

Haifan Lin

List of Publications by Year in descending order

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93
papers

11,632
citations

44069

48
h-index

51608

86
g-index

104
all docs

104
docs citations

104
times ranked

9172
citing authors

#	ARTICLE	IF	CITATIONS
1	miwi, a Murine Homolog of piwi, Encodes a Cytoplasmic Protein Essential for Spermatogenesis. <i>Developmental Cell</i> , 2002, 2, 819-830.	7.0	788
2	A novel class of small RNAs in mouse spermatogenic cells. <i>Genes and Development</i> , 2006, 20, 1709-1714.	5.9	761
3	<i>Mili</i> , a mammalian member of <i>piwi</i> family gene, is essential for spermatogenesis. <i>Development (Cambridge)</i> , 2004, 131, 839-849.	2.5	666
4	MicroRNAs: key regulators of stem cells. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 116-125.	37.0	666
5	The Biogenesis and Function of PIWI Proteins and piRNAs: Progress and Prospect. <i>Annual Review of Cell and Developmental Biology</i> , 2009, 25, 355-376.	9.4	491
6	An epigenetic activation role of Piwi and a Piwi-associated piRNA in <i>Drosophila melanogaster</i> . <i>Nature</i> , 2007, 450, 304-308.	27.8	392
7	PIWI proteins and PIWI-interacting RNAs in the soma. <i>Nature</i> , 2014, 505, 353-359.	27.8	356
8	MIWI associates with translational machinery and PIWI-interacting RNAs (piRNAs) in regulating spermatogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13415-13420.	7.1	342
9	Role for piRNAs and Noncoding RNA in de Novo DNA Methylation of the Imprinted Mouse <i>Rasgrf1</i> Locus. <i>Science</i> , 2011, 332, 848-852.	12.6	341
10	The stem-cell niche theory: lessons from flies. <i>Nature Reviews Genetics</i> , 2002, 3, 931-940.	16.3	334
11	Uniting Germline and Stem Cells: The Function of Piwi Proteins and the piRNA Pathway in Diverse Organisms. <i>Annual Review of Genetics</i> , 2011, 45, 447-469.	7.6	334
12	<i>Drosophila</i> PIWI associates with chromatin and interacts directly with HP1a. <i>Genes and Development</i> , 2007, 21, 2300-2311.	5.9	305
13	Molecular characterization of hiwi, a human member of the piwi gene family whose overexpression is correlated to seminomas. <i>Oncogene</i> , 2002, 21, 3988-3999.	5.9	286
14	Spectrosomes and Fusomes Anchor Mitotic Spindles during Asymmetric Germ Cell Divisions and Facilitate the Formation of a Polarized Microtubule Array for Oocyte Specification in <i>Drosophila</i> . <i>Developmental Biology</i> , 1997, 189, 79-94.	2.0	250
15	MITOPLD Is a Mitochondrial Protein Essential for Nuage Formation and piRNA Biogenesis in the Mouse Germline. <i>Developmental Cell</i> , 2011, 20, 364-375.	7.0	250
16	The Role of PIWI and the miRNA Machinery in <i>Drosophila</i> Germline Determination. <i>Current Biology</i> , 2006, 16, 1884-1894.	3.9	237
17	A Major Epigenetic Programming Mechanism Guided by piRNAs. <i>Developmental Cell</i> , 2013, 24, 502-516.	7.0	215
18	Retrotransposons and pseudogenes regulate mRNAs and lncRNAs via the piRNA pathway in the germline. <i>Genome Research</i> , 2015, 25, 368-380.	5.5	208

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19	Fusome asymmetry and oocyte determination in <i>Drosophila</i> . <i>Genesis</i> , 1995, 16, 6-12.	2.1	203
20	MILI, a PIWI-interacting RNA-binding Protein, Is Required for Germ Line Stem Cell Self-renewal and Appears to Positively Regulate Translation. <i>Journal of Biological Chemistry</i> , 2009, 284, 6507-6519.	3.4	192
21	Mili Interacts with Tudor Domain-Containing Protein 1 in Regulating Spermatogenesis. <i>Current Biology</i> , 2009, 19, 640-644.	3.9	169
22	Tdrkh is essential for spermatogenesis and participates in primary piRNA biogenesis in the germline. <i>EMBO Journal</i> , 2013, 32, 1869-1885.	7.8	164
23	PIWI proteins and their interactors in piRNA biogenesis, germline development and gene expression. <i>National Science Review</i> , 2014, 1, 205-218.	9.5	158
24	<i>Drosophila</i> Piwi functions in Hsp90-mediated suppression of phenotypic variation. <i>Nature Genetics</i> , 2011, 43, 153-158.	21.4	155
25	Yb Modulates the Divisions of Both Germline and Somatic Stem Cells through piwi- and hh-Mediated Mechanisms in the <i>Drosophila</i> Ovary. <i>Molecular Cell</i> , 2001, 7, 497-508.	9.7	145
26	Posttranscriptional Regulation of Gene Expression by Piwi Proteins and piRNAs. <i>Molecular Cell</i> , 2014, 56, 18-27.	9.7	143
27	piRNAs in the Germ Line. <i>Science</i> , 2007, 316, 397-397.	12.6	142
28	PIWI proteins and PIWI-interacting RNAs function in <i>Hydra</i> somatic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 337-342.	7.1	140
29	Regulatory Relationship among piwi, pumilio, and bag-of-marbles in <i>Drosophila</i> Germline Stem Cell Self-Renewal and Differentiation. <i>Current Biology</i> , 2005, 15, 171-178.	3.9	139
30	Novel evidence for a PIWI-interacting RNA (piRNA) as an oncogenic mediator of disease progression, and a potential prognostic biomarker in colorectal cancer. <i>Molecular Cancer</i> , 2018, 17, 16.	19.2	130
31	Pumilio 1 Suppresses Multiple Activators of p53 to Safeguard Spermatogenesis. <i>Current Biology</i> , 2012, 22, 420-425.	3.9	123
32	Beyond transposons: the epigenetic and somatic functions of the Piwi-piRNA mechanism. <i>Current Opinion in Cell Biology</i> , 2013, 25, 190-194.	5.4	122
33	The Yb Body, a Major Site for Piwi-associated RNA Biogenesis and a Gateway for Piwi Expression and Transport to the Nucleus in Somatic Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 3789-3797.	3.4	113
34	The <i>Drosophila</i> pumilio Gene Encodes Two Functional Protein Isoforms That Play Multiple Roles in Germline Development, Gonadogenesis, Oogenesis and Embryogenesis. <i>Genetics</i> , 1999, 153, 235-250.	2.9	99
35	Precancerous Stem Cells Have the Potential for both Benign and Malignant Differentiation. <i>PLoS ONE</i> , 2007, 2, e293.	2.5	98
36	piRNA biogenesis during adult spermatogenesis in mice is independent of the ping-pong mechanism. <i>Cell Research</i> , 2012, 22, 1429-1439.	12.0	97

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37	THE TAO OF STEM CELLS IN THE GERMLINE. <i>Annual Review of Genetics</i> , 1997, 31, 455-491.	7.6	94
38	PAPI, a novel TUDOR-domain protein, complexes with AGO3, ME31B and TRAL in the nuage to silence transposition. <i>Development (Cambridge)</i> , 2011, 138, 1863-1873.	2.5	93
39	Post-transcriptional regulation of mouse neurogenesis by Pumilio proteins. <i>Genes and Development</i> , 2017, 31, 1354-1369.	5.9	93
40	Translational repression: A duet of Nanos and Pumilio. <i>Current Biology</i> , 2000, 10, R81-R83.	3.9	85
41	Piwi Is Required in Multiple Cell Types to Control Germline Stem Cell Lineage Development in the <i>Drosophila</i> Ovary. <i>PLoS ONE</i> , 2014, 9, e90267.	2.5	76
42	Identification of Piwil2-Like (PL2L) Proteins that Promote Tumorigenesis. <i>PLoS ONE</i> , 2010, 5, e13406.	2.5	73
43	Piwi Is a Key Regulator of Both Somatic and Germline Stem Cells in the <i>Drosophila</i> Testis. <i>Cell Reports</i> , 2015, 12, 150-161.	6.4	66
44	Function of Piwi, a nuclear Piwi/Argonaute protein, is independent of its slicer activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1297-1302.	7.1	64
45	An Important Role of Pumilio 1 in Regulating the Development of the Mammalian Female Germline1. <i>Biology of Reproduction</i> , 2016, 94, 134.	2.7	63
46	Roles of piRNAs in transposon and pseudogene regulation of germline mRNAs and lncRNAs. <i>Genome Biology</i> , 2021, 22, 27.	8.8	61
47	Cell biology of stem cells: an enigma of asymmetry and self-renewal. <i>Journal of Cell Biology</i> , 2008, 180, 257-260.	5.2	59
48	miR-221/222 activate the Wnt/ β -catenin signaling to promote triple-negative breast cancer. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 302-315.	3.3	57
49	The Role of PIWIL4, an Argonaute Family Protein, in Breast Cancer. <i>Journal of Biological Chemistry</i> , 2016, 291, 10646-10658.	3.4	56
50	Pinpointing the expression of piRNAs and function of the PIWI protein subfamily during spermatogenesis in the mouse. <i>Developmental Biology</i> , 2011, 355, 215-226.	2.0	52
51	A High-Resolution Whole-Genome Map of Key Chromatin Modifications in the Adult <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2011, 7, e1002380.	3.5	51
52	Small Noncoding RNAs in the Germline. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a002717-a002717.	5.5	49
53	PIWIL1 promotes gastric cancer via a piRNA-independent mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22390-22401.	7.1	48
54	PIWI proteins are essential for early <i>Drosophila</i> embryogenesis. <i>Developmental Biology</i> , 2014, 385, 340-349.	2.0	47

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55	Piwi maintains germline stem cells and oogenesis in <i>Drosophila</i> through negative regulation of Polycomb group proteins. <i>Nature Genetics</i> , 2016, 48, 283-291.	21.4	46
56	Impaired neurogenesis alters brain biomechanics in a neuroprogenitor-based genetic subtype of congenital hydrocephalus. <i>Nature Neuroscience</i> , 2022, 25, 458-473.	14.8	46
57	Embryonic Stem Cells License a High Level of Dormant Origins to Protect the Genome against Replication Stress. <i>Stem Cell Reports</i> , 2015, 5, 185-194.	4.8	41
58	MIWI 2 targets RNAs transcribed from piRNA-dependent regions to drive DNA methylation in mouse prospermatogonia. <i>EMBO Journal</i> , 2018, 37, .	7.8	37
59	PIWI-Interacting RNAs in Gliomagenesis: Evidence from Post-GWAS and Functional Analyses. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2016, 25, 1073-1080.	2.5	32
60	The arrest gene is required for germline cyst formation during <i>Drosophila</i> oogenesis. <i>Genesis</i> , 2001, 29, 196-209.	1.6	31
61	CPA-seq reveals small ncRNAs with methylated nucleosides and diverse termini. <i>Cell Discovery</i> , 2021, 7, 25.	6.7	31
62	Ultradeep sequencing differentiates patterns of skin clonal mutations associated with sun-exposure status and skin cancer burden. <i>Science Advances</i> , 2021, 7, .	10.3	29
63	Piwi Genes Are Dispensable for Normal Hematopoiesis in Mice. <i>PLoS ONE</i> , 2013, 8, e71950.	2.5	27
64	Pumilio proteins utilize distinct regulatory mechanisms to achieve complementary functions required for pluripotency and embryogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7851-7862.	7.1	26
65	To be and not to be. <i>Nature</i> , 2003, 425, 353-355.	27.8	24
66	Generation of Transgenic Hydra by Embryo Microinjection. <i>Journal of Visualized Experiments</i> , 2014, , 51888.	0.3	24
67	Sex-lethal is a target of Bruno-mediated translational repression in promoting the differentiation of stem cell progeny during <i>Drosophila</i> oogenesis. <i>Developmental Biology</i> , 2007, 302, 160-168.	2.0	23
68	PIWI Proteins Are Dispensable for Mouse Somatic Development and Reprogramming of Fibroblasts into Pluripotent Stem Cells. <i>PLoS ONE</i> , 2014, 9, e97821.	2.5	23
69	Precision analysis of mutant U2AF1 activity reveals deployment of stress granules in myeloid malignancies. <i>Molecular Cell</i> , 2022, 82, 1107-1122.e7.	9.7	23
70	PIWI piRNA pathway-mediated transposable element repression in Hydra somatic stem cells. <i>Rna</i> , 2020, 26, 550-563.	3.5	21
71	Tudor-SN Interacts with Piwi Antagonistically in Regulating Spermatogenesis but Synergistically in Silencing Transposons in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2016, 12, e1005813.	3.5	21
72	The microRNA regulation of stem cells. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2012, 1, 83-95.	5.9	18

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73	A Drosophila Chromatin Factor Interacts With the Piwi-Interacting RNA Mechanism in Niche Cells to Regulate Germline Stem Cell Self-Renewal. <i>Genetics</i> , 2010, 186, 573-583.	2.9	17
74	A role of Pumilio 1 in mammalian oocyte maturation and maternal phase of embryogenesis. <i>Cell and Bioscience</i> , 2018, 8, 54.	4.8	17
75	Heat shock protein DNAJA1 stabilizes PIWI proteins to support regeneration and homeostasis of planarian <i>Schmidtea mediterranea</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 9873-9887.	3.4	16
76	The Essential Function of SETDB1 in Homologous Chromosome Pairing and Synapsis during Meiosis. <i>Cell Reports</i> , 2021, 34, 108575.	6.4	16
77	Mentorship in Science: Response to AlShebli etÂal., <i>Nature Communications</i> 2020. <i>Stem Cell Reports</i> , 2021, 16, 1-2.	4.8	15
78	MIWI prevents aneuploidy during meiosis by cleaving excess satellite RNA. <i>EMBO Journal</i> , 2020, 39, e103614.	7.8	14
79	PUMILIO proteins promote colorectal cancer growth via suppressing p21. <i>Nature Communications</i> , 2022, 13, 1627.	12.8	14
80	Noncoding RNAs in the regulation of DNA replication. <i>Trends in Biochemical Sciences</i> , 2014, 39, 341-343.	7.5	11
81	A critical role for nucleoporin 358 (Nup358) in transposon silencing and piRNA biogenesis in <i>Drosophila</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 9140-9147.	3.4	11
82	Maternal Piwi regulates primordial germ cell development to ensure the fertility of female progeny in <i>Drosophila</i> . <i>Genetics</i> , 2021, 219, .	2.9	11
83	Reassessment of Piwi Binding to the Genome and Piwi Impact on RNA Polymerase II Distribution. <i>Developmental Cell</i> , 2015, 32, 772-774.	7.0	9
84	The Role of Maternal HP1a in Early <i>Drosophila</i> Embryogenesis via Regulation of Maternal Transcript Production. <i>Genetics</i> , 2019, 211, 201-217.	2.9	8
85	Change point analysis of histone modifications reveals epigenetic blocks linking to physical domains. <i>Annals of Applied Statistics</i> , 2016, 10, 506-526.	1.1	4
86	Capturing the Cloud: UAP56 in Nuage Assembly and Function. <i>Cell</i> , 2012, 151, 699-701.	28.9	2
87	Genome-wide mapping of Piwi association with specific loci in <i>Drosophila</i> ovaries. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	0
88	The Role of piRNAs in Germline Stem Cell Division and Spermatogenesis.. <i>Biology of Reproduction</i> , 2008, 78, 281-281.	2.7	0
89	U2AF1 Driver Mutations in Hematopoietic Disorders Alter but Do Not Abrogate RNA Binding and Enlighten Structural Dependencies of the U2AF-RNA Complex. <i>Blood</i> , 2019, 134, 1230-1230.	1.4	0
90	Piwi in the stem cell niche regulates nurse cell number and oocyte specification. <i>MicroPublication Biology</i> , 2020, 2020, .	0.1	0

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91	Ovarian somatic Piwi regulates nurse cell proliferation and oocyte specification in. MicroPublication Biology, 2020, 2020, .	0.1	0
92	U2AF1 Mutations Enhance Stress Granule Response in Myeloid Malignancies. Blood, 2021, 138, 321-321.	1.4	0
93	High-Resolution Binding Atlas of U2AF1 Mutants Uncovers New Complexity in Splicing Alterations and Kinetics in Myeloid Malignancies. Blood, 2020, 136, 3-4.	1.4	0