Attila Molnar

List of Publications by Year
in descending order

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	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
2	Cutin:cutin-acid endo-transacylase (CCT), a cuticle-remodelling enzyme activity in the plant epidermis. Biochemical Journal, 2021, 478, 777-798.	3.7	7
3	Temperature modulates virusâ€induced transcriptional gene silencing via secondary small RNAs. New Phytologist, 2021, 232, 356-371.	7.3	14
4	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
5	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
6	Light Triggers the miRNA-Biogenetic Inconsistency for De-etiolated Seedling Survivability in Arabidopsis thaliana. Molecular Plant, 2020, 13, 431-445.	8.3	30
7	Rapid, high efficiency virus-mediated mutant complementation and gene silencing in Antirrhinum. Plant Methods, 2020, 16, 145.	4.3	7
8	Potential for gene editing in antiviral resistance. Current Opinion in Virology, 2020, 42, 47-52.	5.4	4
9	Virus-induced Gene Silencing in Streptocarpus rexii (Gesneriaceae). Molecular Biotechnology, 2020, 62, 317-325.	2.4	6
10	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
11	Homology-Directed Transgene-Free Gene Editing in Chlamydomonas reinhardtii. Springer Protocols, 2020, , 237-252.	0.3	0
12	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
13	Gene Editing of Microalgae: Scientific Progress and Regulatory Challenges in Europe. Biology, 2018, 7, 21.	2.8	57
14	Improved Denaturation of Small RNA Duplexes and Its Application for Northern Blotting. Methods in Molecular Biology, 2017, 1580, 1-6.	0.9	1
15	Reply: Escaping a Low-Security Prison. Plant Cell, 2017, 29, 431-431.	6.6	2
16	Efficient targeted DNA editing and replacement in <i>Chlamydomonas reinhardtii</i> 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
17	Engineering of CRISPR/Cas9â€mediated potyvirus resistance in transgeneâ€free <i>Arabidopsis</i> plants. Molecular Plant Pathology, 2016, 17, 1276-1288.	4.2	339
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	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
20	Most microRNAs in the single-cell alga <i>Chlamydomonas reinhardtii</i> 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
21	FDF-PAGE: a powerful technique revealing previously undetected small RNAs sequestered by complementary transcripts. Nucleic Acids Research, 2015, 43, 7590-7599.	14.5	32
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	5â€² isomiR variation is of functional and evolutionary importance. Nucleic Acids Research, 2014, 42, 9424-9435.	14.5	203
24	Plant Mobile Small RNAs. Cold Spring Harbor Perspectives in Biology, 2013, 5, a017897-a017897.	5.5	35
25	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
26	A PHABULOSA/Cytokinin Feedback Loop Controls Root Growth in Arabidopsis. Current Biology, 2012, 22, 1699-1704.	3.9	112
27	Silencing signals in plants: a long journey for small RNAs. Genome Biology, 2011, 12, 215.	9.6	117
28	Intercellular and systemic movement of RNA silencing signals. EMBO Journal, 2011, 30, 3553-3563.	7.8	279
29	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
30	The specific binding to 21-nt double-stranded RNAs is crucial for the anti-silencing activity of <i>Cucumber vein yellowing virus</i> P1b and perturbs endogenous small RNA populations. Rna, 2011, 17, 1148-1158.	3.5	38
31	RNA silencing of hydrogenase(-like) genes and investigation of their physiological roles in the green alga <i>Chlamydomonas reinhardtii</i>. Biochemical Journal, 2010, 431, 345-352.	3.7	45
32	Small Silencing RNAs in Plants Are Mobile and Direct Epigenetic Modification in Recipient Cells. Science, 2010, 328, 872-875.	12.6	668
33	Highly specific gene silencing by artificial microRNAs in the unicellular alga <i>Chlamydomonas reinhardtii</i>. Plant Journal, 2009, 58, 165-174.	5.7	317
34	miRNAs control gene expression in the single-cell alga Chlamydomonas reinhardtii. Nature, 2007, 447, 1126-1129.	27.8	461
35	Isolation and Cloning of Small RNAs from Virus-Infected Plants. , 2006, Chapter 16, 16H.2.1-16H.2.17.		11
36	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

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37	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
38	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
39	Crystal structure of p19 ? a universal suppressor of RNA silencing. Trends in Biochemical Sciences, 2004, 29, 279-281.	7.5	66
40	Low temperature inhibits RNA silencing-mediated defence by the control of siRNA generation. EMBO Journal, 2003, 22, 633-640.	7.8	416
41	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
42	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
43	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
44	Differences in sucrose-to-starch metabolism of Solanum tuberosum and Solanum brevidens. Plant Science, 1999, 147, 81-88.	3.6	7
45	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
46	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