

A Mouse-Adapted SARS-CoV-2 Induces Acute Lung Injury in Laboratory Mice

Cell

183, 1070-1085.e12

DOI: [10.1016/j.cell.2020.09.050](https://doi.org/10.1016/j.cell.2020.09.050)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mechanisms of SARS-CoV-2 Transmission and Pathogenesis. <i>Trends in Immunology</i> , 2020, 41, 1100-1115. | 2.9 | 794 |
| 2 | Severe acute respiratory syndrome coronavirus-2 natural animal reservoirs and experimental models: systematic review. <i>Reviews in Medical Virology</i> , 2021, 31, e2196. | 3.9 | 24 |
| 3 | SARS-CoV-2 D614G variant exhibits efficient replication ex vivo and transmission in vivo. <i>Science</i> , 2020, 370, 1464-1468. | 6.0 | 808 |
| 4 | Replication, pathogenicity, and transmission of SARS-CoV-2 in minks. <i>National Science Review</i> , 2021, 8, nwaa291. | 4.6 | 72 |
| 5 | Considerations for the use and study of exogenous surfactant in respiratory disease from COVID-19. <i>Canadian Journal of Respiratory, Critical Care, and Sleep Medicine</i> , 2021, 5, 51-53. | 0.2 | 0 |
| 6 | Variants in SARS-CoV-2 associated with mild or severe outcome. <i>Evolution, Medicine and Public Health</i> , 2021, 9, 267-275. | 1.1 | 24 |
| 10 | Possible host-adaptation of SARS-CoV-2 due to improved ACE2 receptor binding in mink. <i>Virus Evolution</i> , 2021, 7, veaa094. | 2.2 | 50 |
| 11 | Understanding the Host Innate Immune Responses against SARS-CoV-2 Infection and COVID-19 Pathogenesis. <i>Immune Network</i> , 2021, 21, e1. | 1.6 | 9 |
| 12 | SARS-CoV-2: vaccines in the pandemic era. <i>Military Medical Research</i> , 2021, 8, 1. | 1.9 | 104 |
| 13 | Distinct mechanisms for TMPRSS2 expression explain organ-specific inhibition of SARS-CoV-2 infection by enzalutamide. <i>Nature Communications</i> , 2021, 12, 866. | 5.8 | 73 |
| 14 | Mosaic nanoparticles elicit cross-reactive immune responses to zoonotic coronaviruses in mice. <i>Science</i> , 2021, 371, 735-741. | 6.0 | 305 |
| 16 | Broad and potent activity against SARS-like viruses by an engineered human monoclonal antibody. <i>Science</i> , 2021, 371, 823-829. | 6.0 | 285 |
| 17 | Early humoral defence: Contributing to confining COVID-19 to conducting airways?. <i>Scandinavian Journal of Immunology</i> , 2021, 93, e13024. | 1.3 | 10 |
| 18 | SARS-CoV-2 Infections in Animals: Reservoirs for Reverse Zoonosis and Models for Study. <i>Viruses</i> , 2021, 13, 494. | 1.5 | 63 |
| 19 | Pathogen Dose in Animal Models of Hemorrhagic Fever Virus Infections and the Potential Impact on Studies of the Immune Response. <i>Pathogens</i> , 2021, 10, 275. | 1.2 | 3 |
| 20 | Animal Hosts and Experimental Models of SARS-CoV-2 Infection. <i>Chemotherapy</i> , 2021, 66, 1-9. | 0.8 | 13 |
| 21 | Vaccines: Underlying Principles of Design and Testing. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 109, 987-999. | 2.3 | 2 |
| 26 | Mechanisms of SARS-CoV-2-induced lung vascular disease: potential role of complement. <i>Pulmonary Circulation</i> , 2021, 11, 1-14. | 0.8 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 29 | The variant gambit: COVID-19's next move. <i>Cell Host and Microbe</i> , 2021, 29, 508-515. | 5.1 | 305 |
| 30 | Critical ACE2 Determinants of SARS-CoV-2 and Group 2B Coronavirus Infection and Replication. <i>MBio</i> , 2021, 12, . | 1.8 | 8 |
| 31 | COVID19 therapeutics: Expanding the antiviral arsenal. <i>EBioMedicine</i> , 2021, 66, 103289. | 2.7 | 4 |
| 33 | Bridging animal and clinical research during SARS-CoV-2 pandemic: A new-old challenge. <i>EBioMedicine</i> , 2021, 66, 103291. | 2.7 | 15 |
| 34 | Intranasal versus intratracheal exposure to lipopolysaccharides in a murine model of acute respiratory distress syndrome. <i>Scientific Reports</i> , 2021, 11, 7777. | 1.6 | 22 |
| 35 | Current Status of Putative Animal Sources of SARS-CoV-2 Infection in Humans: Wildlife, Domestic Animals and Pets. <i>Microorganisms</i> , 2021, 9, 868. | 1.6 | 38 |
| 36 | Human neutralizing antibodies against SARS-CoV-2 require intact Fc effector functions for optimal therapeutic protection. <i>Cell</i> , 2021, 184, 1804-1820.e16. | 13.5 | 297 |
| 37 | The olfactory nerve is not a likely route to brain infection in COVID-19: a critical review of data from humans and animal models. <i>Acta Neuropathologica</i> , 2021, 141, 809-822. | 3.9 | 94 |
| 39 | Convergent evolution of SARS-CoV-2 in human and animals. <i>Protein and Cell</i> , 2021, 12, 832-835. | 4.8 | 15 |
| 42 | Influenza virus and SARS-CoV-2: pathogenesis and host responses in the respiratory tract. <i>Nature Reviews Microbiology</i> , 2021, 19, 425-441. | 13.6 | 202 |
| 43 | Cell-Type Apoptosis in Lung during SARS-CoV-2 Infection. <i>Pathogens</i> , 2021, 10, 509. | 1.2 | 47 |
| 45 | SARS-CoV-2 evolution in an immunocompromised host reveals shared neutralization escape mechanisms. <i>Cell</i> , 2021, 184, 2605-2617.e18. | 13.5 | 151 |
| 46 | Prevalent, protective, and convergent IgG recognition of SARS-CoV-2 non-RBD spike epitopes. <i>Science</i> , 2021, 372, 1108-1112. | 6.0 | 210 |
| 48 | SARS-CoV-2 Rapidly Adapts in Aged BALB/c Mice and Induces Typical Pneumonia. <i>Journal of Virology</i> , 2021, 95, . | 1.5 | 43 |
| 49 | Q493K and Q498H substitutions in Spike promote adaptation of SARS-CoV-2 in mice. <i>EBioMedicine</i> , 2021, 67, 103381. | 2.7 | 102 |
| 51 | Noninvasive Measurement of Pulmonary Function in Experimental Mouse Models of Airway Disease. <i>Lung</i> , 2021, 199, 255-261. | 1.4 | 13 |
| 53 | Cross-reactive coronavirus antibodies with diverse epitope specificities and Fc effector functions. <i>Cell Reports Medicine</i> , 2021, 2, 100313. | 3.3 | 56 |
| 55 | Platforms for Personalized Polytherapeutics Discovery in COVID-19. <i>Journal of Molecular Biology</i> , 2021, 433, 166945. | 2.0 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 57 | Psychosocial Risk Factors, Noncommunicable Diseases, and Animal Models for COVID-19. <i>Biological Psychiatry</i> , 2021, 89, e67-e71. | 0.7 | 1 |
| 58 | COVID-19-related cardiac complications from clinical evidences to basic mechanisms: opinion paper of the ESC Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2021, 117, 2148-2160. | 1.8 | 26 |
| 59 | Shutting the gate before the horse has bolted: is it time for a conversation about SARS-CoV-2 and antiviral drug resistance?. <i>Journal of Antimicrobial Chemotherapy</i> , 2021, 76, 2230-2233. | 1.3 | 17 |
| 60 | Exploration of the Function of Ginsenoside RD Attenuates Lipopolysaccharide-Induced Lung Injury: A Study of Network Pharmacology and Experimental Validation. <i>Shock</i> , 2022, 57, 212-220. | 1.0 | 6 |
| 62 | SARS-CoV-2 RBD trimer protein adjuvanted with Alum-3M-052 protects from SARS-CoV-2 infection and immune pathology in the lung. <i>Nature Communications</i> , 2021, 12, 3587. | 5.8 | 71 |
| 63 | Control of Innate Immune Activation by Severe Acute Respiratory Syndrome Coronavirus 2 and Other Coronaviruses. <i>Journal of Interferon and Cytokine Research</i> , 2021, 41, 205-219. | 0.5 | 5 |
| 64 | Animal models for SARS-CoV-2. <i>Current Opinion in Virology</i> , 2021, 48, 73-81. | 2.6 | 52 |
| 65 | Towards Goals to Refine Prophylactic and Therapeutic Strategies Against COVID-19 Linked to Aging and Metabolic Syndrome. <i>Cells</i> , 2021, 10, 1412. | 1.8 | 6 |
| 66 | Aging and respiratory viral infection: from acute morbidity to chronic sequelae. <i>Cell and Bioscience</i> , 2021, 11, 112. | 2.1 | 20 |
| 68 | Reinvestigating the Coughing Rat Model of Pertussis To Understand <i>Bordetella pertussis</i> Pathogenesis. <i>Infection and Immunity</i> , 2021, 89, e0030421. | 1.0 | 8 |
| 69 | Quantitative proteomics of hamster lung tissues infected with SARS-CoV-2 reveal host factors having implication in the disease pathogenesis and severity. <i>FASEB Journal</i> , 2021, 35, e21713. | 0.2 | 22 |
| 71 | Structural Evaluation of the Spike Glycoprotein Variants on SARS-CoV-2 Transmission and Immune Evasion. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7425. | 1.8 | 69 |
| 73 | On the origin of SARS-CoV-2—The blind watchmaker argument. <i>Science China Life Sciences</i> , 2021, 64, 1560-1563. | 2.3 | 18 |
| 74 | Sex and age bias viral burden and interferon responses during SARS-CoV-2 infection in ferrets. <i>Scientific Reports</i> , 2021, 11, 14536. | 1.6 | 14 |
| 75 | ACE2-lentiviral transduction enables mouse SARS-CoV-2 infection and mapping of receptor interactions. <i>PLoS Pathogens</i> , 2021, 17, e1009723. | 2.1 | 28 |
| 76 | Innate immune and inflammatory responses to SARS-CoV-2: Implications for COVID-19. <i>Cell Host and Microbe</i> , 2021, 29, 1052-1062. | 5.1 | 185 |
| 77 | Toward Understanding COVID-19 Recovery: National Institutes of Health Workshop on Postacute COVID-19. <i>Annals of Internal Medicine</i> , 2021, 174, 999-1003. | 2.0 | 65 |
| 78 | Expression of the ACE2 Virus Entry Protein in the Nervus Terminalis Reveals the Potential for an Alternative Route to Brain Infection in COVID-19. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 674123. | 1.8 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 80 | Prevention and therapy of SARS-CoV-2 and the B.1.351 variant in mice. <i>Cell Reports</i> , 2021, 36, 109450. | 2.9 | 38 |
| 84 | InÂvitro and inÂvivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021, 184, 4203-4219.e32. | 13.5 | 228 |
| 85 | COVID-19 vaccine mRNA-1273 elicits a protective immune profile in mice that is not associated with vaccine-enhanced disease upon SARS-CoV-2 challenge. <i>Immunity</i> , 2021, 54, 1869-1882.e6. | 6.6 | 59 |
| 86 | Sex Differences in Lung Imaging and SARS-CoV-2 Antibody Responses in a COVID-19 Golden Syrian Hamster Model. <i>MBio</i> , 2021, 12, e0097421. | 1.8 | 69 |
| 88 | Neurochemical biomarkers to study CNS effects of COVID-19: A narrative review and synthesis. <i>Journal of Neurochemistry</i> , 2021, 159, 61-77. | 2.1 | 21 |
| 89 | Respiratory epithelial cell responses to SARS-CoV-2 in COVID-19. <i>Thorax</i> , 2022, 77, 203-209. | 2.7 | 90 |
| 90 | An Overview of Vaccines against SARS-CoV-2 in the COVID-19 Pandemic Era. <i>Pathogens</i> , 2021, 10, 1030. | 1.2 | 33 |
| 92 | Chimeric spike mRNA vaccines protect against Sarbecovirus challenge in mice. <i>Science</i> , 2021, 373, 991-998. | 6.0 | 144 |
| 94 | Animal Models for COVID-19: Hamsters, Mouse, Ferret, Mink, Tree Shrew, and Non-human Primates. <i>Frontiers in Microbiology</i> , 2021, 12, 626553. | 1.5 | 90 |
| 95 | Long-Term Acute Care Hospital Outcomes of Mechanically Ventilated Patients With Coronavirus Disease 2019*. <i>Critical Care Medicine</i> , 2022, 50, 256-263. | 0.4 | 13 |
| 96 | Fc-engineered antibody therapeutics with improved anti-SARS-CoV-2 efficacy. <i>Nature</i> , 2021, 599, 465-470. | 13.7 | 129 |
| 97 | Broad cross-reactivity across sarbecoviruses exhibited by a subset of COVID-19 donor-derived neutralizing antibodies. <i>Cell Reports</i> , 2021, 36, 109760. | 2.9 | 80 |
| 98 | Tissue factor expression, extracellular vesicles, and thrombosis after infection with the respiratory viruses influenza A virus and coronavirus. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 2652-2658. | 1.9 | 29 |
| 99 | Live imaging of SARS-CoV-2 infection in mice reveals that neutralizing antibodies require Fc function for optimal efficacy. <i>Immunity</i> , 2021, 54, 2143-2158.e15. | 6.6 | 155 |
| 102 | A universal bacteriophage T4 nanoparticle platform to design multiplex SARS-CoV-2 vaccine candidates by CRISPR engineering. <i>Science Advances</i> , 2021, 7, eabh1547. | 4.7 | 44 |
| 103 | Characterization and structural basis of a lethal mouse-adapted SARS-CoV-2. <i>Nature Communications</i> , 2021, 12, 5654. | 5.8 | 89 |
| 104 | The viral phoenix: enhanced infectivity and immunity evasion of SARS-CoV-2 variants. <i>Environmental Chemistry Letters</i> , 2022, 20, 1539-1544. | 8.3 | 6 |
| 105 | SARS-CoV-2 Subgenomic RNAs: Characterization, Utility, and Perspectives. <i>Viruses</i> , 2021, 13, 1923. | 1.5 | 38 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 107 | Protective Efficacy of Rhesus Adenovirus COVID-19 Vaccines against Mouse-Adapted SARS-CoV-2. <i>Journal of Virology</i> , 2021, 95, e0097421. | 1.5 | 12 |
| 108 | Novel virus-like nanoparticle vaccine effectively protects animal model from SARS-CoV-2 infection. <i>PLoS Pathogens</i> , 2021, 17, e1009897. | 2.1 | 49 |
| 111 | The origins of SARS-CoV-2: A critical review. <i>Cell</i> , 2021, 184, 4848-4856. | 13.5 | 330 |
| 113 | COVID-19 Animal Models and Vaccines: Current Landscape and Future Prospects. <i>Vaccines</i> , 2021, 9, 1082. | 2.1 | 8 |
| 115 | Kinetic Multi-omic Analysis of Responses to SARS-CoV-2 Infection in a Model of Severe COVID-19. <i>Journal of Virology</i> , 2021, 95, e0101021. | 1.5 | 21 |
| 116 | Importance of non-pharmaceutical interventions in lowering the viral inoculum to reduce susceptibility to infection by SARS-CoV-2 and potentially disease severity. <i>Lancet Infectious Diseases</i> , The, 2021, 21, e296-e301. | 4.6 | 57 |
| 117 | Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021, 184, 5432-5447.e16. | 13.5 | 131 |
| 118 | SARS-CoV-2, COVID-19 and the aging immune system. <i>Nature Aging</i> , 2021, 1, 769-782. | 5.3 | 208 |
| 119 | Potential Therapeutic Applications of Pulmonary Surfactant Lipids in the Host Defence Against Respiratory Viral Infections. <i>Frontiers in Immunology</i> , 2021, 12, 730022. | 2.2 | 16 |
| 120 | COVID-19â€™Associated Acute Respiratory Distress Syndrome. <i>Critical Care Clinics</i> , 2021, 37, 777-793. | 1.0 | 6 |
| 121 | Adenovirus transduction to express human ACE2 causes obesity-specific morbidity in mice, impeding studies on the effect of host nutritional status on SARS-CoV-2 pathogenesis. <i>Virology</i> , 2021, 563, 98-106. | 1.1 | 6 |
| 122 | Animal models of SARS-CoV-2 and COVID-19 for the development of prophylactic and therapeutic interventions. , 2021, 228, 107931. | | 18 |
| 134 | Age-related susceptibility to coronavirus infections: role of impaired and dysregulated host immunity. <i>Journal of Clinical Investigation</i> , 2020, 130, 6204-6213. | 3.9 | 59 |
| 135 | Immunology of SARS-CoV-2 infections and vaccines. <i>Advances in Immunology</i> , 2021, 151, 49-97. | 1.1 | 12 |
| 136 | Mouse Models for the Study of SARS-CoV-2 Infection. <i>Comparative Medicine</i> , 2021, 71, 383-397. | 0.4 | 11 |
| 137 | Cross-protective immunity following coronavirus vaccination and coronavirus infection. <i>Journal of Clinical Investigation</i> , 2021, 131, . | 3.9 | 51 |
| 138 | Stabilized coronavirus spike stem elicits a broadly protective antibody. <i>Cell Reports</i> , 2021, 37, 109929. | 2.9 | 64 |
| 139 | SARS-CoV-2 Causes Lung Infection without Severe Disease in Human ACE2 Knock-In Mice. <i>Journal of Virology</i> , 2022, 96, JVI0151121. | 1.5 | 58 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 140 | Emerging SARS-CoV-2 variants expand species tropism to murines. <i>EBioMedicine</i> , 2021, 73, 103643. | 2.7 | 127 |
| 141 | Distinct Roles of Type I and Type III Interferons during a Native Murine β 2 Coronavirus Lung Infection. <i>Journal of Virology</i> , 2022, 96, JVI0124121. | 1.5 | 10 |
| 142 | Update on and Future Directions for Use of Anti-SARS-CoV-2 Antibodies: National Institutes of Health Summit on Treatment and Prevention of COVID-19. <i>Annals of Internal Medicine</i> , 2022, 175, 119-126. | 2.0 | 13 |
| 143 | Male Sex and Age Biases Viral Burden, Viral Shedding, and Type 1 and 2 Interferon Responses During SARS-CoV-2 Infection in Ferrets. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 1 |
| 144 | The K18-Human ACE2 Transgenic Mouse Model Recapitulates Non-severe and Severe COVID-19 in Response to an Infectious Dose of the SARS-CoV-2 Virus. <i>Journal of Virology</i> , 2022, 96, JVI0096421. | 1.5 | 84 |
| 145 | An oral SARS-CoV-2 M ^{pro} inhibitor clinical candidate for the treatment of COVID-19. <i>Science</i> , 2021, 374, 1586-1593. | 6.0 | 1,074 |
| 146 | Mouse-adapted SARS-CoV-2 protects animals from lethal SARS-CoV challenge. <i>PLoS Biology</i> , 2021, 19, e3001284. | 2.6 | 54 |
| 147 | Using <i>in vivo</i> animal models for studying SARS-CoV-2. <i>Expert Opinion on Drug Discovery</i> , 2022, 17, 121-137. | 2.5 | 5 |
| 148 | Mutation Y453F in the spike protein of SARS-CoV-2 enhances interaction with the mink ACE2 receptor for host adaption. <i>PLoS Pathogens</i> , 2021, 17, e1010053. | 2.1 | 43 |
| 149 | A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. <i>Science Translational Medicine</i> , 2022, 14, eabj7125. | 5.8 | 93 |
| 150 | Syrian hamsters as a model of lung injury with SARS-CoV-2 infection: Pathologic, physiologic, and detailed molecular profiling. <i>Translational Research</i> , 2022, 240, 1-16. | 2.2 | 33 |
| 152 | Increased morbidity of obese mice infected with mouse-adapted SARS-CoV-2. <i>Cell Discovery</i> , 2021, 7, 74. | 3.1 | 1 |
| 153 | Immune dysregulation and immunopathology induced by SARS-CoV-2 and related coronaviruses "are we our own worst enemy?". <i>Nature Reviews Immunology</i> , 2022, 22, 47-56. | 10.6 | 118 |
| 155 | Animal models for SARS-CoV-2 infection and pathology. <i>MedComm</i> , 2021, 2, 548-568. | 3.1 | 19 |
| 157 | Neurological complications and infection mechanism of SARS-CoV-2. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 406. | 7.1 | 76 |
| 158 | Treatment with Fluticasone Propionate Increases Antibiotic Efficacy during Treatment of Late-Stage Primary Pneumonic Plague. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0127521. | 1.4 | 2 |
| 160 | "But Mouse, You Are Not Alone" On Some Severe Acute Respiratory Syndrome Coronavirus 2 Variants Infecting Mice. <i>ILAR Journal</i> , 2021, 62, 48-59. | 1.8 | 10 |
| 161 | Immune responses to human respiratory coronaviruses infection in mouse models. <i>Current Opinion in Virology</i> , 2022, 52, 102-111. | 2.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 162 | Increased morbidity of obese mice infected with mouse-adapted SARS-CoV-2. <i>Cell Discovery</i> , 2021, 7, 74. | 3.1 | 10 |
| 163 | Human genetic and immunological determinants of critical COVID-19 pneumonia. <i>Nature</i> , 2022, 603, 587-598. | 13.7 | 216 |
| 164 | Lipopolysaccharide induces acute lung injury and alveolar haemorrhage in association with the cytokine storm, coagulopathy and AT1R/JAK/STAT augmentation in a rat model that mimics moderate and severe COVID-19 pathology. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2022, 49, 483-491. | 0.9 | 18 |
| 167 | Pro108Ser mutation of SARS-CoV-2 3CLpro reduces the enzyme activity and ameliorates the clinical severity of COVID-19. <i>Scientific Reports</i> , 2022, 12, 1299. | 1.6 | 15 |
| 168 | A lethal mouse model for evaluating vaccine-associated enhanced respiratory disease during SARS-CoV-2 infection. <i>Science Advances</i> , 2022, 8, eabh3827. | 4.7 | 27 |
| 169 | Administration of aerosolized SARS-CoV-2 to K18-hACE2 mice uncouples respiratory infection from fatal neuroinvasion. <i>Science Immunology</i> , 2022, 7, . | 5.6 | 61 |
| 170 | SARS-CoV-2 Omicron virus causes attenuated disease in mice and hamsters. <i>Nature</i> , 2022, 603, 687-692. | 13.7 | 475 |
| 171 | ACE2 is the critical in vivo receptor for SARS-CoV-2 in a novel COVID-19 mouse model with TNF- and IFN β -driven immunopathology. <i>ELife</i> , 2022, 11, . | 2.8 | 42 |
| 172 | COVID-19, Influenza and RSV: Surveillance-informed prevention and treatment – Meeting report from an ISIRV-WHO virtual conference. <i>Antiviral Research</i> , 2022, 197, 105227. | 1.9 | 19 |
| 173 | Type I interferons and SARS-CoV-2: from cells to organisms. <i>Current Opinion in Immunology</i> , 2022, 74, 172-182. | 2.4 | 49 |
| 174 | Ex vivo and in vivo suppression of SARS-CoV-2 with combinatorial AAV/RNAi expression vectors. <i>Molecular Therapy</i> , 2022, 30, 2005-2023. | 3.7 | 10 |
| 175 | Animal models for SARS-CoV-2 and SARS-CoV-1 pathogenesis, transmission and therapeutic evaluation. <i>World Journal of Virology</i> , 2022, 11, 40-56. | 1.3 | 9 |
| 176 | SARS-CoV-2 infection triggers paracrine senescence and leads to a sustained senescence-associated inflammatory response. <i>Nature Aging</i> , 2022, 2, 115-124. | 5.3 | 43 |
| 177 | SARS-CoV-2 Omicron emergence urges for reinforced One Health surveillance. <i>EMBO Molecular Medicine</i> , 2022, , e15558. | 3.3 | 10 |
| 178 | Advances and gaps in SARS-CoV-2 infection models. <i>PLoS Pathogens</i> , 2022, 18, e1010161. | 2.1 | 61 |
| 179 | The Tissue Distribution of SARS-CoV-2 in Transgenic Mice With Inducible Ubiquitous Expression of hACE2. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 821506. | 1.6 | 7 |
| 180 | An aluminum hydroxide:CpG adjuvant enhances protection elicited by a SARS-CoV-2 receptor binding domain vaccine in aged mice. <i>Science Translational Medicine</i> , 2022, 14, . | 5.8 | 57 |
| 183 | Characterization of Two Heterogeneous Lethal Mouse-Adapted SARS-CoV-2 Variants Recapitulating Representative Aspects of Human COVID-19. <i>Frontiers in Immunology</i> , 2022, 13, 821664. | 2.2 | 22 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 184 | An adjuvant strategy enabled by modulation of the physical properties of microbial ligands expands antigen immunogenicity. <i>Cell</i> , 2022, 185, 614-629.e21. | 13.5 | 40 |
| 185 | Respiratory mucosal delivery of next-generation COVID-19 vaccine provides robust protection against both ancestral and variant strains of SARS-CoV-2. <i>Cell</i> , 2022, 185, 896-915.e19. | 13.5 | 189 |
| 186 | Oral Nirmatrelvir/Ritonavir Therapy for COVID-19: The Dawn in the Dark?. <i>Antibiotics</i> , 2022, 11, 220. | 1.5 | 66 |
| 187 | Qingwenzhike Prescription Alleviates Acute Lung Injury Induced by LPS via Inhibiting TLR4/NF- κ B Pathway and NLRP3 Inflammasome Activation. <i>Frontiers in Pharmacology</i> , 2021, 12, 790072. | 1.6 | 32 |
| 188 | Evidence for a mouse origin of the SARS-CoV-2 Omicron variant. <i>Journal of Genetics and Genomics</i> , 2021, 48, 1111-1121. | 1.7 | 206 |
| 189 | Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. <i>Nature</i> , 0, , . | 13.7 | 101 |
| 190 | Broadly neutralizing antibodies overcome SARS-CoV-2 Omicron antigenic shift. <i>Nature</i> , 2022, 602, 664-670. | 13.7 | 917 |
| 195 | Structural basis of SARS-CoV-2 Omicron immune evasion and receptor engagement. <i>Science</i> , 2022, 375, 864-868. | 6.0 | 394 |
| 197 | An aluminum hydroxide:CpG adjuvant enhances protection elicited by a SARS-CoV-2 receptor-binding domain vaccine in aged mice. <i>Science Translational Medicine</i> , 2021, , eabj5305. | 5.8 | 4 |
| 198 | Administration of aerosolized SARS-CoV-2 to K18-hACE2 mice uncouples respiratory infection from fatal neuroinvasion. <i>Science Immunology</i> , 2021, , eabl9929. | 5.6 | 3 |
| 199 | Infection of wild-type mice by SARS-CoV-2 B.1.351 variant indicates a possible novel cross-species transmission route. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 420. | 7.1 | 46 |
| 204 | Fatal Neurodissemination and SARS-CoV-2 Tropism in K18-hACE2 Mice Is Only Partially Dependent on hACE2 Expression. <i>Viruses</i> , 2022, 14, 535. | 1.5 | 47 |
| 205 | Porcine Respiratory Coronavirus as a Model for Acute Respiratory Coronavirus Disease. <i>Frontiers in Immunology</i> , 2022, 13, 867707. | 2.2 | 11 |
| 206 | Molecular variants of SARS-CoV-2: antigenic properties and current vaccine efficacy. <i>Medical Microbiology and Immunology</i> , 2022, 211, 79-103. | 2.6 | 9 |
| 208 | Comparative characterization of SARS-CoV-2 variants of concern and mouse-adapted strains in mice. <i>Journal of Medical Virology</i> , 2022, 94, 3223-3232. | 2.5 | 12 |
| 209 | Eicosanoid signalling blockade protects middle-aged mice from severe COVID-19. <i>Nature</i> , 2022, 605, 146-151. | 13.7 | 82 |
| 210 | Infection with the SARS-CoV-2 B.1.351 variant is lethal in aged BALB/c mice. <i>Scientific Reports</i> , 2022, 12, 4150. | 1.6 | 9 |
| 212 | Mice infected with <i>Mycobacterium tuberculosis</i> are resistant to acute disease caused by secondary infection with SARS-CoV-2. <i>PLoS Pathogens</i> , 2022, 18, e1010093. | 2.1 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 213 | Characterization of SARS-CoV-2 Variants B.1.617.1 (Kappa), B.1.617.2 (Delta), and B.1.618 by Cell Entry and Immune Evasion. <i>MBio</i> , 2022, 13, e0009922. | 1.8 | 22 |
| 214 | Innate lymphoid cells and COVID-19 severity in SARS-CoV-2 infection. <i>ELife</i> , 2022, 11, . | 2.8 | 37 |
| 215 | Spatial Transcriptome Uncovers the Mouse Lung Architectures and Functions. <i>Frontiers in Genetics</i> , 2022, 13, 858808. | 1.1 | 3 |
| 216 | SARS-CoV-2 infection of airway cells causes intense viral and cell shedding, two spreading mechanisms affected by IL-13. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119680119. | 3.3 | 53 |
| 217 | Therapeutic treatment with an oral prodrug of the remdesivir parental nucleoside is protective against SARS-CoV-2 pathogenesis in mice. <i>Science Translational Medicine</i> , 2022, 14, eabm3410. | 5.8 | 49 |
| 218 | A modified vaccinia Ankara vaccine expressing spike and nucleocapsid protects rhesus macaques against SARS-CoV-2 Delta infection. <i>Science Immunology</i> , 2022, 7, eabo0226. | 5.6 | 22 |
| 219 | Interstitial pneumonia and diffuse alveolar damage in domestic animals. <i>Veterinary Pathology</i> , 2022, 59, 586-601. | 0.8 | 6 |
| 220 | SARS-CoV-2 pathogenesis. <i>Nature Reviews Microbiology</i> , 2022, 20, 270-284. | 13.6 | 404 |
| 221 | Review of selected animal models for respiratory coronavirus infection and its application in drug research. <i>Journal of Medical Virology</i> , 2022, , . | 2.5 | 5 |
| 222 | Mutations of Omicron Variant at the Interface of the Receptor Domain Motif and Human Angiotensin-Converting Enzyme-2. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2870. | 1.8 | 18 |
| 223 | Animal models in SARS-CoV-2 research. <i>Nature Methods</i> , 2022, 19, 392-394. | 9.0 | 51 |
| 226 | mRNA COVID-19 Vaccines and Long-Lived Plasma Cells: A Complicated Relationship. <i>Vaccines</i> , 2021, 9, 1503. | 2.1 | 23 |
| 227 | 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. | 1.5 | 21 |
| 228 | Modeling of experimental acute bronchopneumonia with pulmonary fibrosis. <i>Experimental and Clinical Physiology and Biochemistry</i> , 2022, 2021, . | 0.2 | 0 |
| 229 | Inactivated SARS-CoV-2 induces acute respiratory distress syndrome in human ACE2-transgenic mice. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 439. | 7.1 | 18 |
| 232 | Patho-Physiology of Aging and Immune-Senescence: Possible Correlates With Comorbidity and Mortality in Middle-Aged and Old COVID-19 Patients. <i>Frontiers in Aging</i> , 2021, 2, . | 1.2 | 12 |
| 233 | An antibody class with a common CDRH3 motif broadly neutralizes sarbecoviruses. <i>Science Translational Medicine</i> , 2022, 14, eabn6859. | 5.8 | 31 |
| 236 | Microgliosis and neuronal proteinopathy in brain persist beyond viral clearance in SARS-CoV-2 hamster model. <i>EBioMedicine</i> , 2022, 79, 103999. | 2.7 | 48 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 237 | SARS-CoV-2 Infection: Host Response, Immunity, and Therapeutic Targets. <i>Inflammation</i> , 2022, 45, 1430-1449. | 1.7 | 16 |
| 238 | Animal models for studying COVID-19, prevention, and therapy: Pathology and disease phenotypes. <i>Veterinary Pathology</i> , 2022, 59, 516-527. | 0.8 | 5 |
| 239 | Intranasal Lentiviral Vector-Mediated Antibody Delivery Confers Reduction of SARS-CoV-2 Infection in Elderly and Immunocompromised Mice. <i>Frontiers in Immunology</i> , 2022, 13, 819058. | 2.2 | 1 |
| 241 | Potential for a Plant-Made SARS-CoV-2 Neutralizing Monoclonal Antibody as a Synergetic Cocktail Component. <i>Vaccines</i> , 2022, 10, 772. | 2.1 | 10 |
| 243 | Immunity to enteric viruses. <i>Immunity</i> , 2022, 55, 800-818. | 6.6 | 20 |
| 244 | <sc>PF</sc>â€07321332 (Nirmatrelvir) does not interact with human <sc>ENT1</sc> or <sc>ENT2</sc>: Implications for <sc>COVID</sc>â€19 patients. <i>Clinical and Translational Science</i> , 2022, 15, 1599-1605. | 1.5 | 12 |
| 245 | A glucose-like metabolite deficient in diabetes inhibits cellular entry of SARS-CoV-2. <i>Nature Metabolism</i> , 2022, 4, 547-558. | 5.1 | 14 |
| 246 | Insights Gained Into the Treatment of COVID19 by Pulmonary Surfactant and Its Components. <i>Frontiers in Immunology</i> , 2022, 13, 842453. | 2.2 | 4 |
| 248 | COVID-19 vaccine development: milestones, lessons and prospects. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 146. | 7.1 | 153 |
| 249 | Heterogeneous Infectivity and Pathogenesis of SARS-CoV-2 Variants Beta, Delta and Omicron in Transgenic K18-hACE2 and Wildtype Mice. <i>Frontiers in Microbiology</i> , 2022, 13, . | 1.5 | 39 |
| 250 | Characterization and antiviral susceptibility of SARS-CoV-2 Omicron BA.2. <i>Nature</i> , 2022, 607, 119-127. | 13.7 | 174 |
| 251 | Inhibition of IRAK4 dysregulates SARS-CoV-2 spike protein-induced macrophage inflammatory and glycolytic reprogramming. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 301. | 2.4 | 9 |
| 252 | Caspase-4/11 exacerbates disease severity in SARSâ€CoV-2 infection by promoting inflammation and immunothrombosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2202012119. | 3.3 | 25 |
| 255 | Phage-like particle vaccines are highly immunogenic and protect against pathogenic coronavirus infection and disease. <i>Npj Vaccines</i> , 2022, 7, . | 2.9 | 8 |
| 256 | Immune-Mediated Mechanisms of COVID-19 Neuropathology. <i>Frontiers in Neurology</i> , 2022, 13, . | 1.1 | 9 |
| 257 | Structural and biochemical mechanism for increased infectivity and immune evasion of OmicronâBA.2 variant compared to BA.1 and their possible mouse origins. <i>Cell Research</i> , 2022, 32, 609-620. | 5.7 | 63 |
| 258 | Up or down: where comes Omicron?. <i>Cell Research</i> , 2022, 32, 601-602. | 5.7 | 5 |
| 259 | Differential Pathogenesis of SARS-CoV-2 Variants of Concern in Human ACE2-Expressing Mice. <i>Viruses</i> , 2022, 14, 1139. | 1.5 | 21 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 260 | Effects of Spike Mutations in SARS-CoV-2 Variants of Concern on Human or Animal ACE2-Mediated Virus Entry and Neutralization. <i>Microbiology Spectrum</i> , 2022, 10, . | 1.2 | 24 |
| 262 | Nonhuman primate models for evaluation of SARS-CoV-2 vaccines. <i>Expert Review of Vaccines</i> , 2022, 21, 1055-1070. | 2.0 | 1 |
| 264 | Targeted isolation of diverse human protective broadly neutralizing antibodies against SARS-like viruses. <i>Nature Immunology</i> , 2022, 23, 960-970. | 7.0 | 39 |
| 267 | SARS-CoV-2 Omicron Variants Reduce Antibody Neutralization and Acquire Usage of Mouse ACE2. <i>Frontiers in Immunology</i> , 0, 13, . | 2.2 | 10 |
| 268 | Influenza Virus-like Particle-Based Hybrid Vaccine Containing RBD Induces Immunity against Influenza and SARS-CoV-2 Viruses. <i>Vaccines</i> , 2022, 10, 944. | 2.1 | 5 |
| 269 | Recombinant ACE2 protein protects against acute lung injury induced by SARS-CoV-2 spike RBD protein. <i>Critical Care</i> , 2022, 26, . | 2.5 | 8 |
| 271 | Hallmarks of Severe COVID-19 Pathogenesis: A Pas de Deux Between Viral and Host Factors. <i>Frontiers in Immunology</i> , 0, 13, . | 2.2 | 10 |
| 272 | Animal Models for COVID-19 Therapeutic Development: Where We Are and Where We Need to Go. <i>Frontiers in Microbiology</i> , 0, 13, . | 1.5 | 7 |
| 273 | The nervous system during COVID-19: Caught in the crossfire. <i>Immunological Reviews</i> , 2022, 311, 90-111. | 2.8 | 9 |
| 274 | LncRNA MALAT1 Participates in Protection of High-Molecular-Weight Hyaluronan against Smoke-Induced Acute Lung Injury by Upregulation of SOCS-1. <i>Molecules</i> , 2022, 27, 4128. | 1.7 | 2 |
| 275 | Development of a novel human CD147 knock-in NSG mouse model to test SARS-CoV-2 viral infection. <i>Cell and Bioscience</i> , 2022, 12, . | 2.1 | 7 |
| 276 | Cell and Animal Models for SARS-CoV-2 Research. <i>Viruses</i> , 2022, 14, 1507. | 1.5 | 9 |
| 277 | Animal models for COVID-19: advances, gaps and perspectives. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, . | 7.1 | 40 |
| 278 | A Multitrait Locus Regulates Sarbecovirus Pathogenesis. <i>MBio</i> , 2022, 13, . | 1.8 | 11 |
| 279 | Characterization of SARS-CoV-2 Spike mutations important for infection of mice and escape from human immune sera. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 19 |
| 280 | Engineered ACE2-Fc counters murine lethal SARS-CoV-2 infection through direct neutralization and Fc-effector activities. <i>Science Advances</i> , 2022, 8, . | 4.7 | 27 |
| 281 | SARS-CoV-2 infection produces chronic pulmonary epithelial and immune cell dysfunction with fibrosis in mice. <i>Science Translational Medicine</i> , 2022, 14, . | 5.8 | 55 |
| 283 | Genome-wide bidirectional CRISPR screens identify mucins as host factors modulating SARS-CoV-2 infection. <i>Nature Genetics</i> , 2022, 54, 1078-1089. | 9.4 | 61 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 284 | A Bacteriophage-Based, Highly Efficacious, Needle- and Adjuvant-Free, Mucosal COVID-19 Vaccine. <i>MBio</i> , 2022, 13, . | 1.8 | 17 |
| 285 | Hetero-bivalent nanobodies provide broad-spectrum protection against SARS-CoV-2 variants of concern including Omicron. <i>Cell Research</i> , 2022, 32, 831-842. | 5.7 | 16 |
| 286 | Evolution of ACE2-independent SARS-CoV-2 infection and mouse adaption after passage in cells expressing human and mouse ACE2. <i>Virus Evolution</i> , 2022, 8, . | 2.2 | 14 |
| 287 | SARS-CoV-2 prefusion spike protein stabilized by six rather than two prolines is more potent for inducing antibodies that neutralize viral variants of concern. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 28 |
| 288 | Characterization of Entry Pathways, Species-Specific Angiotensin-Converting Enzyme 2 Residues Determining Entry, and Antibody Neutralization Evasion of Omicron BA.1, BA.1.1, BA.2, and BA.3 Variants. <i>Journal of Virology</i> , 2022, 96, . | 1.5 | 12 |
| 289 | Structural bases for the higher adherence to ACE2 conferred by the SARS-CoV-2 spike Q498Y substitution. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 1156-1170. | 1.1 | 2 |
| 290 | Acquisition of Furin Cleavage Site and Further SARS-CoV-2 Evolution Change the Mechanisms of Viral Entry, Infection Spread, and Cell Signaling. <i>Journal of Virology</i> , 2022, 96, . | 1.5 | 7 |
| 291 | PIKfyve-specific inhibitors restrict replication of multiple coronaviruses in vitro but not in a murine model of COVID-19. <i>Communications Biology</i> , 2022, 5, . | 2.0 | 7 |
| 292 | Tracing the origin of Severe acute respiratory syndrome Coronavirus-2 (SARS-CoV-2): A systematic review and narrative synthesis. <i>Journal of Medical Virology</i> , 0, . | 2.5 | 3 |
| 293 | Cellular Imaging Analysis Algorithm-Based Assessment and Prediction of Disease in Patients with Acute Lung Injury. <i>Contrast Media and Molecular Imaging</i> , 2022, 2022, 1-11. | 0.4 | 1 |
| 294 | Understanding COVID-19-associated coagulopathy. <i>Nature Reviews Immunology</i> , 2022, 22, 639-649. | 10.6 | 137 |
| 295 | COVID-19: A Veterinary and One Health Perspective. <i>Journal of the Indian Institute of Science</i> , 2022, 102, 689-709. | 0.9 | 2 |
| 298 | SARS-CoV-2 does not infect pigs, but this has to be verified regularly. <i>Xenotransplantation</i> , 2022, 29, . | 1.6 | 3 |
| 299 | Common human genetic variants of APOE impact murine COVID-19 mortality. <i>Nature</i> , 2022, 611, 346-351. | 13.7 | 29 |
| 300 | Impaired immune response drives age-dependent severity of COVID-19. <i>Journal of Experimental Medicine</i> , 2022, 219, . | 4.2 | 26 |
| 301 | Spike protein-independent attenuation of SARS-CoV-2 Omicron variant in laboratory mice. <i>Cell Reports</i> , 2022, 40, 111359. | 2.9 | 23 |
| 302 | Mouse models of COVID-19 recapitulate inflammatory pathways rather than gene expression. <i>PLoS Pathogens</i> , 2022, 18, e1010867. | 2.1 | 17 |
| 303 | ZBTB7A promotes virus-host homeostasis during human coronavirus 229E infection. <i>Cell Reports</i> , 2022, 41, 111540. | 2.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 304 | Immunogenicity and protective efficacy of a rhesus adenoviral vaccine targeting conserved COVID-19 replication transcription complex. <i>Npj Vaccines</i> , 2022, 7, . | 2.9 | 2 |
| 305 | TLR7 controls myeloid-derived suppressor cells expansion and function in the lung of C57BL6 mice infected with <i>Schistosoma japonicum</i> . <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010851. | 1.3 | 0 |
| 306 | COVID-19 Vaccines and the Virus: Impact on Drug Metabolism and Pharmacokinetics. <i>Drug Metabolism and Disposition</i> , 2023, 51, 130-141. | 1.7 | 11 |
| 307 | Early pathogenesis profiles across SARS-CoV-2 variants in K18-hACE2 mice revealed differential triggers of lung damages. <i>Frontiers in Immunology</i> , 0, 13, . | 2.2 | 1 |
| 308 | Breadth of SARS-CoV-2 neutralization and protection induced by a nanoparticle vaccine. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 31 |
| 310 | Structural basis for mouse receptor recognition by SARS-CoV-2 omicron variant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 26 |
| 311 | LRRC15 inhibits SARS-CoV-2 cellular entry in trans. <i>PLoS Biology</i> , 2022, 20, e3001805. | 2.6 | 10 |
| 312 | Characteristics of animal models for COVID-19. <i>Animal Models and Experimental Medicine</i> , 2022, 5, 401-409. | 1.3 | 7 |
| 313 | Rapalogs downmodulate intrinsic immunity and promote cell entry of SARS-CoV-2. <i>Journal of Clinical Investigation</i> , 2022, 132, . | 3.9 | 15 |
| 314 | Anti-SARS-CoV-2 Activity of Adamantanes In Vitro and in Animal Models of Infection. <i>Covid</i> , 2022, 2, 1551-1563. | 0.7 | 2 |
| 315 | Advances and challenges in using nirmatrelvir and its derivatives against SARS-CoV-2 infection. <i>Journal of Pharmaceutical Analysis</i> , 2023, 13, 255-261. | 2.4 | 7 |
| 316 | Anti-inflammatory potential of turmeric, amla, and black pepper mixture against sepsis-induced acute lung injury in rats. <i>Journal of Food Science and Technology</i> , 2023, 60, 252-261. | 1.4 | 1 |
| 317 | SARS-CoV-2 infection of sustentacular cells disrupts olfactory signaling pathways. <i>JCI Insight</i> , 2022, 7, . | 2.3 | 16 |
| 318 | A minimally-edited mouse model for infection with multiple SARS-CoV-2 strains. <i>Frontiers in Immunology</i> , 0, 13, . | 2.2 | 3 |
| 320 | Multivalent S2-based vaccines provide broad protection against SARS-CoV-2 variants of concern and pangolin coronaviruses. <i>EBioMedicine</i> , 2022, 86, 104341. | 2.7 | 20 |
| 321 | Glycyrrhiza uralensis polysaccharides ameliorate acute lung injury by inhibiting the activation of multiple inflammasomes. <i>Journal of Functional Foods</i> , 2023, 100, 105386. | 1.6 | 3 |
| 322 | Phenothiazines inhibit SARS-CoV-2 cell entry via a blockade of spike protein binding to neuropilin-1. <i>Antiviral Research</i> , 2023, 209, 105481. | 1.9 | 13 |
| 323 | Immunosenescence and inflamm-ageing in COVID-19. <i>Ageing Research Reviews</i> , 2023, 84, 101818. | 5.0 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 325 | SARS-CoV-2 Spike triggers barrier dysfunction and vascular leak via integrins and TGF- β 2 signaling. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 18 |
| 326 | Influenza A virus modulates ACE2 expression and SARS-CoV-2 infectivity in human cardiomyocytes. <i>IScience</i> , 2022, 25, 105701. | 1.9 | 1 |
| 328 | Immune response and protective efficacy of the SARS-CoV-2 recombinant spike protein vaccine S-268019-b in mice. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 2 |
| 329 | Animal Models to Test SARS-CoV-2 Vaccines: Which Ones Are in Use and Future Expectations. <i>Pathogens</i> , 2023, 12, 20. | 1.2 | 4 |
| 331 | Upregulation of Robo4 expression by SMAD signaling suppresses vascular permeability and mortality in endotoxemia and COVID-19 models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, . | 3.3 | 4 |
| 333 | Severe respiratory viral infections: T-cell functions diverging from immunity to inflammation. <i>Trends in Microbiology</i> , 2023, 31, 644-656. | 3.5 | 7 |
| 334 | A C57BL/6 Mouse Model of SARS-CoV-2 Infection Recapitulates Age- and Sex-Based Differences in Human COVID-19 Disease and Recovery. <i>Vaccines</i> , 2023, 11, 47. | 2.1 | 6 |
| 335 | Mouse Adapted SARS-CoV-2 (MA10) Viral Infection Induces Neuroinflammation in Standard Laboratory Mice. <i>Viruses</i> , 2023, 15, 114. | 1.5 | 7 |
| 337 | Animal models of COVID-19 and complications. , 2023, , 623-636. | | 0 |
| 340 | Characterization of a Vesicular Stomatitis Virus-Vectored Recombinant Virus Bearing Spike Protein of SARS-CoV-2 Delta Variant. <i>Microorganisms</i> , 2023, 11, 431. | 1.6 | 1 |
| 341 | Tight junction protein occludin is an internalization factor for SARS-CoV-2 infection and mediates virus cell-to-cell transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, . | 3.3 | 3 |
| 342 | Does viral inoculum play a role in disease severity in COVID-19?. <i>Journal of Medical Virology</i> , 2023, 95, . | 2.5 | 0 |
| 343 | Respiratory viruses: New frontiersâ€”a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2023, 1522, 60-73. | 1.8 | 0 |
| 344 | Mouse-Adapted SARS-CoV-2 MA10 Strain Displays Differential Pulmonary Tropism and Accelerated Viral Replication, Neurodissemination, and Pulmonary Host Responses in K18-hACE2 Mice. <i>MSphere</i> , 2023, 8, . | 1.3 | 3 |
| 345 | Cell-autonomous requirement for ACE2 across organs in lethal mouse SARS-CoV-2 infection. <i>PLoS Biology</i> , 2023, 21, e3001989. | 2.6 | 6 |
| 346 | Carbohydrate fatty acid monosulphate: oil-in-water adjuvant enhances SARS-CoV-2 RBD nanoparticle-induced immunogenicity and protection in mice. <i>Npj Vaccines</i> , 2023, 8, . | 2.9 | 3 |
| 347 | Broadly neutralizing anti-S2 antibodies protect against all three human betacoronaviruses that cause deadly disease. <i>Immunity</i> , 2023, 56, 669-686.e7. | 6.6 | 43 |
| 348 | Human ACE2 expression, a major tropism determinant for SARS-CoV-2, is regulated by upstream and intragenic elements. <i>PLoS Pathogens</i> , 2023, 19, e1011168. | 2.1 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 349 | Inhibition of the mitochondrial pyruvate carrier simultaneously mitigates hyperinflammation and hyperglycemia in COVID-19. <i>Science Immunology</i> , 2023, 8, . | 5.6 | 7 |
| 350 | SARS-CoV-2-related bat virus behavior in human-relevant models sheds light on the origin of COVID-19. <i>EMBO Reports</i> , 2023, 24, . | 2.0 | 4 |
| 351 | Interferon-induced transmembrane protein 3 (IFITM3) limits lethality of SARS-CoV-2 in mice. <i>EMBO Reports</i> , 2023, 24, . | 2.0 | 13 |
| 352 | Prime-Pull Immunization of Mice with a BcfA-Adjuvanted Vaccine Elicits Sustained Mucosal Immunity That Prevents SARS-CoV-2 Infection and Pathology. <i>Journal of Immunology</i> , 2023, 210, 1257-1271. | 0.4 | 5 |
| 353 | Divalent siRNAs are bioavailable in the lung and efficiently block SARS-CoV-2 infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, . | 3.3 | 9 |
| 354 | A Critical Analysis of the Evidence for the SARS-CoV-2 Origin Hypotheses. <i>MBio</i> , 2023, 14, . | 1.8 | 3 |
| 355 | A Critical Analysis of the Evidence for the SARS-CoV-2 Origin Hypotheses. <i>MSphere</i> , 2023, 8, . | 1.3 | 0 |
| 356 | A Critical Analysis of the Evidence for the SARS-CoV-2 Origin Hypotheses. <i>Journal of Virology</i> , 2023, 97, . | 1.5 | 9 |
| 357 | SARS-CoV-2 Omicron (B.1.1.529) shows minimal neurotropism in a double-humanized mouse model. <i>Antiviral Research</i> , 2023, 212, 105580. | 1.9 | 2 |
| 359 | Recombinant measles virus expressing prefusion spike protein stabilized by six rather than two prolines is more efficacious against SARS-CoV-2 infection. <i>Journal of Medical Virology</i> , 2023, 95, . | 2.5 | 1 |
| 360 | Potent NKT cell ligands overcome SARS-CoV-2 immune evasion to mitigate viral pathogenesis in mouse models. <i>PLoS Pathogens</i> , 2023, 19, e1011240. | 2.1 | 6 |
| 362 | Fc-mediated pan-sarbecovirus protection after alphavirus vector vaccination. <i>Cell Reports</i> , 2023, 42, 112326. | 2.9 | 13 |
| 363 | Evolution of Immune Evasion and Host Range Expansion by the SARS-CoV-2 B.1.1.529 (Omicron) Variant. <i>MBio</i> , 2023, 14, . | 1.8 | 9 |
| 364 | Enhanced inhibition of MHC-I expression by SARS-CoV-2 Omicron subvariants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, . | 3.3 | 15 |
| 365 | 1-Octadecyl-2-benzyl-sn-glycerol-3-phospho-GS-441524 (V2043). Evaluation of Oral V2043 in a Mouse Model of SARS-CoV-2 Infection and Synthesis and Antiviral Evaluation of Additional Phospholipid Esters with Enhanced Anti-SARS-CoV-2 Activity. <i>Journal of Medicinal Chemistry</i> , 2023, 66, 5802-5819. | 2.9 | 3 |
| 399 | Animal models to study the neurological manifestations of the post-COVID-19 condition. <i>Lab Animal</i> , 2023, 52, 202-210. | 0.2 | 2 |
| 451 | Pathogenesis of viral infection. , 2024, , 2187-2207. | | 0 |
| 467 | Histopathology assay of the lung after intratracheal injection of SARS-CoV-2 spike protein recombinant in mice: A preliminary study. <i>AIP Conference Proceedings</i> , 2024, , . | 0.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
|---|---------|----|-----------|