# Mukesh Kumar

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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. Journal of Biomolecular Structure and Dynamics, 2022, 40, 10162-10180. | 3.5 | 2 |
| 2 | SARS-CoV-2 Infects Primary Neurons from Human ACE2 Expressing Mice and Upregulates Genes Involved in the Inflammatory and Necroptotic Pathways. Pathogens, 2022, 11, 257. | 2.8 | 25 |
| 3 | SARS-CoV-2 Variants of Concern Infect the Respiratory Tract and Induce Inflammatory Response in Wild-Type Laboratory Mice. Viruses, 2022, 14, 27. | 3.3 | 21 |
| 4 | Intrinsic antiviral immunity of barrier cells revealed by an iPSC-derived blood-brain barrier cellular model. Cell Reports, 2022, 39, 110885. | 6.4 | 8 |
| 5 | Differential Pathogenesis of SARS-CoV-2 Variants of Concern in Human ACE2-Expressing Mice. Viruses, 2022, 14, 1139. | 3.3 | 21 |
| 6 | Influenza Virus-like Particle-Based Hybrid Vaccine Containing RBD Induces Immunity against Influenza and SARS-CoV-2 Viruses. Vaccines, 2022, 10, 944. | 4.4 | 5 |
| 7 | Chemistry of heavy metals in the environment. , 2021, , 9-37. | | 6 |
| 8 | ASSURED-SQVM diagnostics for COVID-19: addressing the why, when, where, who, what and how of testing. Expert Review of Molecular Diagnostics, 2021, 21, 349-362. | 3.1 | 10 |
| 9 | Neuroinvasion and Encephalitis Following Intranasal Inoculation of SARS-CoV-2 in K18-hACE2 Mice. Viruses, 2021, 13, 132. | 3.3 | 197 |
| 10 | Cellular microRNA-155 Regulates Virus-Induced Inflammatory Response and Protects against Lethal West Nile Virus Infection. Viruses, 2020, 12, 9. | 3.3 | 33 |
| 11 | mRNA and miRNA profiling of Zika virus-infected human umbilical cord mesenchymal stem cells identifies miR-142-5p as an antiviral factor. Emerging Microbes and Infections, 2020, 9, 2061-2075. | 6.5 | 27 |
| 12 | Molecular Aspects of COVID-19 Differential Pathogenesis. Pathogens, 2020, 9, 538. | 2.8 | 18 |
| 13 | Hypoxia-Induced Centrosome Amplification Underlies Aggressive Disease Course in HPV-Negative Oropharyngeal Squamous Cell Carcinomas. Cancers, 2020, 12, 517. | 3.7 | 7 |
| 14 | The FDA-approved gold drug auranofin inhibits novel coronavirus (SARS-COV-2) replication and attenuates inflammation in human cells. Virology, 2020, 547, 7-11. | 2.4 | 119 |
| 15 | Z-DNA-Binding Protein 1 Is Critical for Controlling Virus Replication and Survival in West Nile Virus Encephalitis. Frontiers in Microbiology, 2019, 10, 2089. | 3.5 | 28 |
| 16 | Role of Endoplasmic Reticulum-Associated Proteins in Flavivirus Replication and Assembly Complexes. Pathogens, 2019, 8, 148. | 2.8 | 36 |
| 17 | Momordica charantia (bitter melon) modulates adipose tissue inflammasome gene expression and adipose-gut inflammatory cross talk in high-fat diet (HFD)-fed mice. Journal of Nutritional Biochemistry, 2019, 68, 16-32. | 4.2 | 17 |
| 18 | Deletion of Pregnancy Zone Protein and Murinoglobulin-1 Restricts the Pathogenesis of West Nile Virus Infection in Mice. Frontiers in Microbiology, 2019, 10, 259. | 3.5 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Integrated MicroRNA and mRNA Profiling in Zika Virus-Infected Neurons. Viruses, 2019, 11, 162. | 3.3 | 37 |
| 20 | Recombinant Zika Virus Subunits Are Immunogenic and Efficacious in Mice. MSphere, 2018, 3, . | 2.9 | 42 |
| 21 | Favipiravir and Ribavirin Inhibit Replication of Asian and African Strains of Zika Virus in Different Cell Models. Viruses, 2018, 10, 72. | 3.3 | 62 |
| 22 | Schlafen 14 (SLFN14) is a novel antiviral factor involved in the control of viral replication. Immunobiology, 2017, 222, 979-988. | 1.9 | 35 |
| 23 | A guinea pig model of Zika virus infection. Virology Journal, 2017, 14, 75. | 3.4 | 60 |
| 24 | Understanding the Pathogenesis of Zika Virus Infection Using Animal Models. Immune Network, 2017, 17, 287. | 3.6 | 19 |
| 25 | Prevalence of Antibodies to Zika Virus in Mothers from Hawaii Who Delivered Babies with and without Microcephaly between 2009-2012. PLoS Neglected Tropical Diseases, 2016, 10, e0005262. | 3.0 | 13 |
| 26 | Isolation and partial characterization of a highly divergent lineage of hantavirus from the European mole (Talpa europaea). Scientific Reports, 2016, 6, 21119. | 3.3 | 9 |
| 27 | Identification of host genes leading to West Nile virus encephalitis in mice brain using RNA-seq analysis. Scientific Reports, 2016, 6, 26350. | 3.3 | 37 |
| 28 | In Vitro and In Vivo Bloodâ€"Brain Barrier Models to Study West Nile Virus Pathogenesis. Methods in Molecular Biology, 2016, 1435, 103-113. | 0.9 | 4 |
| 29 | Clinical and Imaging Findings in an Infant With Zika Embryopathy. Clinical Infectious Diseases, 2016, 63, 805-811. | 5.8 | 72 |
| 30 | Dynamic changes in host gene expression associated with H5N8 avian influenza virus infection in mice. Scientific Reports, 2015, 5, 16512. | 3.3 | 40 |
| 31 | 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. Journal of Neuroinflammation, 2015, 12, 178. | 7.2 | 13 |
| 32 | Insights into the role of immunosenescence during varicella zoster virus infection (shingles) in the aging cell model. Oncotarget, 2015, 6, 35324-35343. | 1.8 | 18 |
| 33 | Infection with Non-Lethal West Nile Virus Eg101 Strain Induces Immunity that Protects Mice against the Lethal West Nile Virus NY99 Strain. Viruses, 2014, 6, 2328-2339. | 3.3 | 19 |
| 34 | Hantaviruses Induce Antiviral and Pro-Inflammatory Innate Immune Responses in Astrocytic Cells and the Brain. Viral Immunology, 2014, 27, 256-266. | 1.3 | 16 |
| 35 | Reduced immune cell infiltration and increased pro-inflammatory mediators in the brain of Type 2 diabetic mouse model infected with West Nile virus. Journal of Neuroinflammation, 2014, 11, 80. | 7.2 | 61 |
| 36 | Integrated analysis of microRNAs and their disease related targets in the brain of mice infected with West Nile virus. Virology, 2014, 452-453, 143-151. | 2.4 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Hantaviruses induce cell type- and viral species-specific host microRNA expression signatures. Virology, 2013, 446, 217-224. | 2.4 | 19 |
| 38 | Inflammasome Adaptor Protein Apoptosis-Associated Speck-Like Protein Containing CARD (ASC) Is Critical for the Immune Response and Survival in West Nile Virus Encephalitis. Journal of Virology, 2013, 87, 3655-3667. | 3.4 | 96 |
| 39 | West Nile virus-induced disruption of the bloodâ€"brain barrier in mice is characterized by the degradation of the junctional complex proteins and increase in multiple matrix metalloproteinases. Journal of General Virology, 2012, 93, 1193-1203. | 2.9 | 138 |
| 40 | Impaired Virus Clearance, Compromised Immune Response and Increased Mortality in Type 2 Diabetic Mice Infected with West Nile Virus. PLoS ONE, 2012, 7, e44682. | 2.5 | 47 |
| 41 | Effect of Serum Heat-Inactivation and Dilution on Detection of Anti-WNV Antibodies in Mice by West Nile Virus E-protein Microsphere Immunoassay. PLoS ONE, 2012, 7, e45851. | 2.5 | 39 |
| 42 | Selenoprotein K Knockout Mice Exhibit Deficient Calcium Flux in Immune Cells and Impaired Immune Responses. Journal of Immunology, 2011, 186, 2127-2137. | 0.8 | 199 |
| 43 | Cyclooxygenase-2 inhibitor blocks the production of West Nile virus-induced neuroinflammatory markers in astrocytes. Journal of General Virology, 2011, 92, 507-515. | 2.9 | 27 |
| 44 | Reversal of West Nile virus-induced bloodâ€"brain barrier disruption and tight junction proteins degradation by matrix metalloproteinases inhibitor. Virology, 2010, 397, 130-138. | 2.4 | 116 |
| 45 | Pro-inflammatory cytokines derived from West Nile virus (WNV)-infected SK-N-SH cells mediate neuroinflammatory markers and neuronal death. Journal of Neuroinflammation, 2010, 7, 73. | 7.2 | 109 |
| 46 | 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. Virology, 2009, 385, 425-433. | 2.4 | 210 |