

Alexei A Aravin

List of Publications by Year in descending order

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46
papers

11,494
citations

126907

33
h-index

223800

46
g-index

53
all docs

53
docs citations

53
times ranked

7890
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete Small RNA-Generating Loci as Master Regulators of Transposon Activity in Drosophila. <i>Cell</i> , 2007, 128, 1089-1103.	28.9	2,215
2	A novel class of small RNAs bind to MILI protein in mouse testes. <i>Nature</i> , 2006, 442, 203-207.	27.8	1,303
3	A piRNA Pathway Primed by Individual Transposons Is Linked to De Novo DNA Methylation in Mice. <i>Molecular Cell</i> , 2008, 31, 785-799.	9.7	1,029
4	The Piwi-piRNA Pathway Provides an Adaptive Defense in the Transposon Arms Race. <i>Science</i> , 2007, 318, 761-764.	12.6	941
5	Developmentally Regulated piRNA Clusters Implicate MILI in Transposon Control. <i>Science</i> , 2007, 316, 744-747.	12.6	879
6	An Epigenetic Role for Maternally Inherited piRNAs in Transposon Silencing. <i>Science</i> , 2008, 322, 1387-1392.	12.6	686
7	Double-stranded RNA-mediated silencing of genomic tandem repeats and transposable elements in the <i>D. melanogaster</i> germline. <i>Current Biology</i> , 2001, 11, 1017-1027.	3.9	685
8	Piwi induces piRNA-guided transcriptional silencing and establishment of a repressive chromatin state. <i>Genes and Development</i> , 2013, 27, 390-399.	5.9	429
9	Cytoplasmic Compartmentalization of the Fetal piRNA Pathway in Mice. <i>PLoS Genetics</i> , 2009, 5, e1000764.	3.5	252
10	The histone chaperone CAF-1 safeguards somatic cell identity. <i>Nature</i> , 2015, 528, 218-224.	27.8	244
11	Identification and characterization of small RNAs involved in RNA silencing. <i>FEBS Letters</i> , 2005, 579, 5830-5840.	2.8	214
12	Transgenerationally inherited piRNAs trigger piRNA biogenesis by changing the chromatin of piRNA clusters and inducing precursor processing. <i>Genes and Development</i> , 2014, 28, 1667-1680.	5.9	204
13	Bacterial Argonaute Samples the Transcriptome to Identify Foreign DNA. <i>Molecular Cell</i> , 2013, 51, 594-605.	9.7	200
14	piRNA pathway targets active LINE1 elements to establish the repressive H3K9me3 mark in germ cells. <i>Genes and Development</i> , 2014, 28, 1410-1428.	5.9	184
15	Dissection of a Natural RNA Silencing Process in the <i>Drosophila melanogaster</i> Germ Line. <i>Molecular and Cellular Biology</i> , 2004, 24, 6742-6750.	2.3	166
16	Two waves of de novo methylation during mouse germ cell development. <i>Genes and Development</i> , 2014, 28, 1544-1549.	5.9	123
17	piRNA Biogenesis in <i>Drosophila melanogaster</i> . <i>Trends in Genetics</i> , 2017, 33, 882-894.	6.7	119
18	Cutoff Suppresses RNA Polymerase II Termination to Ensure Expression of piRNA Precursors. <i>Molecular Cell</i> , 2016, 63, 97-109.	9.7	116

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19	DNA targeting and interference by a bacterial Argonaute nuclease. <i>Nature</i> , 2020, 587, 632-637.	27.8	114
20	The Expanded Universe of Prokaryotic Argonaute Proteins. <i>MBio</i> , 2018, 9, .	4.1	101
21	DNA interference and beyond: structure and functions of prokaryotic Argonaute proteins. <i>Nature Communications</i> , 2018, 9, 5165.	12.8	99
22	Aub and Ago3 Are Recruited to Nuage through Two Mechanisms to Form a Ping-Pong Complex Assembled by Krimper. <i>Molecular Cell</i> , 2015, 59, 564-575.	9.7	98
23	MIWI2 and MILI Have Differential Effects on piRNA Biogenesis and DNA Methylation. <i>Cell Reports</i> , 2015, 12, 1234-1243.	6.4	98
24	Production of artificial piRNAs in flies and mice. <i>Rna</i> , 2012, 18, 42-52.	3.5	94
25	The control of gene expression and cell identity by H3K9 trimethylation. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	93
26	Programmable DNA cleavage by Ago nucleases from mesophilic bacteria <i>Clostridium butyricum</i> and <i>Limothrix rosea</i> . <i>Nucleic Acids Research</i> , 2019, 47, 5822-5836.	14.5	92
27	Stable Polycomb-dependent transgenerational inheritance of chromatin states in <i>Drosophila</i> . <i>Nature Genetics</i> , 2017, 49, 876-886.	21.4	81
28	Su(var)2-10 and the SUMO Pathway Link piRNA-Guided Target Recognition to Chromatin Silencing. <i>Molecular Cell</i> , 2020, 77, 556-570.e6.	9.7	74
29	Splicing-independent loading of TREX on nascent RNA is required for efficient expression of dual-strand piRNA clusters in <i>Drosophila</i> . <i>Genes and Development</i> , 2016, 30, 840-855.	5.9	71
30	A programmable pAgo nuclease with universal guide and target specificity from the mesophilic bacterium <i>Kurthia massiliensis</i> . <i>Nucleic Acids Research</i> , 2021, 49, 4054-4065.	14.5	53
31	A Transgenerational Process Defines piRNA Biogenesis in <i>Drosophila virilis</i> . <i>Cell Reports</i> , 2014, 8, 1617-1623.	6.4	49
32	Accommodation of Helical Imperfections in <i>Rhodobacter sphaeroides</i> Argonaute Ternary Complexes with Guide RNA and Target DNA. <i>Cell Reports</i> , 2018, 24, 453-462.	6.4	47
33	piRNA silencing contributes to interspecies hybrid sterility and reproductive isolation in <i>Drosophila melanogaster</i> . <i>Nucleic Acids Research</i> , 2019, 47, 4255-4271.	14.5	46
34	piRNA-mediated gene regulation and adaptation to sex-specific transposon expression in <i>D. melanogaster</i> male germline. <i>Genes and Development</i> , 2021, 35, 914-935.	5.9	46
35	Genome-wide DNA sampling by Ago nuclease from the cyanobacterium <i>Synechococcus elongatus</i> . <i>RNA Biology</i> , 2020, 17, 677-688.	3.1	41
36	The SUMO Ligase Su(var)2-10 Controls Hetero- and Euchromatic Gene Expression via Establishing H3K9 Trimethylation and Negative Feedback Regulation. <i>Molecular Cell</i> , 2020, 77, 571-585.e4.	9.7	36

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37	Non-coding RNAs in Transcriptional Regulation. <i>Current Molecular Biology Reports</i> , 2015, 1, 10-18.	1.6	33
38	Pitfalls of Mapping High-Throughput Sequencing Data to Repetitive Sequences: Piwi's Genomic Targets Still Not Identified. <i>Developmental Cell</i> , 2015, 32, 765-771.	7.0	26
39	Arginine methylation as a molecular signature of the Piwi small RNA pathway. <i>Cell Cycle</i> , 2009, 8, 4003-4004.	2.6	21
40	RDC complex executes a dynamic piRNA program during <i>Drosophila</i> spermatogenesis to safeguard male fertility. <i>PLoS Genetics</i> , 2021, 17, e1009591.	3.5	19
41	Stellate Genes and the piRNA Pathway in Speciation and Reproductive Isolation of <i>Drosophila melanogaster</i> . <i>Frontiers in Genetics</i> , 2020, 11, 610665.	2.3	14
42	Repression of interrupted and intact rDNA by the SUMO pathway in <i>Drosophila melanogaster</i> . <i>ELife</i> , 2020, 9, .	6.0	12
43	Binding of guide piRNA triggers methylation of the unstructured N-terminal region of Aub leading to assembly of the piRNA amplification complex. <i>Nature Communications</i> , 2021, 12, 4061.	12.8	11
44	Pachytene piRNAs as beneficial regulators or a defense system gone rogue. <i>Nature Genetics</i> , 2020, 52, 644-645.	21.4	9
45	Transposon-taming piRNAs in the germline: Where do they come from?. <i>Molecular Cell</i> , 2021, 81, 3884-3885.	9.7	6
46	Recognition of double-stranded DNA by the <i>Rhodobacter sphaeroides</i> Argonaute protein. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 1484-1489.	2.1	5