

Helge Grosshans

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

7,784
citations

159585

30
h-index

133252

59
g-index

73
all docs

73
docs citations

73
times ranked

10309
citing authors

#	ARTICLE	IF	CITATIONS
1	RAS Is Regulated by the let-7 MicroRNA Family. <i>Cell</i> , 2005, 120, 635-647.	28.9	3,291
2	let-7 microRNAs in development, stem cells and cancer. <i>Trends in Molecular Medicine</i> , 2008, 14, 400-409.	6.7	539
3	Active turnover modulates mature microRNA activity in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2009, 461, 546-549.	27.8	331
4	MicroRNA turnover: when, how, and why. <i>Trends in Biochemical Sciences</i> , 2012, 37, 436-446.	7.5	298
5	The expanding world of small RNAs. <i>Nature</i> , 2008, 451, 414-416.	27.8	246
6	The Temporal Patterning MicroRNA let-7 Regulates Several Transcription Factors at the Larval to Adult Transition in <i>C. elegans</i> . <i>Developmental Cell</i> , 2005, 8, 321-330.	7.0	231
7	Extensive Oscillatory Gene Expression during <i>C.Âelegans</i> Larval Development. <i>Molecular Cell</i> , 2014, 53, 380-392.	9.7	188
8	Potent degradation of neuronal mi <scp>RNA</scp> s induced by highly complementary targets. <i>EMBO Reports</i> , 2015, 16, 500-511.	4.5	165
9	An aminoacylation-dependent nuclear tRNA export pathway in yeast. <i>Genes and Development</i> , 2000, 14, 830-840.	5.9	156
10	Target-Mediated Protection of Endogenous MicroRNAs in <i>C. elegans</i> . <i>Developmental Cell</i> , 2011, 20, 388-396.	7.0	150
11	Micro-RNAs. <i>Journal of Cell Biology</i> , 2002, 156, 17-22.	5.2	132
12	Biogenesis of the Signal Recognition Particle (Srp) Involves Import of Srp Proteins into the Nucleolus, Assembly with the Srp-Rna, and Xpo1p-Mediated Export. <i>Journal of Cell Biology</i> , 2001, 153, 745-762.	5.2	128
13	Repression of <i>C. elegans</i> microRNA targets at the initiation level of translation requires GW182 proteins. <i>EMBO Journal</i> , 2009, 28, 213-222.	7.8	121
14	The let-7 microRNA Directs Vulval Development through a Single Target. <i>Developmental Cell</i> , 2015, 32, 335-344.	7.0	121
15	Regulating the regulators: mechanisms controlling the maturation of microRNAs. <i>Trends in Biotechnology</i> , 2009, 27, 27-36.	9.3	97
16	Targeted Heritable Mutation and Gene Conversion by Cas9-CRISPR in <i>Caenorhabditis elegans</i>. <i>Genetics</i> , 2013, 195, 1173-1176.	2.9	95
17	A quantitative targeted proteomics approach to validate predicted microRNA targets in <i>C. elegans</i> . <i>Nature Methods</i> , 2010, 7, 837-842.	19.0	80
18	The nuclear export receptor XPO-1 supports primary miRNA processing in <i>C. elegans</i> and <i>Drosophila</i> . <i>EMBO Journal</i> , 2010, 29, 1830-1839.	7.8	72

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19	Formation and nuclear export of tRNA, rRNA and mRNA is regulated by the ubiquitin ligase Rsp5p. <i>EMBO Reports</i> , 2003, 4, 1156-1162.	4.5	71
20	LIN41 Post-transcriptionally Silences mRNAs by Two Distinct and Position-Dependent Mechanisms. <i>Molecular Cell</i> , 2017, 65, 476-489.e4.	9.7	71
21	The intracellular location of two aminoacyl-tRNA synthetases depends on complex formation with Arc1p. <i>EMBO Journal</i> , 2001, 20, 6889-6898.	7.8	68
22	Review: Transport of tRNA out of the Nucleus – Direct Channeling to the Ribosome?. <i>Journal of Structural Biology</i> , 2000, 129, 288-294.	2.8	65
23	Bayesian prediction of RNA translation from ribosome profiling. <i>Nucleic Acids Research</i> , 2017, 45, gkw1350.	14.5	64
24	An interplay of miRNA abundance and target site architecture determines miRNA activity and specificity. <i>Nucleic Acids Research</i> , 2018, 46, 3259-3269.	14.5	62
25	The Decapping Scavenger Enzyme DCS-1 Controls MicroRNA Levels in <i>Caenorhabditis elegans</i> . <i>Molecular Cell</i> , 2013, 50, 281-287.	9.7	57
26	LIN-41/TRIM71: emancipation of a miRNA target. <i>Genes and Development</i> , 2013, 27, 581-589.	5.9	55
27	The let-7 microRNA interfaces extensively with the translation machinery to regulate cell differentiation. <i>Cell Cycle</i> , 2008, 7, 3083-3090.	2.6	53
28	Developmental function and state transitions of a gene expression oscillator in <i>Caenorhabditis elegans</i> . <i>Molecular Systems Biology</i> , 2020, 16, e9498.	7.2	53
29	Pus1p-dependent tRNA Pseudouridylation Becomes Essential When tRNA Biogenesis Is Compromised in Yeast. <i>Journal of Biological Chemistry</i> , 2001, 276, 46333-46339.	3.4	46
30	The multifunctional RNase XRN2. <i>Biochemical Society Transactions</i> , 2013, 41, 825-830.	3.4	46
31	Proteomics Joins the Search for MicroRNA Targets. <i>Cell</i> , 2008, 134, 560-562.	28.9	41
32	Timing mechanism of sexually dimorphic nervous system differentiation. <i>ELife</i> , 2019, 8, .	6.0	40
33	H3K9me selectively blocks transcription factor activity and ensures differentiated tissue integrity. <i>Nature Cell Biology</i> , 2021, 23, 1163-1175.	10.3	37
34	Transcriptome-wide measurement of ribosomal occupancy by ribosome profiling. <i>Methods</i> , 2015, 85, 75-89.	3.8	35
35	Two distinct transcription termination modes dictated by promoters. <i>Genes and Development</i> , 2017, 31, 1870-1879.	5.9	35
36	Evolutionary plasticity of the NHL domain underlies distinct solutions to RNA recognition. <i>Nature Communications</i> , 2018, 9, 1549.	12.8	35

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37	Engineering of a conditional allele reveals multiple roles of XRN2 in <i>Caenorhabditis elegans</i> development and substrate specificity in microRNA turnover. <i>Nucleic Acids Research</i> , 2014, 42, 4056-4067.	14.5	34
38	<i>let-7</i> coordinates the transition to adulthood through a single primary and four secondary targets. <i>Life Science Alliance</i> , 2019, 2, e201900335.	2.8	33
39	PAXT-1 Promotes XRN2 Activity by Stabilizing It through a Conserved Domain. <i>Molecular Cell</i> , 2014, 53, 351-360.	9.7	32
40	The RNA hairpin binder TRIM71 modulates alternative splicing by repressing MBNL1. <i>Genes and Development</i> , 2019, 33, 1221-1235.	5.9	31
41	The Liver-Specific MicroRNA miR-122: Biology and Therapeutic Potential. , 2011, , 221-238.		26
42	MicroRNases and the Regulated Degradation of Mature Animal miRNAs. <i>Advances in Experimental Medicine and Biology</i> , 2010, 700, 140-155.	1.6	25
43	The ribonucleotidyl transferase USIP-1 acts with SART3 to promote U6 snRNA recycling. <i>Nucleic Acids Research</i> , 2015, 43, 3344-3357.	14.5	22
44	Structural basis and function of XRN2 binding by XTB domains. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 164-171.	8.2	17
45	The type II poly(A)-binding protein PABP-2 genetically interacts with the <i>let-7</i> miRNA and elicits heterochronic phenotypes in <i>Caenorhabditis elegans</i> . <i>Nucleic Acids Research</i> , 2011, 39, 5647-5657.	14.5	16
46	A genetic interactome of the <i>let-7</i> microRNA in <i>C. elegans</i> . <i>Developmental Biology</i> , 2015, 401, 276-286.	2.0	15
47	XRN2 Autoregulation and Control of Polycistronic Gene Expression in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2016, 12, e1006313.	3.5	15
48	Nuclear Export of tRNA. <i>Results and Problems in Cell Differentiation</i> , 2002, 35, 115-131.	0.7	15
49	Protease-mediated processing of Argonaute proteins controls small RNA association. <i>Molecular Cell</i> , 2021, 81, 2388-2402.e8.	9.7	13
50	A branched heterochronic pathway directs juvenile-to-adult transition through two LIN-29 isoforms. <i>ELife</i> , 2020, 9, .	6.0	13
51	Coupling of growth rate and developmental tempo reduces body size heterogeneity in <i>C. elegans</i> . <i>Nature Communications</i> , 2022, 13, .	12.8	13
52	MicroRNases and the regulated degradation of mature animal miRNAs. <i>Advances in Experimental Medicine and Biology</i> , 2010, 700, 140-55.	1.6	12
53	MicroRNA Biogenesis Takes Another Single Hit from Microsatellite Instability. <i>Cancer Cell</i> , 2010, 18, 295-297.	16.8	11
54	Gene therapy “when a simple concept meets a complex reality. <i>Functional and Integrative Genomics</i> , 2000, 1, 142-145.	3.5	10

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55	Gene expression oscillations in <i>C. elegans</i> underlie a new developmental clock. <i>Current Topics in Developmental Biology</i> , 2021, 144, 19-43.	2.2	10
56	Turning the table on miRNAs. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 195-197.	8.2	6
57	miRNA, piRNA, siRNA – kleine wiener ribonukleinsäuren. <i>BioEssays</i> , 2007, 29, 940-943.	2.5	2
58	Translational Control of Endogenous MicroRNA Target Genes in <i>C. elegans</i> . <i>Progress in Molecular and Subcellular Biology</i> , 2010, 50, 21-40.	1.6	1
59	MicroRNAs in <i>C. elegans</i> Development. <i>Molecular Medicine and Biotechnology</i> , 2010, , 51-93.	0.4	0
60	Regulation of microRNAs. Preface. <i>Advances in Experimental Medicine and Biology</i> , 2010, 700, v-vi.	1.6	0