RenÃ© F Ketting

List of Publications by Year
in descending order

49 papers	8,434 citations	172457 29 h-index	206112 48 g-index
64 all docs	64 docs citations	64 times ranked	8451 citing authors

#	Article	IF	Citations
1	Processing of primary microRNAs by the Microprocessor complex. Nature, 2004, 432, 231-235.	27.8	2,340
2	A Role for Piwi and piRNAs in Germ Cell Maintenance and Transposon Silencing in Zebrafish. Cell, 2007, 129, 69-82.	28.9	989
3	mut-7 of C. elegans, Required for Transposon Silencing and RNA Interference, Is a Homolog of Werner Syndrome Helicase and RNaseD. Cell, 1999, 99, 133-141.	28.9	687
4	The Argonaute CSR-1 and Its 22G-RNA Cofactors Are Required for Holocentric Chromosome Segregation. Cell, 2009, 139, 123-134.	28.9	416
5	The evolutionary journey of Argonaute proteins. Nature Structural and Molecular Biology, 2014, 21, 743-753.	8.2	400
6	Piwi and piRNAs Act Upstream of an Endogenous siRNA Pathway to Suppress Tc3 Transposon Mobility in the Caenorhabditis elegans Germline. Molecular Cell, 2008, 31, 79-90.	9.7	392
7	The Many Faces of RNAi. Developmental Cell, 2011, 20, 148-161.	7.0	316
8	PIWI-interacting RNAs: from generation to transgenerational epigenetics. Nature Reviews Genetics, 2013, 14, 523-534.	16.3	306
9	Zili is required for germ cell differentiation and meiosis in zebrafish. EMBO Journal, 2008, 27, 2702-2711.	7.8	273
10	A genetic link between co-suppression and RNA interference in C. elegans. Nature, 2000, 404, 296-298.	27.8	199
11	Extremely stable Piwi-induced gene silencing inCaenorhabditis elegans. EMBO Journal, 2012, 31, 3422-3430.	7.8	197
12	Piwi Proteins and piRNAs in Mammalian Oocytes and Early Embryos. Cell Reports, 2015, 10, 2069-2082.	6.4	183
13	CDE-1 Affects Chromosome Segregation through Uridylation of CSR-1-Bound siRNAs. Cell, 2009, 139, 135-148.	28.9	164
14	Hen1 is required for oocyte development and piRNA stability in zebrafish. EMBO Journal, 2010, 29, 3688-3700.	7.8	145
15	Systemic Loss and Gain of Chromatin Architecture throughout Zebrafish Development. Cell Reports, 2018, 24, 1-10.e4.	6.4	124
16	DNA methylation dynamics during intestinal stem cell differentiation reveals enhancers driving gene expression in the villus. Genome Biology, 2013, 14, R50.	9.6	109
17	Maternal piRNAs Are Essential for Germline Development following De Novo Establishment of Endo-siRNAs in Caenorhabditis elegans. Developmental Cell, 2015, 34, 448-456.	7.0	101
18	The role of small non-coding RNAs in genome stability and chromatin organization. Journal of Cell Science, 2010, 123, 1825-1839.	2.0	99

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19	Differential Impact of the HEN1 Homolog HENN-1 on 21U and 26G RNAs in the Germline of Caenorhabditis elegans. PLoS Genetics, 2012, 8, e1002702.	3.5	96
20	Tdrd1 acts as a molecular scaffold for Piwi proteins and piRNA targets in zebrafish. EMBO Journal, 2011, 30, 3298-3308.	7.8	70
21	RDE-1 slicer activity is required only for passenger-strand cleavage during RNAi in Caenorhabditis elegans. Nature Structural and Molecular Biology, 2009, 16, 207-211.	8.2	68
22	Tdrd6a Regulates the Aggregation of Buc into Functional Subcellular Compartments that Drive Germ Cell Specification. Developmental Cell, 2018, 46, 285-301.e9.	7.0	68
23	MicroRNAâ€“Directed siRNA Biogenesis in Caenorhabditis elegans. PLoS Genetics, 2010, 6, e1000903.	3.5	67
24	MUT-14 and SMUT-1 DEAD Box RNA Helicases Have Overlapping Roles in Germline RNAi and Endogenous siRNA Formation. Current Biology, 2014, 24, 839-844.	3.9	55
25	Piwi proteins and piRNAs in mammalian oocytes and early embryos: From sample to sequence. Genomics Data, 2015, 5, 309-313.	1.3	50
26	Function and Evolution of Nematode RNAi Pathways. Non-coding RNA, 2019, 5, 8.	2.6	49
27	piRNAs from Pig Testis Provide Evidence for a Conserved Role of the Piwi Pathway in Post-Transcriptional Gene Regulation in Mammals. PLoS ONE, 2015, 10, e0124860.	2.5	48
28	A tudor domain protein, SIMR-1, promotes siRNA production at piRNA-targeted mRNAs in C. elegans. ELife, 2020, 9, .	6.0	45
29	Enhancers reside in a unique epigenetic environment during early zebrafish development. Genome Biology, 2016, 17, 146.	8.8	41
30	PID-1 is a novel factor that operates during 21U-RNA biogenesis in Caenorhabditis elegans. Genes and Development, 2014, 28, 683-688.	5.9	37
31	PETISCO is a novel protein complex required for 21U RNA biogenesis and embryonic viability. Genes and Development, 2019, 33, 857-870.	5.9	34
32	Concepts and functions of small RNA pathways in C. elegans. Current Topics in Developmental Biology, 2021, 144, 45-89.	2.2	29
33	<scp>GTSF</scp> â€1 is required for formation of a functional <scp>RNA</scp> â€dependent <scp>RNA</scp> Polymerase complex in Caenorhabditis elegans. EMBO Journal, 2018, 37, .	7.8	23
34	Bardet-Biedl syndrome proteins modulate the release of bioactive extracellular vesicles. Nature Communications, 2021, 12, 5671.	12.8	23
35	RppH can faithfully replace TAP to allow cloning of 5â€²-triphosphate carrying small RNAs. MethodsX, 2019, 6, 265-272.	1.6	21
36	Tupaia small RNAs provide insights into function and evolution of RNAi-based transposon defense in mammals. Rna, 2015, 21, 911-922.	3.5	19

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37	Maternal and zygotic gene regulatory effects of endogenous RNAi pathways. PLoS Genetics, 2019, 15, e1007784.	3.5	19
38	Characterization of genetic loss-of-function of Fus in zebrafish. RNA Biology, 2017, 14, 29-35.	3.1	16
39	Structural basis of PETISCO complex assembly during piRNA biogenesis in C. elegans. Genes and Development, 2021, 35, 1304-1323.	5.9	14
40	Intrinsically disordered protein PIDâ€2 modulates Z granules and is required for heritable piRNAâ€induced silencing in theCaenorhabditis elegansembryo. EMBO Journal, 2021, 40, e105280.	7.8	14
41	Protease-mediated processing of Argonaute proteins controls small RNA association. Molecular Cell, 2021, 81, 2388-2402.e8.	9.7	13
42	piRNA dynamics in divergent zebrafish strains reveal long-lasting maternal influence on zygotic piRNA profiles. Rna, 2013, 19, 345-356.	3.5	12
43	The double-stranded DNA-binding proteins TEBP-1 and TEBP-2 form a telomeric complex with POT-1. Nature Communications, 2021, 12, 2668.	12.8	12
44	Membrane-associated cytoplasmic granules carrying the Argonaute protein WAGO-3 enable paternal epigenetic inheritance in Caenorhabditis elegans. Nature Cell Biology, 2022, 24, 217-229.	10.3	11
45	The Caenorhabditis elegans TDRD5/7-like protein, LOTR-1, interacts with the helicase ZNFX-1 to balance epigenetic signals in the germline. PLoS Genetics, 2022, 18, e1010245.	3.5	7
46	Trimming it short: PNLDC1 is required for piRNA maturation during mouse spermatogenesis. EMBO Reports, 2018, 19, .	4.5	6
47	Is This Mine? Small RNAs Help to Decide. Developmental Cell, 2013, 27, 599-601.	7.0	4
48	Extensive nuclear gyration and pervasive non-genic transcription during primordial germ cell development in zebrafish. Development (Cambridge), 2021, 148, .	2.5	4
49	How stress can affect your sex appeal. Developmental Cell, 2022, 57, 291-292.	7.0	0