Gyorgy Hutvagner

List of Publications by Year
in descending order

64 papers	13,708 citations	147801 31 h-index	123424 61 g-index
66 all docs	66 docs citations	66 times ranked	14830 citing authors

#	Article	IF	Citations
1	Asymmetry in the Assembly of the RNAi Enzyme Complex. Cell, 2003, 115, 199-208.	28.9	2,486
2	A Cellular Function for the RNA-Interference Enzyme Dicer in the Maturation of the let-7 Small Temporal RNA. Science, 2001, 293, 834-838.	12.6	2,450
3	A microRNA in a Multiple-Turnover RNAi Enzyme Complex. Science, 2002, 297, 2056-2060.	12.6	1,844
4	Argonaute proteins: key players in RNA silencing. Nature Reviews Molecular Cell Biology, 2008, 9, 22-32.	37.0	1,150
5	Sequence-Specific Inhibition of Small RNA Function. PLoS Biology, 2004, 2, e98.	5.6	562
6	Filtering of deep sequencing data reveals the existence of abundant Dicer-dependent small RNAs derived from tRNAs. Rna, 2009, 15, 2147-2160.	3.5	525
7	RNAi: nature abhors a double-strand. Current Opinion in Genetics and Development, 2002, 12, 225-232.	3.3	451
8	Evidence that siRNAs Function as Guides, Not Primers, in the Drosophila and Human RNAi Pathways. Molecular Cell, 2002, 10, 537-548.	9.7	433
9	Principles and effects of microRNA-mediated post-transcriptional gene regulation. Oncogene, 2006, 25, 6163-6169.	5.9	391
10	Small RNAs derived from the 5â€² end of tRNA can inhibit protein translation in human cells. RNA Biology, 2013, 10, 553-563.	3.1	277
11	RNA-Based Therapeutics: From Antisense Oligonucleotides to miRNAs. Cells, 2020, 9, 137.	4.1	246
12	Integration of microRNA changes in vivo identifies novel molecular features of muscle insulin resistance in type 2 diabetes. Genome Medicine, 2010, 2, 9.	8.2	225
13	tRNA-Derived Fragments (tRFs): Emerging New Roles for an Ancient RNA in the Regulation of Gene Expression. Life, 2015, 5, 1638-1651.	2.4	202
14	Regulation of the miR-212/132 locus by MSK1 and CREB in response to neurotrophins. Biochemical Journal, 2010, 428, 281-291.	3.7	195
15	Polerovirus protein P0 prevents the assembly of small RNA-containing RISC complexes and leads to degradation of ARGONAUTE1. Plant Journal, 2010, 62, 463-472.	5.7	173
16	Loss of miRNA biogenesis induces p19Arf-p53 signaling and senescence in primary cells. Journal of Cell Biology, 2008, 181, 1055-1063.	5.2	163
17	Transfer RNAâ€derived fragments: origins, processing, and functions. Wiley Interdisciplinary Reviews RNA, 2011, 2, 853-862.	6.4	163
18	Male-lineage transmission of an acquired metabolic phenotype induced by grand-paternal obesity. Molecular Metabolism, 2016, 5, 699-708.	6.5	154

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19	Small RNA asymmetry in RNAi: Function in RISC assembly and gene regulation. FEBS Letters, 2005, 579, 5850-5857.	2.8	144
20	Long non-coding RNAs harboring miRNA seed regions are enriched in prostate cancer exosomes. Scientific Reports, 2016, 6, 24922.	3.3	144
21	HSP90 Protein Stabilizes Unloaded Argonaute Complexes and Microscopic P-bodies in Human Cells. Molecular Biology of the Cell, 2010, 21, 1462-1469.	2.1	143
22	The human Piwi protein Hiwi2 associates with tRNA-derived piRNAs in somatic cells. Nucleic Acids Research, 2014, 42, 8984-8995.	14.5	129
23	miR-132/212 Knockout Mice Reveal Roles for These miRNAs in Regulating Cortical Synaptic Transmission and Plasticity. PLoS ONE, 2013, 8, e62509.	2.5	122
24	Regulation of miRNA Transcription in Macrophages in Response to Candida albicans. PLoS ONE, 2010, 5, e13669.	2.5	106
25	tRNA-Derived RNA Fragments Associate with Human Multisynthetase Complex (MSC) and Modulate Ribosomal Protein Translation. Journal of Proteome Research, 2017, 16, 413-420.	3.7	72
26	The ribosomal protein RACK1 is required for microRNA function in both C. elegans and humans. EMBO Reports, 2011, 12, 581-586.	4.5	70
27	Isolation and characterization of a water-stress-inducible cDNA clone from Solanum chacoense. Plant Molecular Biology, 1995, 27, 587-595.	3.9	67
28	RNA Binding Proteins in the miRNA Pathway. International Journal of Molecular Sciences, 2016, 17, 31.	4.1	63
29	Detailed characterization of the posttranscriptional gene-silencing-related small RNA in a GUS gene-silenced tobacco. Rna, 2000, 6, 1445-1454.	3.5	54
30	Regulation of miRNA Processing and miRNA Mediated Gene Repression in Cancer. MicroRNA (Shariqah,) Tj ETQq0 0 0 rgBT /Overlock 10	1.2	43
31	Biogenesis and the regulation of the maturation of miRNAs. Essays in Biochemistry, 2013, 54, 17-28.	4.7	42
32	A cell cycle-coordinated Polymerase II transcription compartment encompasses gene expression before global genome activation. Nature Communications, 2019, 10, 691.	12.8	42
33	Natural Variation of the Amino-Terminal Glutamine-Rich Domain in Drosophila Argonaute2 Is Not Associated with Developmental Defects. PLoS ONE, 2010, 5, e15264.	2.5	32
34	Posttranslational modification of Argonautes and their role in small RNA-mediated gene regulation. Silence: A Journal of RNA Regulation, 2011, 2, 5.	8.1	28
35	miRTar2GO: a novel rule-based model learning method for cell line specific microRNA target prediction that integrates Ago2 CLIP-Seq and validated microRNAâ€“target interaction data. Nucleic Acids Research, 2017, 45, e42-e42.	14.5	28
36	Molecular markers associated with leptinine production are located on chromosome 1 in Solanum chacoense. Theoretical and Applied Genetics, 2001, 102, 1065-1071.	3.6	26

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37	Polypyrimidine Tract Binding Protein (hnRNP I) Is Possibly a Conserved Modulator of miRNA-Mediated Gene Regulation. PLoS ONE, 2012, 7, e33144.	2.5	22
38	Sphingosine Kinase 1 Isoform-Specific Interactions in Breast Cancer. Molecular Endocrinology, 2014, 28, 1899-1915.	3.7	21
39	MicroRNA (miRNA)-to-miRNA Regulation of Programmed Cell Death 4 (PDCD4). Molecular and Cellular Biology, 2019, 39, .	2.3	18
40	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, 1299-1305.	1.9	16
41	An isomiR expression panel based novel breast cancer classification approach using improved mutual information. BMC Medical Genomics, 2018, 11, 118.	1.5	16
42	The loop structure and the RNA helicase p72/DDX17 influence the processing efficiency of the mice miR-132. Scientific Reports, 2016, 6, 22848.	3.3	15
43	Key MicroRNAâ€™s and Their Targetome in Adrenocortical Cancer. Cancers, 2020, 12, 2198.	3.7	15
44	Isolation and sequence analysis of a cDNA and a related gene for cytochrome P450 proteins from Solanum chacoense. Gene, 1997, 188, 247-252.	2.2	14
45	Single-cell multi-omics sequencing: application trends, COVID-19, data analysis issues and prospects. Briefings in Bioinformatics, 2021, 22, .	6.5	14
46	An evolutionarily conserved, alternatively spliced, intron in the p68/DDX5 DEAD-box RNA helicase gene encodes a novel miRNA. Rna, 2011, 17, 555-562.	3.5	13
47	Non-Coding RNAs in Pediatric Solid Tumors. Frontiers in Genetics, 2019, 10, 798.	2.3	13
48	Potato protein kinase StCPK1: a putative evolutionary link between CDPKs and CRKs. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1442, 101-108.	2.4	10
49	Rule discovery and distance separation to detect reliable miRNA biomarkers for the diagnosis of lung squamous cell carcinoma. BMC Genomics, 2014, 15, S16.	2.8	10
50	Cell-penetrating peptides containing the progesterone receptor polyproline domain inhibits EGF signaling and cell proliferation in lung cancer cells. PLoS ONE, 2022, 17, e0264717.	2.5	9
51	MicroRNAs and cancer: issue summary. Oncogene, 2006, 25, 6154-6155.	5.9	8
52	Another â€œLoopholeâ€•in miRNA Processing. Molecular Cell, 2011, 44, 345-347.	9.7	7
53	Cataloguing the small RNA content of honey using next generation sequencing. Food Chemistry Molecular Sciences, 2021, 2, 100014.	2.1	7
54	Computational Analysis, Biochemical Purification, and Detection of tRNA-Derived Small RNA Fragments. Methods in Molecular Biology, 2014, 1173, 157-167.	0.9	7

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55	Comparative Molecular Analysis of Winter Wheat Cultivars and Their Doubled Haploid Derivatives. Cereal Research Communications, 2001, 29, 41-48.	1.6	6
56	Construction of competing endogenous RNA networks from paired RNA-seq data sets by pointwise mutual information. BMC Genomics, 2019, 20, 943.	2.8	5
57	Triple SILAC identified progestin-independent and dependent PRA and PRB interacting partners in breast cancer. Scientific Data, 2021, 8, 100.	5.3	5
58	Sequencing dropout-and-batch effect normalization for single-cell mRNA profiles: a survey and comparative analysis. Briefings in Bioinformatics, 2020, 22, .	6.5	4
59	Aberration-corrected ultrafine analysis of miRNA reads at single-base resolution: a k-mer lattice approach. Nucleic Acids Research, 2021, 49, e106-e106.	14.5	4
60	Acetylâ€Î±â€<scp>d</scp>â€mannopyranoseâ€based cationic polymer via RAFT polymerization for lectin and nucleic acid bindings. Journal of Applied Polymer Science, 2017, 134, .	2.6	2
61	Instance-based error correction for short reads of disease-associated genes. BMC Bioinformatics, 2021, 22, 142.	2.6	1
62	Biography of Dr Gyorgy Hutvagner. Oncogene, 2006, 25, 6153-6153.	5.9	0
63	Destabilisation of Argonaute 2 generates a truncated protein: halfAgo2. Matters, 0, , .	1.0	0
64	Simultaneous compression of multiple error-corrected short-read sets for faster data transmission and better de novo assemblies. Briefings in Functional Genomics, 0, , .	2.7	0