Tamas Dalmay

List of Publications by Year
in descending order

137	12,978	28190	24915
papers	citations	55 h-index	109 g-index

143	143	143	14700
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An RNA-Dependent RNA Polymerase Gene in Arabidopsis Is Required for Posttranscriptional Gene Silencing Mediated by a Transgene but Not by a Virus. Cell, 2000, 101, 543-553.	13.5	956
2	RNA Polymerase IV Directs Silencing of Endogenous DNA. Science, 2005, 308, 118-120.	6.0	647
3	Rapid transcriptional plasticity of duplicated gene clusters enables a clonally reproducing aphid to colonise diverse plant species. Genome Biology, 2017, 18, 27.	3.8	624
4	Mutations in the seed region of human miR-96 are responsible for nonsyndromic progressive hearing loss. Nature Genetics, 2009, 41, 609-613.	9.4	483
5	Deep sequencing of tomato short RNAs identifies microRNAs targeting genes involved in fruit ripening. Genome Research, 2008, 18, 1602-1609.	2.4	423
6	The cartilage specific microRNA-140 targets histone deacetylase 4 in mouse cells. FEBS Letters, 2006, 580, 4214-4217.	1.3	384
7	Sulphur starvation induces the expression of microRNAâ€395 and one of its target genes but in different cell types. Plant Journal, 2009, 57, 313-321.	2.8	377
8	miR398 and miR408 are up-regulated in response to water deficit in Medicago truncatula. Planta, 2010, 231, 705-716.	1.6	356
9	MicroRNAs and the hallmarks of cancer. Oncogene, 2006, 25, 6170-6175.	2.6	344
10	Identification of grapevine microRNAs and their targets using high throughput sequencing and degradome analysis. Plant Journal, 2010, 62, 960-76.	2.8	335
11	The genomes of two key bumblebee species with primitive eusocial organization. Genome Biology, 2015, 16, 76.	3.8	330
12	SDE3 encodes an RNA helicase required for post-transcriptional gene silencing in Arabidopsis. EMBO Journal, 2001, 20, 2069-2078.	3.5	306
13	The UEA sRNA workbench: a suite of tools for analysing and visualizing next generation sequencing microRNA and small RNA datasets. Bioinformatics, 2012, 28, 2059-2061.	1.8	301
14	A toolkit for analysing large-scale plant small RNA datasets. Bioinformatics, 2008, 24, 2252-2253.	1.8	299
15	An ENU-induced mutation of miR-96 associated with progressive hearing loss in mice. Nature Genetics, 2009, 41, 614-618.	9.4	281
16	High-throughput sequencing of Medicago truncatula short RNAs identifies eight new miRNA families. BMC Genomics, 2008, 9, 593.	1.2	248
17	Specific requirements of MRFs for the expression of muscle specific microRNAs, miR-1, miR-206 and miR-133. Developmental Biology, 2008, 321, 491-499.	0.9	239
18	The role of small RNAs in abiotic stress. FEBS Letters, 2007, 581, 3592-3597.	1.3	217

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19	The expression and function of microRNAs in chondrogenesis and osteoarthritis. Arthritis and Rheumatism, 2012, 64, 1909-1919.	6.7	204
20	Interplay of SLIM1 and miR395 in the regulation of sulfate assimilation in Arabidopsis. Plant Journal, 2011, 66, 863-876.	2.8	189
21	Reducing ligation bias of small RNAs in libraries for next generation sequencing. Silence: A Journal of RNA Regulation, 2012, 3, 4.	8.0	176
22	Potato Virus X Amplicons in Arabidopsis Mediate Genetic and Epigenetic Gene Silencing. Plant Cell, 2000, 12, 369-379.	3.1	174
23	The p122 Subunit of Tobacco Mosaic Virus Replicase Is a Potent Silencing Suppressor and Compromises both Small Interfering RNA- and MicroRNA-Mediated Pathways. Journal of Virology, 2007, 81, 11768-11780.	1.5	157
24	Embryonic temperature affects muscle fibre recruitment in adult zebrafish: genome-wide changes in gene and microRNA expression associated with the transition from hyperplastic to hypertrophic growth phenotypes. Journal of Experimental Biology, 2009, 212, 1781-1793.	0.8	148
25	Profiling of short RNAs during fleshy fruit development reveals stageâ€specific sRNAome expression patterns. Plant Journal, 2011, 67, 232-246.	2.8	138
26	Deep Sequencing of Viroid-Derived Small RNAs from Grapevine Provides New Insights on the Role of RNA Silencing in Plant-Viroid Interaction. PLoS ONE, 2009, 4, e7686.	1.1	130
27	Structural and Functional Analysis of Viral siRNAs. PLoS Pathogens, 2010, 6, e1000838.	2.1	128
28	Mechanism of miRNA-mediated repression of mRNA translation. Essays in Biochemistry, 2013, 54, 29-38.	2.1	128
29	Analysis of short RNAs in the malaria parasite and its red blood cell host. FEBS Letters, 2006, 580, 5185-5188.	1.3	124
30	MicroRNAs and cancer. Journal of Internal Medicine, 2008, 263, 366-375.	2.7	117
31	Regulation of multiple target genes by miR-1 and miR-206 is pivotal for C2C12 myoblast differentiation. Journal of Cell Science, 2012, 125, 3590-3600.	1.2	117
32	MicroRNA regulation of the paired-box transcription factor Pax3 confers robustness to developmental timing of myogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11936-11941.	3.3	110
33	Deep sequencing analysis of viral short RNAs from an infected Pinot Noir grapevine. Virology, 2010, 408, 49-56.	1.1	109
34	Regulation of Leaf Morphology by MicroRNA394 and its Target LEAF CURLING RESPONSIVENESS. Plant and Cell Physiology, 2012, 53, 1283-1294.	1.5	107
35	Analyzing mRNA expression identifies Smad3 as a microRNA-140 target regulated only at protein level. Rna, 2010, 16, 489-494.	1.6	106
36	The microRNA-29 family in cartilage homeostasis and osteoarthritis. Journal of Molecular Medicine, 2016, 94, 583-596.	1.7	106

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37	Chromosomal-Level Assembly of the Asian Seabass Genome Using Long Sequence Reads and Multi-layered Scaffolding. PLoS Genetics, 2016, 12, e1005954.	1.5	105
38	Functional Analysis of Cymbidium Ringspot Virus Genome. Virology, 1993, 194, 697-704.	1.1	104
39	Endogenous short RNAs generated by Dicer 2 and RNA-dependent RNA polymerase 1 regulate mRNAs in the basal fungus Mucor circinelloides. Nucleic Acids Research, 2010, 38, 5535-5541.	6.5	104
40	Experimental identification of microRNA-140 targets by silencing and overexpressing miR-140. Rna, 2008, 14, 2513-2520.	1.6	102
41	miR395 is a general component of the sulfate assimilation regulatory network in Arabidopsis. FEBS Letters, 2012, 586, 3242-3248.	1.3	102
42	Identification of new central nervous system specific mouse microRNAs. FEBS Letters, 2006, 580, 2195-2200.	1.3	100
43	miR-338-3p is over-expressed in blood, CFS, serum and spinal cord from sporadic amyotrophic lateral sclerosis patients. Neurogenetics, 2014, 15, 243-253.	0.7	99
44	PAREsnip: a tool for rapid genome-wide discovery of small RNA/target interactions evidenced through degradome sequencing. Nucleic Acids Research, 2012, 40, e103-e103.	6.5	96
45	Cloning and sequencing of potato virus Y (Hungarian isolate) genomic RNA. Gene, 1993, 123, 149-156.	1.0	94
46	Identification of novel small RNAs in tomato (Solanum lycopersicum). Planta, 2007, 226, 709-717.	1.6	90
47	Diverse correlation patterns between microRNAs and their targets during tomato fruit development indicates different modes of microRNA actions. Planta, 2012, 236, 1875-1887.	1.6	90
48	FGF-4 signaling is involved in mir-206 expression in developing somites of chicken embryos. Developmental Dynamics, 2006, 235, 2185-2191.	0.8	82
49	SDE5, the putative homologue of a human mRNA export factor, is required for transgene silencing and accumulation of trans-acting endogenous siRNA. Plant Journal, 2007, 50, 140-148.	2.8	74
50	Evidence for targeting common siRNA hotspots and GC preference by plant Dicer-like proteins. FEBS Letters, 2007, 581, 3267-3272.	1.3	67
51	Biogenesis of Y RNAâ€derived small RNAs is independent of the microRNA pathway. FEBS Letters, 2012, 586, 1226-1230.	1.3	67
52	Ambient temperature regulates the expression of a small set of sRNAs influencing plant development through NFâ€YA2 and YUC2. Plant, Cell and Environment, 2018, 41, 2404-2417.	2.8	67
53	High throughput sequencing of microRNAs in chicken somites. FEBS Letters, 2009, 583, 1422-1426.	1.3	62
54	A simplified method for cloning of short interfering RNAs from Brassica juncea infected with Turnip mosaic potyvirus and Turnip crinkle carmovirus. Journal of Virological Methods, 2006, 136, 217-223.	1.0	58

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55	Identification of miRNAs with potential roles in regulation of anther development and male-sterility in 7B-1 male-sterile tomato mutant. BMC Genomics, 2015, 16, 878.	1.2	58
56	A Non-canonical RNA Silencing Pathway Promotes mRNA Degradation in Basal Fungi. PLoS Genetics, 2015, 11, e1005168.	1.5	57
57	Identification of grapevine microRNAs and their targets using high-throughput sequencing and degradome analysis. Plant Journal, 2010, 62, no-no.	2.8	53
58	A Single Argonaute Gene Participates in Exogenous and Endogenous RNAi and Controls Cellular Functions in the Basal Fungus Mucor circinelloides. PLoS ONE, 2013, 8, e69283.	1.1	53
59	Transfer RNA-derived small RNAs in the cancer transcriptome. Pflugers Archiv European Journal of Physiology, 2016, 468, 1041-1047.	1.3	52
60	The UEA sRNA Workbench (version 4.4): a comprehensive suite of tools for analyzing miRNAs and sRNAs. Bioinformatics, 2018, 34, 3382-3384.	1.8	50
61	miRCat2: accurate prediction of plant and animal microRNAs from next-generation sequencing datasets. Bioinformatics, 2017, 33, 2446-2454.	1.8	49
62	Defective Interfering RNA-Mediated Resistance against Cymbidium Ringspot Tombusvirus in Transgenic Plants. Virology, 1993, 193, 313-318.	1.1	48
63	Evolution of flower color pattern through selection on regulatory small RNAs. Science, 2017, 358, 925-928.	6.0	48
64	Genomic responses to the socio-sexual environment in male Drosophila melanogaster exposed to conspecific rivals. Rna, 2017, 23, 1048-1059.	1.6	47
65	Characterisation and expression of microRNAs in developing wings of the neotropical butterfly Heliconius melpomene. BMC Genomics, 2011, 12, 62.	1.2	44
66	Replication and Movement of a Coat Protein Mutant of Cymbidium Ringspot Tombusvirus. Molecular Plant-Microbe Interactions, 1992, 5, 379.	1.4	41
67	Repair in Vivo of Altered 3â€² Terminus of Cymbidium Ringspot Tombusvirus RNA. Virology, 1993, 192, 551-555.	1.1	40
68	Detecting new microRNAs in human osteoarthritic chondrocytes identifies miR-3085 as a human, chondrocyte-selective, microRNA. Osteoarthritis and Cartilage, 2016, 24, 534-543.	0.6	38
69	MicroRNAs Influence Reproductive Responses by Females to Male Sex Peptide in Drosophila melanogaster. Genetics, 2014, 198, 1603-1619.	1.2	36
70	Y RNAs: recent developments. Biomolecular Concepts, 2013, 4, 103-110.	1.0	35
71	In Situ Detection of Animal and Plant MicroRNAs. DNA and Cell Biology, 2007, 26, 251-255.	0.9	34
72	Molecular characterization of a novel ssRNA ourmia-like virus from the rice blast fungus Magnaporthe oryzae. Archives of Virology, 2017, 162, 891-895.	0.9	33

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73	MicroRNAs Associated with Caste Determination and Differentiation in a Primitively Eusocial Insect. Scientific Reports, 2017, 7, 45674.	1.6	32
74	PAREsnip2: a tool for high-throughput prediction of small RNA targets from degradome sequencing data using configurable targeting rules. Nucleic Acids Research, 2018, 46, 8730-8739.	6.5	31
75	Localization of cis-acting sequences essential for cymbidium ringspot tombusvirus defective interfering RNA replication. Journal of General Virology, 1995, 76, 2311-2316.	1.3	30
76	Profile and functional analysis of small RNAs derived from Aspergillus fumigatus infected with double-stranded RNA mycoviruses. BMC Genomics, 2017, 18, 416.	1.2	30
77	The cytoskeleton adaptor protein ankyrin-1 is upregulated by p53 following DNA damage and alters cell migration. Cell Death and Disease, 2016, 7, e2184-e2184.	2.7	29
78	Comprehensive processing of high-throughput small RNA sequencing data including quality checking, normalization, and differential expression analysis using the UEA sRNA Workbench. Rna, 2017, 23, 823-835.	1.6	29
79	Deciphering the diversity of small RNAs in plants: the long and short of it. Briefings in Functional Genomics & Proteomics, 2009, 8, 472-481.	3.8	28
80	CoLIde. RNA Biology, 2013, 10, 1221-1230.	1.5	28
81	Microguards and micromessengers of the genome. Heredity, 2016, 116, 125-134.	1.2	28
82	Implementing the sterile insect technique with <scp>RNA</scp> interference â€“ a review. Entomologia Experimentalis Et Applicata, 2017, 164, 155-175.	0.7	27
83	Short RNAs in Tomato. Journal of Integrative Plant Biology, 2010, 52, 388-392.	4.1	25
84	Comparison of alternative approaches for analysing multi-level RNA-seq data. PLoS ONE, 2017, 12, e0182694.	1.1	25
85	Role of miR-140 in embryonic bone development and cancer. Clinical Science, 2015, 129, 863-873.	1.8	24
86	Molecular insights into an ancient form of Pagetâ€™s disease of bone. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10463-10472.	3.3	24
87	Transcriptional regulation of male-sterility in 7B-1 male-sterile tomato mutant. PLoS ONE, 2017, 12, e0170715.	1.1	24
88	Generation of Defective Interfering RNA Dimers of Cymbidium Ringspot Tombusvirus. Virology, 1995, 207, 510-517.	1.1	23
89	Evidence for GC preference by monocot Dicer-like proteins. Biochemical and Biophysical Research Communications, 2008, 368, 433-437.	1.0	23
90	microRNA-449 is a putative regulator of choroid plexus development and function. Brain Research, 2009, 1250, 20-26.	1.1	22

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91	Nucleotide bias of DCL and AGO in plant anti-virus gene silencing. Protein and Cell, 2010, 1, 847-858.	4.8	22
92	MirPlex: A Tool for Identifying miRNAs in Highâ€Throughput sRNA Datasets Without a Genome. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2013, 320, 47-56.	0.6	22
93	microRNAs associated with early neural crest development in Xenopus laevis. BMC Genomics, 2018, 19, 59.	1.2	22
94	Secondary structure-dependent evolution of Cymbidium ringspot virus defective interfering RNA.. Journal of General Virology, 1997, 78, 1227-1234.	1.3	22
95	Global discovery and characterization of small non-coding RNAs in marine microalgae. BMC Genomics, 2014, 15, 697.	1.2	21
96	A Database of microRNA Expression Patterns in Xenopus laevis. PLoS ONE, 2015, 10, e0138313.	1.1	21
97	Targeting the MAPK7/MMP9 axis for metastasis in primary bone cancer. Oncogene, 2020, 39, 5553-5569.	2.6	20
98	Efficient pathogen-derived resistance induced by integrated potato virus Y coat protein gene in tobacco. Biochimie, 1993, 75, 623-629.	1.3	19
99	The replication of cymbidium ringspot tombusvirus defective interfering-satellite RNA hybrid molecules. Virology, 1992, 190, 579-586.	1.1	18
100	microRNA-seq of cartilage reveals an overabundance of miR-140-3p which contains functional isomiRs. Rna, 2020, 26, 1575-1588.	1.6	17
101	Tobacco RNA-dependent RNA polymerase 1 affects the expression of defence-related genes in Nicotiana benthamiana upon Tomato leaf curl Gujarat virus infection. Planta, 2020, 252, 11.	1.6	16
102	Small RNA Profile in Moso Bamboo Root and Leaf Obtained by High Definition Adapters. PLoS ONE, 2014, 9, e103590.	1.1	16
103	Control of seminal fluid protein expression via regulatory hubs in Drosophila melanogaster. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181681.	1.2	15
104	An improved protocol for small RNA library construction using High Definition adapters. Methods in Next Generation Sequencing, 2015, 2, .	1.5	14
105	Identification of genes targeted by microRNAs. Biochemical Society Transactions, 2008, 36, 1194-1196.	1.6	13
106	MicroRNA Regulation of Abiotic Stress Response in 7Bâ€1 Maleâ€Sterile Tomato Mutant. Plant Genome, 2015, 8, eplantgenome2015.02.0008.	1.6	12
107	High sensitivity and label-free oligonucleotides detection using photonic bandgap sensing structures biofunctionalized with molecular beacon probes. Biomedical Optics Express, 2018, 9, 1717.	1.5	12
108	Small RNA populations revealed by blocking rRNA fragments in Drosophila melanogaster reproductive tissues. PLoS ONE, 2018, 13, e0191966.	1.1	12

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109	Small RNA Analysis in Sindbis Virus Infected Human HEK293 Cells. PLoS ONE, 2013, 8, e84070.	1.1	11
110	Artificially induced phased siRNAs promote virus resistance in transgenic plants. Virology, 2019, 537, 208-215.	1.1	11
111	Expression of homologous and heterologous viral coat protein-encoding genes using recombinant DI RNA from cymbidium ringspot tombusvirus. Gene, 1994, 138, 159-163.	1.0	10
112	RNA Silencing: Recent Developments on miRNAs. Recent Patents on DNA & Gene Sequences, 2009, 3, 77-87.	0.7	9
113	High-throughput-sequencing-based identification of a grapevine fanleaf virus satellite RNA in Vitis vinifera. Archives of Virology, 2016, 161, 1401-1403.	0.9	9
114	miR-7b-3p Exerts a Dual Role After Spinal Cord Injury, by Supporting Plasticity and Neuroprotection at Cortical Level. Frontiers in Molecular Biosciences, 2021, 8, 618869.	1.6	9
115	Experimental study of the evanescentâ€wave photonic sensors response in presence of molecular beacon conformational changes. Journal of Biophotonics, 2018, 11, e201800030.	1.1	8
116	Gene expression during larval caste determination and differentiation in intermediately eusocial bumblebees, and a comparative analysis with advanced eusocial honeybees. Molecular Ecology, 2021, 30, 718-735.	2.0	8
117	Size-dependent cell-to-cell movement of defective interfering RNAs of Cymbidium ringspot virus. Journal of General Virology, 2002, 83, 1505-1510.	1.3	8
118	Discovery of novel small RNAs in the quest to unravel genome complexity. Biochemical Society Transactions, 2013, 41, 866-870.	1.6	7
119	miR-16 is highly expressed in Pagetâ€™s associated osteosarcoma. Endocrine-Related Cancer, 2017, 24, L27-L31.	1.6	7
120	MicroRNA expression in a phosphaturic mesenchymal tumour. Bone Reports, 2017, 7, 63-69.	0.2	7
121	Recent Patents in RNA Silencing in Plants: Constructs, Methods and Applications in Plant Biotechnology. Recent Patents on DNA & Gene Sequences, 2010, 4, 155-166.	0.7	6
122	Small RNA Discovery and Characterisation in Eukaryotes Using High-Throughput Approaches. Advances in Experimental Medicine and Biology, 2011, 722, 239-254.	0.8	6
123	FiRePatâ€”Finding Regulatory Patterns between sRNAs and Genes. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2012, 2, 273-284.	4.6	6
124	Detection of miRNA cancer biomarkers using light activated Molecular Beacons. RSC Advances, 2019, 9, 12766-12783.	1.7	6
125	The nature of multimeric forms of cymbidium ringspot tombusvirus satellite RNA. Archives of Virology, 1994, 138, 161-167.	0.9	5
126	Silencing Human Cancer: Identification and Uses of MicroRNAs. Recent Patents on Anti-Cancer Drug Discovery, 2011, 6, 94-105.	0.8	5

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127	New Evidence Supports the Notion that MicroRNAâ€140 May Play a Role in the Early Stages of Bone Development. Arthritis and Rheumatism, 2013, 65, 1668-1669.	6.7	5
128	The role of microRNA-3085 in chondrocyte function. Scientific Reports, 2020, 10, 21923.	1.6	5
129	Consequences of gene transfer between distantly related tombusviruses. Gene, 1993, 129, 191-196.	1.0	4
130	Mechanistic insights into non-coding Y RNA processing. RNA Biology, 2022, 19, 468-480.	1.5	3
131	Virus-induced Gene Silencing. , 0, , 223-243.		1
132	Detection of Small Non-coding RNAs. Methods in Molecular Biology, 2010, 655, 265-274.	0.4	1
133	Maternally expressed, paternally imprinted, embryonic non-coding RNA are expressed in osteosarcoma, Ewing sarcoma and spindle cell sarcoma. Pathology, 2019, 51, 113-116.	0.3	1
134	Regulation of multiple target genes by miR-1 and miR-206 is pivotal for C2C12 myoblast differentiation. Development (Cambridge), 2012, 139, e1-e1.	1.2	1
135	MicroRNA. , 2011, , 2303-2305.		0
136	MicroRNA. , 2015, , 1-3.		0
137	MicroRNA. , 2015, , 2840-2841.		0