David Gatfield

List of Publications by Year
in descending order

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39 papers	7,458 citations	186265 28 h-index	302126 39 g-index
46 all docs	46 docs citations	46 times ranked	8605 citing authors

#	Article	IF	Citations
1	Recording of Diurnal Gene Expression in Peripheral Organs of Mice Using the RT-Biolumicorder. Methods in Molecular Biology, 2022, , 217-242.	0.9	4
2	Structural basis of ribosomal frameshifting during translation of the SARS-CoV-2 RNA genome. Science, 2021, 372, 1306-1313.	12.6	165
3	I(nsp1)ecting SARS-CoV-2â€“ribosome interactions. Communications Biology, 2021, 4, 715.	4.4	29
4	Circular RNA repertoires are associated with evolutionarily young transposable elements. ELife, 2021, 10, .	6.0	14
5	Transcriptome and translatome co-evolution in mammals. Nature, 2020, 588, 642-647.	27.8	122
6	Transcriptome-wide sites of collided ribosomes reveal principles of translational pausing. Genome Research, 2020, 30, 985-999.	5.5	73
7	Mammalian RNA Decay Pathways Are Highly Specialized and Widely Linked to Translation. Molecular Cell, 2020, 77, 1222-1236.e13.	9.7	78
8	Emerging Roles of Translational Control in Circadian Timekeeping. Journal of Molecular Biology, 2020, 432, 3483-3497.	4.2	11
9	Charting DENR-dependent translation reinitiation uncovers predictive uORF features and links to circadian timekeeping via Clock. Nucleic Acids Research, 2019, 47, 5193-5209.	14.5	30
10	Circadian Clocks and UPR: New Twists as the Story Unfolds. Developmental Cell, 2018, 44, 7-9.	7.0	5
11	Diurnal Oscillations in Liver Mass and Cell Size Accompany Ribosome Assembly Cycles. Cell, 2017, 169, 651-663.e14.	28.9	170
12	Guidelines for Genome-Scale Analysis of Biological Rhythms. Journal of Biological Rhythms, 2017, 32, 380-393.	2.6	237
13	Translational contributions to tissue specificity in rhythmic and constitutive gene expression. Genome Biology, 2017, 18, 116.	8.8	54
14	Analyzing the temporal regulation of translation efficiency in mouse liver. Genomics Data, 2016, 8, 41-44.	1.3	6
15	A Neuron-Specific Deletion of the MicroRNA-Processing Enzyme DICER Induces Severe but Transient Obesity in Mice. PLoS ONE, 2015, 10, e0116760.	2.5	20
16	Ribosome profiling reveals the rhythmic liver translatome and circadian clock regulation by upstream open reading frames. Genome Research, 2015, 25, 1848-1859.	5.5	151
17	Robust synchronization of coupled circadian and cell cycle oscillators in single mammalian cells. Molecular Systems Biology, 2014, 10, 739.	7.2	173
18	MicroRNAs shape circadian hepatic gene expression on a transcriptome-wide scale. ELife, 2014, 3, e02510.	6.0	98

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19	CAVINâ€3 regulates circadian period length and PER:CRY protein abundance and interactions. EMBO Reports, 2012, 13, 1138-1144.	4.5	17
20	Mammalian Genes Are Transcribed with Widely Different Bursting Kinetics. Science, 2011, 332, 472-474.	12.6	846
21	MicroRNA-122 Modulates the Rhythmic Expression Profile of the Circadian Deadenylase Nocturnin in Mouse Liver. PLoS ONE, 2010, 5, e11264.	2.5	86
22	Integration of microRNA miR-122 in hepatic circadian gene expression. Genes and Development, 2009, 23, 1313-1326.	5.9	349
23	REV-ERBÎ± Participates in Circadian SREBP Signaling and Bile Acid Homeostasis. PLoS Biology, 2009, 7, e1000181.	5.6	368
24	SIRT1 Regulates Circadian Clock Gene Expression through PER2 Deacetylation. Cell, 2008, 134, 317-328.	28.9	1,183
25	Circadian glucose homeostasis requires compensatory interference between brain and liver clocks. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14753-14754.	7.1	29
26	PHYSIOLOGY: Proteasomes Keep the Circadian Clock Ticking. Science, 2007, 316, 1135-1136.	12.6	42
27	A conserved role for cytoplasmic poly(A)-binding protein 1 (PABPC1) in nonsense-mediated mRNA decay. EMBO Journal, 2007, 26, 1591-1601.	7.8	197
28	Genome-wide oscillation of transcription in yeast. Trends in Biochemical Sciences, 2006, 31, 189-191.	7.5	20
29	A crucial role for GW182 and the DCP1:DCP2 decapping complex in miRNA-mediated gene silencing. Rna, 2005, 11, 1640-1647.	3.5	398
30	An eIF4AIII-containing complex required for mRNA localization and nonsense-mediated mRNA decay. Nature, 2004, 427, 753-757.	27.8	327
31	Nonsense-mediated messenger RNA decay is initiated by endonucleolytic cleavage in Drosophila. Nature, 2004, 429, 575-578.	27.8	208
32	Nonsense-mediated mRNA decay in Drosophila:at the intersection of the yeast and mammalian pathways. EMBO Journal, 2003, 22, 3960-3970.	7.8	249
33	A novel mode of RBD-protein recognition in the Y14â€“Mago complex. Nature Structural and Molecular Biology, 2003, 10, 433-439.	8.2	150
34	REF1/Aly and the additional exon junction complex proteins are dispensable for nuclear mRNA export. Journal of Cell Biology, 2002, 159, 579-588.	5.2	190
35	The protein Mago provides a link between splicing and mRNA localization. EMBO Reports, 2001, 2, 1119-1124.	4.5	157
36	The exon-exon junction complex provides a binding platform for factors involved in mRNA export and nonsense-mediated mRNA decay. EMBO Journal, 2001, 20, 4987-4997.	7.8	690

#	Article	IF	Citations
37	The DExH/D box protein HEL/UAP56 is essential for mRNA nuclear export in Drosophila. Current Biology, 2001, 11, 1716-1721.	3.9	213
38	REF proteins mediate the export of spliced and unspliced mRNAs from the nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1030-1035.	7.1	223
39	Partial Purification and Characterization of Acetyl Coenzyme A: Taxa-4(20),11(12)-dien-5Î±-olO-Acetyl Transferase That Catalyzes the First Acylation Step of Taxol Biosynthesis. Archives of Biochemistry and Biophysics, 1999, 364, 273-279.	3.0	64