

# 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	SIRT1 Regulates Circadian Clock Gene Expression through PER2 Deacetylation. <i>Cell</i> , 2008, 134, 317-328.	28.9	1,183
2	Mammalian Genes Are Transcribed with Widely Different Bursting Kinetics. <i>Science</i> , 2011, 332, 472-474.	12.6	846
3	The exon-exon junction complex provides a binding platform for factors involved in mRNA export and nonsense-mediated mRNA decay. <i>EMBO Journal</i> , 2001, 20, 4987-4997.	7.8	690
4	A crucial role for GW182 and the DCP1:DCP2 decapping complex in miRNA-mediated gene silencing. <i>Rna</i> , 2005, 11, 1640-1647.	3.5	398
5	REV-ERB $\beta$ Participates in Circadian SREBP Signaling and Bile Acid Homeostasis. <i>PLoS Biology</i> , 2009, 7, e1000181.	5.6	368
6	Integration of microRNA miR-122 in hepatic circadian gene expression. <i>Genes and Development</i> , 2009, 23, 1313-1326.	5.9	349
7	An eIF4AIII-containing complex required for mRNA localization and nonsense-mediated mRNA decay. <i>Nature</i> , 2004, 427, 753-757.	27.8	327
8	Nonsense-mediated mRNA decay in <i>Drosophila</i> : at the intersection of the yeast and mammalian pathways. <i>EMBO Journal</i> , 2003, 22, 3960-3970.	7.8	249
9	Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , 2017, 32, 380-393.	2.6	237
10	REF proteins mediate the export of spliced and unspliced mRNAs from the nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 1030-1035.	7.1	223
11	The DExH/D box protein HEL/UAP56 is essential for mRNA nuclear export in <i>Drosophila</i> . <i>Current Biology</i> , 2001, 11, 1716-1721.	3.9	213
12	Nonsense-mediated messenger RNA decay is initiated by endonucleolytic cleavage in <i>Drosophila</i> . <i>Nature</i> , 2004, 429, 575-578.	27.8	208
13	A conserved role for cytoplasmic poly(A)-binding protein 1 (PABPC1) in nonsense-mediated mRNA decay. <i>EMBO Journal</i> , 2007, 26, 1591-1601.	7.8	197
14	REF1/Aly and the additional exon junction complex proteins are dispensable for nuclear mRNA export. <i>Journal of Cell Biology</i> , 2002, 159, 579-588.	5.2	190
15	Robust synchronization of coupled circadian and cell cycle oscillators in single mammalian cells. <i>Molecular Systems Biology</i> , 2014, 10, 739.	7.2	173
16	Diurnal Oscillations in Liver Mass and Cell Size Accompany Ribosome Assembly Cycles. <i>Cell</i> , 2017, 169, 651-663.e14.	28.9	170
17	Structural basis of ribosomal frameshifting during translation of the SARS-CoV-2 RNA genome. <i>Science</i> , 2021, 372, 1306-1313.	12.6	165
18	The protein Mago provides a link between splicing and mRNA localization. <i>EMBO Reports</i> , 2001, 2, 1119-1124.	4.5	157

#	ARTICLE	IF	CITATIONS
19	Ribosome profiling reveals the rhythmic liver translome and circadian clock regulation by upstream open reading frames. <i>Genome Research</i> , 2015, 25, 1848-1859.	5.5	151
20	A novel mode of RBD-protein recognition in the Y14 Mago complex. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 433-439.	8.2	150
21	Transcriptome and translome co-evolution in mammals. <i>Nature</i> , 2020, 588, 642-647.	27.8	122
22	MicroRNAs shape circadian hepatic gene expression on a transcriptome-wide scale. <i>ELife</i> , 2014, 3, e02510.	6.0	98
23	MicroRNA-122 Modulates the Rhythmic Expression Profile of the Circadian Deadenylase Nocturnin in Mouse Liver. <i>PLoS ONE</i> , 2010, 5, e11264.	2.5	86
24	Mammalian RNA Decay Pathways Are Highly Specialized and Widely Linked to Translation. <i>Molecular Cell</i> , 2020, 77, 1222-1236.e13.	9.7	78
25	Transcriptome-wide sites of collided ribosomes reveal principles of translational pausing. <i>Genome Research</i> , 2020, 30, 985-999.	5.5	73
26	Partial Purification and Characterization of Acetyl Coenzyme A: Taxa-4(20),11(12)-dien-5 $\beta$ -oO-Acetyl Transferase That Catalyzes the First Acylation Step of Taxol Biosynthesis. <i>Archives of Biochemistry and Biophysics</i> , 1999, 364, 273-279.	3.0	64
27	Translational contributions to tissue specificity in rhythmic and constitutive gene expression. <i>Genome Biology</i> , 2017, 18, 116.	8.8	54
28	PHYSIOLOGY: Proteasomes Keep the Circadian Clock Ticking. <i>Science</i> , 2007, 316, 1135-1136.	12.6	42
29	Charting DENR-dependent translation reinitiation uncovers predictive uORF features and links to circadian timekeeping via Clock. <i>Nucleic Acids Research</i> , 2019, 47, 5193-5209.	14.5	30
30	Circadian glucose homeostasis requires compensatory interference between brain and liver clocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14753-14754.	7.1	29
31	Impact of SARS-CoV-2 ribosome interactions. <i>Communications Biology</i> , 2021, 4, 715.	4.4	29
32	Genome-wide oscillation of transcription in yeast. <i>Trends in Biochemical Sciences</i> , 2006, 31, 189-191.	7.5	20
33	A Neuron-Specific Deletion of the MicroRNA-Processing Enzyme DICER Induces Severe but Transient Obesity in Mice. <i>PLoS ONE</i> , 2015, 10, e0116760.	2.5	20
34	CAVIN3 regulates circadian period length and PER:CRY protein abundance and interactions. <i>EMBO Reports</i> , 2012, 13, 1138-1144.	4.5	17
35	Circular RNA repertoires are associated with evolutionarily young transposable elements. <i>ELife</i> , 2021, 10, .	6.0	14
36	Emerging Roles of Translational Control in Circadian Timekeeping. <i>Journal of Molecular Biology</i> , 2020, 432, 3483-3497.	4.2	11

#	ARTICLE	IF	CITATIONS
37	Analyzing the temporal regulation of translation efficiency in mouse liver. <i>Genomics Data</i> , 2016, 8, 41-44.	1.3	6
38	Circadian Clocks and UPR: New Twists as the Story Unfolds. <i>Developmental Cell</i> , 2018, 44, 7-9.	7.0	5
39	Recording of Diurnal Gene Expression in Peripheral Organs of Mice Using the RT-Biolumicorder. <i>Methods in Molecular Biology</i> , 2022, , 217-242.	0.9	4