

Mukesh Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,257
citations

279798

23
h-index

233421

45
g-index

52
all docs

52
docs citations

52
times ranked

3410
citing authors

#	ARTICLE	IF	CITATIONS
1	West Nile virus infection modulates human brain microvascular endothelial cells tight junction proteins and cell adhesion molecules: Transmigration across the in vitro blood-brain barrier. <i>Virology</i> , 2009, 385, 425-433.	2.4	210
2	Selenoprotein K Knockout Mice Exhibit Deficient Calcium Flux in Immune Cells and Impaired Immune Responses. <i>Journal of Immunology</i> , 2011, 186, 2127-2137.	0.8	199
3	Neuroinvasion and Encephalitis Following Intranasal Inoculation of SARS-CoV-2 in K18-hACE2 Mice. <i>Viruses</i> , 2021, 13, 132.	3.3	197
4	West Nile virus-induced disruption of the blood-brain barrier in mice is characterized by the degradation of the junctional complex proteins and increase in multiple matrix metalloproteinases. <i>Journal of General Virology</i> , 2012, 93, 1193-1203.	2.9	138
5	The FDA-approved gold drug auranofin inhibits novel coronavirus (SARS-COV-2) replication and attenuates inflammation in human cells. <i>Virology</i> , 2020, 547, 7-11.	2.4	119
6	Reversal of West Nile virus-induced blood-brain barrier disruption and tight junction proteins degradation by matrix metalloproteinases inhibitor. <i>Virology</i> , 2010, 397, 130-138.	2.4	116
7	Pro-inflammatory cytokines derived from West Nile virus (WNV)-infected SK-N-SH cells mediate neuroinflammatory markers and neuronal death. <i>Journal of Neuroinflammation</i> , 2010, 7, 73.	7.2	109
8	Inflammasome Adaptor Protein Apoptosis-Associated Speck-Like Protein Containing CARD (ASC) Is Critical for the Immune Response and Survival in West Nile Virus Encephalitis. <i>Journal of Virology</i> , 2013, 87, 3655-3667.	3.4	96
9	Clinical and Imaging Findings in an Infant With Zika Embryopathy. <i>Clinical Infectious Diseases</i> , 2016, 63, 805-811.	5.8	72
10	Favipiravir and Ribavirin Inhibit Replication of Asian and African Strains of Zika Virus in Different Cell Models. <i>Viruses</i> , 2018, 10, 72.	3.3	62
11	Reduced immune cell infiltration and increased pro-inflammatory mediators in the brain of Type 2 diabetic mouse model infected with West Nile virus. <i>Journal of Neuroinflammation</i> , 2014, 11, 80.	7.2	61
12	A guinea pig model of Zika virus infection. <i>Virology Journal</i> , 2017, 14, 75.	3.4	60
13	Integrated analysis of microRNAs and their disease related targets in the brain of mice infected with West Nile virus. <i>Virology</i> , 2014, 452-453, 143-151.	2.4	53
14	Impaired Virus Clearance, Compromised Immune Response and Increased Mortality in Type 2 Diabetic Mice Infected with West Nile Virus. <i>PLoS ONE</i> , 2012, 7, e44682.	2.5	47
15	Recombinant Zika Virus Subunits Are Immunogenic and Efficacious in Mice. <i>MSphere</i> , 2018, 3, .	2.9	42
16	Dynamic changes in host gene expression associated with H5N8 avian influenza virus infection in mice. <i>Scientific Reports</i> , 2015, 5, 16512.	3.3	40
17	Effect of Serum Heat-Inactivation and Dilution on Detection of Anti-WNV Antibodies in Mice by West Nile Virus E-protein Microsphere Immunoassay. <i>PLoS ONE</i> , 2012, 7, e45851.	2.5	39
18	Identification of host genes leading to West Nile virus encephalitis in mice brain using RNA-seq analysis. <i>Scientific Reports</i> , 2016, 6, 26350.	3.3	37

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19	Integrated MicroRNA and mRNA Profiling in Zika Virus-Infected Neurons. <i>Viruses</i> , 2019, 11, 162.	3.3	37
20	Role of Endoplasmic Reticulum-Associated Proteins in Flavivirus Replication and Assembly Complexes. <i>Pathogens</i> , 2019, 8, 148.	2.8	36
21	Schlafen 14 (SLFN14) is a novel antiviral factor involved in the control of viral replication. <i>Immunobiology</i> , 2017, 222, 979-988.	1.9	35
22	Cellular microRNA-155 Regulates Virus-Induced Inflammatory Response and Protects against Lethal West Nile Virus Infection. <i>Viruses</i> , 2020, 12, 9.	3.3	33
23	Z-DNA-Binding Protein 1 Is Critical for Controlling Virus Replication and Survival in West Nile Virus Encephalitis. <i>Frontiers in Microbiology</i> , 2019, 10, 2089.	3.5	28
24	Cyclooxygenase-2 inhibitor blocks the production of West Nile virus-induced neuroinflammatory markers in astrocytes. <i>Journal of General Virology</i> , 2011, 92, 507-515.	2.9	27
25	mRNA and miRNA profiling of Zika virus-infected human umbilical cord mesenchymal stem cells identifies miR-142-5p as an antiviral factor. <i>Emerging Microbes and Infections</i> , 2020, 9, 2061-2075.	6.5	27
26	SARS-CoV-2 Infects Primary Neurons from Human ACE2 Expressing Mice and Upregulates Genes Involved in the Inflammatory and Necroptotic Pathways. <i>Pathogens</i> , 2022, 11, 257.	2.8	25
27	Deletion of Pregnancy Zone Protein and Murinoglobulin-1 Restricts the Pathogenesis of West Nile Virus Infection in Mice. <i>Frontiers in Microbiology</i> , 2019, 10, 259.	3.5	21
28	SARS-CoV-2 Variants of Concern Infect the Respiratory Tract and Induce Inflammatory Response in Wild-Type Laboratory Mice. <i>Viruses</i> , 2022, 14, 27.	3.3	21
29	Differential Pathogenesis of SARS-CoV-2 Variants of Concern in Human ACE2-Expressing Mice. <i>Viruses</i> , 2022, 14, 1139.	3.3	21
30	Hantaviruses induce cell type- and viral species-specific host microRNA expression signatures. <i>Virology</i> , 2013, 446, 217-224.	2.4	19
31	Infection with Non-Lethal West Nile Virus Eg101 Strain Induces Immunity that Protects Mice against the Lethal West Nile Virus NY99 Strain. <i>Viruses</i> , 2014, 6, 2328-2339.	3.3	19
32	Understanding the Pathogenesis of Zika Virus Infection Using Animal Models. <i>Immune Network</i> , 2017, 17, 287.	3.6	19
33	Molecular Aspects of COVID-19 Differential Pathogenesis. <i>Pathogens</i> , 2020, 9, 538.	2.8	18
34	Insights into the role of immunosenescence during varicella zoster virus infection (shingles) in the aging cell model. <i>Oncotarget</i> , 2015, 6, 35324-35343.	1.8	18
35	Momordica charantia (bitter melon) modulates adipose tissue inflammasome gene expression and adipose-gut inflammatory cross talk in high-fat diet (HFD)-fed mice. <i>Journal of Nutritional Biochemistry</i> , 2019, 68, 16-32.	4.2	17
36	Hantaviruses Induce Antiviral and Pro-Inflammatory Innate Immune Responses in Astrocytic Cells and the Brain. <i>Viral Immunology</i> , 2014, 27, 256-266.	1.3	16

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37	Induction of virus-specific effector immune cell response limits virus replication and severe disease in mice infected with non-lethal West Nile virus Eg101 strain. <i>Journal of Neuroinflammation</i> , 2015, 12, 178.	7.2	13
38	Prevalence of Antibodies to Zika Virus in Mothers from Hawaii Who Delivered Babies with and without Microcephaly between 2009-2012. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005262.	3.0	13
39	ASSURED-SQVM diagnostics for COVID-19: addressing the why, when, where, who, what and how of testing. <i>Expert Review of Molecular Diagnostics</i> , 2021, 21, 349-362.	3.1	10
40	Isolation and partial characterization of a highly divergent lineage of hantavirus from the European mole (<i>Talpa europaea</i>). <i>Scientific Reports</i> , 2016, 6, 21119.	3.3	9
41	Intrinsic antiviral immunity of barrier cells revealed by an iPSC-derived blood-brain barrier cellular model. <i>Cell Reports</i> , 2022, 39, 110885.	6.4	8
42	Hypoxia-Induced Centrosome Amplification Underlies Aggressive Disease Course in HPV-Negative Oropharyngeal Squamous Cell Carcinomas. <i>Cancers</i> , 2020, 12, 517.	3.7	7
43	Chemistry of heavy metals in the environment. , 2021, , 9-37.		6
44	Influenza Virus-like Particle-Based Hybrid Vaccine Containing RBD Induces Immunity against Influenza and SARS-CoV-2 Viruses. <i>Vaccines</i> , 2022, 10, 944.	4.4	5
45	In Vitro and In Vivo Bloodâ€“Brain Barrier Models to Study West Nile Virus Pathogenesis. <i>Methods in Molecular Biology</i> , 2016, 1435, 103-113.	0.9	4
46	Computational study of novel inhibitory molecule, 1-(4-((2 <i>S</i>),3 <i>S</i>)-3-amino-2-hydroxy-4-phenylbutyl)piperazin-1-yl)-3-phenylurea, with high potential to competitively block ATP binding to the RNA dependent RNA polymerase of SARS-CoV-2 virus. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 10162-10180.	3.5	2