Gregory James Hannon

List of Publications by Year
in descending order

74	29,776	38742 50	76900 74
papers	citations	h-index	g-index

93	93	93	24062
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An evolutionarily conserved stop codon enrichment at the 5â€² ends of mammalian piRNAs. Nature Communications, 2022, 13, 2118.	12.8	3
2	PHGDH heterogeneity potentiates cancerÂcell dissemination and metastasis. Nature, 2022, 605, 747-753.	27.8	77
3	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
4	Landscapes of cellular phenotypic diversity in breast cancer xenografts and their impact on drug response. Nature Communications, 2021, 12, 1998.	12.8	37
5	Channel nuclear pore complex subunits are required for transposon silencing in Drosophila. ELife, 2021, 10, .	6.0	14
6	Maternally inherited piRNAs direct transient heterochromatin formation at active transposons during early Drosophila embryogenesis. ELife, 2021, 10, .	6.0	26
7	Dimerisation of the PICTS complex via LC8/Cut-up drives co-transcriptional transposon silencing in Drosophila. ELife, 2021, 10, .	6.0	28
8	Characterization of universal features of partially methylated domains across tissues and species. Epigenetics and Chromatin, 2020, 13, 39.	3.9	16
9	Effective control of SARS-CoV-2 transmission between healthcare workers during a period of diminished community prevalence of COVID-19. ELife, 2020, 9, .	6.0	40
10	Specialization of the Drosophila nuclear export family protein Nxf3 for piRNA precursor export. Genes and Development, 2019, 33, 1208-1220.	5.9	49
11	Clonal Decomposition and DNA Replication States Defined by Scaled Single-Cell Genome Sequencing. Cell, 2019, 179, 1207-1221.e22.	28.9	162
12	Daedalus and Gasz recruit Armitage to mitochondria, bringing piRNA precursors to the biogenesis machinery. Genes and Development, 2019, 33, 844-856.	5.9	32
13	lncRNA Spehd Regulates Hematopoietic Stem and Progenitor Cells and Is Required for Multilineage Differentiation. Cell Reports, 2019, 27, 719-729.e6.	6.4	27
14	Genetic interactions of G-quadruplexes in humans. ELife, 2019, 8, .	6.0	91
15	piRNA-guided co-transcriptional silencing coopts nuclear export factors. ELife, 2019, 8, .	6.0	60
16	Asparagine bioavailability governs metastasis in a model of breast cancer. Nature, 2018, 554, 378-381.	27.8	362
17	GoldCLIP: Gel-omitted Ligation-dependent CLIP. Genomics, Proteomics and Bioinformatics, 2018, 16, 136-143.	6.9	21
18	piRNA-Guided Genome Defense: From Biogenesis to Silencing. Annual Review of Genetics, 2018, 52, 131-157.	7.6	372

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19	BPTF Maintains Chromatin Accessibility and the Self-Renewal Capacity of Mammary Gland Stem Cells. Stem Cell Reports, 2017, 9, 23-31.	4.8	43
20	A CRISPR Resource for Individual, Combinatorial, or Multiplexed Gene Knockout. Molecular Cell, 2017, 67, 348-354.e4.	9.7	45
21	lncRNAs in development and disease: from functions to mechanisms. Open Biology, 2017, 7, 170121.	3.6	126
22	lncRNA requirements for mouse acute myeloid leukemia and normal differentiation. ELife, 2017, 6, .	6.0	54
23	Mutational landscape of EGFR- , MYC- , and Kras- driven genetically engineered mouse models of lung adenocarcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6409-E6417.	7.1	158
24	Oncogenic transformation of Drosophila somatic cells induces a functional piRNA pathway. Genes and Development, 2016, 30, 1623-1635.	5.9	33
25	One Loop to Rule Them All: The Ping-Pong Cycle and piRNA-Guided Silencing. Trends in Biochemical Sciences, 2016, 41, 324-337.	7.5	386
26	Regulation of Ribosome Biogenesis and Protein Synthesis Controls Germline Stem Cell Differentiation. Cell Stem Cell, 2016, 18, 276-290.	11.1	199
27	A Happy 3â€² Ending to the piRNA Maturation Story. Cell, 2016, 164, 838-840.	28.9	13
28	piRNA-directed cleavage of meiotic transcripts regulates spermatogenesis. Genes and Development, 2015, 29, 1032-1044.	5.9	220
29	RNF17 blocks promiscuous activity of PIWI proteins in mouse testes. Genes and Development, 2015, 29, 1403-1415.	5.9	47
30	Essential Role for Endogenous siRNAs during Meiosis in Mouse Oocytes. PLoS Genetics, 2015, 11, e1005013.	3.5	97
31	An Epigenetic Memory of Pregnancy in the Mouse Mammary Gland. Cell Reports, 2015, 11, 1102-1109.	6.4	88
32	Pitfalls of Mapping High-Throughput Sequencing Data to Repetitive Sequences: Piwiâ€™s Genomic Targets Still Not Identified. Developmental Cell, 2015, 32, 765-771.	7.0	26
33	A model of breast cancer heterogeneity reveals vascular mimicry as a driver of metastasis. Nature, 2015, 520, 358-362.	27.8	336
34	Discovery of progenitor cell signatures by time-series synexpression analysis during Drosophila embryonic cell immortalization. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12974-12979.	7.1	26
35	Panoramix enforces piRNA-dependent cotranscriptional silencing. Science, 2015, 350, 339-342.	12.6	162
36	Dual functions of Macpiwi1 in transposon silencing and stem cell maintenance in the flatworm Macrostomum lignano. Rna, 2015, 21, 1885-1897.	3.5	26

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37	A genome-wide RNAi screen identifies factors required for distinct stages of C. elegans piRNA biogenesis. Genes and Development, 2014, 28, 797-807.	5.9	48
38	A Computational Algorithm to Predict shRNA Potency. Molecular Cell, 2014, 56, 796-807.	9.7	90
39	Two ancient human genomes reveal Polynesian ancestry among the indigenous Botocudos of Brazil. Current Biology, 2014, 24, R1035-R1037.	3.9	73
40	Starvation-Induced Transgenerational Inheritance of Small RNAs in C.Âelegans. Cell, 2014, 158, 277-287.	28.9	448
41	Dephosphorylation of Tyrosine 393 in Argonaute 2 by Protein Tyrosine Phosphatase 1B Regulates Gene Silencing in Oncogenic RAS-Induced Senescence. Molecular Cell, 2014, 55, 782-790.	9.7	65
42	A Genome-Wide Survey of Sexually Dimorphic Expression of Drosophila miRNAs Identifies the Steroid Hormone-Induced miRNA let-7 as a Regulator of Sexual Identity. Genetics, 2014, 198, 647-668.	2.9	68
43	Two waves of de novo methylation during mouse germ cell development. Genes and Development, 2014, 28, 1544-1549.	5.9	123
44	Multiple roles for Piwi in silencing Drosophila transposons. Genes and Development, 2013, 27, 400-412.	5.9	231
45	A Genome-wide RNAi Screen Draws a Genetic Framework for Transposon Control and Primary piRNA Biogenesis in Drosophila. Molecular Cell, 2013, 50, 736-748.	9.7	170
46	A Transcriptome-wide RNAi Screen in the Drosophila Ovary Reveals Factors of the Germline piRNA Pathway. Molecular Cell, 2013, 50, 749-761.	9.7	229
47	Molecular hierarchy of mammary differentiation yields refined markers of mammary stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7123-7130.	7.1	79
48	Minotaur is critical for primary piRNA biogenesis. Rna, 2013, 19, 1064-1077.	3.5	51
49	Tiling genomes of pathogenic viruses identifies potent antiviral shRNAs and reveals a role for secondary structure in shRNA efficacy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 869-874.	7.1	99
50	shutdown is a component of the Drosophila piRNA biogenesis machinery. Rna, 2012, 18, 1446-1457.	3.5	72
51	Production of artificial piRNAs in flies and mice. Rna, 2012, 18, 42-52.	3.5	94
52	The structural biochemistry of Zucchini implicates it as a nuclease in piRNA biogenesis. Nature, 2012, 491, 279-283.	27.8	276
53	Functional Identification of Optimized RNAi Triggers Using a Massively Parallel Sensor Assay. Molecular Cell, 2011, 41, 733-746.	9.7	193
54	A genome-scale shRNA resource for transgenic RNAi in Drosophila. Nature Methods, 2011, 8, 405-407.	19.0	733

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55	Toolkit for evaluating genes required for proliferation and survival using tetracycline-regulated RNAi. Nature Biotechnology, 2011, 29, 79-83.	17.5	235
56	piRNA Production Requires Heterochromatin Formation in Drosophila. Current Biology, 2011, 21, 1373-1379.	3.9	195
57	Vreteno, a gonad-specific protein, is essential for germline development and primary piRNA biogenesis in Drosophila. Development (Cambridge), 2011, 138, 4039-4050.	2.5	104
58	Probing the initiation and effector phases of the somatic piRNA pathway in Drosophila. Genes and Development, 2010, 24, 2499-2504.	5.9	132
59	Proteomic analysis of murine Piwi proteins reveals a role for arginine methylation in specifying interaction with Tudor family members. Genes and Development, 2009, 23, 1749-1762.	5.9	287
60	Specialized piRNA Pathways Act in Germline and Somatic Tissues of the Drosophila Ovary. Cell, 2009, 137, 522-535.	28.9	774
61	A piRNA Pathway Primed by Individual Transposons Is Linked to De Novo DNA Methylation in Mice. Molecular Cell, 2008, 31, 785-799.	9.7	1,029
62	An Epigenetic Role for Maternally Inherited piRNAs in Transposon Silencing. Science, 2008, 322, 1387-1392.	12.6	686
63	Discrete Small RNA-Generating Loci as Master Regulators of Transposon Activity in Drosophila. Cell, 2007, 128, 1089-1103.	28.9	2,215
64	MIWI2 Is Essential for Spermatogenesis and Repression of Transposons in the Mouse Male Germline. Developmental Cell, 2007, 12, 503-514.	7.0	1,014
65	The Piwi-piRNA Pathway Provides an Adaptive Defense in the Transposon Arms Race. Science, 2007, 318, 761-764.	12.6	941
66	A Role for Piwi and piRNAs in Germ Cell Maintenance and Transposon Silencing in Zebrafish. Cell, 2007, 129, 69-82.	28.9	989
67	Developmentally Regulated piRNA Clusters Implicate MILI in Transposon Control. Science, 2007, 316, 744-747.	12.6	879
68	A germline-specific class of small RNAs binds mammalian Piwi proteins. Nature, 2006, 442, 199-202.	27.8	1,468
69	Radiation-induced cell cycle arrest compromised by p21 deficiency. Nature, 1995, 377, 552-557.	27.8	1,218
70	The p21 inhibitor of cyclin-dependent kinases controls DNA replication by interaction with PCNA. Nature, 1994, 369, 574-578.	27.8	1,626
71	pl5INK4B is a potentia| effector of TGF-Î²-induced cell cycle arrest. Nature, 1994, 371, 257-261.	27.8	1,948
72	Differential effects by the p21 CDK inhibitor on PCNA-dependent DNA replication and repair. Nature, 1994, 371, 534-537.	27.8	632

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73	p21 is a universal inhibitor of cyclin kinases. Nature, 1993, 366, 701-704.	27.8	3,293
74	A new regulatory motif in cell-cycle control causing specific inhibition of cyclin D/CDK4. Nature, 1993, 366, 704-707.	27.8	3,425