

# JÃ³zsef Burgyn

## List of Publications by Year in descending order

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69  
papers

9,468  
citations

53660

45  
h-index

102304

66  
g-index

69  
all docs

69  
docs citations

69  
times ranked

6435  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitive and specific detection of microRNAs by northern blot analysis using LNA-modified oligonucleotide probes. <i>Nucleic Acids Research</i> , 2004, 32, e175-e175.	6.5	751
2	A viral protein suppresses RNA silencing and binds silencing-generated, 21- to 25-nucleotide double-stranded RNAs. <i>EMBO Journal</i> , 2002, 21, 3070-3080.	3.5	562
3	MicroRNA detection by northern blotting using locked nucleic acid probes. <i>Nature Protocols</i> , 2008, 3, 190-196.	5.5	541
4	Size Selective Recognition of siRNA by an RNA Silencing Suppressor. <i>Cell</i> , 2003, 115, 799-811.	13.5	494
5	viral silencing suppressors: Tools forged to fine-tune host-pathogen coexistence. <i>Virology</i> , 2015, 479-480, 85-103.	1.1	466
6	Small RNA binding is a common strategy to suppress RNA silencing by several viral suppressors. <i>EMBO Journal</i> , 2006, 25, 2768-2780.	3.5	440
7	Low temperature inhibits RNA silencing-mediated defence by the control of siRNA generation. <i>EMBO Journal</i> , 2003, 22, 633-640.	3.5	416
8	Viral suppressors of RNA silencing. <i>Trends in Plant Science</i> , 2011, 16, 265-272.	4.3	385
9	Plant Virus-Derived Small Interfering RNAs Originate Predominantly from Highly Structured Single-Stranded Viral RNAs. <i>Journal of Virology</i> , 2005, 79, 7812-7818.	1.5	373
10	Molecular mechanism of RNA silencing suppression mediated by p19 protein of tombusviruses. <i>EMBO Journal</i> , 2004, 23, 876-884.	3.5	357
11	Identification of grapevine microRNAs and their targets using high throughput sequencing and degradome analysis. <i>Plant Journal</i> , 2010, 62, 960-76.	2.8	335
12	A Viral Satellite RNA Induces Yellow Symptoms on Tobacco by Targeting a Gene Involved in Chlorophyll Biosynthesis using the RNA Silencing Machinery. <i>PLoS Pathogens</i> , 2011, 7, e1002021.	2.1	263
13	Short Defective Interfering RNAs of Tombusviruses Are Not Targeted but Trigger Post-Transcriptional Gene Silencing against Their Helper Virus. <i>Plant Cell</i> , 2002, 14, 359-372.	3.1	215
14	Plant virus-mediated induction of miR168 is associated with repression of ARGONAUTE1 accumulation. <i>EMBO Journal</i> , 2010, 29, 3507-3519.	3.5	214
15	Molecular Biology of Tombusviridae. <i>Advances in Virus Research</i> , 1994, 44, 381-428.	0.9	187
16	Effects and side-effects of viral RNA silencing suppressors on short RNAs. <i>Trends in Plant Science</i> , 2004, 9, 76-83.	4.3	175
17	Polerovirus protein P0 prevents the assembly of small RNA-containing RISC complexes and leads to degradation of ARGONAUTE1. <i>Plant Journal</i> , 2010, 62, 463-472.	2.8	173
18	Viral Protein Inhibits RISC Activity by Argonaute Binding through Conserved WG/GW Motifs. <i>PLoS Pathogens</i> , 2010, 6, e1000996.	2.1	163

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19	The p122 Subunit of <i>Tobacco Mosaic Virus</i> Replicase Is a Potent Silencing Suppressor and Compromises both Small Interfering RNA- and MicroRNA-Mediated Pathways. <i>Journal of Virology</i> , 2007, 81, 11768-11780.	1.5	157
20	Molecular Bases of Viral RNA Targeting by Viral Small Interfering RNA-Programmed RISC. <i>Journal of Virology</i> , 2007, 81, 3797-3806.	1.5	155
21	Aureusvirus P14 Is an Efficient RNA Silencing Suppressor That Binds Double-Stranded RNAs without Size Specificity. <i>Journal of Virology</i> , 2005, 79, 7217-7226.	1.5	133
22	Spatio-temporal accumulation of microRNAs is highly coordinated in developing plant tissues. <i>Plant Journal</i> , 2006, 47, 140-151.	2.8	130
23	Deep Sequencing of Viroid-Derived Small RNAs from Grapevine Provides New Insights on the Role of RNA Silencing in Plant-Viroid Interaction. <i>PLoS ONE</i> , 2009, 4, e7686.	1.1	130
24	Structural and Functional Analysis of Viral siRNAs. <i>PLoS Pathogens</i> , 2010, 6, e1000838.	2.1	128
25	Deep sequencing analysis of viral short RNAs from an infected Pinot Noir grapevine. <i>Virology</i> , 2010, 408, 49-56.	1.1	109
26	Functional Analysis of Cymbidium Ringspot Virus Genome. <i>Virology</i> , 1993, 194, 697-704.	1.1	104
27	Double-stranded RNA-binding proteins could suppress RNA interference-mediated antiviral defences. <i>Journal of General Virology</i> , 2003, 84, 975-980.	1.3	103
28	AGO/RISC-mediated antiviral RNA silencing in a plant in vitro system. <i>Nucleic Acids Research</i> , 2013, 41, 5090-5103.	6.5	102
29	RNA Interference-Mediated Intrinsic Antiviral Immunity in Plants. <i>Current Topics in Microbiology and Immunology</i> , 2013, 371, 153-181.	0.7	98
30	NGS of Virus-Derived Small RNAs as a Diagnostic Method Used to Determine Viromes of Hungarian Vineyards. <i>Frontiers in Microbiology</i> , 2015, 9, 122.	1.5	95
31	Cloning and sequencing of potato virus Y (Hungarian isolate) genomic RNA. <i>Gene</i> , 1993, 123, 149-156.	1.0	94
32	In Situ Characterization of Cymbidium Ringspot Tombusvirus Infection-Induced Posttranscriptional Gene Silencing in <i>Nicotiana benthamiana</i> . <i>Journal of Virology</i> , 2003, 77, 6082-6086.	1.5	92
33	The NS3 protein of Rice hoja blanca tenuivirus suppresses RNA silencing in plant and insect hosts by efficiently binding both siRNAs and miRNAs. <i>Rna</i> , 2007, 13, 1079-1089.	1.6	92
34	Detection of microRNAs by Northern blot analyses using LNA probes. <i>Methods</i> , 2007, 43, 140-145.	1.9	90
35	Inhibition of 3' modification of small RNAs in virus-infected plants require spatial and temporal co-expression of small RNAs and viral silencing-suppressor proteins. <i>Nucleic Acids Research</i> , 2008, 36, 4099-4107.	6.5	81
36	The nonstop decay and the RNA silencing systems operate cooperatively in plants. <i>Nucleic Acids Research</i> , 2018, 46, 4632-4648.	6.5	79

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37	Functional dissection of a plant Argonaute. <i>Nucleic Acids Research</i> , 2016, 44, 1384-1397.	6.5	75
38	Plant virus infection-induced persistent host gene downregulation in systemically infected leaves. <i>Plant Journal</i> , 2008, 55, 278-288.	2.8	71
39	Genome-wide identification of viral and host transcripts targeted by viral siRNAs in <i>Vitis vinifera</i> . <i>Molecular Plant Pathology</i> , 2013, 14, 30-43.	2.0	69
40	Distinct Effects of p19 RNA Silencing Suppressor on Small RNA Mediated Pathways in Plants. <i>PLoS Pathogens</i> , 2016, 12, e1005935.	2.1	67
41	Virus-induced gene silencing of Mlo genes induces powdery mildew resistance in <i>Triticum aestivum</i> . <i>Archives of Virology</i> , 2012, 157, 1345-1350.	0.9	59
42	Defective Interfering RNA Hinders the Activity of a Tombusvirus-Encoded Posttranscriptional Gene Silencing Suppressor. <i>Journal of Virology</i> , 2005, 79, 450-457.	1.5	56
43	Crispr/Cas9 Mediated Inactivation of Argonaute 2 Reveals its Differential Involvement in Antiviral Responses. <i>Scientific Reports</i> , 2017, 7, 1010.	1.6	56
44	Comparative sequence analysis of four complete primary structures of plum pox virus strains. <i>Virus Genes</i> , 1993, 7, 339-347.	0.7	54
45	Identification of grapevine microRNAs and their targets using high-throughput sequencing and degradome analysis. <i>Plant Journal</i> , 2010, 62, no-no.	2.8	53
46	Defective Interfering RNA-Mediated Resistance against Cymbidium Ringspot Tombusvirus in Transgenic Plants. <i>Virology</i> , 1993, 193, 313-318.	1.1	48
47	The ORF1 Products of Tombusviruses Play a Crucial Role in Lethal Necrosis of Virus-Infected Plants. <i>Journal of Virology</i> , 2000, 74, 10873-10881.	1.5	41
48	Analysis of small RNAs derived from tomato yellow leaf curl Sardinia virus reveals a cross reaction between the major viral hotspot and the plant host genome. <i>Virus Research</i> , 2013, 178, 287-296.	1.1	39
49	Identification of <i>Nicotiana benthamiana</i> microRNAs and their targets using high throughput sequencing and degradome analysis. <i>BMC Genomics</i> , 2015, 16, 1025.	1.2	37
50	Evidence That ORF 1 and 2 Are the Only Virus-Encoded Replicase Genes of Cymbidium Ringspot Tombusvirus. <i>Virology</i> , 1994, 201, 169-172.	1.1	30
51	Role of Silencing Suppressor Proteins. <i>Methods in Molecular Biology</i> , 2008, 451, 69-79.	0.4	30
52	Nucleotide sequence and infectious in vitro transcripts of RNA 3 of tomato aspermy virus pepper isolate. <i>Virus Research</i> , 1994, 33, 281-289.	1.1	23
53	Generation of Defective Interfering RNA Dimers of Cymbidium Ringspot Tombusvirus. <i>Virology</i> , 1995, 207, 510-517.	1.1	23
54	Cymbidium Ringspot Virus Harnesses RNA Silencing To Control the Accumulation of Virus Parasite Satellite RNA. <i>Journal of Virology</i> , 2008, 82, 11851-11858.	1.5	23

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55	The replication of cymbidium ringspot tomosvirus defective interfering-satellite RNA hybrid molecules. <i>Virology</i> , 1992, 190, 579-586.	1.1	18
56	The complete nucleotide sequence and synthesis of infectious RNA of genomic and defective interfering RNAs of TBSV-P. <i>Virus Research</i> , 2000, 69, 131-136.	1.1	16
57	The 5â€² regulatory sequences of active miR-146a promoters are hypomethylated and associated with euchromatic histone modification marks in B lymphoid cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 433, 489-495.	1.0	14
58	Antiviral Silencing and Suppression of Gene Silencing in Plants. , 2016, , 1-33.		12
59	Interactions between Tomosviruses and Satellite RNAs of Tomato Bushy Stunt Virus: A Defect in sat RNA B1 Replication Maps to ORF1 of a Helper Virus. <i>Virology</i> , 1999, 262, 129-138.	1.1	11
60	Transcriptome reprogramming in the shoot apical meristem of CymRSVâ€infecte<i> Nicotiana benthamiana</i> plants associates with viral exclusion and the lack of recovery. <i>Molecular Plant Pathology</i> , 2019, 20, 1748-1758.	2.0	11
61	Expression of homologous and heterologous viral coat protein-encoding genes using recombinant DI RNA from cymbidium ringspot tomosvirus. <i>Gene</i> , 1994, 138, 159-163.	1.0	10
62	RNA Silencing May Play a Role in but Is Not the Only Determinant of the Multiplicity of Infection. <i>Journal of Virology</i> , 2016, 90, 553-561.	1.5	10
63	Size-dependent cell-to-cell movement of defective interfering RNAs of Cymbidium ringspot virus. <i>Journal of General Virology</i> , 2002, 83, 1505-1510.	1.3	8
64	Tomosvirus Isolation and RNA Extraction. , 1998, 81, 225-230.		6
65	Gel Mobility Shift Assays for RNA Binding Viral RNAi Suppressors. <i>Methods in Molecular Biology</i> , 2011, 721, 245-252.	0.4	6
66	Argonaute 2 Controls Antiviral Activity against Sweet Potato Mild Mottle Virus in <i>Nicotiana benthamiana</i> . <i>Plants</i> , 2021, 10, 867.	1.6	5
67	Consequences of gene transfer between distantly related tomosviruses. <i>Gene</i> , 1993, 129, 191-196.	1.0	4
68	Establishment of an In Vivo ARGONAUTE Reporter System in Plants. <i>Methods in Molecular Biology</i> , 2017, 1640, 73-91.	0.4	1
69	Analysis of siRNA-Suppressor of Gene Silencing Interactions. <i>Methods in Molecular Biology</i> , 2008, 451, 331-337.	0.4	0