Gyorgy Hutvagner

List of Publications by Citations

62 papers	11,788 citations	31 h-index	66 g-index
66 ext. papers	12,867 ext. citations	9.2 avg, IF	6.54 L-index

#	Paper	IF	Citations
62	Asymmetry in the assembly of the RNAi enzyme complex. *Cell*, **2003**, 115, 199-208	56.2	2208
61	A cellular function for the RNA-interference enzyme Dicer in the maturation of the let-7 small temporal RNA. *Science*, **2001**, 293, 834-8	33.3	2200
60	A microRNA in a multiple-turnover RNAi enzyme complex. *Science*, **2002**, 297, 2056-60	33.3	1640
59	Argonaute proteins: key players in RNA silencing. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 22-32	48.7	931
58	Sequence-specific inhibition of small RNA function. *PLoS Biology*, **2004**, 2, E98	9.7	530
57	Filtering of deep sequencing data reveals the existence of abundant Dicer-dependent small RNAs derived from tRNAs. *Rna*, **2009**, 15, 2147-60	5.8	433
56	RNAi: nature abhors a double-strand. *Current Opinion in Genetics and Development*, **2002**, 12, 225-32	4.9	402
55	Evidence that siRNAs function as guides, not primers, in the Drosophila and human RNAi pathways. *Molecular Cell*, **2002**, 10, 537-48	17.6	395
54	Principles and effects of microRNA-mediated post-transcriptional gene regulation. *Oncogene*, **2006**, 25, 6163-9	9.2	355
53	Small RNAs derived from the 5Ưend of tRNA can inhibit protein translation in human cells. *RNA Biology*, **2013**, 10, 553-63	4.8	223
52	Integration of microRNA changes in vivo identifies novel molecular features of muscle insulin resistance in type 2 diabetes. *Genome Medicine*, **2010**, 2, 9	14.4	188
51	Regulation of the miR-212/132 locus by MSK1 and CREB in response to neurotrophins. *Biochemical Journal*, **2010**, 428, 281-91	3.8	173
50	Loss of miRNA biogenesis induces p19Arf-p53 signaling and senescence in primary cells. *Journal of Cell Biology*, **2008**, 181, 1055-63	7.3	150
49	tRNA-Derived Fragments (tRFs): Emerging New Roles for an Ancient RNA in the Regulation of Gene Expression. *Life*, **2015**, 5, 1638-51	3	147
48	Transfer RNA-derived fragments: origins, processing, and functions. *Wiley Interdisciplinary Reviews RNA*, **2011**, 2, 853-62	9.3	144
47	RNA-Based Therapeutics: From Antisense Oligonucleotides to miRNAs. *Cells*, **2020**, 9,	7.9	134
46	Polerovirus protein P0 prevents the assembly of small RNA-containing RISC complexes and leads to degradation of ARGONAUTE1. *Plant Journal*, **2010**, 62, 463-72	6.9	133

45	HSP90 protein stabilizes unloaded argonaute complexes and microscopic P-bodies in human cells. *Molecular Biology of the Cell*, **2010**, 21, 1462-9	3.5	122
44	Small RNA asymmetry in RNAi: function in RISC assembly and gene regulation. *FEBS Letters*, **2005**, 579, 5850-7	3.8	122
43	Long non-coding RNAs harboring miRNA seed regions are enriched in prostate cancer exosomes. *Scientific Reports*, **2016**, 6, 24922	4.9	117
42	Male-lineage transmission of an acquired metabolic phenotype induced by grand-paternal obesity. *Molecular Metabolism*, **2016**, 5, 699-708	8.8	104
41	miR-132/212 knockout mice reveal roles for these miRNAs in regulating cortical synaptic transmission and plasticity. *PLoS ONE*, **2013**, 8, e62509	3.7	103
40	The human Piwi protein Hiwi2 associates with tRNA-derived piRNAs in somatic cells. *Nucleic Acids Research*, **2014**, 42, 8984-95	20.1	102
39	Regulation of miRNA transcription in macrophages in response to Candida albicans. *PLoS ONE*, **2010**, 5, e13669	3.7	93
38	The ribosomal protein RACK1 is required for microRNA function in both C. elegans and humans. *EMBO Reports*, **2011**, 12, 581-6	6.5	61
37	Isolation and characterization of a water-stress-inducible cDNA clone from Solanum chacoense. *Plant Molecular Biology*, **1995**, 27, 587-95	4.6	55
36	Detailed characterization of the posttranscriptional gene-silencing-related small RNA in a GUS gene-silenced tobacco. *Rna*, **2000**, 6, 1445-54	5.8	49
35	RNA Binding Proteins in the miRNA Pathway. *International Journal of Molecular Sciences*, **2015**, 17,	6.3	48
34	tRNA-Derived RNA Fragments Associate with Human Multisynthetase Complex (MSC) and Modulate Ribosomal Protein Translation. *Journal of Proteome Research*, **2017**, 16, 413-420	5.6	47
33	Biogenesis and the regulation of the maturation of miRNAs. *Essays in Biochemistry*, **2013**, 54, 17-28	7.6	40
32	Regulation of miRNA processing and miRNA mediated gene repression in cancer. *MicroRNA (Shariqah, United Arab Emirates)*, **2014**, 3, 10-7	2.9	35
31	Natural variation of the amino-terminal glutamine-rich domain in Drosophila argonaute2 is not associated with developmental defects. *PLoS ONE*, **2010**, 5, e15264	3.7	26
30	Posttranslational modification of Argonautes and their role in small RNA-mediated gene regulation. *Silence: A Journal of RNA Regulation*, **2011**, 2, 5		24
29	Molecular markers associated with leptinine production are located on chromosome 1 in Solanum chacoense. *Theoretical and Applied Genetics*, **2001**, 102, 1065-1071	6	24
28	A cell cycle-coordinated Polymerase II transcription compartment encompasses gene expression before global genome activation. *Nature Communications*, **2019**, 10, 691	17.4	24

27	miRTar2GO: a novel rule-based model learning method for cell line specific microRNA target prediction that integrates Ago2 CLIP-Seq and validated microRNA-target interaction data. *Nucleic Acids Research*, **2017**, 45, e42	20.1	20
26	Sphingosine kinase 1 isoform-specific interactions in breast cancer. *Molecular Endocrinology*, **2014**, 28, 1899-915		20
25	Polypyrimidine tract binding protein (hnRNP I) is possibly a conserved modulator of miRNA-mediated gene regulation. *PLoS ONE*, **2012**, 7, e33144	3.7	18
24	An isomiR expression panel based novel breast cancer classification approach using improved mutual information. *BMC Medical Genomics*, **2018**, 11, 118	3.7	13
23	An evolutionarily conserved, alternatively spliced, intron in the p68/DDX5 DEAD-box RNA helicase gene encodes a novel miRNA. *Rna*, **2011**, 17, 555-62	5.8	12
22	Isolation and sequence analysis of a cDNA and a related gene for cytochrome P450 proteins from Solanum chacoense. *Gene*, **1997**, 188, 247-52	3.8	12
21	The loop structure and the RNA helicase p72/DDX17 influence the processing efficiency of the mice miR-132. *Scientific Reports*, **2016**, 6, 22848	4.9	12
20	Non-Coding RNAs in Pediatric Solid Tumors. *Frontiers in Genetics*, **2019**, 10, 798	4.5	10
19	MicroRNA (miRNA)-to-miRNA Regulation of Programmed Cell Death 4 (PDCD4). *Molecular and Cellular Biology*, **2019**, 39,	4.8	10
18	Rule discovery and distance separation to detect reliable miRNA biomarkers for the diagnosis of lung squamous cell carcinoma. *BMC Genomics*, **2014**, 15 Suppl 9, S16	4.5	10
17	Potato protein kinase StCPK1: a putative evolutionary link between CDPKs and CRKs. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1998**, 1442, 101-8		10
16	The miRNA biogenesis factors, p72/DDX17 and KHSRP regulate the protein level of Ago2 in human cells. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2016**, 1859, 1299-305	6	10
15	Another "loophole" in miRNA processing. *Molecular Cell*, **2011**, 44, 345-7	17.6	7
14	MicroRNAs and cancer: issue summary. *Oncogene*, **2006**, 25, 6154-6155	9.2	7
13	Computational analysis, biochemical purification, and detection of tRNA-derived small RNA fragments. *Methods in Molecular Biology*, **2014**, 1173, 157-67	1.4	6
12	Key MicroRNAs and Their Targetome in Adrenocortical Cancer. *Cancers*, **2020**, 12,	6.6	5
11	Single-cell multi-omics sequencing: application trends, COVID-19, data analysis issues and prospects. *Briefings in Bioinformatics*, **2021**, 22,	13.4	4
10	Construction of competing endogenous RNA networks from paired RNA-seq data sets by pointwise mutual information. *BMC Genomics*, **2019**, 20, 943	4.5	4

9	Comparative Molecular Analysis of Winter Wheat Cultivars and Their Doubled Haploid Derivatives. *Cereal Research Communications*, **2001**, 29, 41-48	1.1	3
8	Triple SILAC identified progestin-independent and dependent PRA and PRB interacting partners in breast cancer. *Scientific Data*, **2021**, 8, 100	8.2	3
7	Acetyl-□d-mannopyranose-based cationic polymer via RAFT polymerization for lectin and nucleic acid bindings. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	2
6	Sequencing dropout-and-batch effect normalization for single-cell mRNA profiles: a survey and comparative analysis. *Briefings in Bioinformatics*, **2021**, 22,	13.4	2
5	Cataloguing the small RNA content of honey using next generation sequencing.. *Food Chemistry Molecular Sciences*, **2021**, 2, 100014	1	2
4	Cell-penetrating peptides containing the progesterone receptor polyproline domain inhibits EGF signaling and cell proliferation in lung cancer cells.. *PLoS ONE*, **2022**, 17, e0264717	3.7	2
3	A cell cycle-coordinated nuclear compartment for Polymerase II transcription encompasses the earliest gene expression before global genome activation		1
2	Aberration-corrected ultrafine analysis of miRNA reads at single-base resolution: a k-mer lattice approach. *Nucleic Acids Research*, **2021**, 49, e106	20.1	1
1	Instance-based error correction for short reads of disease-associated genes. *BMC Bioinformatics*, **2021**, 22, 142	3.6	0