

Gregory James Hannon

List of Publications by Year in descending order

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74
papers

29,776
citations

38738

50
h-index

76898

74
g-index

93
all docs

93
docs citations

93
times ranked

24062
citing authors

#	ARTICLE	IF	CITATIONS
1	A new regulatory motif in cell-cycle control causing specific inhibition of cyclin D/CDK4. <i>Nature</i> , 1993, 366, 704-707.	27.8	3,425
2	p21 is a universal inhibitor of cyclin kinases. <i>Nature</i> , 1993, 366, 701-704.	27.8	3,293
3	Discrete Small RNA-Generating Loci as Master Regulators of Transposon Activity in <i>Drosophila</i> . <i>Cell</i> , 2007, 128, 1089-1103.	28.9	2,215
4	p15INK4B is a potent effector of TGF- β -induced cell cycle arrest. <i>Nature</i> , 1994, 371, 257-261.	27.8	1,948
5	The p21 inhibitor of cyclin-dependent kinases controls DNA replication by interaction with PCNA. <i>Nature</i> , 1994, 369, 574-578.	27.8	1,626
6	A germline-specific class of small RNAs binds mammalian Piwi proteins. <i>Nature</i> , 2006, 442, 199-202.	27.8	1,468
7	Radiation-induced cell cycle arrest compromised by p21 deficiency. <i>Nature</i> , 1995, 377, 552-557.	27.8	1,218
8	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
9	MIWI2 Is Essential for Spermatogenesis and Repression of Transposons in the Mouse Male Germline. <i>Developmental Cell</i> , 2007, 12, 503-514.	7.0	1,014
10	A Role for Piwi and piRNAs in Germ Cell Maintenance and Transposon Silencing in Zebrafish. <i>Cell</i> , 2007, 129, 69-82.	28.9	989
11	The Piwi-piRNA Pathway Provides an Adaptive Defense in the Transposon Arms Race. <i>Science</i> , 2007, 318, 761-764.	12.6	941
12	Developmentally Regulated piRNA Clusters Implicate MILI in Transposon Control. <i>Science</i> , 2007, 316, 744-747.	12.6	879
13	Specialized piRNA Pathways Act in Germline and Somatic Tissues of the <i>Drosophila</i> Ovary. <i>Cell</i> , 2009, 137, 522-535.	28.9	774
14	A genome-scale shRNA resource for transgenic RNAi in <i>Drosophila</i> . <i>Nature Methods</i> , 2011, 8, 405-407.	19.0	733
15	An Epigenetic Role for Maternally Inherited piRNAs in Transposon Silencing. <i>Science</i> , 2008, 322, 1387-1392.	12.6	686
16	Differential effects by the p21 CDK inhibitor on PCNA-dependent DNA replication and repair. <i>Nature</i> , 1994, 371, 534-537.	27.8	632
17	Starvation-Induced Transgenerational Inheritance of Small RNAs in <i>C.Âelegans</i> . <i>Cell</i> , 2014, 158, 277-287.	28.9	448
18	One Loop to Rule Them All: The Ping-Pong Cycle and piRNA-Guided Silencing. <i>Trends in Biochemical Sciences</i> , 2016, 41, 324-337.	7.5	386

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19	piRNA-Guided Genome Defense: From Biogenesis to Silencing. <i>Annual Review of Genetics</i> , 2018, 52, 131-157.	7.6	372
20	Asparagine bioavailability governs metastasis in a model of breast cancer. <i>Nature</i> , 2018, 554, 378-381.	27.8	362
21	A model of breast cancer heterogeneity reveals vascular mimicry as a driver of metastasis. <i>Nature</i> , 2015, 520, 358-362.	27.8	336
22	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, 1749-1762.	5.9	287
23	The structural biochemistry of Zucchini implicates it as a nuclease in piRNA biogenesis. <i>Nature</i> , 2012, 491, 279-283.	27.8	276
24	Toolkit for evaluating genes required for proliferation and survival using tetracycline-regulated RNAi. <i>Nature Biotechnology</i> , 2011, 29, 79-83.	17.5	235
25	Multiple roles for Piwi in silencing <i>Drosophila</i> transposons. <i>Genes and Development</i> , 2013, 27, 400-412.	5.9	231
26	A Transcriptome-wide RNAi Screen in the <i>Drosophila</i> Ovary Reveals Factors of the Germline piRNA Pathway. <i>Molecular Cell</i> , 2013, 50, 749-761.	9.7	229
27	piRNA-directed cleavage of meiotic transcripts regulates spermatogenesis. <i>Genes and Development</i> , 2015, 29, 1032-1044.	5.9	220
28	Regulation of Ribosome Biogenesis and Protein Synthesis Controls Germline Stem Cell Differentiation. <i>Cell Stem Cell</i> , 2016, 18, 276-290.	11.1	199
29	piRNA Production Requires Heterochromatin Formation in <i>Drosophila</i> . <i>Current Biology</i> , 2011, 21, 1373-1379.	3.9	195
30	Functional Identification of Optimized RNAi Triggers Using a Massively Parallel Sensor Assay. <i>Molecular Cell</i> , 2011, 41, 733-746.	9.7	193
31	A Genome-wide RNAi Screen Draws a Genetic Framework for Transposon Control and Primary piRNA Biogenesis in <i>Drosophila</i> . <i>Molecular Cell</i> , 2013, 50, 736-748.	9.7	170
32	Panoramix enforces piRNA-dependent cotranscriptional silencing. <i>Science</i> , 2015, 350, 339-342.	12.6	162
33	Clonal Decomposition and DNA Replication States Defined by Scaled Single-Cell Genome Sequencing. <i>Cell</i> , 2019, 179, 1207-1221.e22.	28.9	162
34	Mutational landscape of <i>EGFR</i> , <i>MYC</i> , and <i>Kras</i> 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.	7.1	158
35	Probing the initiation and effector phases of the somatic piRNA pathway in <i>Drosophila</i> . <i>Genes and Development</i> , 2010, 24, 2499-2504.	5.9	132
36	lncRNAs in development and disease: from functions to mechanisms. <i>Open Biology</i> , 2017, 7, 170121.	3.6	126

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37	Two waves of de novo methylation during mouse germ cell development. <i>Genes and Development</i> , 2014, 28, 1544-1549.	5.9	123
38	Vreteno, a gonad-specific protein, is essential for germline development and primary piRNA biogenesis in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2011, 138, 4039-4050.	2.5	104
39	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, 869-874.	7.1	99
40	Essential Role for Endogenous siRNAs during Meiosis in Mouse Oocytes. <i>PLoS Genetics</i> , 2015, 11, e1005013.	3.5	97
41	Production of artificial piRNAs in flies and mice. <i>Rna</i> , 2012, 18, 42-52.	3.5	94
42	Genetic interactions of G-quadruplexes in humans. <i>ELife</i> , 2019, 8, .	6.0	91
43	A Computational Algorithm to Predict shRNA Potency. <i>Molecular Cell</i> , 2014, 56, 796-807.	9.7	90
44	An Epigenetic Memory of Pregnancy in the Mouse Mammary Gland. <i>Cell Reports</i> , 2015, 11, 1102-1109.	6.4	88
45	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, 7123-7130.	7.1	79
46	PHGDH heterogeneity potentiates cancer cell dissemination and metastasis. <i>Nature</i> , 2022, 605, 747-753.	27.8	77
47	Two ancient human genomes reveal Polynesian ancestry among the indigenous Botocudos of Brazil. <i>Current Biology</i> , 2014, 24, R1035-R1037.	3.9	73
48	<i>shutdown</i> is a component of the <i>Drosophila</i> piRNA biogenesis machinery. <i>Rna</i> , 2012, 18, 1446-1457.	3.5	72
49	A Genome-Wide Survey of Sexually Dimorphic Expression of <i>Drosophila</i> miRNAs Identifies the Steroid Hormone-Induced miRNA <i>let-7</i> as a Regulator of Sexual Identity. <i>Genetics</i> , 2014, 198, 647-668.	2.9	68
50	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, 782-790.	9.7	65
51	piRNA-guided co-transcriptional silencing coopts nuclear export factors. <i>ELife</i> , 2019, 8, .	6.0	60
52	lncRNA requirements for mouse acute myeloid leukemia and normal differentiation. <i>ELife</i> , 2017, 6, .	6.0	54
53	Minotaur is critical for primary piRNA biogenesis. <i>Rna</i> , 2013, 19, 1064-1077.	3.5	51
54	Specialization of the <i>Drosophila</i> nuclear export family protein Nxf3 for piRNA precursor export. <i>Genes and Development</i> , 2019, 33, 1208-1220.	5.9	49

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55	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.	5.9	48
56	RNF17 blocks promiscuous activity of PIWI proteins in mouse testes. <i>Genes and Development</i> , 2015, 29, 1403-1415.	5.9	47
57	A CRISPR Resource for Individual, Combinatorial, or Multiplexed Gene Knockout. <i>Molecular Cell</i> , 2017, 67, 348-354.e4.	9.7	45
58	BPTF Maintains Chromatin Accessibility and the Self-Renewal Capacity of Mammary Gland Stem Cells. <i>Stem Cell Reports</i> , 2017, 9, 23-31.	4.8	43
59	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, .	6.0	40
60	Landscapes of cellular phenotypic diversity in breast cancer xenografts and their impact on drug response. <i>Nature Communications</i> , 2021, 12, 1998.	12.8	37
61	Oncogenic transformation of <i>Drosophila</i> somatic cells induces a functional piRNA pathway. <i>Genes and Development</i> , 2016, 30, 1623-1635.	5.9	33
62	Daedalus and Gasz recruit Armitage to mitochondria, bringing piRNA precursors to the biogenesis machinery. <i>Genes and Development</i> , 2019, 33, 844-856.	5.9	32
63	Dimerisation of the PICTS complex via LC8/Cut-up drives co-transcriptional transposon silencing in <i>Drosophila</i> . <i>ELife</i> , 2021, 10, .	6.0	28
64	lncRNA Spehd Regulates Hematopoietic Stem and Progenitor Cells and Is Required for Multilineage Differentiation. <i>Cell Reports</i> , 2019, 27, 719-729.e6.	6.4	27
65	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
66	Discovery of progenitor cell signatures by time-series synexpression analysis during <i>Drosophila</i> embryonic cell immortalization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12974-12979.	7.1	26
67	Dual functions of Macpiwi1 in transposon silencing and stem cell maintenance in the flatworm <i>Macrostomum lignano</i> . <i>Rna</i> , 2015, 21, 1885-1897.	3.5	26
68	Maternally inherited piRNAs direct transient heterochromatin formation at active transposons during early <i>Drosophila</i> embryogenesis. <i>ELife</i> , 2021, 10, .	6.0	26
69	GoldCLIP: Gel-omitted Ligation-dependent CLIP. <i>Genomics, Proteomics and Bioinformatics</i> , 2018, 16, 136-143.	6.9	21
70	Characterization of universal features of partially methylated domains across tissues and species. <i>Epigenetics and Chromatin</i> , 2020, 13, 39.	3.9	16
71	Channel nuclear pore complex subunits are required for transposon silencing in <i>Drosophila</i> . <i>ELife</i> , 2021, 10, .	6.0	14
72	A Happy Ending to the piRNA Maturation Story. <i>Cell</i> , 2016, 164, 838-840.	28.9	13

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73	Gene expression signatures of individual ductal carcinoma in situ lesions identify processes and biomarkers associated with progression towards invasive ductal carcinoma. Nature Communications, 2022, 13, .	12.8	12
74	An evolutionarily conserved stop codon enrichment at the 5' ends of mammalian piRNAs. Nature Communications, 2022, 13, 2118.	12.8	3