

Gregory James Hannon

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77
papers

24,913
citations

49
h-index

93
g-index

93
ext. papers

27,637
ext. citations

21.6
avg, IF

6.77
L-index

#	Paper	IF	Citations
77	A new regulatory motif in cell-cycle control causing specific inhibition of cyclin D/CDK4. <i>Nature</i> , 1993 , 366, 704-7	50.4	3077
76	p21 is a universal inhibitor of cyclin kinases. <i>Nature</i> , 1993 , 366, 701-4	50.4	3024
75	Discrete small RNA-generating loci as master regulators of transposon activity in <i>Drosophila</i> . <i>Cell</i> , 2007 , 128, 1089-103	56.2	1802
74	p15INK4B is a potential effector of TGF-beta-induced cell cycle arrest. <i>Nature</i> , 1994 , 371, 257-61	50.4	1796
73	The p21 inhibitor of cyclin-dependent kinases controls DNA replication by interaction with PCNA. <i>Nature</i> , 1994 , 369, 574-8	50.4	1499
72	A germline-specific class of small RNAs binds mammalian Piwi proteins. <i>Nature</i> , 2006 , 442, 199-202	50.4	1233
71	Radiation-induced cell cycle arrest compromised by p21 deficiency. <i>Nature</i> , 1995 , 377, 552-7	50.4	1119
70	MIWI2 is essential for spermatogenesis and repression of transposons in the mouse male germline. <i>Developmental Cell</i> , 2007 , 12, 503-14	10.2	868
69	A piRNA pathway primed by individual transposons is linked to de novo DNA methylation in mice. <i>Molecular Cell</i> , 2008 , 31, 785-99	17.6	860
68	A role for Piwi and piRNAs in germ cell maintenance and transposon silencing in Zebrafish. <i>Cell</i> , 2007 , 129, 69-82	56.2	815
67	The Piwi-piRNA pathway provides an adaptive defense in the transposon arms race. <i>Science</i> , 2007 , 318, 761-4	33.3	806
66	Developmentally regulated piRNA clusters implicate MILI in transposon control. <i>Science</i> , 2007 , 316, 744-7	33.3	756
65	Specialized piRNA pathways act in germline and somatic tissues of the <i>Drosophila</i> ovary. <i>Cell</i> , 2009 , 137, 522-35	56.2	627
64	Differential effects by the p21 CDK inhibitor on PCNA-dependent DNA replication and repair. <i>Nature</i> , 1994 , 371, 534-7	50.4	580
63	An epigenetic role for maternally inherited piRNAs in transposon silencing. <i>Science</i> , 2008 , 322, 1387-92	33.3	574
62	A genome-scale shRNA resource for transgenic RNAi in <i>Drosophila</i> . <i>Nature Methods</i> , 2011 , 8, 405-7	21.6	558
61	Starvation-induced transgenerational inheritance of small RNAs in <i>C. elegans</i> . <i>Cell</i> , 2014 , 158, 277-287	56.2	327

60	One Loop to Rule Them All: The Ping-Pong Cycle and piRNA-Guided Silencing. <i>Trends in Biochemical Sciences</i> , 2016 , 41, 324-337	10.3	268
59	Proteomic analysis of murine Piwi proteins reveals a role for arginine methylation in specifying interaction with Tudor family members. <i>Genes and Development</i> , 2009 , 23, 1749-62	12.6	249
58	A model of breast cancer heterogeneity reveals vascular mimicry as a driver of metastasis. <i>Nature</i> , 2015 , 520, 358-62	50.4	243
57	Asparagine bioavailability governs metastasis in a model of breast cancer. <i>Nature</i> , 2018 , 554, 378-381	50.4	234
56	The structural biochemistry of Zucchini implicates it as a nuclease in piRNA biogenesis. <i>Nature</i> , 2012 , 491, 279-83	50.4	229
55	Multiple roles for Piwi in silencing Drosophila transposons. <i>Genes and Development</i> , 2013 , 27, 400-12	12.6	200
54	Toolkit for evaluating genes required for proliferation and survival using tetracycline-regulated RNAi. <i>Nature Biotechnology</i> , 2011 , 29, 79-83	44.5	196
53	piRNA-Guided Genome Defense: From Biogenesis to Silencing. <i>Annual Review of Genetics</i> , 2018 , 52, 131-157	14.5	192
52	A transcriptome-wide RNAi screen in the Drosophila ovary reveals factors of the germline piRNA pathway. <i>Molecular Cell</i> , 2013 , 50, 749-61	17.6	169
51	Functional identification of optimized RNAi triggers using a massively parallel sensor assay. <i>Molecular Cell</i> , 2011 , 41, 733-46	17.6	166
50	piRNA production requires heterochromatin formation in Drosophila. <i>Current Biology</i> , 2011 , 21, 1373-9	6.3	153
49	piRNA-directed cleavage of meiotic transcripts regulates spermatogenesis. <i>Genes and Development</i> , 2015 , 29, 1032-44	12.6	148
48	A genome-wide RNAi screen draws a genetic framework for transposon control and primary piRNA biogenesis in Drosophila. <i>Molecular Cell</i> , 2013 , 50, 736-48	17.6	128
47	Panoramix enforces piRNA-dependent cotranscriptional silencing. <i>Science</i> , 2015 , 350, 339-42	33.3	127
46	Regulation of Ribosome Biogenesis and Protein Synthesis Controls Germline Stem Cell Differentiation. <i>Cell Stem Cell</i> , 2016 , 18, 276-90	18	120
45	Probing the initiation and effector phases of the somatic piRNA pathway in Drosophila. <i>Genes and Development</i> , 2010 , 24, 2499-504	12.6	119
44	Mutational landscape of EGFR-, MYC-, and Kras-driven genetically engineered mouse models of lung adenocarcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6409-E6417	11.5	111
43	lncRNAs in development and disease: from functions to mechanisms. <i>Open Biology</i> , 2017 , 7,	7	100

42	Vreteno, a gonad-specific protein, is essential for germline development and primary piRNA biogenesis in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2011 , 138, 4039-50	6.6	91
41	Two waves of de novo methylation during mouse germ cell development. <i>Genes and Development</i> , 2014 , 28, 1544-9	12.6	89
40	Tiling genomes of pathogenic viruses identifies potent antiviral shRNAs and reveals a role for secondary structure in shRNA efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 869-74	11.5	78
39	Production of artificial piRNAs in flies and mice. <i>Rna</i> , 2012 , 18, 42-52	5.8	76
38	Clonal Decomposition and DNA Replication States Defined by Scaled Single-Cell Genome Sequencing. <i>Cell</i> , 2019 , 179, 1207-1221.e22	56.2	73
37	Essential Role for endogenous siRNAs during meiosis in mouse oocytes. <i>PLoS Genetics</i> , 2015 , 11, e1005063		72
36	shutdown is a component of the <i>Drosophila</i> piRNA biogenesis machinery. <i>Rna</i> , 2012 , 18, 1446-57	5.8	66
35	Molecular hierarchy of mammary differentiation yields refined markers of mammary stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7123-30	11.5	64
34	An epigenetic memory of pregnancy in the mouse mammary gland. <i>Cell Reports</i> , 2015 , 11, 1102-9	10.6	62
33	Two ancient human genomes reveal Polynesian ancestry among the indigenous Botocudos of Brazil. <i>Current Biology</i> , 2014 , 24, R1035-7	6.3	62
32	A computational algorithm to predict shRNA potency. <i>Molecular Cell</i> , 2014 , 56, 796-807	17.6	61
31	Genetic interactions of G-quadruplexes in humans. <i>ELife</i> , 2019 , 8,	8.9	57
30	A genome-wide survey of sexually dimorphic expression of <i>Drosophila</i> miRNAs identifies the steroid hormone-induced miRNA let-7 as a regulator of sexual identity. <i>Genetics</i> , 2014 , 198, 647-68	4	55
29	Dephosphorylation of tyrosine 393 in argonaute 2 by protein tyrosine phosphatase 1B regulates gene silencing in oncogenic RAS-induced senescence. <i>Molecular Cell</i> , 2014 , 55, 782-90	17.6	52
28	Minotaur is critical for primary piRNA biogenesis. <i>Rna</i> , 2013 , 19, 1064-77	5.8	42
27	piRNA-guided co-transcriptional silencing coopts nuclear export factors. <i>ELife</i> , 2019 , 8,	8.9	42
26	A CRISPR Resource for Individual, Combinatorial, or Multiplexed Gene Knockout. <i>Molecular Cell</i> , 2017 , 67, 348-354.e4	17.6	32
25	A genome-wide RNAi screen identifies factors required for distinct stages of <i>C. elegans</i> piRNA biogenesis. <i>Genes and Development</i> , 2014 , 28, 797-807	12.6	31

24	lncRNA requirements for mouse acute myeloid leukemia and normal differentiation. <i>ELife</i> , 2017 , 6,	8.9	31
23	Effective control of SARS-CoV-2 transmission between healthcare workers during a period of diminished community prevalence of COVID-19. <i>ELife</i> , 2020 , 9,	8.9	31
22	BPTF Maintains Chromatin Accessibility and the Self-Renewal Capacity of Mammary Gland Stem Cells. <i>Stem Cell Reports</i> , 2017 , 9, 23-31	8	30
21	RNF17 blocks promiscuous activity of PIWI proteins in mouse testes. <i>Genes and Development</i> , 2015 , 29, 1403-15	12.6	29
20	Oncogenic transformation of Drosophila somatic cells induces a functional piRNA pathway. <i>Genes and Development</i> , 2016 , 30, 1623-35	12.6	29
19	Dual functions of Macpiwi1 in transposon silencing and stem cell maintenance in the flatworm <i>Macrostomum lignano</i> . <i>Rna</i> , 2015 , 21, 1885-97	5.8	21
18	Daedalus and Gasz recruit Armitage to mitochondria, bringing piRNA precursors to the biogenesis machinery. <i>Genes and Development</i> , 2019 , 33, 844-856	12.6	19
17	Specialization of the nuclear export family protein Nxf3 for piRNA precursor export. <i>Genes and Development</i> , 2019 , 33, 1208-1220	12.6	19
16	Discovery of progenitor cell signatures by time-series synexpression analysis during Drosophila embryonic cell immortalization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12974-9	11.5	16
15	lncRNA Spehd Regulates Hematopoietic Stem and Progenitor Cells and Is Required for Multilineage Differentiation. <i>Cell Reports</i> , 2019 , 27, 719-729.e6	10.6	15
14	GoldCLIP: Gel-omitted Ligation-dependent CLIP. <i>Genomics, Proteomics and Bioinformatics</i> , 2018 , 16, 136-143	6.3	15
13	Pitfalls of mapping high-throughput sequencing data to repetitive sequences: Piwi3 genomic targets still not identified. <i>Developmental Cell</i> , 2015 , 32, 765-71	10.2	14
12	Dimerisation of the PICTS complex via LC8/Cut-up drives co-transcriptional transposon silencing in. <i>ELife</i> , 2021 , 10,	8.9	13
11	Landscapes of cellular phenotypic diversity in breast cancer xenografts and their impact on drug response. <i>Nature Communications</i> , 2021 , 12, 1998	17.4	12
10	A Happy 3ZEnding to the piRNA Maturation Story. <i>Cell</i> , 2016 , 164, 838-40	56.2	11
9	Characterization of universal features of partially methylated domains across tissues and species. <i>Epigenetics and Chromatin</i> , 2020 , 13, 39	5.8	5
8	SmartCodes: functionalized barcodes that enable targeted retrieval of clonal lineages from a heterogeneous population		4
7	Maternally inherited piRNAs direct transient heterochromatin formation at active transposons during early embryogenesis. <i>ELife</i> , 2021 , 10,	8.9	4

6	Channel nuclear pore complex subunits are required for transposon silencing in. <i>ELife</i> , 2021 , 10,	8.9	3
5	Author response: Effective control of SARS-CoV-2 transmission between healthcare workers during a period of diminished community prevalence of COVID-19 2020 ,		2
4	Exploration and analysis of molecularly annotated, 3D models of breast cancer at single-cell resolution using virtual reality		2
3	piRNA-guided co-transcriptional silencing coopts nuclear export factors		1
2	Specialization of the <i>Drosophila</i> nuclear export family protein, Nxf3, for piRNA precursor export		1
1	An evolutionarily conserved stop codon enrichment at the 5' ends of mammalian piRNAs.. <i>Nature Communications</i> , 2022 , 13, 2118	17.4	0