Haifan Lin

List of Publications by Year
in descending order

93 papers	11,632 citations	43973 48 h-index	51492 86 g-index
104 all docs	104 docs citations	104 times ranked	9172 citing authors

#	Article	IF	Citations
1	Precision analysis of mutant U2AF1 activity reveals deployment of stress granules in myeloid malignancies. Molecular Cell, 2022, 82, 1107-1122.e7.	4.5	23
2	PUMILIO proteins promote colorectal cancer growth via suppressing p21. Nature Communications, 2022, 13, 1627.	5.8	14
3	Impaired neurogenesis alters brain biomechanics in a neuroprogenitor-based genetic subtype of congenital hydrocephalus. Nature Neuroscience, 2022, 25, 458-473.	7.1	46
4	Mentorship in Science: Response to AlShebli etÂal., Nature Communications 2020. Stem Cell Reports, 2021, 16, 1-2.	2.3	15
5	Genome-wide mapping of Piwi association with specific loci in Drosophila ovaries. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	0
6	Ultradeep sequencing differentiates patterns of skin clonal mutations associated with sun-exposure status and skin cancer burden. Science Advances, 2021, 7, .	4.7	29
7	CPA-seq reveals small ncRNAs with methylated nucleosides and diverse termini. Cell Discovery, 2021, 7, 25.	3.1	31
8	Maternal Piwi regulates primordial germ cell development to ensure the fertility of female progeny in <i>Drosophila</i>. Genetics, 2021, 219, .	1.2	11
9	Roles of piRNAs in transposon and pseudogene regulation of germline mRNAs and lncRNAs. Genome Biology, 2021, 22, 27.	3.8	61
10	The Essential Function of SETDB1 in Homologous Chromosome Pairing and Synapsis during Meiosis. Cell Reports, 2021, 34, 108575.	2.9	16
11	U2AF1 Mutations Enhance Stress Granule Response in Myeloid Malignancies. Blood, 2021, 138, 321-321.	0.6	0
12	PIWIL1 promotes gastric cancer via a piRNA-independent mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22390-22401.	3.3	48
13	MIWI prevents aneuploidy during meiosis by cleaving excess satellite RNA. EMBO Journal, 2020, 39, e103614.	3.5	14
14	Pumilio proteins utilize distinct regulatory mechanisms to achieve complementary functions required for pluripotency and embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7851-7862.	3.3	26
15	PIWIâ€“piRNA pathway-mediated transposable element repression in <i>Hydra</i> somatic stem cells. Rna, 2020, 26, 550-563.	1.6	21
16	Piwi in the stem cell niche regulates nurse cell number and oocyte specification. MicroPublication Biology, 2020, 2020, .	0.1	0
17	Ovarian somatic Piwi regulates nurse cell proliferation and oocyte specification in. MicroPublication Biology, 2020, 2020, .	0.1	0
18	High-Resolution Binding Atlas of U2AF1 Mutants Uncovers New Complexity in Splicing Alterations and Kinetics in Myeloid Malignancies. Blood, 2020, 136, 3-4.	0.6	0

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19	Heat shock protein DNAJA1 stabilizes PIWI proteins to support regeneration and homeostasis of planarian Schmidtea mediterranea. Journal of Biological Chemistry, 2019, 294, 9873-9887.	1.6	16
20	The Role of Maternal HP1a in Early Drosophila Embryogenesis via Regulation of Maternal Transcript Production. Genetics, 2019, 211, 201-217.	1.2	8
21	U2AF1 Driver Mutations in Hematopoietic Disorders Alter but Do Not Abrogate RNA Binding and Enlighten Structural Dependencies of the U2AF-RNA Complex. Blood, 2019, 134, 1230-1230.	0.6	0
22	A role of Pumilio 1 in mammalian oocyte maturation and maternal phase of embryogenesis. Cell and Bioscience, 2018, 8, 54.	2.1	17
23	miR-221/222 activate the Wnt/Î²-catenin signaling to promote triple-negative breast cancer. Journal of Molecular Cell Biology, 2018, 10, 302-315.	1.5	57
24	Novel evidence for a PIWI-interacting RNA (piRNA) as an oncogenic mediator of disease progression, and a potential prognostic biomarker in colorectal cancer. Molecular Cancer, 2018, 17, 16.	7.9	130
25	A critical role for nucleoporin 358 (Nup358) in transposon silencing and piRNA biogenesis in Drosophila. Journal of Biological Chemistry, 2018, 293, 9140-9147.	1.6	11
26	<scp>MIWI</scp> 2 targets RNAs transcribed from pi <scp>RNA</scp> â€dependent regions to drive <scp>DNA</scp> methylation in mouse prospermatogonia. EMBO Journal, 2018, 37, .	3.5	37
27	Post-transcriptional regulation of mouse neurogenesis by Pumilio proteins. Genes and Development, 2017, 31, 1354-1369.	2.7	93
28	An Important Role of Pumilio 1 in Regulating the Development of the Mammalian Female Germline1. Biology of Reproduction, 2016, 94, 134.	1.2	63
29	Change point analysis of histone modifications reveals epigenetic blocks linking to physical domains. Annals of Applied Statistics, 2016, 10, 506-526.	0.5	4
30	PIWI-Interacting RNAs in Gliomagenesis: Evidence from Post-GWAS and Functional Analyses. Cancer Epidemiology Biomarkers and Prevention, 2016, 25, 1073-1080.	1.1	32
31	Piwi maintains germline stem cells and oogenesis in Drosophila through negative regulation of Polycomb group proteins. Nature Genetics, 2016, 48, 283-291.	9.4	46
32	The Role of PIWIL4, an Argonaute Family Protein, in Breast Cancer. Journal of Biological Chemistry, 2016, 291, 10646-10658.	1.6	56
33	Tudor-SN Interacts with Piwi Antagonistically in Regulating Spermatogenesis but Synergistically in Silencing Transposons in Drosophila. PLoS Genetics, 2016, 12, e1005813.	1.5	21
34	Embryonic Stem Cells License a High Level of Dormant Origins to Protect the Genome against Replication Stress. Stem Cell Reports, 2015, 5, 185-194.	2.3	41
35	Piwi Is a Key Regulator of Both Somatic and Germline Stem Cells in the Drosophila Testis. Cell Reports, 2015, 12, 150-161.	2.9	66
36	Reassessment of Piwi Binding to the Genome and Piwi Impact on RNA Polymerase II Distribution. Developmental Cell, 2015, 32, 772-774.	3.1	9

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37	Retrotransposons and pseudogenes regulate mRNAs and lncRNAs via the piRNA pathway in the germline. Genome Research, 2015, 25, 368-380.	2.4	208
38	Piwi Is Required in Multiple Cell Types to Control Germline Stem Cell Lineage Development in the Drosophila Ovary. PLoS ONE, 2014, 9, e90267.	1.1	76
39	PIWI Proteins Are Dispensable for Mouse Somatic Development and Reprogramming of Fibroblasts into Pluripotent Stem Cells. PLoS ONE, 2014, 9, e97821.	1.1	23
40	PIWI proteins are essential for early Drosophila embryogenesis. Developmental Biology, 2014, 385, 340-349.	0.9	47
41	PIWI proteins and PIWI-interacting RNAs function in <i>Hydra</i> somatic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 337-342.	3.3	140
42	PIWI proteins and PIWI-interacting RNAs in the soma. Nature, 2014, 505, 353-359.	13.7	356
43	Noncoding RNAs in the regulation of DNA replication. Trends in Biochemical Sciences, 2014, 39, 341-343.	3.7	11
44	PIWI proteins and their interactors in piRNA biogenesis, germline development and gene expression. National Science Review, 2014, 1, 205-218.	4.6	158
45	Posttranscriptional Regulation of Gene Expression by Piwi Proteins and piRNAs. Molecular Cell, 2014, 56, 18-27.	4.5	143
46	Generation of Transgenic Hydra by Embryo Microinjection. Journal of Visualized Experiments, 2014, , 51888.	0.2	24
47	Function of Piwi, a nuclear Piwi/Argonaute protein, is independent of its slicer activity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1297-1302.	3.3	64
48	Beyond transposons: the epigenetic and somatic functions of the Piwi-piRNA mechanism. Current Opinion in Cell Biology, 2013, 25, 190-194.	2.6	122
49	A Major Epigenetic Programming Mechanism Guided by piRNAs. Developmental Cell, 2013, 24, 502-516.	3.1	215
50	Tdrkh is essential for spermatogenesis and participates in primary piRNA biogenesis in the germline. EMBO Journal, 2013, 32, 1869-1885.	3.5	164
51	Piwi Genes Are Dispensable for Normal Hematopoiesis in Mice. PLoS ONE, 2013, 8, e71950.	1.1	27
52	piRNA biogenesis during adult spermatogenesis in mice is independent of the ping-pong mechanism. Cell Research, 2012, 22, 1429-1439.	5.7	97
53	Capturing the Cloud: UAP56 in Nuage Assembly and Function. Cell, 2012, 151, 699-701.	13.5	2
54	The microRNA regulation of stem cells. Wiley Interdisciplinary Reviews: Developmental Biology, 2012, 1, 83-95.	5.9	18

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55	Pumilio 1 Suppresses Multiple Activators of p53 to Safeguard Spermatogenesis. Current Biology, 2012, 22, 420-425.	1.8	123
56	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. Journal of Biological Chemistry, 2011, 286, 3789-3797.	1.6	113
57	Role for piRNAs and Noncoding RNA in de Novo DNA Methylation of the Imprinted Mouse <i>Rasgrf1</i> Locus. Science, 2011, 332, 848-852.	6.0	341
58	MITOPLD Is a Mitochondrial Protein Essential for Nuage Formation and piRNA Biogenesis in the Mouse Germline. Developmental Cell, 2011, 20, 364-375.	3.1	250
59	Small Noncoding RNAs in the Germline. Cold Spring Harbor Perspectives in Biology, 2011, 3, a002717-a002717.	2.3	49
60	Pinpointing the expression of piRNAs and function of the PIWI protein subfamily during spermatogenesis in the mouse. Developmental Biology, 2011, 355, 215-226.	0.9	52
61	Drosophila Piwi functions in Hsp90-mediated suppression of phenotypic variation. Nature Genetics, 2011, 43, 153-158.	9.4	155
62	Uniting Germline and Stem Cells: The Function of Piwi Proteins and the piRNA Pathway in Diverse Organisms. Annual Review of Genetics, 2011, 45, 447-469.	3.2	334
63	PAPI, a novel TUDOR-domain protein, complexes with AGO3, ME31B and TRAL in the nuage to silence transposition. Development (Cambridge), 2011, 138, 1863-1873.	1.2	93
64	A High-Resolution Whole-Genome Map of Key Chromatin Modifications in the Adult Drosophila melanogaster. PLoS Genetics, 2011, 7, e1002380.	1.5	51
65	Identification of Piwil2-Like (PL2L) Proteins that Promote Tumorigenesis. PLoS ONE, 2010, 5, e13406.	1.1	73
66	A Drosophila Chromatin Factor Interacts With the Piwi-Interacting RNA Mechanism in Niche Cells to Regulate Germline Stem Cell Self-Renewal. Genetics, 2010, 186, 573-583.	1.2	17
67	MILI, a PIWI-interacting RNA-binding Protein, Is Required for Germ Line Stem Cell Self-renewal and Appears to Positively Regulate Translation. Journal of Biological Chemistry, 2009, 284, 6507-6519.	1.6	192
68	Mili Interacts with Tudor Domain-Containing Protein 1 in Regulating Spermatogenesis. Current Biology, 2009, 19, 640-644.	1.8	169
69	MicroRNAs: key regulators of stem cells. Nature Reviews Molecular Cell Biology, 2009, 10, 116-125.	16.1	666
70	The Biogenesis and Function of PIWI Proteins and piRNAs: Progress and Prospect. Annual Review of Cell and Developmental Biology, 2009, 25, 355-376.	4.0	491
71	Cell biology of stem cells: an enigma of asymmetry and self-renewal. Journal of Cell Biology, 2008, 180, 257-260.	2.3	59
72	The Role of piRNAs in Germline Stem Cell Division and Spermatogenesis.. Biology of Reproduction, 2008, 78, 281-281.	1.2	0

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73	Sex-lethal is a target of Bruno-mediated translational repression in promoting the differentiation of stem cell progeny during Drosophila oogenesis. Developmental Biology, 2007, 302, 160-168.	0.9	23
74	piRNAs in the Germ Line. Science, 2007, 316, 397-397.	6.0	142
75	<i>Drosophila</i> PIWI associates with chromatin and interacts directly with HP1a. Genes and Development, 2007, 21, 2300-2311.	2.7	305
76	An epigenetic activation role of Piwi and a Piwi-associated piRNA in Drosophila melanogaster. Nature, 2007, 450, 304-308.	13.7	392
77	Precancerous Stem Cells Have the Potential for both Benign and Malignant Differentiation. PLoS ONE, 2007, 2, e293.	1.1	98
78	A novel class of small RNAs in mouse spermatogenic cells. Genes and Development, 2006, 20, 1709-1714.	2.7	761
79	MIWI associates with translational machinery and PIWI-interacting RNAs (piRNAs) in regulating spermatogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13415-13420.	3.3	342
80	The Role of PIWI and the miRNA Machinery in Drosophila Germline Determination. Current Biology, 2006, 16, 1884-1894.	1.8	237
81	Regulatory Relationship among piwi, pumilio, and bag-of-marbles in Drosophila Germline Stem Cell Self-Renewal and Differentiation. Current Biology, 2005, 15, 171-178.	1.8	139
82	Mili, a mammalian member of piwi family gene, is essential for spermatogenesis. Development (Cambridge), 2004, 131, 839-849.	1.2	666
83	To be and not to be. Nature, 2003, 425, 353-355.	13.7	24
84	miwi, a Murine Homolog of piwi, Encodes a Cytoplasmic Protein Essential for Spermatogenesis. Developmental Cell, 2002, 2, 819-830.	3.1	788
85	Molecular characterization of hiwi, a human member of the piwi gene family whose overexpression is correlated to seminomas. Oncogene, 2002, 21, 3988-3999.	2.6	286
86	The stem-cell niche theory: lessons from flies. Nature Reviews Genetics, 2002, 3, 931-940.	7.7	334
87	Yb Modulates the Divisions of Both Germline and Somatic Stem Cells through piwi- and hh-Mediated Mechanisms in the Drosophila Ovary. Molecular Cell, 2001, 7, 497-508.	4.5	145
88	Thearrest gene is required for germline cyst formation duringDrosophila oogenesis. Genesis, 2001, 29, 196-209.	0.8	31
89	Translational repression: A duet of Nanos and Pumilio. Current Biology, 2000, 10, R81-R83.	1.8	85
90	The Drosophila pumilio Gene Encodes Two Functional Protein Isoforms That Play Multiple Roles in Germline Development, Gonadogenesis,Oogenesis and Embryogenesis. Genetics, 1999, 153, 235-250.	1.2	99

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91	THE TAO OF STEM CELLS IN THE GERMLINE. Annual Review of Genetics, 1997, 31, 455-491.	3.2	94
92	Spectrosomes and Fusomes Anchor Mitotic Spindles during Asymmetric Germ Cell Divisions and Facilitate the Formation of a Polarized Microtubule Array for Oocyte Specification inDrosophila. Developmental Biology, 1997, 189, 79-94.	0.9	250
93	Fusome asymmetry and oocyte determination inDrosophila. Genesis, 1995, 16, 6-12.	3.1	203