Attila Molnar

List of Publications by Year in descending order

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46 papers	5,593 citations	201674 27 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	6047 citing authors

#	Article	IF	Citations
1	Small Silencing RNAs in Plants Are Mobile and Direct Epigenetic Modification in Recipient Cells. Science, 2010, 328, 872-875.	12.6	668
2	A viral protein suppresses RNA silencing and binds silencing-generated, 21- to 25-nucleotide double-stranded RNAs. EMBO Journal, 2002, 21, 3070-3080.	7.8	562
3	miRNAs control gene expression in the single-cell alga Chlamydomonas reinhardtii. Nature, 2007, 447, 1126-1129.	27.8	461
4	Low temperature inhibits RNA silencing-mediated defence by the control of siRNA generation. EMBO Journal, 2003, 22, 633-640.	7.8	416
5	Plant Virus-Derived Small Interfering RNAs Originate Predominantly from Highly Structured Single-Stranded Viral RNAs. Journal of Virology, 2005, 79, 7812-7818.	3.4	373
6	Engineering of CRISPR/Cas9â€mediated potyvirus resistance in transgeneâ€free Arabidopsis plants. Molecular Plant Pathology, 2016, 17, 1276-1288.	4.2	339
7	Highly specific gene silencing by artificial microRNAs in the unicellular alga Chlamydomonas reinhardtii. Plant Journal, 2009, 58, 165-174.	5.7	317
8	Intercellular and systemic movement of RNA silencing signals. EMBO Journal, 2011, 30, 3553-3563.	7.8	279
9	Short Defective Interfering RNAs of Tombusviruses Are Not Targeted but Trigger Post-Transcriptional Gene Silencing against Their Helper Virus. Plant Cell, 2002, 14, 359-372.	6.6	215
10	5â€² isomiR variation is of functional and evolutionary importance. Nucleic Acids Research, 2014, 42, 9424-9435.	14.5	203
11	Mobile small RNAs regulate genome-wide DNA methylation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E801-10.	7.1	192
12	Efficient targeted DNA editing and replacement in Chlamydomonas reinhardtii using Cpf1 ribonucleoproteins and single-stranded DNA. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13567-13572.	7.1	180
13	Defective RNA processing enhances RNA silencing and influences flowering of Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14994-15001.	7.1	172
14	Aureusvirus P14 Is an Efficient RNA Silencing Suppressor That Binds Double-Stranded RNAs without Size Specificity. Journal of Virology, 2005, 79, 7217-7226.	3.4	133
15	Mobile 24 nt Small RNAs Direct Transcriptional Gene Silencing in the Root Meristems of Arabidopsis thaliana. Current Biology, 2011, 21, 1678-1683.	3.9	133
16	Silencing signals in plants: a long journey for small RNAs. Genome Biology, 2011, 12, 215.	9.6	117
17	A PHABULOSA/Cytokinin Feedback Loop Controls Root Growth in Arabidopsis. Current Biology, 2012, 22, 1699-1704.	3.9	112
18	Lost in Transit: Long-Distance Trafficking and Phloem Unloading of Protein Signals in Arabidopsis Homografts. Plant Cell, 2016, 28, 2016-2025.	6.6	92

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19	Crystal structure of p19 ? a universal suppressor of RNA silencing. Trends in Biochemical Sciences, 2004, 29, 279-281.	7.5	66
20	Gene Editing of Microalgae: Scientific Progress and Regulatory Challenges in Europe. Biology, 2018, 7, 21.	2.8	57
21	Complete nucleotide sequence of tobacco necrosis virus strain DH and genes required for RNA replication and virus movement.. Journal of General Virology, 1997, 78, 1235-1239.	2.9	49
22	Going mobile: Nonâ€cellâ€autonomous small RNAs shape the genetic landscape of plants. Plant Biotechnology Journal, 2015, 13, 306-318.	8.3	47
23	RNA silencing of hydrogenase(-like) genes and investigation of their physiological roles in the green alga Chlamydomonas reinhardtii. Biochemical Journal, 2010, 431, 345-352.	3.7	45
24	Most microRNAs in the single-cell alga Chlamydomonas reinhardtii are produced by Dicer-like 3-mediated cleavage of introns and untranslated regions of coding RNAs. Genome Research, 2016, 26, 519-529.	5.5	44
25	The specific binding to 21-nt double-stranded RNAs is crucial for the anti-silencing activity of Cucumber vein yellowing virus P1b and perturbs endogenous small RNA populations. Rna, 2011, 17, 1148-1158.	3.5	38
26	Plant Mobile Small RNAs. Cold Spring Harbor Perspectives in Biology, 2013, 5, a017897-a017897.	5.5	35
27	FDF-PAGE: a powerful technique revealing previously undetected small RNAs sequestered by complementary transcripts. Nucleic Acids Research, 2015, 43, 7590-7599.	14.5	32
28	Light Triggers the miRNA-Biogenetic Inconsistency for De-etiolated Seedling Survivability in Arabidopsis thaliana. Molecular Plant, 2020, 13, 431-445.	8.3	30
29	Artificial microRNA-mediated knockdown of pyruvate formate lyase (PFL1) provides evidence for an active 3-hydroxybutyrate production pathway in the green alga Chlamydomonas reinhardtii. Journal of Biotechnology, 2012, 162, 57-66.	3.8	22
30	Non-perfectly matching small RNAs can induce stable and heritable epigenetic modifications and can be used as molecular markers to trace the origin and fate of silencing RNAs. Nucleic Acids Research, 2021, 49, 1900-1913.	14.5	21
31	Starch synthesis-, and tuber storage protein genes are differently expressed in Solanum tuberosum and in Solanum brevidens. FEBS Letters, 1996, 383, 159-164.	2.8	20
32	Tissue-specific signal(s) activate the promoter of a metallocarboxypeptidase inhibitor gene family in potato tuber and berry. Plant Molecular Biology, 2001, 46, 301-311.	3.9	17
33	Distinct roles of Argonaute in the green alga Chlamydomonas reveal evolutionary conserved mode of miRNA-mediated gene expression. Scientific Reports, 2019, 9, 11091.	3.3	15
34	Mechanistic and genetic basis of single-strand templated repair at Cas12a-induced DNA breaks in Chlamydomonas reinhardtii. Nature Communications, 2021, 12, 6751.	12.8	15
35	Temperature modulates virusâ€induced transcriptional gene silencing via secondary small RNAs. New Phytologist, 2021, 232, 356-371.	7.3	14
36	Isolation and Cloning of Small RNAs from Virus-Infected Plants. , 2006, Chapter 16, 16H.2.1-16H.2.17.		11

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37	Shared Mutations in a Novel Glutaredoxin Repressor of Multicellular Trichome Fate Underlie Parallel Evolution of Antirrhinum Species. Current Biology, 2020, 30, 1357-1366.e4.	3.9	10
38	Differences in sucrose-to-starch metabolism of Solanum tuberosum and Solanum brevidens. Plant Science, 1999, 147, 81-88.	3.6	7
39	Rapid, high efficiency virus-mediated mutant complementation and gene silencing in Antirrhinum. Plant Methods, 2020, 16, 145.	4.3	7
40	Cutin:cutin-acid endo-transacylase (CCT), a cuticle-remodelling enzyme activity in the plant epidermis. Biochemical Journal, 2021, 478, 777-798.	3.7	7
41	DNA methylation can alter CRISPR/Cas9 editing frequency and DNA repair outcome in a targetâ€specific manner. New Phytologist, 2022, 235, 2285-2299.	7.3	7
42	Virus-induced Gene Silencing in Streptocarpus rexii (Gesneriaceae). Molecular Biotechnology, 2020, 62, 317-325.	2.4	6
43	Potential for gene editing in antiviral resistance. Current Opinion in Virology, 2020, 42, 47-52.	5.4	4
44	Reply: Escaping a Low-Security Prison. Plant Cell, 2017, 29, 431-431.	6.6	2
45	Improved Denaturation of Small RNA Duplexes and Its Application for Northern Blotting. Methods in Molecular Biology, 2017, 1580, 1-6.	0.9	1
46	Homology-Directed Transgene-Free Gene Editing in Chlamydomonas reinhardtii. Springer Protocols, 2020, , 237-252.	0.3	0