

# Bryan R Cullen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6529580/publications.pdf>

Version: 2024-02-01

139  
papers

26,216  
citations

10650

74  
h-index

14012

133  
g-index

147  
all docs

147  
docs citations

147  
times ranked

21476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exportin-5 mediates the nuclear export of pre-microRNAs and short hairpin RNAs. <i>Genes and Development</i> , 2003, 17, 3011-3016.	2.7	2,377
2	Human microRNAs are processed from capped, polyadenylated transcripts that can also function as mRNAs. <i>Rna</i> , 2004, 10, 1957-1966.	1.6	1,509
3	The HIV-1 rev trans-activator acts through a structured target sequence to activate nuclear export of unspliced viral mRNA. <i>Nature</i> , 1989, 338, 254-257.	13.7	1,350
4	[71] Use of eukaryotic expression technology in the functional analysis of cloned genes. <i>Methods in Enzymology</i> , 1987, 152, 684-704.	0.4	896
5	Functional dissection of the HIV-1 Rev trans-activator—Derivation of a trans-dominant repressor of Rev function. <i>Cell</i> , 1989, 58, 205-214.	13.5	831
6	MicroRNAs and small interfering RNAs can inhibit mRNA expression by similar mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9779-9784.	3.3	813
7	Both Natural and Designed Micro RNAs Can Inhibit the Expression of Cognate mRNAs When Expressed in Human Cells. <i>Molecular Cell</i> , 2002, 9, 1327-1333.	4.5	786
8	Transcription and Processing of Human microRNA Precursors. <i>Molecular Cell</i> , 2004, 16, 861-865.	4.5	682
9	Viruses, microRNAs, and Host Interactions. <i>Annual Review of Microbiology</i> , 2010, 64, 123-141.	2.9	634
10	MicroRNAs expressed by herpes simplex virus 1 during latent infection regulate viral mRNAs. <i>Nature</i> , 2008, 454, 780-783.	13.7	604
11	Kaposi's sarcoma-associated herpesvirus expresses an array of viral microRNAs in latently infected cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5570-5575.	3.3	548
12	A viral microRNA functions as an orthologue of cellular miR-155. <i>Nature</i> , 2007, 450, 1096-1099.	13.7	541
13	Recognition and cleavage of primary microRNA precursors by the nuclear processing enzyme Drosha. <i>EMBO Journal</i> , 2005, 24, 138-148.	3.5	505
14	Epstein-Barr Virus MicroRNAs Are Evolutionarily Conserved and Differentially Expressed. <i>PLoS Pathogens</i> , 2006, 2, e23.	2.1	486
15	Immunodeficiency virus rev trans-activator modulates the expression of the viral regulatory genes. <i>Nature</i> , 1988, 335, 181-183.	13.7	448
16	A second human antiretroviral factor, APOBEC3F, is suppressed by the HIV-1 and HIV-2 Vif proteins. <i>EMBO Journal</i> , 2004, 23, 2451-2458.	3.5	432
17	Transcriptional interference in avian retroviruses—implications for the promoter insertion model of leukaemogenesis. <i>Nature</i> , 1984, 307, 241-245.	13.7	411
18	Viral and Cellular MicroRNAs as Determinants of Viral Pathogenesis and Immunity. <i>Cell Host and Microbe</i> , 2008, 3, 375-387.	5.1	378

#	ARTICLE	IF	CITATIONS
19	Viruses and microRNAs. <i>Nature Genetics</i> , 2006, 38, S25-S30.	9.4	365
20	Cellular inhibitors of long interspersed element 1 and Alu retrotransposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8780-8785.	3.3	343
21	The role of RNAi and microRNAs in animal virus replication and antiviral immunity. <i>Genes and Development</i> , 2009, 23, 1151-1164.	2.7	340
22	Adenovirus VA1 Noncoding RNA Can Inhibit Small Interfering RNA and MicroRNA Biogenesis. <i>Journal of Virology</i> , 2004, 78, 12868-12876.	1.5	333
23	The Viral and Cellular MicroRNA Targetome in Lymphoblastoid Cell Lines. <i>PLoS Pathogens</i> , 2012, 8, e1002484.	2.1	321
24	Viral MicroRNA Targetome of KSHV-Infected Primary Effusion Lymphoma Cell Lines. <i>Cell Host and Microbe</i> , 2011, 10, 515-526.	5.1	297
25	From The Cover: A single amino acid difference in the host APOBEC3G protein controls the primate species specificity of HIV type 1 virion infectivity factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3770-3774.	3.3	292
26	Posttranscriptional m <sup>6</sup> A Editing of HIV-1 mRNAs Enhances Viral Gene Expression. <i>Cell Host and Microbe</i> , 2016, 19, 675-685.	5.1	288
27	The HIV-1 Tat protein: An RNA sequence-specific processivity factor?. <i>Cell</i> , 1990, 63, 655-657.	13.5	264
28	Nuclear mRNA export: insights from virology. <i>Trends in Biochemical Sciences</i> , 2003, 28, 419-424.	3.7	256
29	Functional replacement of the HIV-1 rev protein by the HTLV-1 rex protein. <i>Nature</i> , 1988, 335, 738-740.	13.7	255
30	Role and Mechanism of Action of the APOBEC3 Family of Antiretroviral Resistance Factors. <i>Journal of Virology</i> , 2006, 80, 1067-1076.	1.5	253
31	APOBEC3A and APOBEC3B are potent inhibitors of LTR-retrotransposon function in human cells. <i>Nucleic Acids Research</i> , 2006, 34, 89-95.	6.5	252
32	Viral and cellular messenger RNA targets of viral microRNAs. <i>Nature</i> , 2009, 457, 421-425.	13.7	252
33	Regulation of HIV-1 gene expression. <i>FASEB Journal</i> , 1991, 5, 2361-2368.	0.2	247
34	Characterization of <i>Staphylococcus aureus</i> Cas9: a smaller Cas9 for all-in-one adeno-associated virus delivery and paired nickase applications. <i>Genome Biology</i> , 2015, 16, 257.	3.8	239
35	Inactivation of the Human Papillomavirus E6 or E7 Gene in Cervical Carcinoma Cells by Using a Bacterial CRISPR/Cas RNA-Guided Endonuclease. <i>Journal of Virology</i> , 2014, 88, 11965-11972.	1.5	232
36	MicroRNAs as mediators of viral evasion of the immune system. <i>Nature Immunology</i> , 2013, 14, 205-210.	7.0	223

#	ARTICLE	IF	CITATIONS
37	Human APOBEC3B is a potent inhibitor of HIV-1 infectivity and is resistant to HIV-1 Vif. <i>Virology</i> , 2005, 339, 281-288.	1.1	213
38	Suppression of hepatitis B virus DNA accumulation in chronically infected cells using a bacterial CRISPR/Cas RNA-guided DNA endonuclease. <i>Virology</i> , 2015, 476, 196-205.	1.1	202
39	A Mammalian Herpesvirus Uses Noncanonical Expression and Processing Mechanisms to Generate Viral MicroRNAs. <i>Molecular Cell</i> , 2010, 37, 135-142.	4.5	194
40	Nuclear RNA export. <i>Journal of Cell Science</i> , 2003, 116, 587-597.	1.2	191
41	Virally Induced Cellular MicroRNA miR-155 Plays a Key Role in B-Cell Immortalization by Epstein-Barr Virus. <i>Journal of Virology</i> , 2010, 84, 11670-11678.	1.5	182
42	Viruses and microRNAs: RISCy interactions with serious consequences. <i>Genes and Development</i> , 2011, 25, 1881-1894.	2.7	180
43	Epitranscriptomic Enhancement of Influenza A Virus Gene Expression and Replication. <i>Cell Host and Microbe</i> , 2017, 22, 377-386.e5.	5.1	163
44	Analysis of the Interaction of Primate Retroviruses with the Human RNA Interference Machinery. <i>Journal of Virology</i> , 2007, 81, 12218-12226.	1.5	161
45	Analysis of Human Alphaherpesvirus MicroRNA Expression in Latently Infected Human Trigeminal Ganglia. <i>Journal of Virology</i> , 2009, 83, 10677-10683.	1.5	159
46	A Human Herpesvirus MicroRNA Inhibits p21 Expression and Attenuates p21-Mediated Cell Cycle Arrest. <i>Journal of Virology</i> , 2010, 84, 5229-5237.	1.5	157
47	Enhancing and confirming the specificity of RNAi experiments. <i>Nature Methods</i> , 2006, 3, 677-681.	9.0	154
48	Is RNA interference involved in intrinsic antiviral immunity in mammals?. <i>Nature Immunology</i> , 2006, 7, 563-567.	7.0	153
49	Analysis of the stimulatory effect of splicing on mRNA production and utilization in mammalian cells. <i>Rna</i> , 2003, 9, 618-630.	1.6	145
50	Epitranscriptomic Addition of m5C to HIV-1 Transcripts Regulates Viral Gene Expression. <i>Cell Host and Microbe</i> , 2019, 26, 217-227.e6.	5.1	144
51	Inhibition of Human Immunodeficiency Virus Type 1 Replication in Primary Macrophages by Using Tat- or CCR5-Specific Small Interfering RNAs Expressed from a Lentivirus Vector. <i>Journal of Virology</i> , 2003, 77, 11964-11972.	1.5	140
52	Inhibition of a Yeast LTR Retrotransposon by Human APOBEC3 Cytidine Deaminases. <i>Current Biology</i> , 2005, 15, 661-666.	1.8	139
53	A Novel Assay for Viral MicroRNA Function Identifies a Single Nucleotide Polymorphism That Affects Drosha Processing. <i>Journal of Virology</i> , 2006, 80, 5321-5326.	1.5	135
54	In-Depth Analysis of the Interaction of HIV-1 with Cellular microRNA Biogenesis and Effector Mechanisms. <i>MBio</i> , 2013, 4, e000193.	1.8	134

#	ARTICLE	IF	CITATIONS
55	A Viral microRNA Cluster Strongly Potentiates the Transforming Properties of a Human Herpesvirus. <i>PLoS Pathogens</i> , 2011, 7, e1001294.	2.1	132
56	In-Depth Analysis of Kaposi's Sarcoma-Associated Herpesvirus MicroRNA Expression Provides Insights into the Mammalian MicroRNA-Processing Machinery. <i>Journal of Virology</i> , 2010, 84, 695-703.	1.5	130
57	A Neuron-Specific Host MicroRNA Targets Herpes Simplex Virus-1 ICPO Expression and Promotes Latency. <i>Cell Host and Microbe</i> , 2014, 15, 446-456.	5.1	129
58	Functions of the auxiliary gene products of the human immunodeficiency virus type 1. <i>Virology</i> , 1990, 178, 1-5.	1.1	125
59	Replication of Many Human Viruses Is Refractory to Inhibition by Endogenous Cellular MicroRNAs. <i>Journal of Virology</i> , 2014, 88, 8065-8076.	1.5	124
60	MicroRNA-17a <sup>1492</sup> plays a causative role in lymphomagenesis by coordinating multiple oncogenic pathways. <i>EMBO Journal</i> , 2013, 32, 2377-2391.	3.5	123
61	Addition of m6A to SV40 late mRNAs enhances viral structural gene expression and replication. <i>PLoS Pathogens</i> , 2018, 14, e1006919.	2.1	118
62	RNA interference: antiviral defense and genetic tool. <i>Nature Immunology</i> , 2002, 3, 597-599.	7.0	116
63	Differential RISC association of endogenous human microRNAs predicts their inhibitory potential. <i>Nucleic Acids Research</i> , 2014, 42, 4629-4639.	6.5	115
64	Is RNA Interference a Physiologically Relevant Innate Antiviral Immune Response in Mammals?. <i>Cell Host and Microbe</i> , 2013, 14, 374-378.	5.1	108
65	EBV BART MicroRNAs Target Multiple Pro-apoptotic Cellular Genes to Promote Epithelial Cell Survival. <i>PLoS Pathogens</i> , 2015, 11, e1004979.	2.1	96
66	Derivation and characterization of Dicer- and microRNA-deficient human cells. <i>Rna</i> , 2014, 20, 923-937.	1.6	94
67	The Members of an Epstein-Barr Virus MicroRNA Cluster Cooperate To Transform B Lymphocytes. <i>Journal of Virology</i> , 2011, 85, 9801-9810.	1.5	91
68	Mutational Inactivation of Herpes Simplex Virus 1 MicroRNAs Identifies Viral mRNA Targets and Reveals Phenotypic Effects in Culture. <i>Journal of Virology</i> , 2013, 87, 6589-6603.	1.5	91
69	Epigenetic and epitranscriptomic regulation of viral replication. <i>Nature Reviews Microbiology</i> , 2020, 18, 559-570.	13.6	91
70	Acetylation of Cytidine Residues Boosts HIV-1 Gene Expression by Increasing Viral RNA Stability. <i>Cell Host and Microbe</i> , 2020, 28, 306-312.e6.	5.1	89
71	Molecular Basis for Cell Tropism of CXCR4-Dependent Human Immunodeficiency Virus Type 1 Isolates. <i>Journal of Virology</i> , 2001, 75, 6776-6785.	1.5	86
72	Five Questions about Viruses and MicroRNAs. <i>PLoS Pathogens</i> , 2010, 6, e1000787.	2.1	86

#	ARTICLE	IF	CITATIONS
73	Influenza A Virus Expresses High Levels of an Unusual Class of Small Viral Leader RNAs in Infected Cells. <i>MBio</i> , 2010, 1, .	1.8	80
74	Derivation and function of small interfering RNAs and microRNAs. <i>Virus Research</i> , 2004, 102, 3-9.	1.1	79
75	Targeting hepatitis B virus cccDNA using CRISPR/Cas9. <i>Antiviral Research</i> , 2015, 123, 188-192.	1.9	75
76	Production of functional small interfering RNAs by an amino-terminal deletion mutant of human Dicer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6945-54.	3.3	72
77	Identification of Viral MicroRNAs Expressed in Human Sacral Ganglia Latently Infected with Herpes Simplex Virus 2. <i>Journal of Virology</i> , 2010, 84, 1189-1192.	1.5	71
78	EBV Noncoding RNAs. <i>Current Topics in Microbiology and Immunology</i> , 2015, 391, 181-217.	0.7	71
79	Viral Epitranscriptomics. <i>Journal of Virology</i> , 2017, 91, .	1.5	66
80	Induction of stable RNA interference in mammalian cells. <i>Gene Therapy</i> , 2006, 13, 503-508.	2.3	65
81	Human Papillomavirus Genotype 31 Does Not Express Detectable MicroRNA Levels during Latent or Productive Virus Replication. <i>Journal of Virology</i> , 2006, 80, 10890-10893.	1.5	65
82	Cloning and analysis of microRNAs encoded by the primate $\hat{1}$ <sup>3</sup> -herpesvirus rhesus monkey rhadinovirus. <i>Virology</i> , 2007, 364, 21-27.	1.1	64
83	Search for MicroRNAs Expressed by Intracellular Bacterial Pathogens in Infected Mammalian Cells. <i>PLoS ONE</i> , 2014, 9, e106434.	1.1	59
84	MicroRNA target site identification by integrating sequence and binding information. <i>Nature Methods</i> , 2013, 10, 630-633.	9.0	56
85	Identification of Novel, Highly Expressed Retroviral MicroRNAs in Cells Infected by Bovine Foamy Virus. <i>Journal of Virology</i> , 2014, 88, 4679-4686.	1.5	56
86	Expression of CRISPR/Cas single guide RNAs using small tRNA promoters. <i>Rna</i> , 2015, 21, 1683-1689.	1.6	54
87	Bacterial CRISPR/Cas DNA endonucleases: A revolutionary technology that could dramatically impact viral research and treatment. <i>Virology</i> , 2015, 479-480, 213-220.	1.1	53
88	Extensive Epitranscriptomic Methylation of A and C Residues on Murine Leukemia Virus Transcripts Enhances Viral Gene Expression. <i>MBio</i> , 2019, 10, .	1.8	52
89	Herpesvirus microRNAs: phenotypes and functions. <i>Current Opinion in Virology</i> , 2011, 1, 211-215.	2.6	51
90	Evolutionary Conservation of Primate Lymphocryptovirus MicroRNA Targets. <i>Journal of Virology</i> , 2014, 88, 1617-1635.	1.5	51

#	ARTICLE	IF	CITATIONS
91	Does the human immunodeficiency virus tat trans-activator contain a discrete activation domain?. <i>Virology</i> , 1990, 178, 560-567.	1.1	48
92	Specific induction of endogenous viral restriction factors using CRISPR/Cas-derived transcriptional activators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E7249-56.	3.3	45
93	A Cluster of Virus-Encoded MicroRNAs Accelerates Acute Systemic Epstein-Barr Virus Infection but Does Not Significantly Enhance Virus-Induced Oncogenesis <i>in Vivo</i> . <i>Journal of Virology</i> , 2013, 87, 5437-5446.	1.5	44
94	How Do Viruses Avoid Inhibition by Endogenous Cellular MicroRNAs?. <i>PLoS Pathogens</i> , 2013, 9, e1003694.	2.1	43
95	Analysis of rhesus rhadinovirus microRNAs expressed in virus-induced tumors from infected rhesus macaques. <i>Virology</i> , 2010, 405, 592-599.	1.1	39
96	Viral RNAs: Lessons from the Enemy. <i>Cell</i> , 2009, 136, 592-597.	13.5	38
97	Structural and functional analysis of the avian leukemia virus constitutive transport element. <i>Rna</i> , 1999, 5, 1645-1655.	1.6	34
98	Viruses and RNA Interference: Issues and Controversies. <i>Journal of Virology</i> , 2014, 88, 12934-12936.	1.5	33
99	Targeting HPV16 DNA using CRISPR/Cas inhibits anal cancer growth <i>in vivo</i> . <i>Future Virology</i> , 2018, 13, 475-482.	0.9	33
100	Analysis of the mRNA Targetome of MicroRNAs Expressed by Marek's Disease Virus. <i>MBio</i> , 2014, 5, e01060-13.	1.8	32
101	Influenza A virus-derived siRNAs increase in the absence of NS1 yet fail to inhibit virus replication. <i>Rna</i> , 2018, 24, 1172-1182.	1.6	31
102	Epitranscriptomic addition of m <sup>6</sup> A regulates HIV-1 RNA stability and alternative splicing. <i>Genes and Development</i> , 2021, 35, 992-1004.	2.7	31
103	Probing RNA Conformational Equilibria within the Functional Cellular Context. <i>Cell Reports</i> , 2020, 30, 2472-2480.e4.	2.9	28
104	Insights into the mechanisms underlying the inactivation of HIV-1 proviruses by CRISPR/Cas. <i>Virology</i> , 2018, 520, 116-126.	1.1	27
105	Persistently adenovirus-infected lymphoid cells express microRNAs derived from the viral VAI and especially VAIL RNA. <i>Virology</i> , 2013, 447, 140-145.	1.1	26
106	The human endogenous retrovirus K Rev response element coincides with a predicted RNA folding region. <i>Rna</i> , 2000, 6, 1551-1564.	1.6	25
107	Gene Editing: A New Tool for Viral Disease. <i>Annual Review of Medicine</i> , 2017, 68, 401-411.	5.0	25
108	The Epstein-Barr virus miR-BHRF1 microRNAs regulate viral gene expression in cis. <i>Virology</i> , 2017, 512, 113-123.	1.1	24

#	ARTICLE	IF	CITATIONS
109	A "microRNA-like" small RNA expressed by Dengue virus?. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2359.	3.3	23
110	Epstein-Barr Viruses (EBVs) Deficient in EBV-Encoded RNAs Have Higher Levels of Latent Membrane Protein 2 RNA Expression in Lymphoblastoid Cell Lines and Efficiently Establish Persistent Infections in Humanized Mice. Journal of Virology, 2015, 89, 11711-11714.	1.5	20
111	Reversal of Epigenetic Silencing Allows Robust HIV-1 Replication in the Absence of Integrase Function. MBio, 2020, 11, .	1.8	19
112	Chaperoning a pathogen. Nature, 1994, 372, 319-320.	13.7	17
113	HIV-1 Vif: Counteracting Innate Antiretroviral Defenses. Molecular Therapy, 2003, 8, 525-527.	3.7	17
114	RNA Interference in Mammals: The Virus Strikes Back. Immunity, 2017, 46, 970-972.	6.6	15
115	Does RNA interference have a future as a treatment for HIV-1 induced disease?. AIDS Reviews, 2005, 7, 22-5.	0.5	14
116	Outwitted by Viral RNAs. Science, 2007, 317, 329-330.	6.0	13
117	Optimization of a multiplex CRISPR/Cas system for use as an antiviral therapeutic. Methods, 2015, 91, 82-86.	1.9	13
118	Induced Packaging of Cellular MicroRNAs into HIV-1 Virions Can Inhibit Infectivity. MBio, 2017, 8, .	1.8	13
119	Understanding the characteristics of nonspecific binding of drug-like compounds to canonical stem-loop RNAs and their implications for functional cellular assays. Rna, 2021, 27, 12-26.	1.6	13
120	Mapping of pseudouridine residues on cellular and viral transcripts using a novel antibody-based technique. Rna, 2021, 27, 1400-1411.	1.6	13
121	The positive effect of the negative factor. Nature, 1991, 351, 698-699.	13.7	12
122	HIV-1 Nef protein: An invitation to a kill. Nature Medicine, 1999, 5, 985-986.	15.2	11
123	Tax Induces the Recruitment of NF- $\kappa$ B to Unintegrated HIV-1 DNA To Rescue Viral Gene Expression and Replication. Journal of Virology, 2021, 95, e0028521.	1.5	11
124	Assaying Nuclear Messenger RNA Export in Human Cells. , 2004, 257, 085-092.		10
125	MicroRNA expression by an oncogenic retrovirus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2695-2696.	3.3	10
126	A lentiviral vector bearing a reverse intron demonstrates superior expression of both proteins and microRNAs. RNA Biology, 2017, 14, 1570-1579.	1.5	10



#	ARTICLE	IF	CITATIONS
127	A new entry route for HIV. <i>Nature Medicine</i> , 2001, 7, 20-21.	15.2	9
128	Protocols for Expression and Functional Analysis of Viral MicroRNAs. <i>Methods in Enzymology</i> , 2007, 427, 229-243.	0.4	6
129	Partial reconstitution of the RNAi response in human cells using <i>Drosophila</i> gene products. <i>Rna</i> , 2017, 23, 153-160.	1.6	6
130	New trick from an old foe. <i>Nature</i> , 1996, 379, 208-209.	13.7	5
131	Making a NeST for a Persistent Virus. <i>Cell Host and Microbe</i> , 2013, 13, 241-242.	5.1	3
132	Analysis of viral microRNA expression by elephant endotheliotropic herpesvirus 1. <i>Virology</i> , 2014, 454-455, 102-108.	1.1	3
133	The virology–RNA biology connection. <i>Rna</i> , 2015, 21, 592-594.	1.6	3
134	Mapping RNA Modifications Using Photo-Crosslinking-Assisted Modification Sequencing. <i>Methods in Molecular Biology</i> , 2021, 2298, 123-134.	0.4	3
135	Epitranscriptomic Addition of m <sup>5</sup> C to HIV-1 Transcripts Regulates Viral Gene Expression. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
136	Epitranscriptomic Regulation of HIV-1 Gene Expression by m <sup>5</sup> C and the Novel m <sup>5</sup> C Reader MBD2. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
137	HIV-1 Packing to Leave. <i>Cell</i> , 2014, 159, 975-976.	13.5	0
138	Interview with Bryan R Cullen. <i>Future Virology</i> , 2014, 9, 345-350.	0.9	0
139	Viruses, microRNAs and RNA Interference. <i>FASEB Journal</i> , 2009, 23, 194.3.	0.2	0