

DÃ³nal O'Carroll

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

17,790
citations

61945

43
h-index

138417

58
g-index

59
all docs

59
docs citations

59
times ranked

20004
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of chromatin structure by site-specific histone H3 methyltransferases. <i>Nature</i> , 2000, 406, 593-599.	13.7	2,497
2	Methylation of histone H3 lysine 9 creates a binding site for HP1 proteins. <i>Nature</i> , 2001, 410, 116-120.	13.7	2,481
3	Loss of the Suv39h Histone Methyltransferases Impairs Mammalian Heterochromatin and Genome Stability. <i>Cell</i> , 2001, 107, 323-337.	13.5	1,552
4	Blimp1 is a critical determinant of the germ cell lineage in mice. <i>Nature</i> , 2005, 436, 207-213.	13.7	915
5	Rb targets histone H3 methylation and HP1 to promoters. <i>Nature</i> , 2001, 412, 561-565.	13.7	840
6	PIWI-interacting RNAs: small RNAs with big functions. <i>Nature Reviews Genetics</i> , 2019, 20, 89-108.	7.7	779
7	Essential function of histone deacetylase 1 in proliferation control and CDK inhibitor repression. <i>EMBO Journal</i> , 2002, 21, 2672-2681.	3.5	678
8	Morphogenesis in skin is governed by discrete sets of differentially expressed microRNAs. <i>Nature Genetics</i> , 2006, 38, 356-362.	9.4	518
9	Maternal microRNAs are essential for mouse zygotic development. <i>Genes and Development</i> , 2007, 21, 644-648.	2.7	496
10	Cerebellar neurodegeneration in the absence of microRNAs. <i>Journal of Experimental Medicine</i> , 2007, 204, 1553-1558.	4.2	461
11	Histone H3 lysine 9 methylation is an epigenetic imprint of facultative heterochromatin. <i>Nature Genetics</i> , 2002, 30, 77-80.	9.4	448
12	MicroRNA Biogenesis Is Required for Mouse Primordial Germ Cell Development and Spermatogenesis. <i>PLoS ONE</i> , 2008, 3, e1738.	1.1	442
13	Blimp1 Defines a Progenitor Population that Governs Cellular Input to the Sebaceous Gland. <i>Cell</i> , 2006, 126, 597-609.	13.5	396
14	Conserved vertebrate <i>mir-451</i> provides a platform for Dicer-independent, Ago2-mediated microRNA biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15163-15168.	3.3	389
15	Dicer-dependent microRNA pathway safeguards regulatory T cell function. <i>Journal of Experimental Medicine</i> , 2008, 205, 1993-2004.	4.2	361
16	Targeting the RNA m6A Reader YTHDF2 Selectively Compromises Cancer Stem Cells in Acute Myeloid Leukemia. <i>Cell Stem Cell</i> , 2019, 25, 137-148.e6.	5.2	342
17	A Slicer-independent role for Argonaute 2 in hematopoiesis and the microRNA pathway. <i>Genes and Development</i> , 2007, 21, 1999-2004.	2.7	313
18	The RNA m 6 A Reader YTHDF2 Is Essential for the Post-transcriptional Regulation of the Maternal Transcriptome and Oocyte Competence. <i>Molecular Cell</i> , 2017, 67, 1059-1067.e4.	4.5	287

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19	The endonuclease activity of Mili fuels piRNA amplification that silences LINE1 elements. <i>Nature</i> , 2011, 480, 259-263.	13.7	285
20	The miR-144/451 locus is required for erythroid homeostasis. <i>Journal of Experimental Medicine</i> , 2010, 207, 1351-1358.	4.2	277
21	MicroRNA-128 Governs Neuronal Excitability and Motor Behavior in Mice. <i>Science</i> , 2013, 342, 1254-1258.	6.0	264
22	DGCR8-dependent microRNA biogenesis is essential for skin development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 498-502.	3.3	217
23	General Principals of miRNA Biogenesis and Regulation in the Brain. <i>Neuropsychopharmacology</i> , 2013, 38, 39-54.	2.8	173
24	Multiple Epigenetic Mechanisms and the piRNA Pathway Enforce LINE1 Silencing during Adult Spermatogenesis. <i>Molecular Cell</i> , 2013, 50, 601-608.	4.5	170
25	Quantitative functions of Argonaute proteins in mammalian development. <i>Genes and Development</i> , 2012, 26, 693-704.	2.7	153
26	MicroRNA degradation by a conserved target RNA regulates animal behavior. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 244-251.	3.6	149
27	mRNA 3' uridylation and poly(A) tail length sculpt the mammalian maternal transcriptome. <i>Nature</i> , 2017, 548, 347-351.	13.7	142
28	Argonaute2 Mediates Compensatory Expansion of the Pancreatic β Cell. <i>Cell Metabolism</i> , 2014, 19, 122-134.	7.2	139
29	Argonaute 2 in dopamine 2 receptor-expressing neurons regulates cocaine addiction. <i>Journal of Experimental Medicine</i> , 2010, 207, 1843-1851.	4.2	134
30	Oligoasthenoteratozoospermia and Infertility in Mice Deficient for miR-34b/c and miR-449 Loci. <i>PLoS Genetics</i> , 2014, 10, e1004597.	1.5	116
31	Erythropoietin guides multipotent hematopoietic progenitor cells toward an erythroid fate. <i>Journal of Experimental Medicine</i> , 2014, 211, 181-188.	4.2	111
32	220-plex microRNA expression profile of a single cell. <i>Nature Protocols</i> , 2006, 1, 1154-1159.	5.5	97
33	SPOCD1 is an essential executor of piRNA-directed de novo DNA methylation. <i>Nature</i> , 2020, 584, 635-639.	13.7	96
34	The mRNA m6A reader YTHDF2 suppresses proinflammatory pathways and sustains hematopoietic stem cell function. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	90
35	FOG-1 and GATA-1 act sequentially to specify definitive megakaryocytic and erythroid progenitors. <i>EMBO Journal</i> , 2012, 31, 351-365.	3.5	84
36	Terminal uridylyltransferases target RNA viruses as part of the innate immune system. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 778-786.	3.6	79

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37	Blimp1 and the Emergence of the Germ Line during Development in the Mouse. <i>Cell Cycle</i> , 2005, 4, 1736-1740.	1.3	78
38	Reversible Block of Mouse Neural Stem Cell Differentiation in the Absence of Dicer and MicroRNAs. <i>PLoS ONE</i> , 2010, 5, e13453.	1.1	65
39	Hif-1 α and Hif-2 α synergize to suppress AML development but are dispensable for disease maintenance. <i>Journal of Experimental Medicine</i> , 2015, 212, 2223-2234.	4.2	65
40	Deficiency in the nuclear long noncoding <i>Charme</i> causes myogenic defects and heart remodeling in mice. <i>EMBO Journal</i> , 2018, 37, .	3.5	65
41	Fumarate hydratase is a critical metabolic regulator of hematopoietic stem cell functions. <i>Journal of Experimental Medicine</i> , 2017, 214, 719-735.	4.2	62
42	G9a co-suppresses LINE1 elements in spermatogonia. <i>Epigenetics and Chromatin</i> , 2014, 7, 24.	1.8	56
43	A transit-amplifying population underpins the efficient regenerative capacity of the testis. <i>Journal of Experimental Medicine</i> , 2017, 214, 1631-1641.	4.2	50
44	A programmed wave of uridylation-primed mRNA degradation is essential for meiotic progression and mammalian spermatogenesis. <i>Cell Research</i> , 2019, 29, 221-232.	5.7	48
45	<i>CARMN</i> Loss Regulates Smooth Muscle Cells and Accelerates Atherosclerosis in Mice. <i>Circulation Research</i> , 2021, 128, 1258-1275.	2.0	47
46	TEX15 is an essential executor of MIWI2-directed transposon DNA methylation and silencing. <i>Nature Communications</i> , 2020, 11, 3739.	5.8	44
47	Genome-Wide Identification of Targets and Function of Individual MicroRNAs in Mouse Embryonic Stem Cells. <i>PLoS Genetics</i> , 2010, 6, e1001163.	1.5	39
48	Transposon-driven transcription is a conserved feature of vertebrate spermatogenesis and transcript evolution. <i>EMBO Reports</i> , 2017, 18, 1231-1247.	2.0	34
49	Endogenous Mouse Dicer Is an Exclusively Cytoplasmic Protein. <i>PLoS Genetics</i> , 2016, 12, e1006095.	1.5	27
50	Defective germline reprogramming rewires the spermatogonial transcriptome. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 394-404.	3.6	27
51	MicroRNAs are tightly associated with RNA-induced gene silencing complexes in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2008, 372, 24-29.	1.0	26
52	A MILI-independent piRNA biogenesis pathway empowers partial germline reprogramming. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 604-606.	3.6	18
53	The murine polycomb-group genes <i>Ezh1</i> and <i>Ezh2</i> map close to <i>Hox</i> gene clusters on mouse Chromosomes 11 and 6. Accession numbers. The genomic <i>Ezh1</i> (accession number AF104360) and genomic <i>Ezh2</i> (accession number AF104359) sequences have been deposited in GenBank. The fine mapping data of the murine <i>Ezh1</i> and <i>Ezh2</i> loci presented in this study have been submitted to MGD and can be accessed under accession number J50304. <i>Mammalian Genome</i> , 1999, 10, 311-314.	1.0	16
54	Expression of Piwi protein MIWI2 defines a distinct population of multiciliated cells. <i>Journal of Clinical Investigation</i> , 2017, 127, 3866-3876.	3.9	14

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55	The RNA uridylyltransferase Zcchc6 is expressed in macrophages and impacts innate immune responses. PLoS ONE, 2017, 12, e0179797.	1.1	12
56	NANOS2 is a sequence-specific mRNA-binding protein that promotes transcript degradation in spermatogonial stem cells. IScience, 2021, 24, 102762.	1.9	11
57	JMJD6 promotes self-renewal and regenerative capacity of hematopoietic stem cells. Blood Advances, 2021, 5, 889-899.	2.5	9
58	CITED2 coordinates key hematopoietic regulatory pathways to maintain the HSC pool in both steady-state hematopoiesis and transplantation. Stem Cell Reports, 2021, 16, 2784-2797.	2.3	6
59	mRNA 3' Uridylation and Poly(A) Tail Length Sculpt the Mammalian Maternal Transcriptome. Obstetrical and Gynecological Survey, 2017, 72, 656-656.	0.2	0