

Michael R Holbrook

List of Publications by Year in descending order

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109
papers

5,795
citations

70961

41
h-index

88477

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.	1.4	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.	1.4	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.	3.3	214
4	Interferon- β 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.	1.3	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.	1.5	189
6	Phosphoinositide-3 Kinase-Akt Pathway Controls Cellular Entry of Ebola Virus. <i>PLoS Pathogens</i> , 2008, 4, e1000141.	2.1	168
7	Historical Perspectives on Flavivirus Research. <i>Viruses</i> , 2017, 9, 97.	1.5	129
8	Defining the risk of SARS-CoV-2 variants on immune protection. <i>Nature</i> , 2022, 605, 640-652.	13.7	117
9	Broadly neutralizing antibodies target the coronavirus fusion peptide. <i>Science</i> , 2022, 377, 728-735.	6.0	111
10	Three-Dimensional Organization of Rift Valley Fever Virus Revealed by Cryoelectron Tomography. <i>Journal of Virology</i> , 2008, 82, 10341-10348.	1.5	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.	2.1	110
12	Single-particle cryo-electron microscopy of Rift Valley fever virus. <i>Virology</i> , 2009, 387, 11-15.	1.1	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.	2.1	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.	1.3	104
15	Human polyclonal immunoglobulin G from transchromosomal bovines inhibits MERS-CoV in vivo. <i>Science Translational Medicine</i> , 2016, 8, 326ra21.	5.8	102
16	Kyasanur forest disease. <i>Antiviral Research</i> , 2012, 96, 353-362.	1.9	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.	1.6	94
18	T-705 (Favipiravir) Inhibition of Arenavirus Replication in Cell Culture. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 782-787.	1.4	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.	1.1	93
20	Antiviral activities of ISG20 in positive-strand RNA virus infections. <i>Virology</i> , 2011, 409, 175-188.	1.1	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.	5.8	79
22	Animal models of highly pathogenic RNA viral infections: Hemorrhagic fever viruses. <i>Antiviral Research</i> , 2008, 78, 79-90.	1.9	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.	1.5	75
24	Inactivation and safety testing of Middle East Respiratory Syndrome Coronavirus. <i>Journal of Virological Methods</i> , 2015, 223, 13-18.	1.0	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, .	3.9	72
26	Release of Dengue Virus Genome Induced by a Peptide Inhibitor. <i>PLoS ONE</i> , 2012, 7, e50995.	1.1	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.	1.1	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.	1.1	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.	1.1	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.	1.8	59
31	An Animal Model for the Tickborne Flavivirus "Omsk Hemorrhagic Fever Virus. <i>Journal of Infectious Diseases</i> , 2005, 191, 100-108.	1.9	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.	1.1	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.	1.8	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.	2.9	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.	1.9	52
36	IFN- γ 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.	1.1	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.	1.9	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.	3.3	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.	1.1	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.	1.3	46
42	Analysis of the complete genome of the tick-borne flavivirus Omsk hemorrhagic fever virus. <i>Virology</i> , 2003, 313, 81-90.	1.1	44
43	Animal models of viral hemorrhagic fever. <i>Antiviral Research</i> , 2014, 112, 59-79.	1.9	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.	1.2	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.	3.2	38
46	Framework for Leadership and Training of Biosafety Level 4 Laboratory Workers. <i>Emerging Infectious Diseases</i> , 2008, 14, 1685-1688.	2.0	38
47	Tick-Borne Flaviviruses. <i>Clinics in Laboratory Medicine</i> , 2010, 30, 221-235.	0.7	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.	2.5	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.	2.9	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.	1.3	36
51	Clinical grade ACE2 as a universal agent to block SARS-CoV-2 variants. <i>EMBO Molecular Medicine</i> , 2022, 14, .	3.3	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.	1.4	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.	1.9	33
54	An Assembly Model of Rift Valley Fever Virus. <i>Frontiers in Microbiology</i> , 2012, 3, 254.	1.5	32

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55	Testing therapeutics in cell-based assays: Factors that influence the apparent potency of drugs. <i>PLoS ONE</i> , 2018, 13, e0194880.	1.1	31
56	A catalytically and genetically optimized β -lactamase-matrix based assay for sensitive, specific, and higher throughput analysis of native henipavirus entry characteristics. <i>Virology Journal</i> , 2009, 6, 119.	1.4	29
57	A proposal to change existing virus species names to non-Latinized binomials. <i>Archives of Virology</i> , 2010, 155, 1909-1919.	0.9	29
58	Characterization of Yellow Fever Virus Infection of Human and Non-human Primate Antigen Presenting Cells and Their Interaction with CD4+ T Cells. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004709.	1.3	29
59	A Critical Determinant of Neurological Disease Associated with Highly Pathogenic Tick-Borne Flavivirus in Mice. <i>Journal of Virology</i> , 2014, 88, 5406-5420.	1.5	28
60	Evaluation of the Activity of Lamivudine and Zidovudine against Ebola Virus. <i>PLoS ONE</i> , 2016, 11, e0166318.	1.1	28
61	The Calcium Channel Blocker Bepridil Demonstrates Efficacy in the Murine Model of Marburg Virus Disease. <i>Journal of Infectious Diseases</i> , 2018, 218, S588-S591.	1.9	28
62	Aerosol exposure to intermediate size Nipah virus particles induces neurological disease in African green monkeys. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006978.	1.3	26
63	Asymmetric and non-stoichiometric glycoprotein recognition by two distinct antibodies results in broad protection against ebolaviruses. <i>Cell</i> , 2022, 185, 995-1007.e18.	13.5	26
64	T cell receptor sequencing identifies prior SARS-CoV-2 infection and correlates with neutralizing antibodies and disease severity. <i>JCI Insight</i> , 2022, 7, .	2.3	26
65	Construction of an infectious cDNA clone for Omsk hemorrhagic fever virus, and characterization of mutations in NS2A and NS5. <i>Virus Research</i> , 2011, 155, 61-68.	1.1	25
66	Development of a novel real-time polymerase chain reaction assay for the quantitative detection of Nipah virus replicative viral RNA. <i>PLoS ONE</i> , 2018, 13, e0199534.	1.1	25
67	Comparative Pathogenesis of Alkhumra Hemorrhagic Fever and Kyasanur Forest Disease Viruses in a Mouse Model. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2934.	1.3	24
68	Animal models of highly pathogenic RNA viral infections: Encephalitis viruses. <i>Antiviral Research</i> , 2008, 78, 69-78.	1.9	23
69	The SKI complex is a broad-spectrum, host-directed antiviral drug target for coronaviruses, influenza, and filoviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30687-30698.	3.3	22
70	Differential cytokine responses from primary human Kupffer cells following infection with wild-type or vaccine strain yellow fever virus. <i>Virology</i> , 2011, 412, 188-195.	1.1	21
71	Scalable, Micro-Neutralization Assay for Assessment of SARS-CoV-2 (COVID-19) Virus-Neutralizing Antibodies in Human Clinical Samples. <i>Viruses</i> , 2021, 13, 893.	1.5	21
72	Epidermal Growth Factor Receptor Internalization Rate Is Regulated by Negative Charges near the SH2 Binding Site Tyr992. <i>Biochemistry</i> , 1999, 38, 9348-9356.	1.2	20

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73	Repurposing Pyramax [®] , quinacrine and tilorone as treatments for Ebola virus disease. <i>Antiviral Research</i> , 2020, 182, 104908.	1.9	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.	1.0	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.	1.1	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.	1.3	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.	1.3	18
78	Structure of the envelope protein domain III of Omsk hemorrhagic fever virus. <i>Virology</i> , 2006, 351, 188-195.	1.1	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.	1.1	16
80	Sub-genomic replicon and virus-like particles of Omsk hemorrhagic fever virus. <i>Archives of Virology</i> , 2009, 154, 573-580.	0.9	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, , .	0.2	16
82	In Vivo Activity of Amodiaquine against Ebola Virus Infection. <i>Scientific Reports</i> , 2019, 9, 20199.	1.6	16
83	Pyronaridine tetraphosphate efficacy against Ebola virus infection in guinea pig. <i>Antiviral Research</i> , 2020, 181, 104863.	1.9	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.	1.1	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.	1.3	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.	1.6	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.	1.3	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.	1.1	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.	1.1	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.	1.9	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.	3.0	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.	1.1	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.	1.9	9
95	The Human Sodium Iodide Symporter as a Reporter Gene for Studying Middle East Respiratory Syndrome Coronavirus Pathogenesis. <i>MSphere</i> , 2018, 3, .	1.3	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.	1.7	7
97	Langat Virus M Protein Is Structurally Homologous to prM. <i>Journal of Virology</i> , 2001, 75, 3999-4001.	1.5	6
98	Safety Precautions and Operating Procedures in an (A)BSL-4 Laboratory: 2. General Practices. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	6
99	Safety Precautions and Operating Procedures in an (A)BSL-4 Laboratory: 4. Medical Imaging Procedures. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	6
100	Safety Precautions and Operating Procedures in an (A)BSL-4 Laboratory: 3. Aerobiology. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	6
101	VIPR: a probabilistic algorithm for analysis of microbial detection microarrays. <i>BMC Bioinformatics</i> , 2010, 11, 384.	1.2	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.	2.0	5
103	COVID-19 Antibody Detection and Assay Performance Using Red Cell Agglutination. <i>Microbiology Spectrum</i> , 2021, 9, e0083021.	1.2	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.	1.6	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.	0.8	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.	1.9	0