

# Michael R Holbrook

## List of Publications by Year in descending order

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109  
papers

5,795  
citations

71102

41  
h-index

88630

70  
g-index

122  
all docs

122  
docs citations

122  
times ranked

8557  
citing authors

#	ARTICLE	IF	CITATIONS
1	Repurposing of Clinically Developed Drugs for Treatment of Middle East Respiratory Syndrome Coronavirus Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 4885-4893.	3.2	564
2	Antiviral Potential of ERK/MAPK and PI3K/AKT/mTOR Signaling Modulation for Middle East Respiratory Syndrome Coronavirus Infection as Identified by Temporal Kinome Analysis. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1088-1099.	3.2	344
3	A broad-spectrum antiviral targeting entry of enveloped viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3157-3162.	7.1	214
4	Interferon- $\beta$ and mycophenolic acid are potent inhibitors of Middle East respiratory syndrome coronavirus in cell-based assays. <i>Journal of General Virology</i> , 2014, 95, 571-577.	2.9	191
5	The NS5 Protein of the Virulent West Nile Virus NY99 Strain Is a Potent Antagonist of Type I Interferon-Mediated JAK-STAT Signaling. <i>Journal of Virology</i> , 2010, 84, 3503-3515.	3.4	189
6	Phosphoinositide-3 Kinase-Akt Pathway Controls Cellular Entry of Ebola Virus. <i>PLoS Pathogens</i> , 2008, 4, e1000141.	4.7	168
7	Historical Perspectives on Flavivirus Research. <i>Viruses</i> , 2017, 9, 97.	3.3	129
8	Defining the risk of SARS-CoV-2 variants on immune protection. <i>Nature</i> , 2022, 605, 640-652.	27.8	117
9	Broadly neutralizing antibodies target the coronavirus fusion peptide. <i>Science</i> , 2022, 377, 728-735.	12.6	111
10	Three-Dimensional Organization of Rift Valley Fever Virus Revealed by Cryoelectron Tomography. <i>Journal of Virology</i> , 2008, 82, 10341-10348.	3.4	110
11	Ubiquitin-Regulated Nuclear-Cytoplasmic Trafficking of the Nipah Virus Matrix Protein Is Important for Viral Budding. <i>PLoS Pathogens</i> , 2010, 6, e1001186.	4.7	110
12	Single-particle cryo-electron microscopy of Rift Valley fever virus. <i>Virology</i> , 2009, 387, 11-15.	2.4	106
13	Antibody Quality and Protection from Lethal Ebola Virus Challenge in Nonhuman Primates Immunized with Rabies Virus Based Bivalent Vaccine. <i>PLoS Pathogens</i> , 2013, 9, e1003389.	4.7	106
14	Combined chloroquine and ribavirin treatment does not prevent death in a hamster model of Nipah and Hendra virus infection. <i>Journal of General Virology</i> , 2010, 91, 765-772.	2.9	104
15	Human polyclonal immunoglobulin G from transchromosomal bovines inhibits MERS-CoV in vivo. <i>Science Translational Medicine</i> , 2016, 8, 326ra21.	12.4	102
16	Kyasanur forest disease. <i>Antiviral Research</i> , 2012, 96, 353-362.	4.1	101
17	Solution Structure and Antibody Binding Studies of the Envelope Protein Domain III from the New York Strain of West Nile Virus. <i>Journal of Biological Chemistry</i> , 2004, 279, 38755-38761.	3.4	94
18	T-705 (Favipiravir) Inhibition of Arenavirus Replication in Cell Culture. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 782-787.	3.2	94

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19	MERS-CoV pathogenesis and antiviral efficacy of licensed drugs in human monocyte-derived antigen-presenting cells. <i>PLoS ONE</i> , 2018, 13, e0194868.	2.5	93
20	Antiviral activities of ISG20 in positive-strand RNA virus infections. <i>Virology</i> , 2011, 409, 175-188.	2.4	85
21	Bispecific antibodies targeting distinct regions of the spike protein potentially neutralize SARS-CoV-2 variants of concern. <i>Science Translational Medicine</i> , 2021, 13, eabj5413.	12.4	79
22	Animal models of highly pathogenic RNA viral infections: Hemorrhagic fever viruses. <i>Antiviral Research</i> , 2008, 78, 79-90.	4.1	77
23	Inactivated or Live-Attenuated Bivalent Vaccines That Confer Protection against Rabies and Ebola Viruses. <i>Journal of Virology</i> , 2011, 85, 10605-10616.	3.4	75
24	Inactivation and safety testing of Middle East Respiratory Syndrome Coronavirus. <i>Journal of Virological Methods</i> , 2015, 223, 13-18.	2.1	75
25	Clinical, laboratory, and temporal predictors of neutralizing antibodies against SARS-CoV-2 among COVID-19 convalescent plasma donor candidates. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	72
26	Release of Dengue Virus Genome Induced by a Peptide Inhibitor. <i>PLoS ONE</i> , 2012, 7, e50995.	2.5	71
27	A replication-incompetent Rift Valley fever vaccine: Chimeric virus-like particles protect mice and rats against lethal challenge. <i>Virology</i> , 2010, 397, 187-198.	2.4	67
28	3B11-N, a monoclonal antibody against MERS-CoV, reduces lung pathology in rhesus monkeys following intratracheal inoculation of MERS-CoV Jordan-n3/2012. <i>Virology</i> , 2016, 490, 49-58.	2.4	67
29	Injectable peramivir mitigates disease and promotes survival in ferrets and mice infected with the highly virulent influenza virus, A/Vietnam/1203/04 (H5N1). <i>Virology</i> , 2008, 374, 198-209.	2.4	66
30	Use of a Recombinant Envelope Protein Subunit Antigen for Specific Serological Diagnosis of West Nile Virus Infection. <i>Journal of Clinical Microbiology</i> , 2004, 42, 2759-2765.	3.9	59
31	An Animal Model for the Tickborne Flavivirus "Omsk Hemorrhagic Fever Virus. <i>Journal of Infectious Diseases</i> , 2005, 191, 100-108.	4.0	57
32	Nucleotide sequencing and serological evidence that the recently recognized deer tick virus is a genotype of Powassan virus. <i>Virus Research</i> , 2001, 79, 81-89.	2.2	55
33	Use of Recombinant E Protein Domain III-Based Enzyme-Linked Immunosorbent Assays for Differentiation of Tick-Borne Encephalitis Serocomplex Flaviviruses from Mosquito-Borne Flaviviruses. <i>Journal of Clinical Microbiology</i> , 2004, 42, 4101-4110.	3.9	54
34	A VLP-based vaccine provides complete protection against Nipah virus challenge following multiple-dose or single-dose vaccination schedules in a hamster model. <i>Npj Vaccines</i> , 2017, 2, 21.	6.0	54
35	Naturally Acquired SARS-CoV-2 Immunity Persists for Up to 11 Months Following Infection. <i>Journal of Infectious Diseases</i> , 2021, 224, 1294-1304.	4.0	52
36	IFN- $\gamma$ T cells promote the maturation of dendritic cells during West Nile virus infection. <i>FEMS Immunology and Medical Microbiology</i> , 2010, 59, 71-80.	2.7	51

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37	Yellow fever virus strains Asibi and 17D-204 infect human umbilical cord endothelial cells and induce novel changes in gene expression. <i>Virology</i> , 2005, 342, 167-176.	2.4	50
38	Identification of Combinations of Approved Drugs With Synergistic Activity Against Ebola Virus in Cell Cultures. <i>Journal of Infectious Diseases</i> , 2018, 218, S672-S678.	4.0	49
39	Recombinant Rift Valley fever vaccines induce protective levels of antibody in baboons and resistance to lethal challenge in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14926-14931.	7.1	47
40	Intratracheal exposure of common marmosets to MERS-CoV Jordan-n3/2012 or MERS-CoV EMC/2012 isolates does not result in lethal disease. <i>Virology</i> , 2015, 485, 422-430.	2.4	47
41	Chemotactic and Inflammatory Responses in the Liver and Brain Are Associated with Pathogenesis of Rift Valley Fever Virus Infection in the Mouse. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1529.	3.0	46
42	Analysis of the complete genome of the tick-borne flavivirus Omsk hemorrhagic fever virus. <i>Virology</i> , 2003, 313, 81-90.	2.4	44
43	Animal models of viral hemorrhagic fever. <i>Antiviral Research</i> , 2014, 112, 59-79.	4.1	42
44	Solution Structure and Structural Dynamics of Envelope Protein Domain III of Mosquito- and Tick-Borne Flaviviruses. <i>Biochemistry</i> , 2004, 43, 9168-9176.	2.5	38
45	A Complex Adenovirus-Vectored Vaccine against Rift Valley Fever Virus Protects Mice against Lethal Infection in the Presence of Preexisting Vector Immunity. <i>Vaccine Journal</i> , 2009, 16, 1624-1632.	3.1	38
46	Framework for Leadership and Training of Biosafety Level 4 Laboratory Workers. <i>Emerging Infectious Diseases</i> , 2008, 14, 1685-1688.	4.3	38
47	Tick-Borne Flaviviruses. <i>Clinics in Laboratory Medicine</i> , 2010, 30, 221-235.	1.4	37
48	Clinical evaluation of highly pathogenic tick-borne flavivirus infection in the mouse model. <i>Journal of Medical Virology</i> , 2009, 81, 1261-1269.	5.0	36
49	Cross-neutralisation of viruses of the tick-borne encephalitis complex following tick-borne encephalitis vaccination and/or infection. <i>Npj Vaccines</i> , 2017, 2, 5.	6.0	36
50	Loss in lung volume and changes in the immune response demonstrate disease progression in African green monkeys infected by small-particle aerosol and intratracheal exposure to Nipah virus. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005532.	3.0	36
51	Clinical grade ACE2 as a universal agent to block SARS-CoV-2 variants. <i>EMBO Molecular Medicine</i> , 2022, 14, .	6.9	35
52	Identification of novel cellular targets for therapeutic intervention against Ebola virus infection by siRNA screening. <i>Drug Development Research</i> , 2009, 70, 255-265.	2.9	33
53	Ebola Virus Localization in the Macaque Reproductive Tract during Acute Ebola Virus Disease. <i>American Journal of Pathology</i> , 2018, 188, 550-558.	3.8	33
54	An Assembly Model of Rift Valley Fever Virus. <i>Frontiers in Microbiology</i> , 2012, 3, 254.	3.5	32

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55	Testing therapeutics in cell-based assays: Factors that influence the apparent potency of drugs. PLoS ONE, 2018, 13, e0194880.	2.5	31
56	A catalytically and genetically optimized Î²-lactamase-matrix based assay for sensitive, specific, and higher throughput analysis of native henipavirus entry characteristics. Virology Journal, 2009, 6, 119.	3.4	29
57	A proposal to change existing virus species names to non-Latinized binomials. Archives of Virology, 2010, 155, 1909-1919.	2.1	29
58	Characterization of Yellow Fever Virus Infection of Human and Non-human Primate Antigen Presenting Cells and Their Interaction with CD4+ T Cells. PLoS Neglected Tropical Diseases, 2016, 10, e0004709.	3.0	29
59	A Critical Determinant of Neurological Disease Associated with Highly Pathogenic Tick-Borne Flavivirus in Mice. Journal of Virology, 2014, 88, 5406-5420.	3.4	28
60	Evaluation of the Activity of Lamivudine and Zidovudine against Ebola Virus. PLoS ONE, 2016, 11, e0166318.	2.5	28
61	The Calcium Channel Blocker Bepridil Demonstrates Efficacy in the Murine Model of Marburg Virus Disease. Journal of Infectious Diseases, 2018, 218, S588-S591.	4.0	28
62	Aerosol exposure to intermediate size Nipah virus particles induces neurological disease in African green monkeys. PLoS Neglected Tropical Diseases, 2018, 12, e0006978.	3.0	26
63	Asymmetric and non-stoichiometric glycoprotein recognition by two distinct antibodies results in broad protection against ebolaviruses. Cell, 2022, 185, 995-1007.e18.	28.9	26
64	T cell receptor sequencing identifies prior SARS-CoV-2 infection and correlates with neutralizing antibodies and disease severity. JCI Insight, 2022, 7, .	5.0	26
65	Construction of an infectious cDNA clone for Omsk hemorrhagic fever virus, and characterization of mutations in NS2A and NS5. Virus Research, 2011, 155, 61-68.	2.2	25
66	Development of a novel real-time polymerase chain reaction assay for the quantitative detection of Nipah virus replicative viral RNA. PLoS ONE, 2018, 13, e0199534.	2.5	25
67	Comparative Pathogenesis of Alkhumra Hemorrhagic Fever and Kyasanur Forest Disease Viruses in a Mouse Model. PLoS Neglected Tropical Diseases, 2014, 8, e2934.	3.0	24
68	Animal models of highly pathogenic RNA viral infections: Encephalitis viruses. Antiviral Research, 2008, 78, 69-78.	4.1	23
69	The SKI complex is a broad-spectrum, host-directed antiviral drug target for coronaviruses, influenza, and filoviruses. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30687-30698.	7.1	22
70	Differential cytokine responses from primary human Kupffer cells following infection with wild-type or vaccine strain yellow fever virus. Virology, 2011, 412, 188-195.	2.4	21
71	Scalable, Micro-Neutralization Assay for Assessment of SARS-CoV-2 (COVID-19) Virus-Neutralizing Antibodies in Human Clinical Samples. Viruses, 2021, 13, 893.	3.3	21
72	Epidermal Growth Factor Receptor Internalization Rate Is Regulated by Negative Charges near the SH2 Binding Site Tyr992. Biochemistry, 1999, 38, 9348-9356.	2.5	20

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73	Repurposing Pyramax <sup>®</sup> , quinacrine and tilorone as treatments for Ebola virus disease. <i>Antiviral Research</i> , 2020, 182, 104908.	4.1	20
74	Novel suspension cell-based vaccine production systems for Rift Valley fever virus-like particles. <i>Journal of Virological Methods</i> , 2010, 169, 259-268.	2.1	19
75	Comparative analysis of immune responses to Russian spring-summer encephalitis and Omsk hemorrhagic fever viruses in mouse models. <i>Virology</i> , 2010, 408, 57-63.	2.4	19
76	Molecular determinants of antigenicity of two subtypes of the tick-borne flavivirus Omsk haemorrhagic fever virus. <i>Journal of General Virology</i> , 2004, 85, 1619-1624.	2.9	18
77	Peripheral immune response in the African green monkey model following Nipah-Malaysia virus exposure by intermediate-size particle aerosol. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007454.	3.0	18
78	Structure of the envelope protein domain III of Omsk hemorrhagic fever virus. <i>Virology</i> , 2006, 351, 188-195.	2.4	17
79	Amino Acid Substitution(s) in the Stem-Anchor Region of Langat Virus Envelope Protein Attenuates Mouse Neurovirulence. <i>Virology</i> , 2001, 286, 54-61.	2.4	16
80	Sub-genomic replicon and virus-like particles of Omsk hemorrhagic fever virus. <i>Archives of Virology</i> , 2009, 154, 573-580.	2.1	16
81	Safety Precautions and Operating Procedures in an (A)BSL-4 Laboratory: 1. Biosafety Level 4 Suit Laboratory Suite Entry and Exit Procedures. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	16
82	In Vivo Activity of Amodiaquine against Ebola Virus Infection. <i>Scientific Reports</i> , 2019, 9, 20199.	3.3	16
83	Pyronaridine tetraphosphate efficacy against Ebola virus infection in guinea pig. <i>Antiviral Research</i> , 2020, 181, 104863.	4.1	16
84	Coagulation factors, fibrinogen and plasminogen activator inhibitor-1, are differentially regulated by yellow fever virus infection of hepatocytes. <i>Virus Research</i> , 2013, 175, 155-159.	2.2	14
85	Infection of hepatocytes with 17-D vaccine-strain yellow fever virus induces a strong pro-inflammatory host response. <i>Journal of General Virology</i> , 2011, 92, 2262-2271.	2.9	14
86	Formulation, Stability, Pharmacokinetic, and Modeling Studies for Tests of Synergistic Combinations of Orally Available Approved Drugs against Ebola Virus In Vivo. <i>Microorganisms</i> , 2021, 9, 566.	3.6	13
87	Cytokine response in mouse bone marrow derived macrophages after infection with pathogenic and non-pathogenic Rift Valley fever virus. <i>Journal of General Virology</i> , 2015, 96, 1651-1663.	2.9	13
88	The French neurotropic vaccine strain of yellow fever virus accumulates mutations slowly during passage in cell culture. <i>Virus Research</i> , 2000, 69, 31-39.	2.2	12
89	Scalable, semi-automated fluorescence reduction neutralization assay for qualitative assessment of Ebola virus-neutralizing antibodies in human clinical samples. <i>PLoS ONE</i> , 2019, 14, e0221407.	2.5	11
90	The Use of Large-Particle Aerosol Exposure to Nipah Virus to Mimic Human Neurological Disease Manifestations in the African Green Monkey. <i>Journal of Infectious Diseases</i> , 2020, 221, S419-S430.	4.0	11

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91	Kyasanur Forest disease virus infection activates human vascular endothelial cells and monocyte-derived dendritic cells. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-12.	6.5	10
92	Nucleotide sequence and deduced amino acid sequence of the medium RNA segment of Oropouche, a Simbu serogroup virus: Comparison with the middle RNA of Bunyamwera and California serogroup viruses. <i>Virus Research</i> , 2001, 73, 153-162.	2.2	9
93	Crystallization and preliminary X-ray diffraction analysis of Langat virus envelope protein domain III. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1049-1051.	2.5	9
94	Expanded Histopathology and Tropism of Ebola Virus in the Rhesus Macaque Model. <i>American Journal of Pathology</i> , 2022, 192, 121-129.	3.8	9
95	The Human Sodium Iodide Symporter as a Reporter Gene for Studying Middle East Respiratory Syndrome Coronavirus Pathogenesis. <i>MSphere</i> , 2018, 3, .	2.9	8
96	Thermodynamic mixing of molecular states of the epidermal growth factor receptor modulates macroscopic ligand binding affinity. <i>Biochemical Journal</i> , 2000, 352, 99.	3.7	7
97	Langat Virus M Protein Is Structurally Homologous to prM. <i>Journal of Virology</i> , 2001, 75, 3999-4001.	3.4	6
98	Safety Precautions and Operating Procedures in an (A)BSL-4 Laboratory: 2. General Practices. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	6
99	Safety Precautions and Operating Procedures in an (A)BSL-4 Laboratory: 4. Medical Imaging Procedures. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	6
100	Safety Precautions and Operating Procedures in an (A)BSL-4 Laboratory: 3. Aerobiology. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	6
101	VIPR: a probabilistic algorithm for analysis of microbial detection microarrays. <i>BMC Bioinformatics</i> , 2010, 11, 384.	2.6	5
102	Potential Impact of a 2-Person Security Rule on BioSafety Level 4 Laboratory Workers. <i>Emerging Infectious Diseases</i> , 2009, 15, e1-e1.	4.3	5
103	COVID-19 Antibody Detection and Assay Performance Using Red Cell Agglutination. <i>Microbiology Spectrum</i> , 2021, 9, e0083021.	3.0	3
104	Letter to the Editor:1H,13C and15N Resonance Assignments for Domain III of the West Nile Virus Envelope Protein. <i>Journal of Biomolecular NMR</i> , 2004, 29, 445-446.	2.8	2
105	<i>How do I</i> facilitate a rapid response to a public health emergency requiring plasma collection with a publicâ€ private partnership?. <i>Transfusion</i> , 2021, 61, 2814-2824.	1.6	2
106	Tick-Borne Encephalitis. , 2009, , 713-734.		1
107	Neurotropic Viruses. , 2019, , 1-20.		1
108	Tick-borne Encephalitis and Omsk Hemorrhagic Fever. , 2011, , 515-518.		0

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109	Will a Single-Cycle Adenovirus Vaccine Be Effective Against Ebola Virus?. Journal of Infectious Diseases, 2018, 218, 1858-1860.	4.0	0