

# Matthew D Weitzman

## List of Publications by Year in descending order

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83  
papers

6,473  
citations

66234

42  
h-index

69108

77  
g-index

88  
all docs

88  
docs citations

88  
times ranked

6855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adenovirus oncoproteins inactivate the Mre11/Rad50/NBS1 DNA repair complex. <i>Nature</i> , 2002, 418, 348-352.	13.7	468
2	The Mre11 complex is required for ATM activation and the G2/M checkpoint. <i>EMBO Journal</i> , 2003, 22, 6610-6620.	3.5	435
3	APOBEC3A Is a Potent Inhibitor of Adeno-Associated Virus and Retrotransposons. <i>Current Biology</i> , 2006, 16, 480-485.	1.8	349
4	The MRN complex in double-strand break repair and telomere maintenance. <i>FEBS Letters</i> , 2010, 584, 3682-3695.	1.3	343
5	Codon-usage-based inhibition of HIV protein synthesis by human schlafen 11. <i>Nature</i> , 2012, 491, 125-128.	13.7	289
6	Differential L1 regulation in pluripotent stem cells of humans and apes. <i>Nature</i> , 2013, 503, 525-529.	13.7	220
7	DNA repair proteins affect the lifecycle of herpes simplex virus 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5844-5849.	3.3	216
8	Using or abusing: viruses and the cellular DNA damage response. <i>Trends in Microbiology</i> , 2007, 15, 119-126.	3.5	199
9	APOBEC3A can activate the DNA damage response and cause cell cycle arrest. <i>EMBO Reports</i> , 2011, 12, 444-450.	2.0	197
10	Impaired Death Receptor Signaling in Leukemia Causes Antigen-Independent Resistance by Inducing CAR T-cell Dysfunction. <i>Cancer Discovery</i> , 2020, 10, 552-567.	7.7	184
11	A viral E3 ligase targets RNF8 and RNF168 to control histone ubiquitination and DNA damage responses. <i>EMBO Journal</i> , 2010, 29, 943-955.	3.5	162
12	Genomes in Conflict: Maintaining Genome Integrity During Virus Infection. <i>Annual Review of Microbiology</i> , 2010, 64, 61-81.	2.9	161
13	SAMHD1 Restricts Herpes Simplex Virus 1 in Macrophages by Limiting DNA Replication. <i>Journal of Virology</i> , 2013, 87, 12949-12956.	1.5	123
14	Virus DNA Replication and the Host DNA Damage Response. <i>Annual Review of Virology</i> , 2018, 5, 141-164.	3.0	123
15	Deaminase-Independent Inhibition of Parvoviruses by the APOBEC3A Cytidine Deaminase. <i>PLoS Pathogens</i> , 2009, 5, e1000439.	2.1	120
16	APOBEC3A deaminates transiently exposed single-strand DNA during LINE-1 retrotransposition. <i>ELife</i> , 2014, 3, e02008.	2.8	113
17	Direct RNA sequencing reveals m6A modifications on adenovirus RNA are necessary for efficient splicing. <i>Nature Communications</i> , 2020, 11, 6016.	5.8	111
18	A core viral protein binds host nucleosomes to sequester immune danger signals. <i>Nature</i> , 2016, 535, 173-177.	13.7	110

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19	The Intrinsic Antiviral Defense to Incoming HSV-1 Genomes Includes Specific DNA Repair Proteins and Is Counteracted by the Viral Protein ICPO. <i>PLoS Pathogens</i> , 2011, 7, e1002084.	2.1	108
20	Adenovirus Type 5 E4orf3 Protein Targets the Mre11 Complex to Cytoplasmic Aggresomes. <i>Journal of Virology</i> , 2005, 79, 11382-11391.	1.5	102
21	Interactions of viruses with the cellular DNA repair machinery. <i>DNA Repair</i> , 2004, 3, 1165-1173.	1.3	101
22	Inactivating intracellular antiviral responses during adenovirus infection. <i>Oncogene</i> , 2005, 24, 7686-7696.	2.6	92
23	What's the Damage? The Impact of Pathogens on Pathways that Maintain Host Genome Integrity. <i>Cell Host and Microbe</i> , 2014, 15, 283-294.	5.1	90
24	Mislocalization of the MRN complex prevents ATR signaling during adenovirus infection. <i>EMBO Journal</i> , 2009, 28, 652-662.	3.5	87
25	Molecular Adaptors for Vascular-Targeted Adenoviral Gene Delivery. <i>Human Gene Therapy</i> , 2000, 11, 1971-1981.	1.4	86
26	Serotype-Specific Reorganization of the Mre11 Complex by Adenoviral E4orf3 Proteins. <i>Journal of Virology</i> , 2005, 79, 6664-6673.	1.5	86
27	Time-resolved Global and Chromatin Proteomics during Herpes Simplex Virus Type 1 (HSV-1) Infection. <i>Molecular and Cellular Proteomics</i> , 2017, 16, S92-S107.	2.5	76
28	STAT3/BDNF/TrkB signalling promotes alveolar epithelial regeneration after lung injury. <i>Nature Cell Biology</i> , 2020, 22, 1197-1210.	4.6	71
29	Viral E3 Ubiquitin Ligase-Mediated Degradation of a Cellular E3: Viral Mimicry of a Cellular Phosphorylation Mark Targets the RNF8 FHA Domain. <i>Molecular Cell</i> , 2012, 46, 79-90.	4.5	69
30	APOBEC3A damages the cellular genome during DNA replication. <i>Cell Cycle</i> , 2016, 15, 998-1008.	1.3	69
31	Structure-Function Analyses Point to a Polynucleotide-Accommodating Groove Essential for APOBEC3A Restriction Activities. <i>Journal of Virology</i> , 2011, 85, 1765-1776.	1.5	67
32	The Adenovirus E1b55K/E4orf6 Complex Induces Degradation of the Bloom Helicase during Infection. <i>Journal of Virology</i> , 2011, 85, 1887-1892.	1.5	66
33	Functions of the adenovirus E4 proteins and their impact on viral vectors. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 1106.	3.0	65
34	The spectrum of APOBEC3 activity: From anti-viral agents to anti-cancer opportunities. <i>DNA Repair</i> , 2019, 83, 102700.	1.3	65
35	A Functional Complex of Adenovirus Proteins E1B-55kDa and E4orf6 Is Necessary To Modulate the Expression Level of p53 but Not Its Transcriptional Activity. <i>Journal of Virology</i> , 2000, 74, 11407-11412.	1.5	64
36	The Rep Protein of Adeno-Associated Virus Type 2 Interacts with Single-Stranded DNA-Binding Proteins That Enhance Viral Replication. <i>Journal of Virology</i> , 2004, 78, 441-453.	1.5	60

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37	Distinct Requirements of Adenovirus E1b55K Protein for Degradation of Cellular Substrates. <i>Journal of Virology</i> , 2008, 82, 9043-9055.	1.5	60
38	OncomiR Addiction Is Generated by a miR-155 Feedback Loop in Theileria-Transformed Leukocytes. <i>PLoS Pathogens</i> , 2013, 9, e1003222.	2.1	54
39	The HSV-1 ubiquitin ligase ICPO: Modifying the cellular proteome to promote infection. <i>Virus Research</i> , 2020, 285, 198015.	1.1	54
40	Differential Requirements of the C Terminus of Nbs1 in Suppressing Adenovirus DNA Replication and Promoting Concatemer Formation. <i>Journal of Virology</i> , 2008, 82, 8362-8372.	1.5	52
41	Identifying Host Factors Associated with DNA Replicated During Virus Infection. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 2079-2097.	2.5	49
42	Viral and cellular interactions during adenovirus DNA replication. <i>FEBS Letters</i> , 2019, 593, 3531-3550.	1.3	49
43	Cytosine Deaminase APOBEC3A Sensitizes Leukemia Cells to Inhibition of the DNA Replication Checkpoint. <i>Cancer Research</i> , 2017, 77, 4579-4588.	0.4	48
44	Structural and functional analysis of Mre11-3. <i>Nucleic Acids Research</i> , 2004, 32, 1886-1893.	6.5	46
45	SAMHD1 Modulates Early Steps during Human Cytomegalovirus Infection by Limiting NF- $\kappa$ B Activation. <i>Cell Reports</i> , 2019, 28, 434-448.e6.	2.9	40
46	Genotypic and Phenotypic Diversity of Herpes Simplex Virus 2 within the Infected Neonatal Population. <i>MSphere</i> , 2019, 4, .	1.3	40
47	Quantitative live cell imaging reveals influenza virus manipulation of Rab11A transport through reduced dynein association. <i>Nature Communications</i> , 2020, 11, 23.	5.8	37
48	Rep-Dependent Initiation of Adeno-Associated Virus Type 2 DNA Replication by a Herpes Simplex Virus Type 1 Replication Complex in a Reconstituted System. <i>Journal of Virology</i> , 2001, 75, 10250-10258.	1.5	35
49	Take your PIKK: tumour viruses and DNA damage response pathways. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160269.	1.8	34
50	Replication Compartments of DNA Viruses in the Nucleus: Location, Location, Location. <i>Viruses</i> , 2020, 12, 151.	1.5	34
51	An Intrinsically Disordered Region of the DNA Repair Protein Nbs1 Is a Species-Specific Barrier to Herpes Simplex Virus 1 in Primates. <i>Cell Host and Microbe</i> , 2016, 20, 178-188.	5.1	33
52	Adenovirus Core Protein VII Downregulates the DNA Damage Response on the Host Genome. <i>Journal of Virology</i> , 2017, 91, .	1.5	32
53	Coalescing replication compartments provide the opportunity for recombination between coinfecting herpesviruses. <i>FASEB Journal</i> , 2019, 33, 9388-9403.	0.2	30
54	HSV-1 Remodels Host Telomeres to Facilitate Viral Replication. <i>Cell Reports</i> , 2014, 9, 2263-2278.	2.9	28

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55	Adeno-Associated Virus Genome Interactions Important for Vector Production and Transduction. <i>Human Gene Therapy</i> , 2020, 31, 499-511.	1.4	27
56	Comparative proteomics identifies Schlafen 5 (SLFN5) as a herpes simplex virus restriction factor that suppresses viral transcription. <i>Nature Microbiology</i> , 2021, 6, 234-245.	5.9	27
57	DRUMMERâ€™ rapid detection of RNA modifications through comparative nanopore sequencing. <i>Bioinformatics</i> , 2022, 38, 3113-3115.	1.8	26
58	Overexpression of Cyclin A Inhibits Augmentation of Recombinant Adeno-Associated Virus Transduction by the Adenovirus E4orf6 Protein. <i>Journal of Virology</i> , 1999, 73, 10010-10019.	1.5	24
59	Ubiquitination at the interface of tumor viruses and DNA damage responses. <i>Current Opinion in Virology</i> , 2018, 32, 40-47.	2.6	23
60	Adenovirus-mediated ubiquitination alters proteinâ€™RNA binding and aids viral RNA processing. <i>Nature Microbiology</i> , 2020, 5, 1217-1231.	5.9	22
61	Antigen glycosylation regulates efficacy of CAR T cells targeting CD19. <i>Nature Communications</i> , 2022, 13, .	5.8	21
62	Characterization of histone post-translational modifications during virus infection using mass spectrometry-based proteomics. <i>Methods</i> , 2015, 90, 8-20.	1.9	20
63	Herpes simplex virus replication compartments: From naked release to recombining together. <i>PLoS Pathogens</i> , 2019, 15, e1007714.	2.1	20
64	APOBEC3 proteins and genomic stability. <i>Cell Cycle</i> , 2012, 11, 33-38.	1.3	19
65	Changing the ubiquitin landscape during viral manipulation of the DNA damage response. <i>FEBS Letters</i> , 2011, 585, 2897-2906.	1.3	18
66	Viral Ubiquitin Ligase Stimulates Selective Host MicroRNA Expression by Targeting ZEB Transcriptional Repressors. <i>Viruses</i> , 2017, 9, 210.	1.5	14
67	Serotype-specific restriction of wild-type adenoviruses by the cellular Mre11-Rad50-Nbs1 complex. <i>Virology</i> , 2018, 518, 221-231.	1.1	13
68	Histone Modifications in Papillomavirus Virion Minichromosomes. <i>MBio</i> , 2021, 12, .	1.8	13
69	Schlafens Can Put Viruses to Sleep. <i>Viruses</i> , 2022, 14, 442.	1.5	11
70	The Viral Polymerase Complex Mediates the Interaction of Viral Ribonucleoprotein Complexes with Recycling Endosomes during Sendai Virus Assembly. <i>MBio</i> , 2020, 11, .	1.8	10
71	Adenovirus prevents dsRNA formation by promoting efficient splicing of viral RNA. <i>Nucleic Acids Research</i> , 2022, 50, 1201-1220.	6.5	10
72	Stress Flips a Chromatin Switch to Wake Up Latent Virus. <i>Cell Host and Microbe</i> , 2015, 18, 639-641.	5.1	7

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73	Interaction with the CCT chaperonin complex limits APOBEC3A cytidine deaminase cytotoxicity. EMBO Reports, 2021, 22, e52145.	2.0	7
74	Repair of protein-linked DNA double strand breaks: Using the adenovirus genome as a model substrate in cell-based assays. DNA Repair, 2019, 74, 80-90.	1.3	6
75	Adenovirus Remodeling of the Host Proteome and Host Factors Associated with Viral Genomes. MSystems, 2021, 6, e0046821.	1.7	6
76	Targeted Integration by Adeno-Associated Virus. , 2003, 76, 201-220.		5
77	Antigen Glycosylation Is a Central Regulator of CAR T Cell Efficacy. Blood, 2021, 138, 1721-1721.	0.6	2
78	Herpes Simplex Virus-2 Variation Contributes to Neurovirulence During Neonatal Infection. Journal of Infectious Diseases, 2022, 226, 1499-1509.	1.9	2
79	A Tribute to Barrie J. Carter. Human Gene Therapy, 2020, 31, 491-493.	1.4	1
80	CAR T Cell Cytotoxicity Is Dependent on Death Receptor-Driven Apoptosis. Blood, 2018, 132, 698-698.	0.6	1
81	VP22 flips the switch on cell death. Molecular Therapy, 2003, 7, 146-147.	3.7	0
82	173. HSV-2 Isolates from Neonates with Different Clinical Outcomes Exhibit Different in Vitro and in Vivo phenotypes. Open Forum Infectious Diseases, 2020, 7, S215-S216.	0.4	0
83	N6-Methyladenosine (m <sup>6</sup> A) Modifies Regenerative Transcripts in the Intestinal Epithelium. FASEB Journal, 2022, 36, .	0.2	0