Tamas Dalmay

List of Publications by Citations

136 papers	10,487 citations	53 h-index	101 g-index
143 ext. papers	12,037 ext. citations	6.7 avg, IF	6.06 L-index

#	Paper	IF	Citations
136	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, 543-53	56.2	859
135	RNA polymerase IV directs silencing of endogenous DNA. *Science*, **2005**, 308, 118-20	33.3	579
134	Mutations in the seed region of human miR-96 are responsible for nonsyndromic progressive hearing loss. *Nature Genetics*, **2009**, 41, 609-13	36.3	418
133	Deep sequencing of tomato short RNAs identifies microRNAs targeting genes involved in fruit ripening. *Genome Research*, **2008**, 18, 1602-9	9.7	387
132	The cartilage specific microRNA-140 targets histone deacetylase 4 in mouse cells. *FEBS Letters*, **2006**, 580, 4214-7	3.8	331
131	Sulphur starvation induces the expression of microRNA-395 and one of its target genes but in different cell types. *Plant Journal*, **2009**, 57, 313-21	6.9	328
130	miR398 and miR408 are up-regulated in response to water deficit in Medicago truncatula. *Planta*, **2010**, 231, 705-16	4.7	303
129	MicroRNAs and the hallmarks of cancer. *Oncogene*, **2006**, 25, 6170-5	9.2	291
128	Identification of grapevine microRNAs and their targets using high-throughput sequencing and degradome analysis. *Plant Journal*, **2010**, 62, 960-76	6.9	278
127	SDE3 encodes an RNA helicase required for post-transcriptional gene silencing in Arabidopsis. *EMBO Journal*, **2001**, 20, 2069-78	13	271
126	An ENU-induced mutation of miR-96 associated with progressive hearing loss in mice. *Nature Genetics*, **2009**, 41, 614-8	36.3	249
125	A toolkit for analysing large-scale plant small RNA datasets. *Bioinformatics*, **2008**, 24, 2252-3	7.2	233
124	The UEA sRNA workbench: a suite of tools for analysing and visualizing next generation sequencing microRNA and small RNA datasets. *Bioinformatics*, **2012**, 28, 2059-61	7.2	232
123	The genomes of two key bumblebee species with primitive eusocial organization. *Genome Biology*, **2015**, 16, 76	18.3	229
122	High-throughput sequencing of Medicago truncatula short RNAs identifies eight new miRNA families. *BMC Genomics*, **2008**, 9, 593	4.5	227
121	Specific requirements of MRFs for the expression of muscle specific microRNAs, miR-1, miR-206 and miR-133. *Developmental Biology*, **2008**, 321, 491-9	3.1	209
120	Rapid transcriptional plasticity of duplicated gene clusters enables a clonally reproducing aphid to colonise diverse plant species. *Genome Biology*, **2017**, 18, 27	18.3	208

119	The role of small RNAs in abiotic stress. *FEBS Letters*, **2007**, 581, 3592-7	3.8	189
118	The expression and function of microRNAs in chondrogenesis and osteoarthritis. *Arthritis and Rheumatism*, **2012**, 64, 1909-19		167
117	Potato virus X amplicons in arabidopsis mediate genetic and epigenetic gene silencing. *Plant Cell*, **2000**, 12, 369-79	11.6	160
116	Interplay of SLIM1 and miR395 in the regulation of sulfate assimilation in Arabidopsis. *Plant Journal* , **2011**, 66, 863-76	6.9	159
115	Reducing ligation bias of small RNAs in libraries for next generation sequencing. *Silence: A Journal of RNA Regulation*, **2012**, 3, 4		140
114	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, 11768-80	6.6	135
113	Profiling of short RNAs during fleshy fruit development reveals stage-specific sRNAome expression patterns. *Plant Journal*, **2011**, 67, 232-46	6.9	119
112	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, 1781-93	3	118
111	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	3.7	116
110	Structural and functional analysis of viral siRNAs. *PLoS Pathogens*, **2010**, 6, e1000838	7.6	113
109	Analysis of short RNAs in the malaria parasite and its red blood cell host. *FEBS Letters*, **2006**, 580, 5185-83.8		110
108	MicroRNAs and cancer. *Journal of Internal Medicine*, **2008**, 263, 366-75	10.8	107
107	Mechanism of miRNA-mediated repression of mRNA translation. *Essays in Biochemistry*, **2013**, 54, 29-38	7.6	102
106	Analyzing mRNA expression identifies Smad3 as a microRNA-140 target regulated only at protein level. *Rna*, **2010**, 16, 489-94	5.8	94
105	Regulation of multiple target genes by miR-1 and miR-206 is pivotal for C2C12 myoblast differentiation. *Journal of Cell Science*, **2012**, 125, 3590-600	5.3	94
104	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, 11936-41	11.5	93
103	Experimental identification of microRNA-140 targets by silencing and overexpressing miR-140. *Rna*, **2008**, 14, 2513-20	5.8	92
102	Functional analysis of cymbidium ringspot virus genome. *Virology*, **1993**, 194, 697-704	3.6	90

101	Regulation of leaf morphology by microRNA394 and its target LEAF CURLING RESPONSIVENESS. *Plant and Cell Physiology*, **2012**, 53, 1283-94	4.9	88
100	Identification of new central nervous system specific mouse microRNAs. *FEBS Letters*, **2006**, 580, 2195-2201	3.8	88
99	The microRNA-29 family in cartilage homeostasis and osteoarthritis. *Journal of Molecular Medicine*, **2016**, 94, 583-96	5.5	87
98	Cloning and sequencing of potato virus Y (Hungarian isolate) genomic RNA. *Gene*, **1993**, 123, 149-56	3.8	87
97	Deep sequencing analysis of viral short RNAs from an infected Pinot Noir grapevine. *Virology*, **2010**, 408, 49-56	3.6	86
96	Identification of novel small RNAs in tomato (Solanum lycopersicum). *Planta*, **2007**, 226, 709-17	4.7	84
95	PAREsnip: a tool for rapid genome-wide discovery of small RNA/target interactions evidenced through degradome sequencing. *Nucleic Acids Research*, **2012**, 40, e103	20.1	78
94	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, 5535-41	20.1	77
93	Chromosomal-Level Assembly of the Asian Seabass Genome Using Long Sequence Reads and Multi-layered Scaffolding. *PLoS Genetics*, **2016**, 12, e1005954	6	77
92	miR-338-3p is over-expressed in blood, CFS, serum and spinal cord from sporadic amyotrophic lateral sclerosis patients. *Neurogenetics*, **2014**, 15, 243-53	3	76
91	FGF-4 signaling is involved in mir-206 expression in developing somites of chicken embryos. *Developmental Dynamics*, **2006**, 235, 2185-91	2.9	72
90	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, 140-8	6.9	68
89	Diverse correlation patterns between microRNAs and their targets during tomato fruit development indicates different modes of microRNA actions. *Planta*, **2012**, 236, 1875-87	4.7	65
88	Evidence for targeting common siRNA hotspots and GC preference by plant Dicer-like proteins. *FEBS Letters*, **2007**, 581, 3267-72	3.8	64
87	miR395 is a general component of the sulfate assimilation regulatory network in Arabidopsis. *FEBS Letters*, **2012**, 586, 3242-8	3.8	59
86	High throughput sequencing of microRNAs in chicken somites. *FEBS Letters*, **2009**, 583, 1422-6	3.8	58
85	Biogenesis of Y RNA-derived small RNAs is independent of the microRNA pathway. *FEBS Letters*, **2012**, 586, 1226-30	3.8	57
84	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, 217-23	2.6	55

83	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	3.7	44
82	A non-canonical RNA silencing pathway promotes mRNA degradation in basal Fungi. *PLoS Genetics*, **2015**, 11, e1005168	6	41
81	Transfer RNA-derived small RNAs in the cancer transcriptome. *Pflugers Archiv European Journal of Physiology*, **2016**, 468, 1041-7	4.6	40
80	Defective interfering RNA-mediated resistance against cymbidium ringspot tombusvirus in transgenic plants. *Virology*, **1993**, 193, 313-8	3.6	38
79	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	4.5	37
78	Replication and movement of a coat protein mutant of cymbidium ringspot tombusvirus. *Molecular Plant-Microbe Interactions*, **1992**, 5, 379-83	3.6	36
77	Characterisation and expression of microRNAs in developing wings of the neotropical butterfly Heliconius melpomene. *BMC Genomics*, **2011**, 12, 62	4.5	35
76	miRCat2: accurate prediction of plant and animal microRNAs from next-generation sequencing datasets. *Bioinformatics*, **2017**, 33, 2446-2454	7.2	34
75	Genomic responses to the socio-sexual environment in male exposed to conspecific rivals. *Rna*, **2017**, 23, 1048-1059	5.8	34
74	Repair in vivo of altered 3Vterminus of cymbidium ringspot tombusvirus RNA. *Virology*, **1993**, 192, 551-5	3.6	34
73	Detecting new microRNAs in human osteoarthritic chondrocytes identifies miR-3085 as a human, chondrocyte-selective, microRNA. *Osteoarthritis and Cartilage*, **2016**, 24, 534-43	6.2	32
72	Y RNAs: recent developments. *Biomolecular Concepts*, **2013**, 4, 103-10	3.7	29
71	In situ detection of animal and plant microRNAs. *DNA and Cell Biology*, **2007**, 26, 251-5	3.6	29
70	The UEA sRNA Workbench (version 4.4): a comprehensive suite of tools for analyzing miRNAs and sRNAs. *Bioinformatics*, **2018**, 34, 3382-3384	7.2	28
69	Ambient temperature regulates the expression of a small set of sRNAs influencing plant development through NF-YA2 and YUC2. *Plant, Cell and Environment*, **2018**, 41, 2404-2417	8.4	28
68	Deciphering the diversity of small RNAs in plants: the long and short of it. *Briefings in Functional Genomics & Proteomics*, **2009**, 8, 472-81		27
67	Evolution of flower color pattern through selection on regulatory small RNAs. *Science*, **2017**, 358, 925-928	33.3	26
66	MicroRNAs influence reproductive responses by females to male sex peptide in Drosophila melanogaster. *Genetics*, **2014**, 198, 1603-19	4	26

65	Localization of cis-acting sequences essential for cymbidium ringspot tombusvirus defective interfering RNA replication. *Journal of General Virology*, **1995**, 76 (Pt 9), 2311-6	4.9	26
64	CoLIde: a bioinformatics tool for CO-expression-based small RNA Loci Identification using high-throughput sequencing data. *RNA Biology*, **2013**, 10, 1221-30	4.8	24
63	Short RNAs in tomato. *Journal of Integrative Plant Biology*, **2010**, 52, 388-92	8.3	24
62	Identification of grapevine microRNAs and their targets using high-throughput sequencing and degradome analysis. *Plant Journal*, **2010**, 62, no-no	6.9	24
61	MicroRNAs Associated with Caste Determination and Differentiation in a Primitively Eusocial Insect. *Scientific Reports*, **2017**, 7, 45674	4.9	23
60	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	20.1	22
59	Role of miR-140 in embryonic bone development and cancer. *Clinical Science*, **2015**, 129, 863-73	6.5	21
58	Evidence for GC preference by monocot Dicer-like proteins. *Biochemical and Biophysical Research Communications*, **2008**, 368, 433-7	3.4	21
57	Generation of defective interfering RNA dimers of cymbidium ringspot tombusvirus. *Virology*, **1995**, 207, 510-7	3.6	21
56	The cytoskeleton adaptor protein ankyrin-1 is upregulated by p53 following DNA damage and alters cell migration. *Cell Death and Disease*, **2016**, 7, e2184	9.8	21
55	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	5.8	20
54	Nucleotide bias of DCL and AGO in plant anti-virus gene silencing. *Protein and Cell*, **2010**, 1, 847-58	7.2	20
53	Implementing the sterile insect technique with RNA interference - a review. *Entomologia Experimentalis Et Applicata*, **2017**, 164, 155-175	2.1	19
52	Molecular characterization of a novel ssRNA ourmia-like virus from the rice blast fungus Magnaporthe oryzae. *Archives of Virology*, **2017**, 162, 891-895	2.6	19
51	Secondary structure-dependent evolution of Cymbidium ringspot virus defective interfering RNA. *Journal of General Virology*, **1997**, 78 (Pt 6), 1227-34	4.9	19
50	A Database of microRNA Expression Patterns in Xenopus laevis. *PLoS ONE*, **2015**, 10, e0138313	3.7	18
49	Global discovery and characterization of small non-coding RNAs in marine microalgae. *BMC Genomics*, **2014**, 15, 697	4.5	17
48	Profile and functional analysis of small RNAs derived from Aspergillus fumigatus infected with double-stranded RNA mycoviruses. *BMC Genomics*, **2017**, 18, 416	4.5	17

47	microRNA-449 is a putative regulator of choroid plexus development and function. *Brain Research*, **2009**, 1250, 20-6	3.7	17
46	MirPlex: a tool for identifying miRNAs in high-throughput sRNA datasets without a genome. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2013**, 320, 47-56	1.8	16
45	Efficient pathogen-derived resistance induced by integrated potato virus Y coat protein gene in tobacco. *Biochimie*, **1993**, 75, 623-9	4.6	16
44	Transcriptional regulation of male-sterility in 7B-1 male-sterile tomato mutant. *PLoS ONE*, **2017**, 12, e0170715	3.7	16
43	Molecular insights into an ancient form of Paget's disease of bone. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 10463-10472	11.5	15
42	The replication of cymbidium ringspot tombusvirus defective interfering-satellite RNA hybrid molecules. *Virology*, **1992**, 190, 579-86	3.6	13
41	Small RNA profile in moso bamboo root and leaf obtained by high definition adapters. *PLoS ONE*, **2014**, 9, e103590	3.7	13
40	Comparison of alternative approaches for analysing multi-level RNA-seq data. *PLoS ONE*, **2017**, 12, e0182694	3.7	13
39	Microguards and micromessengers of the genome. *Heredity*, **2016**, 116, 125-34	3.6	11
38	High sensitivity and label-free oligonucleotides detection using photonic bandgap sensing structures biofunctionalized with molecular beacon probes. *Biomedical Optics Express*, **2018**, 9, 1717-1727	3.5	11
37	Control of seminal fluid protein expression via regulatory hubs in. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	11
36	microRNAs associated with early neural crest development in Xenopus laevis. *BMC Genomics*, **2018**, 19, 59	4.5	11
35	MicroRNA Regulation of Abiotic Stress Response in 7B-1 Male-Sterile Tomato Mutant. *Plant Genome*, **2015**, 8, eplantgenome2015.02.0008	4.4	10
34	An improved protocol for small RNA library construction using High Definition adapters **2015**, 2,		10
33	Small RNA analysis in Sindbis virus infected human HEK293 cells. *PLoS ONE*, **2013**, 8, e84070	3.7	10
32	Identification of genes targeted by microRNAs. *Biochemical Society Transactions*, **2008**, 36, 1194-6	5.1	10
31	Expression of homologous and heterologous viral coat protein-encoding genes using recombinant DI RNA from cymbidium ringspot tombusvirus. *Gene*, **1994**, 138, 159-63	3.8	9
30	Small RNA populations revealed by blocking rRNA fragments in Drosophila melanogaster reproductive tissues. *PLoS ONE*, **2018**, 13, e0191966	3.7	9

29	Artificially induced phased siRNAs promote virus resistance in transgenic plants. *Virology*, **2019**, 537, 208-215	3.6	8
28	RNA silencing: Recent developments on miRNAs. *Recent Patents on DNA & Gene Sequences*, **2009**, 3, 77-87		8
27	Targeting the MAPK7/MMP9 axis for metastasis in primary bone cancer. *Oncogene*, **2020**, 39, 5553-5569	9.2	8
26	miR-16 is highly expressed in Paget's associated osteosarcoma. *Endocrine-Related Cancer*, **2017**, 24, L27-L31	5.7	7
25	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	4.7	7
24	Size-dependent cell-to-cell movement of defective interfering RNAs of Cymbidium ringspot virus. *Journal of General Virology*, **2002**, 83, 1505-1510	4.9	7
23	FiRePat: Finding Regulatory Patterns between sRNAs and Genes. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, **2012**, 2, 273-284	6.9	6
22	Discovery of novel small RNAs in the quest to unravel genome complexity. *Biochemical Society Transactions*, **2013**, 41, 866-70	5.1	6
21	Small RNA discovery and characterisation in eukaryotes using high-throughput approaches. *Advances in Experimental Medicine and Biology*, **2011**, 722, 239-54	3.6	6
20	microRNA-seq of cartilage reveals an overabundance of miR-140-3p which contains functional isomiRs. *Rna*, **2020**, 26, 1575-1588	5.8	6
19	Experimental study of the evanescent-wave photonic sensors response in presence of molecular beacon conformational changes. *Journal of Biophotonics*, **2018**, 11, e201800030	3.1	5
18	New evidence supports the notion that microRNA-140 may play a role in the early stages of bone development. *Arthritis and Rheumatism*, **2013**, 65, 1668-9		5
17	High-throughput-sequencing-based identification of a grapevine fanleaf virus satellite RNA in Vitis vinifera. *Archives of Virology*, **2016**, 161, 1401-3	2.6	5
16	MicroRNA expression in a phosphaturic mesenchymal tumour. *Bone Reports*, **2017**, 7, 63-69	2.6	4
15	Detection of miRNA cancer biomarkers using light activated Molecular Beacons.. *RSC Advances*, **2019**, 9, 12766-12783	3.7	4
14	Silencing human cancer: identification and uses of microRNAs. *Recent Patents on Anti-Cancer Drug Discovery*, **2011**, 6, 94-105	2.6	4
13	Recent patents in RNA silencing in plants: constructs, methods and applications in plant biotechnology. *Recent Patents on DNA & Gene Sequences*, **2010**, 4, 155-66		4
12	Consequences of gene transfer between distantly related tombusviruses. *Gene*, **1993**, 129, 191-6	3.8	4

List of Publications

11	The nature of multimeric forms of cymbidium ringspot tombusvirus satellite RNA. *Archives of Virology*, **1994**, 138, 161-7	2.6	4
10	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	5.6	4
9	The role of microRNA-3085 in chondrocyte function. *Scientific Reports*, **2020**, 10, 21923	4.9	2
8	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	5.7	2
7	Regulation of multiple target genes by miR-1 and miR-206 is pivotal for C2C12 myoblast differentiation. *Development (Cambridge)*, **2012**, 139, e1-e1	6.6	1
6	microRNA-seq of cartilage reveals an over-abundance of miR-140-3p which contains functional isomiRs		1
5	Maternally expressed, paternally imprinted, embryonic non-coding RNA are expressed in osteosarcoma, Ewing sarcoma and spindle cell sarcoma. *Pathology*, **2019**, 51, 113-116	1.6	1
4	Detection of small non-coding RNAs. *Methods in Molecular Biology*, **2010**, 655, 265-74	1.4	0
3	Mechanistic insights into non-coding Y RNA processing.. *RNA Biology*, **2022**, 19, 468-480	4.8	0
2	Virus-induced Gene Silencing223-243		
1	Virus-Induced Gene Silencing **2018**, 223-243		