
65	T-hairpin structure found in the RNA element involved in piRNA biogenesis. Rna, 2022, 28, 541-550.	1.6	4
66	Japan: prize diversity, not conformity, to boost research. Nature, 2021, 599, 201-201.	13.7	1
67	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