SARS-CoV-2 Omicron virus causes attenuated disease in

Nature

603, 687-692

DOI: 10.1038/s41586-022-04441-6

Citation Report

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 4 | Omicron severity: milder but not mild. Lancet, The, 2022, 399, 412-413. | 13.7 | 124 |
| 9 | The omicron (B.1.1.529) SARS-CoV-2 variant of concern does not readily infect Syrian hamsters. Antiviral Research, 2022, 198, 105253. | 4.1 | 104 |
| 10 | Emergence of SARS-CoV-2 Omicron (B.1.1.529) variant, salient features, high global health concerns and strategies to counter it amid ongoing COVID-19 pandemic. Environmental Research, 2022, 209, 112816. | 7.5 | 189 |
| 12 | A Community Study of SARS-CoV-2 Detection by RT-PCR in Saliva: A Reliable and Effective Method. Viruses, 2022, 14, 313. | 3.3 | 10 |
| 13 | Infection and pathogenesis of the Delta variant of SARS-CoV-2 in Rhesus macaque. Virologica Sinica, 2022, , . | 3.0 | 4 |
| 16 | Signals of Significantly Increased Vaccine Breakthrough, Decreased Hospitalization Rates, and Less Severe Disease in Patients with Coronavirus Disease 2019 Caused by the Omicron Variant of Severe Acute Respiratory Syndrome Coronavirus 2 in Houston,ÂTexas. American Journal of Pathology, 2022, 192. 642-652. | 3.8 | 161 |
| 19 | Omicron Genetic and Clinical Peculiarities That May Overturn SARS-CoV-2 Pandemic: A Literature Review. International Journal of Molecular Sciences, 2022, 23, 1987. | 4.1 | 48 |
| 20 | Critical View on the Importance of Host Defense Strategies on Virus Distribution of Bee Viruses: What Can We Learn from SARS-CoV-2 Variants?. Viruses, 2022, 14, 503. | 3.3 | 1 |
| 21 | Successive Pandemic Waves with Different Virulent Strains and the Effects of Vaccination for SARS-CoV-2. Vaccines, 2022, 10, 343. | 4.4 | 4 |
| 24 | Nanoparticle Delivery Platforms for RNAi Therapeutics Targeting COVID-19 Disease in the Respiratory Tract. International Journal of Molecular Sciences, 2022, 23, 2408. | 4.1 | 13 |
| 26 | Fatal Neurodissemination and SARS-CoV-2 Tropism in K18-hACE2 Mice Is Only Partially Dependent on hACE2 Expression. Viruses, 2022, 14, 535. | 3.3 | 47 |
| 27 | COVID-19 Genetic Variants and Their Potential Impact in Vaccine Development. Microorganisms, 2022, 10, 598. | 3.6 | 14 |
| 28 | Boosting with variant-matched or historical mRNA vaccines protects against Omicron infection in mice. Cell, 2022, 185, 1572-1587.e11. | 28.9 | 71 |
| 30 | Defining the risk of SARS-CoV-2 variants on immune protection. Nature, 2022, 605, 640-652. | 27.8 | 117 |
| 31 | Organoid Models of SARS-CoV-2 Infection: What Have We Learned about COVID-19?. Organoids, 2022, 1, 2-27. | 3.1 | 12 |
| 32 | Omicron: What Makes the Latest SARS-CoV-2 Variant of Concern So Concerning?. Journal of Virology, 2022, 96, jvi0207721. | 3.4 | 143 |
| 33 | Efficacy of vaccination and previous infection against the Omicron BA.1 variant in Syrian hamsters. Cell Reports, 2022, 39, 110688. | 6.4 | 14 |
| 35 | Challenges of the Omicron (B.1.1.529) Variant and Its Lineages: A Global Perspective. ChemBioChem, 2022, 23, e202200059. | 2.6 | 35 |

| # | Article | IF | Citations |
|----|---|------|-----------|
| 36 | A 1-year longitudinal study on COVID-19 convalescents reveals persistence of anti-SARS-CoV-2 humoral and cellular immunity. Emerging Microbes and Infections, 2022, 11, 902-913. | 6.5 | 7 |
| 37 | mRNA-1273 or mRNA-Omicron boost in vaccinated macaques elicits similar B cell expansion, neutralizing responses, and protection from Omicron. Cell, 2022, 185, 1556-1571.e18. | 28.9 | 179 |
| 38 | Global trends in COVID-19. , 2022, 1, 31-39. | | 8 |
| 39 | SARS-CoV-2 pathogenesis. Nature Reviews Microbiology, 2022, 20, 270-284. | 28.6 | 404 |
| 41 | Neutralizing immunity in vaccine breakthrough infections from the SARS-CoV-2 Omicron and Delta variants. Cell, 2022, 185, 1539-1548.e5. | 28.9 | 126 |
| 43 | Cross-species tropism and antigenic landscapes of circulating SARS-CoV-2 variants. Cell Reports, 2022, 38, 110558. | 6.4 | 15 |
| 44 | The neuroinvasiveness, neurotropism, and neurovirulence of SARS-CoV-2. Trends in Neurosciences, 2022, 45, 358-368. | 8.6 | 118 |
| 45 | Clinical Significance of COVID-19 and Diabetes: In the Pandemic Situation of SARS-CoV-2 Variants including Omicron (B.1.1.529). Biology, 2022, 11, 400. | 2.8 | 10 |
| 46 | Animal models in SARS-CoV-2 research. Nature Methods, 2022, 19, 392-394. | 19.0 | 51 |
| 48 | Reduced pathogenicity of the SARS-CoV-2 omicron variant in hamsters. Med, 2022, 3, 262-268.e4. | 4.4 | 117 |
| 49 | Pathogenicity of SARS-CoV-2 Omicron (R346K) variant in Syrian hamsters and its cross-neutralization with different variants of concern. EBioMedicine, 2022, 79, 103997. | 6.1 | 29 |
| 51 | Croup Associated With SARS-CoV-2: Pediatric Laryngotracheitis During the Omicron Surge. Journal of the Pediatric Infectious Diseases Society, 2022, 11, 371-374. | 1.3 | 16 |
| 52 | Structures of Omicron spike complexes and implications for neutralizing antibody development. Cell Reports, 2022, 39, 110770. | 6.4 | 47 |
| 55 | Research progress on vaccine efficacy against SARS-CoV-2 variants of concern. Human Vaccines and Immunotherapeutics, 2022, 18, 1-12. | 3.3 | 10 |
| 56 | Nasally delivered interferon-l̂» protects mice against infection by SARS-CoV-2 variants including Omicron. Cell Reports, 2022, 39, 110799. | 6.4 | 39 |
| 57 | The Delta SARS-CoV-2 Variant of Concern Induces Distinct Pathogenic Patterns of Respiratory Disease in K18-hACE2 Transgenic Mice Compared to the Ancestral Strain from Wuhan. MBio, 2022, 13, e0068322. | 4.1 | 17 |
| 58 | Outcomes of laboratoryâ€confirmed <scp>SARSâ€CoV</scp> â€2 infection in the Omicronâ€driven fourth wave compared with previous waves in the Western Cape Province, South Africa. Tropical Medicine and International Health, 2022, 27, 564-573. | 2.3 | 94 |
| 61 | Comparison of Vaccine Effectiveness Against the Omicron (B.1.1.529) Variant in Hemodialysis Patients. Kidney International Reports, 2022, 7, 1406-1409. | 0.8 | 26 |

| # | ARTICLE | IF | Citations |
|----|--|------|-----------|
| 62 | COVID-19 and tuberculosis: the double whammy of respiratory pathogens. European Respiratory Review, 2022, 31, 210264. | 7.1 | 40 |
| 63 | Structural and functional impact by SARS-CoV-2 Omicron spike mutations. Cell Reports, 2022, 39, 110729. | 6.4 | 102 |
| 64 | COVIDâ€19: Omicron – the latest, the least virulent, but probably not the last variant of concern of SARSâ€CoVâ€2. Microbial Biotechnology, 2022, 15, 1927-1939. | 4.2 | 41 |
| 65 | SARS-CoV-2 Infection: Host Response, Immunity, and Therapeutic Targets. Inflammation, 2022, 45, 1430-1449. | 3.8 | 16 |
| 66 | Risk of hospitalisation associated with infection with SARS-CoV-2 omicron variant versus delta variant in Denmark: an observational cohort study. Lancet Infectious Diseases, The, 2022, 22, 967-976. | 9.1 | 140 |
| 67 | Protection of Hamsters Challenged with SARS-CoV-2 Delta Variant after Two Doses of Adjuvanted SARS-CoV-2 Stabilized Prefusion Spike Protein (S-2P) and a Single Dose of Beta Variant S-2P. Journal of Infectious Diseases, 2022, , . | 4.0 | 5 |
| 68 | The immune response to <scp>COVID</scp> â€19: Does sex matter?. Immunology, 2022, 166, 429-443. | 4.4 | 18 |
| 69 | An engineered ACE2 decoy neutralizes the SARS-CoV-2 Omicron variant and confers protection against infection in vivo. Science Translational Medicine, 2022, 14, eabn7737. | 12.4 | 34 |
| 70 | Animal models for studying COVID-19, prevention, and therapy: Pathology and disease phenotypes. Veterinary Pathology, 2022, 59, 516-527. | 1.7 | 5 |
| 71 | Passive Immunotherapy Against SARS-CoV-2: From Plasma-Based Therapy to Single Potent Antibodies in the Race to Stay Ahead of the Variants. BioDrugs, 2022, 36, 231-323. | 4.6 | 24 |
| 72 | Broadly neutralizing antibodies against Omicron-included SARS-CoV-2 variants induced by vaccination. Signal Transduction and Targeted Therapy, 2022, 7, 139. | 17.1 | 14 |
| 73 | Neutralization of SARS-CoV-2 Omicron sub-lineages BA.1, BA.1.1, and BA.2. Cell Host and Microbe, 2022, 30, 1093-1102.e3. | 11.0 | 114 |
| 75 | SARS-CoV-2 Omicron variant: recent progress and future perspectives. Signal Transduction and Targeted Therapy, 2022, 7, 141. | 17.1 | 315 |
| 76 | Shell Disorder Models Detect That Omicron Has Harder Shells with Attenuation but Is Not a Descendant of the Wuhan-Hu-1 SARS-CoV-2. Biomolecules, 2022, 12, 631. | 4.0 | 4 |
| 77 | Delta spike P681R mutation enhances SARS-CoV-2 fitness over Alpha variant. Cell Reports, 2022, 39, 110829. | 6.4 | 214 |
| 78 | Application of animal models to compare and contrast the virulence of current and future potential SARS-CoV-2 variants. Biosafety and Health, 2022, 4, 154-160. | 2.7 | 3 |
| 79 | Making a Joint Decision Regarding The Timing of Surgery For Elective Arthroplasty Surgery After Being Infected With COVID-19: A Systematic Review. Journal of Arthroplasty, 2022, , . | 3.1 | 5 |
| 81 | Virological characteristics of the SARS-CoV-2 Omicron BA.2 spike. Cell, 2022, 185, 2103-2115.e19. | 28.9 | 273 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 82 | The Reassessed Potential of SARS-CoV-2 Attenuation for COVID-19 Vaccine Developmentâ€"A Systematic Review. Viruses, 2022, 14, 991. | 3.3 | 10 |
| 83 | Emerging SARS-CoV-2 variants: Why, how, and what's next?. , 2022, 1, 100029. | | 26 |
| 84 | Advances in Modelling COVID-19 in Animals. Frontiers in Drug Discovery, 2022, 2, . | 2.8 | 0 |
| 85 | Pathogenicity of SARSâ€CoVâ€⊋ Omicron. Clinical and Translational Medicine, 2022, 12, e880. | 4.0 | 12 |
| 86 | Neuroinvasion and Neurotropism by SARS-CoV-2 Variants in the K18-hACE2 Mouse. Viruses, 2022, 14, 1020. | 3.3 | 58 |
| 87 | Pathogenicity of SARS-CoV-2 Omicron BA.1.1 in hamsters. EBioMedicine, 2022, 80, 104035. | 6.1 | 4 |
| 88 | Many Keys Unlock the Doors for Virus Entry. MBio, 2022, , e0044522. | 4.1 | 0 |
| 89 | Integrin/TGF-Î ² 1 Inhibitor GLPG-0187 Blocks SARS-CoV-2 Delta and Omicron Pseudovirus Infection of Airway Epithelial Cells In Vitro, Which Could Attenuate Disease Severity. Pharmaceuticals, 2022, 15, 618. | 3.8 | 12 |
| 90 | Characterization and antiviral susceptibility of SARS-CoV-2 Omicron BA.2. Nature, 2022, 607, 119-127. | 27.8 | 174 |
| 91 | Limited cross-variant immunity from SARS-CoV-2 Omicron without vaccination. Nature, 2022, 607, 351-355. | 27.8 | 143 |
| 94 | A live attenuated virus-based intranasal COVID-19 vaccine provides rapid, prolonged, and broad protection against SARS-CoV-2. Science Bulletin, 2022, 67, 1372-1387. | 9.0 | 54 |
| 95 | Experimental Infection of Mink with SARS-COV-2 Omicron Variant and Subsequent Clinical Disease. Emerging Infectious Diseases, 2022, 28, . | 4.3 | 11 |
| 96 | Severe hospital events following symptomatic infection with Sars-CoV-2 Omicron and Delta variants in France, December 2021–January 2022: A retrospective, population-based, matched cohort study. EClinicalMedicine, 2022, 48, 101455. | 7.1 | 49 |
| 97 | Clinical severity of COVID-19 in patients admitted to hospital during the omicron wave in South Africa: a retrospective observational study. The Lancet Global Health, 2022, 10, e961-e969. | 6.3 | 120 |
| 99 | An Insight Based on Computational Analysis of the Interaction between the Receptor-Binding Domain of the Omicron Variants and Human Angiotensin-Converting Enzyme 2. Biology, 2022, 11, 797. | 2.8 | 10 |
| 100 | Platform for isolation and characterization of SARS-CoV-2 variants enables rapid characterization of Omicron in Australia. Nature Microbiology, 2022, 7, 896-908. | 13.3 | 32 |
| 101 | Could a Lower Toll-like Receptor (TLR) and NF-κB Activation Due to a Changed Charge Distribution in the Spike Protein Be the Reason for the Lower Pathogenicity of Omicron?. International Journal of Molecular Sciences, 2022, 23, 5966. | 4.1 | 9 |
| 102 | Differential Pathogenesis of SARS-CoV-2 Variants of Concern in Human ACE2-Expressing Mice. Viruses, 2022, 14, 1139. | 3.3 | 21 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 103 | Recent insights into SARS oVâ€2 omicron variant. Reviews in Medical Virology, 2023, 33, . | 8.3 | 29 |
| 104 | Estimating relative generation times and reproduction numbers of Omicron BA.1 and BA.2 with respect to Delta variant in Denmark. Mathematical Biosciences and Engineering, 2022, 19, 9005-9017. | 1.9 | 32 |
| 105 | Sensitivity to Vaccines, Therapeutic Antibodies, and Viral Entry Inhibitors and Advances To Counter the SARS-CoV-2 Omicron Variant. Clinical Microbiology Reviews, 2022, 35, . | 13.6 | 35 |
| 106 | Resistance of SARS-CoV-2 Omicron BA.1 and BA.2 Variants to Vaccine-Elicited Sera and Therapeutic Monoclonal Antibodies. Viruses, 2022, 14, 1334. | 3.3 | 45 |
| 107 | Boosting with variant-matched vaccines: an opportunity to win the race against Omicron. Signal Transduction and Targeted Therapy, 2022, 7, . | 17.1 | 0 |
| 108 | Nationwide Effectiveness of First and Second SARS-CoV2 Booster Vaccines During the Delta and Omicron Pandemic Waves in Hungary (HUN-VE 2 Study). Frontiers in Immunology, 0, 13 , . | 4.8 | 26 |
| 109 | SARS-CoV-2: A Master of Immune Evasion. Biomedicines, 2022, 10, 1339. | 3.2 | 24 |
| 110 | SARS-CoV-2 Omicron variant causes mild pathology in the upper and lower respiratory tract of hamsters. Nature Communications, 2022, 13 , . | 12.8 | 73 |
| 111 | Antigenic cartography of SARS-CoV-2 reveals that Omicron BA.1 and BA.2 are antigenically distinct. Science Immunology, 2022, 7 , . | 11.9 | 89 |
| 113 | Pathogenicity, transmissibility, and fitness of SARS-CoV-2 Omicron in Syrian hamsters. Science, 2022, 377, 428-433. | 12.6 | 113 |
| 114 | The Ecology of Viral Emergence. Annual Review of Virology, 2022, 9, 173-192. | 6.7 | 20 |
| 116 | Therapeutic efficacy of monoclonal antibodies and antivirals against SARS-CoV-2 Omicron BA.1 in Syrian hamsters. Nature Microbiology, 2022, 7, 1252-1258. | 13.3 | 20 |
| 117 | Structural Plasticity and Immune Evasion of SARS-CoV-2 Spike Variants. Viruses, 2022, 14, 1255. | 3.3 | 30 |
| 118 | A broadly neutralizing antibody protects Syrian hamsters against SARS-CoV-2 Omicron challenge. Nature Communications, 2022, 13, . | 12.8 | 22 |
| 119 | Trivalent NDV-HXP-S Vaccine Protects against Phylogenetically Distant SARS-CoV-2 Variants of Concern in Mice. Microbiology Spectrum, 2022, 10, . | 3.0 | 14 |
| 120 | SARS-CoV-2, platelets, and endothelium: coexistence in space and time, or a pernicious ménage à trois?. Vascular Biology (Bristol, England), 2022, 4, R35-R43. | 3.2 | 5 |
| 121 | SARS-CoV-2 Omicron BA.5: Evolving Tropism and Evasion of Potent Humoral Responses and Resistance to Clinical Immunotherapeutics Relative to Viral Variants of Concern. SSRN Electronic Journal, 0, , . | 0.4 | 3 |
| 122 | K18- and CAG-hACE2 Transgenic Mouse Models and SARS-CoV-2: Implications for Neurodegeneration Research. Molecules, 2022, 27, 4142. | 3.8 | 7 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 124 | The nervous system during <scp>COVID</scp> â€19: Caught in the crossfire. Immunological Reviews, 2022, 311, 90-111. | 6.0 | 9 |
| 125 | Sequencing during Times of Change: Evaluating SARS-CoV-2 Clinical Samples during the Transition from the Delta to Omicron Wave. Viruses, 2022, 14, 1408. | 3.3 | 3 |
| 126 | Differences in New Variant of Concern Replication at Physiological Temperatures In Vitro. Journal of Infectious Diseases, 2023, 227, 202-205. | 4.0 | 10 |
| 127 | Considering innate immune responses in SARS-CoV-2 infection and COVID-19. Nature Reviews Immunology, 2022, 22, 465-470. | 22.7 | 14 |
| 128 | Viral Vector Vaccine Development and Application during the COVID-19 Pandemic. Microorganisms, 2022, 10, 1450. | 3.6 | 28 |
| 131 | Differences between Omicron SARS-CoV-2 RBD and other variants in their ability to interact with cell receptors and monoclonal antibodies. Journal of Biomolecular Structure and Dynamics, 2023, 41, 5707-5727. | 3.5 | 7 |
| 132 | A booster dose of Delta × Omicron hybrid mRNA vaccine produced broadly neutralizing antibody against Omicron and other SARS-CoV-2 variants. Journal of Biomedical Science, 2022, 29, . | 7.0 | 42 |
| 133 | Animal models for COVID-19: advances, gaps and perspectives. Signal Transduction and Targeted Therapy, 2022, 7, . | 17.1 | 40 |
| 134 | Reduced Pathogenicity and Transmission Potential of Omicron BA.1 and BA.2 Sublineages Compared with the Early Severe Acute Respiratory Syndrome Coronavirus 2 D614G Variant in Syrian Hamsters. Journal of Infectious Diseases, 2023, 227, 1143-1152. | 4.0 | 16 |
| 135 | Protection of hamsters challenged with SARS-CoV-2 after two doses of MVC-COV1901 vaccine followed by a single intranasal booster with nanoemulsion adjuvanted S-2P vaccine. Scientific Reports, 2022, 12, . | 3.3 | 4 |
| 136 | Importance score of SARS-CoV-2 genome predicts the death risk of COVID-19. Cell Death Discovery, 2022, 8, . | 4.7 | 2 |
| 138 | Pulmonary lesions following inoculation with the SARS-CoV-2 Omicron BA.1 (B.1.1.529) variant in Syrian golden hamsters. Emerging Microbes and Infections, 2022, 11, 1778-1786. | 6.5 | 7 |
| 139 | Resilience of S309 and AZD7442 monoclonal antibody treatments against infection by SARS-CoV-2 Omicron lineage strains. Nature Communications, 2022, 13, . | 12.8 | 93 |
| 140 | Limited neutralisation of the SARS-CoV-2 Omicron subvariants BA.1 and BA.2 by convalescent and vaccine serum and monoclonal antibodies. EBioMedicine, 2022, 82, 104158. | 6.1 | 128 |
| 141 | Patient-derived monoclonal antibody neutralizes SARS-CoV-2 Omicron variants and confers full protection in monkeys. Nature Microbiology, 2022, 7, 1376-1389. | 13.3 | 33 |
| 142 | Alveolar macrophages: Achilles' heel of SARS-CoV-2 infection. Signal Transduction and Targeted Therapy, 2022, 7, . | 17.1 | 15 |
| 144 | Global, regional, and national incidence and mortality of COVID-19 in 237 countries and territories, January 2022: a systematic analysis for World Health Organization COVID-19 Dashboard., 0, 2, . | | 28 |
| 145 | Hetero-bivalent nanobodies provide broad-spectrum protection against SARS-CoV-2 variants of concern including Omicron. Cell Research, 2022, 32, 831-842. | 12.0 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 146 | SARS-CoV-2 S2–targeted vaccination elicits broadly neutralizing antibodies. Science Translational Medicine, 2022, 14, . | 12.4 | 57 |
| 147 | Evolution of ACE2-independent SARS-CoV-2 infection and mouse adaption after passage in cells expressing human and mouse ACE2. Virus Evolution, 2022, 8, . | 4.9 | 14 |
| 149 | Early Isolates of SARS-CoV-2 Result in Different Pathogenesis in the Transduced Mouse Model of COVID-19. Viruses, 2022, 14, 1769. | 3.3 | 1 |
| 150 | A Glycosylated RBD Protein Induces Enhanced Neutralizing Antibodies against Omicron and Other Variants with Improved Protection against SARS-CoV-2 Infection. Journal of Virology, 2022, 96, . | 3.4 | 15 |
| 151 | Impact of SARS-CoV-2 Spike Mutations on Its Activation by TMPRSS2 and the Alternative TMPRSS13 Protease. MBio, 0 , , . | 4.1 | 3 |
| 152 | COVID-19 Omicron variant-induced laryngitis. Auris Nasus Larynx, 2022, , . | 1.2 | 7 |
| 153 | Intranasal vaccination induced cross-protective secretory IgA antibodies against SARS-CoV-2 variants with reducing the potential risk of lung eosinophilic immunopathology. Vaccine, 2022, 40, 5892-5903. | 3.8 | 6 |
| 154 | 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. Journal of Virology, 2022, 96, . | 3.4 | 12 |
| 155 | Preclinical assessment and randomized Phase I study of CT-P63, a broadly neutralizing antibody targeting severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Emerging Microbes and Infections, 2022, 11, 2315-2325. | 6.5 | 3 |
| 156 | Assessing the suitability of long non-coding RNAs as therapeutic targets and biomarkers in SARS-CoV-2 infection. Frontiers in Molecular Biosciences, 0, 9, . | 3.5 | 6 |
| 158 | Omicron-associated changes in SARS-CoV-2 symptoms in the United Kingdom. Clinical Infectious Diseases, 0, , . | 5.8 | 43 |
| 161 | The Omicron Variant BA.1.1 Presents a Lower Pathogenicity than B.1 D614G and Delta Variants in a Feline Model of SARS-CoV-2 Infection. Journal of Virology, 2022, 96, . | 3.4 | 35 |
| 162 | The Omicron (B.1.1.529) SARS-CoV-2 variant of concern also affects companion animals. Frontiers in Veterinary Science, $0, 9, .$ | 2.2 | 20 |
| 163 | The Omicron variant of concern: The genomics, diagnostics, and clinical characteristics in children. Frontiers in Pediatrics, $0,10,10$ | 1.9 | 19 |
| 164 | Cross-neutralization and cross-protection among SARS-CoV-2 viruses bearing different variant spikes. Signal Transduction and Targeted Therapy, 2022, 7, . | 17.1 | 6 |
| 165 | Understanding COVID-19-associated coagulopathy. Nature Reviews Immunology, 2022, 22, 639-649. | 22.7 | 137 |
| 166 | Promotion of neutralizing antibody-independent immunity to wild-type and SARS-CoV-2 variants of concern using an RBD-Nucleocapsid fusion protein. Nature Communications, 2022, 13, . | 12.8 | 12 |
| 167 | ChAdOx1 nCoV-19 (AZD1222) or nCoV-19-Beta (AZD2816) protect Syrian hamsters against Beta Delta and Omicron variants. Nature Communications, 2022, 13, . | 12.8 | 23 |

| # | ARTICLE | IF | Citations |
|-----|--|------|-----------|
| 168 | Targeted escape of SARS-CoV-2 in vitro from monoclonal antibody S309, the precursor of sotrovimab. Frontiers in Immunology, $0,13,1$ | 4.8 | 10 |
| 169 | A SCID Mouse Model To Evaluate the Efficacy of Antivirals against SARS-CoV-2 Infection. Journal of Virology, 2022, 96, . | 3.4 | 5 |
| 170 | Passive immunization with equine RBD-specific Fab protects K18-hACE2-mice against Alpha or Beta variants of SARS-CoV-2. Frontiers in Immunology, 0, 13 , . | 4.8 | 3 |
| 172 | Replicating RNA platform enables rapid response to the SARS-CoV-2 Omicron variant and elicits enhanced protection in naÃ-ve hamsters compared to ancestral vaccine. EBioMedicine, 2022, 83, 104196. | 6.1 | 26 |
| 173 | Omicron variant (B.1.1.529) and its sublineages: What do we know so far amid the emergence of recombinant variants of SARS-CoV-2?. Biomedicine and Pharmacotherapy, 2022, 154, 113522. | 5.6 | 56 |
| 174 | CLN7/MFSD8 may be an important factor for SARS-CoV-2 cell entry. IScience, 2022, 25, 105082. | 4.1 | 1 |
| 175 | SARS-CoV-2 Omicron BA.5: Evolving tropism and evasion of potent humoral responses and resistance to clinical immunotherapeutics relative to viral variants of concern. EBioMedicine, 2022, 84, 104270. | 6.1 | 86 |
| 176 | Wastewater to clinical case (WC) ratio of COVID-19 identifies insufficient clinical testing, onset of new variants of concern and population immunity in urban communities. Science of the Total Environment, 2022, 853, 158547. | 8.0 | 19 |
| 177 | Characterizing the third wave of COVID-19. Indian Journal of Medical Research, 2022, Publish Ahead of Print, . | 1.0 | 1 |
| 178 | Are atypical lymphocytes a new predictive factor in the development of COVID-19?. Revista Da Sociedade Brasileira De Medicina Tropical, 0, 55, . | 0.9 | 0 |
| 179 | SARS-CoV-2 Vaccine Against Virus: Mission Accomplished!?., 2022, , 561-574. | | 0 |
| 180 | Covid-Associated Pernio is the Product of an Abortive Sars-Cov-2 Infection Resulting in the Deposition of Inflammatory Viral Rna and a Local Interferon Response. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 181 | COVID-19 Infection: The Virus and Its Origin, the Variants, the Immune Defense, the Multiorgan Autoimmune Reactions, and the Targeted Treatments. Advances in Infectious Diseases, 2022, 12, 568-631. | 0.2 | 1 |
| 182 | The Fc-Effector Function of COVID-19 Convalescent Plasma Contributes to SARS-CoV-2 Treatment Efficacy in Mice. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 183 | Experimental measurement of respiratory particles dispersed by wind instruments and analysis of the associated risk of infection transmission. Journal of Aerosol Science, 2023, 167, 106070. | 3.8 | 2 |
| 184 | A potent neutralizing antibody provides protection against SARS-CoV-2 Omicron and Delta variants via nasal delivery. Signal Transduction and Targeted Therapy, 2022, 7, . | 17.1 | 10 |
| 185 | Clinical Severity of Severe Acute Respiratory Syndrome Coronavirus 2 Omicron Variant Relative to Delta in British Columbia, Canada: A Retrospective Analysis of Whole-Genome Sequenced Cases. Clinical Infectious Diseases, 2023, 76, e18-e25. | 5.8 | 15 |
| 187 | Rhabdomyolysis in Pediatric Patients with SARS-CoV-2 Infection. Children, 2022, 9, 1441. | 1.5 | 4 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 188 | B.1.351 SARS-CoV-2 Variant Exhibits Higher Virulence but Less Viral Shedding than That of the Ancestral Strain in Young Nonhuman Primates. Microbiology Spectrum, 2022, 10, . | 3.0 | 6 |
| 189 | Prospects of animal models and their application in studies on adaptive immunity to SARS-CoV-2. Frontiers in Immunology, 0, 13, . | 4.8 | 4 |
| 191 | Does diabetes risk after SARS-CoV-2 infection depend on the viral variant?. Diabetes Research and Clinical Practice, 2022, 191, 110054. | 2.8 | 3 |
| 192 | Virological features and pathogenicity of SARS-CoV-2 Omicron BA.2. Cell Reports Medicine, 2022, 3, 100743. | 6.5 | 19 |
| 193 | Dual spike and nucleocapsid mRNA vaccination confer protection against SARS-CoV-2 Omicron and Delta variants in preclinical models. Science Translational Medicine, 2022, 14, . | 12.4 | 55 |
| 194 | Mucosal nanobody IgA as inhalable and affordable prophylactic and therapeutic treatment against SARS-CoV-2 and emerging variants. Frontiers in Immunology, 0, 13, . | 4.8 | 5 |
| 195 | COVID-19 Spotlights Connections between Disease and Multiple Lifestyle Factors. American Journal of Lifestyle Medicine, 0, , 155982762211230. | 1.9 | 4 |
| 196 | Characterization of <scp>SHARPIN</scp> knockout Syrian hamsters developed using <scp>CRISPR</scp> /Cas9 system. Animal Models and Experimental Medicine, 2023, 6, 489-498. | 3.3 | 2 |
| 197 | Spike mutations contributing to the altered entry preference of SARS-CoV-2 omicron BA.1 and BA.2. Emerging Microbes and Infections, 2022, 11, 2275-2287. | 6.5 | 48 |
| 198 | Spike protein-independent attenuation of SARS-CoV-2 Omicron variant in laboratory mice. Cell Reports, 2022, 40, 111359. | 6.4 | 23 |
| 199 | An <scp>ACE2</scp> decoy can be administered by inhalation and potently targets omicron variants of <scp>SARS oV</scp> â€2. EMBO Molecular Medicine, 2022, 14, . | 6.9 | 28 |
| 200 | Building a Resilient Scientific Network for COVID-19 and Beyond. MBio, 0, , . | 4.1 | 1 |
| 201 | In vitro and in vivo differences in neurovirulence between D614G, Delta And Omicron BA.1 SARS-CoV-2 variants. Acta Neuropathologica Communications, 2022, 10, . | 5.2 | 24 |
| 202 | Scaling Biosafety Up During and Down After the COVID-19 Pandemic. Applied Biosafety, 2022, 27, 247-254. | 0.5 | 1 |
| 203 | Global "flu-ization―of COVID-19: A perspective from Vietnam. Frontiers in Public Health, 0, 10, . | 2.7 | 8 |
| 204 | An international observational study to assess the impact of the Omicron variant emergence on the clinical epidemiology of COVID-19 in hospitalised patients. ELife, $0,11,.$ | 6.0 | 8 |
| 209 | SARS-CoV-2 Omicron variant is attenuated for replication in a polarized human lung epithelial cell model. Communications Biology, 2022, 5, . | 4.4 | 34 |
| 210 | Infection, pathology and interferon treatment of the SARS-CoV-2 Omicron BA.1 variant in juvenile, adult and aged Syrian hamsters., 2022, 19, 1392-1399. | | 5 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 212 | Early pathogenesis profiles across SARS-CoV-2 variants in K18-hACE2 mice revealed differential triggers of lung damages. Frontiers in Immunology, $0,13,.$ | 4.8 | 1 |
| 213 | Limited permissibility of ENL-R and Mv-1-Lu mink cell lines to SARS-CoV-2. Frontiers in Microbiology, 0, 13, . | 3.5 | 0 |
| 214 | The Burden of Omicron Variant in Pakistan: An Updated Review. Covid, 2022, 2, 1460-1476. | 1.5 | 1 |
| 215 | Essential role of TMPRSS2 in SARS-CoV-2 infection in murine airways. Nature Communications, 2022, 13, | 12.8 | 46 |
| 216 | Characteristics of animal models for COVIDâ€19. Animal Models and Experimental Medicine, 2022, 5, 401-409. | 3.3 | 7 |
| 217 | Choosing a cellular model to study SARS-CoV-2. Frontiers in Cellular and Infection Microbiology, 0, 12, . | 3.9 | 22 |
| 218 | Bivalent SARS-CoV-2 mRNA vaccines increase breadth of neutralization and protect against the BA.5 Omicron variant in mice. Nature Medicine, 2023, 29, 247-257. | 30.7 | 98 |
| 219 | Characteristics and outcomes of COVID-19 patients during B.1.1.529 (Omicron) dominance compared to B.1.617.2 (Delta) in 89 German hospitals. BMC Infectious Diseases, 2022, 22, . | 2.9 | 19 |
| 220 | Comparison of SARS-CoV-2 Viral Loads in the Nasal Mucosa of Patients Infected With BA.1, BA.2, or BA.5 Omicron Lineages. Open Forum Infectious Diseases, 2022, 9, . | 0.9 | 2 |
| 221 | SARS-CoV-2 Omicron BA.1 Challenge after Ancestral or Delta Infection in Mice. Emerging Infectious Diseases, 2022, 28, 2352-2355. | 4.3 | 0 |
| 222 | Characterization of SARS-CoV-2 Omicron BA.4 and BA.5 isolates in rodents. Nature, 2022, 612, 540-545. | 27.8 | 60 |
| 223 | S-217622, a SARS-CoV-2 main protease inhibitor, decreases viral load and ameliorates COVID-19 severity in hamsters. Science Translational Medicine, 2023, 15, . | 12.4 | 39 |
| 224 | Extended SARS-CoV-2 RBD booster vaccination induces humoral and cellular immune tolerance in mice. IScience, 2022, 25, 105479. | 4.1 | 24 |
| 225 | Nasal irrigation efficiently attenuates SARS-CoV-2 Omicron infection, transmission and lung injury in the Syrian hamster model. IScience, 2022, 25, 105475. | 4.1 | 8 |
| 226 | Emergence of SARSâ€CoVâ€2 OmicronÂvariant and strategies for tackling the infection. Immunity, Inflammation and Disease, 2022, 10, . | 2.7 | 9 |
| 227 | Updated vaccine protects against SARS-CoV-2 variants including Omicron (B.1.1.529) and prevents transmission in hamsters. Nature Communications, 2022, 13, . | 12.8 | 11 |
| 228 | SARS-CoV-2 variants: Impact on biological and clinical outcome. Frontiers in Medicine, 0, 9, . | 2.6 | 7 |
| 229 | A minimally-edited mouse model for infection with multiple SARS-CoV-2 strains. Frontiers in Immunology, 0, 13, . | 4.8 | 3 |

| # | Article | lF | CITATIONS |
|-----|--|------|-----------|
| 230 | Enhanced virulence and waning vaccine-elicited antibodies account for breakthrough infections caused by SARS-CoV-2 delta and beyond. IScience, 2022, 25, 105507. | 4.1 | 10 |
| 232 | Assessment, diagnosis and treatment of children who present with stridor. Emergency Nurse, 2023, 31, 27-32. | 0.2 | 0 |
| 233 | Role of SARS-CoV-2-induced cytokine storm in multi-organ failure: Molecular pathways and potential therapeutic options. International Immunopharmacology, 2022, 113, 109428. | 3.8 | 22 |
| 234 | SARS-CoV-2 Omicron BA.1 and BA.2 are attenuated in rhesus macaques as compared to Delta. Science Advances, 2022, 8, . | 10.3 | 28 |
| 235 | Serological fingerprints link antiviral activity of the rapeutic antibodies to affinity and concentration. Scientific Reports, $2022,\ 12,\ .$ | 3.3 | 2 |
| 236 | Global emerging Omicron variant of SARS-CoV-2: Impacts, challenges and strategies. Journal of Infection and Public Health, 2023, 16, 4-14. | 4.1 | 105 |
| 237 | Stimulation of interferon- \hat{l}^2 responses by aberrant SARS-CoV-2 small viral RNAs acting as retinoic acid-inducible gene-I agonists. IScience, 2023, 26, 105742. | 4.1 | 4 |
| 241 | Characterization of Three Variants of SARS-CoV-2 In Vivo Shows Host-Dependent Pathogenicity in Hamsters, While Not in K18-hACE2 Mice. Viruses, 2022, 14, 2584. | 3.3 | 6 |
| 242 | Identification of severe acute respiratory syndrome coronavirus 2 breakthrough infections by anti-nucleocapsid antibody among fully vaccinated non-healthcare workers during the transition from the delta to omicron wave. Frontiers in Medicine, 0, 9, . | 2.6 | 2 |
| 243 | Clinical characteristics of patients infected with novel coronavirus wild strain, Delta variant strain and Omicron variant strain in Quanzhou: A real†world study. Experimental and Therapeutic Medicine, 2022, 25, . | 1.8 | 9 |
| 246 | Omicronâ€specific mRNA vaccine induced crossâ€protective immunity against ancestral SARS oVâ€2 infection with low neutralizing antibodies. Journal of Medical Virology, 2023, 95, . | 5.0 | 7 |
| 248 | Trends in Cases, Hospitalizations, and Mortality Related to the Omicron BA.4/BA.5 Subvariants in South Africa. Clinical Infectious Diseases, 2023, 76, 1468-1475. | 5.8 | 15 |
| 249 | Broadly neutralizing and protective nanobodies against SARS-CoV-2 Omicron subvariants BA.1, BA.2, and BA.4/5 and diverse sarbecoviruses. Nature Communications, 2022, 13, . | 12.8 | 17 |
| 250 | Reduced airborne transmission of SARS-CoV-2 BA.1 Omicron virus in Syrian hamsters. PLoS Pathogens, 2022, 18, e1010970. | 4.7 | 13 |
| 251 | Rational identification of potent and broad sarbecovirus-neutralizing antibody cocktails from SARS convalescents. Cell Reports, 2022, 41, 111845. | 6.4 | 46 |
| 252 | Immune response and protective efficacy of the SARS-CoV-2 recombinant spike protein vaccine S-268019-b in mice. Scientific Reports, 2022, 12, . | 3.3 | 2 |
| 254 | The humoral and cellular immune evasion of SARS-CoV-2 Omicron and sub-lineages. Virologica Sinica, 2022, 37, 786-795. | 3.0 | 12 |
| 255 | Animal Models to Test SARS-CoV-2 Vaccines: Which Ones Are in Use and Future Expectations. Pathogens, 2023, 12, 20. | 2.8 | 4 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 257 | A bispecific nanobody dimer broadly neutralizes SARS-CoV-1 & amp; 2 variants of concern and offers substantial protection against Omicron via low-dose intranasal administration. Cell Discovery, 2022, 8, . | 6.7 | 12 |
| 258 | Fatal cases after Omicron BA.1 and BA.2 infection: Results of an autopsy study. International Journal of Infectious Diseases, 2023, 128, 51-57. | 3.3 | 2 |
| 259 | Impact of Reinfection with SARS-CoV-2 Omicron Variants in Previously Infected Hamsters. Journal of Virology, 0, , . | 3.4 | 4 |
| 260 | Determinants and Mechanisms of the Low Fusogenicity and High Dependence on Endosomal Entry of Omicron Subvariants. MBio, 2023, 14, . | 4.1 | 14 |
| 261 | A Detailed Overview of SARS-CoV-2 Omicron: Its Sub-Variants, Mutations and Pathophysiology, Clinical Characteristics, Immunological Landscape, Immune Escape, and Therapies. Viruses, 2023, 15, 167. | 3.3 | 87 |
| 263 | Spike and nsp6 are key determinants of SARS-CoV-2 Omicron BA.1 attenuation. Nature, 2023, 615, 143-150. | 27.8 | 52 |
| 268 | A Selective SARS-CoV-2 Host-Directed Antiviral Targeting Stress Response to Reactive Oxygen Species. ACS Central Science, 0, , . | 11.3 | 1 |
| 270 | Analysis of SARS-CoV-2 Cases, COVID-19 Outcomes and Vaccinations, during the Different SARS-CoV-2 Variants in Greece. Vaccines, 2023, 11, 126. | 4.4 | 2 |
| 271 | A Heterologous Challenge Rescues the Attenuated Immunogenicity of SARS-CoV-2 Omicron BA.1 Variant in Syrian Hamster Model. Journal of Virology, 0, , . | 3.4 | 2 |
| 272 | SARS-CoV-2 variants induce distinct disease and impact in the bone marrow and thymus of mice. IScience, 2023, 26, 105972. | 4.1 | 3 |
| 273 | SARS-CoV-2 variant biology: immune escape, transmission and fitness. Nature Reviews Microbiology, 0, , | 28.6 | 160 |
| 274 | Effect of nasal irrigation in adults infected with Omicron variant of COVID-19: A quasi-experimental study. Frontiers in Public Health, 0, 10 , . | 2.7 | 3 |
| 275 | Full protection from SARS-CoV-2 brain infection and damage in susceptible transgenic mice conferred by MVA-CoV2-S vaccine candidate. Nature Neuroscience, 2023, 26, 226-238. | 14.8 | 14 |
| 276 | The Fc-effector function of COVID-19 convalescent plasma contributes to SARS-CoV-2 treatment efficacy in mice. Cell Reports Medicine, 2023, 4, 100893. | 6.5 | 16 |
| 277 | Potential of green tea EGCG in neutralizing SARS-CoV-2 Omicron variant with greater tropism toward the upper respiratory tract. Trends in Food Science and Technology, 2023, 132, 40-53. | 15.1 | 12 |
| 279 | A C57BL/6 Mouse Model of SARS-CoV-2 Infection Recapitulates Age- and Sex-Based Differences in Human COVID-19 Disease and Recovery. Vaccines, 2023, 11, 47. | 4.4 | 6 |
| 280 | The Cold-Adapted, Temperature-Sensitive SARS-CoV-2 Strain TS11 Is Attenuated in Syrian Hamsters and a Candidate Attenuated Vaccine. Viruses, 2023, 15, 95. | 3.3 | 8 |
| 281 | Animal models and SARS-CoV-2-induced pulmonary and neurological injuries. Memorias Do Instituto Oswaldo Cruz, 0, 117, . | 1.6 | 0 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 282 | Altered host protease determinants for SARS-CoV-2 Omicron. Science Advances, 2023, 9, . | 10.3 | 12 |
| 283 | Transcriptomic approaches in COVID-19: From infection to vaccines. , 2023, , 125-144. | | 0 |
| 284 | SARS-CoV-2 and its impact on the cardiovascular and digestive systems – The interplay between new virus variants and human cells. Computational and Structural Biotechnology Journal, 2023, 21, 1022-1029. | 4.1 | 2 |
| 286 | SARS-CoV-2 Omicron (B.1.1.529) Variant: A Challenge with COVID-19. Diagnostics, 2023, 13, 559. | 2.6 | 12 |
| 287 | Comparative Binding Ability of Human Monoclonal Antibodies against Omicron Variants of SARS-CoV-2: An In Silico Investigation. Antibodies, 2023, 12, 17. | 2.5 | 6 |
| 288 | SARS-CoV-2 Exposure in Norway Rats (Rattus norvegicus) from New York City. MBio, 2023, 14, . | 4.1 | 12 |
| 289 | Syrian hamster convalescence from prototype SARS-CoV-2 confers measurable protection against the attenuated disease caused by the Omicron variant. PLoS Pathogens, 2023, 19, e1011293. | 4.7 | 7 |
| 290 | Longitudinal analyses using 18F-Fluorodeoxyglucose positron emission tomography with computed tomography as a measure of COVID-19 severity in the aged, young, and humanized ACE2 SARS-CoV-2 hamster models. Antiviral Research, 2023, , 105605. | 4.1 | 0 |
| 291 | In SARS-CoV-2 delta variants, Spike-P681R and D950N promote membrane fusion, Spike-P681R enhances spike cleavage, but neither substitution affects pathogenicity in hamsters. EBioMedicine, 2023, 91, 104561. | 6.1 | 14 |
| 292 | A new generation Mpro inhibitor with potent activity against SARS-CoV-2 Omicron variants. Signal Transduction and Targeted Therapy, 2023, 8, . | 17.1 | 20 |
| 294 | Prophylaxis and treatment of SARS-CoV-2 infection by an ACE2 receptor decoy in a preclinical animal model. IScience, 2023, 26, 106092. | 4.1 | 5 |
| 295 | Development of a novel mathematical model that explains SARS-CoV-2 infection dynamics in Caco-2 cells. PeerJ, 0, 11, e14828. | 2.0 | 2 |
| 296 | Chronological changes of viral shedding in adult inpatients with Omicron infection in Shanghai, China. Frontiers in Immunology, 0, 14, . | 4.8 | 2 |
| 297 | Angiotensin-converting enzyme 2—at the heart of the COVID-19 pandemic. Cell, 2023, 186, 906-922. | 28.9 | 36 |
| 298 | Cell-autonomous requirement for ACE2 across organs in lethal mouse SARS-CoV-2 infection. PLoS Biology, 2023, 21, e3001989. | 5.6 | 6 |
| 299 | Characterisation of SARS-CoV-2 variants in Beijing during 2022: an epidemiological and phylogenetic analysis. Lancet, The, 2023, 401, 664-672. | 13.7 | 84 |
| 301 | Animal Models, Zoonotic Reservoirs, and Cross-Species Transmission of Emerging Human-Infecting Coronaviruses. Annual Review of Animal Biosciences, 2023, 11, 1-31. | 7.4 | 8 |
| 302 | Origin and evolution of SARS-CoV-2. European Physical Journal Plus, 2023, 138, . | 2.6 | 16 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 303 | Comparison of clinical characteristics and outcomes of critically ill adults with SARS-CoV-2 infection during Delta and Omicron variant predominance periods: a single-hospital retrospective cohort study. BMJ Open Respiratory Research, 2023, 10, e001274. | 3.0 | 1 |
| 304 | SARS-CoV-2 S Glycoprotein Stabilization Strategies. Viruses, 2023, 15, 558. | 3.3 | 1 |
| 305 | Sustained Low Incidence of Severe and Fatal COVID-19 Following Widespread Infection Induced Immunity after the Omicron (BA.1) Dominant in Gauteng, South Africa: An Observational Study. Viruses, 2023, 15, 597. | 3.3 | 7 |
| 306 | Human ACE2 expression, a major tropism determinant for SARS-CoV-2, is regulated by upstream and intragenic elements. PLoS Pathogens, 2023, 19, e1011168. | 4.7 | 8 |
| 307 | BA.1, BA.2 and BA.2.75 variants show comparable replication kinetics, reduced impact on epithelial barrier and elicit cross-neutralizing antibodies. PLoS Pathogens, 2023, 19, e1011196. | 4.7 | 6 |
| 308 | COVID-19 mRNA vaccine protects against SARS-CoV-2 Omicron BA.1 infection in diet-induced obese mice through boosting host innate antiviral responses. EBioMedicine, 2023, 89, 104485. | 6.1 | 4 |
| 309 | SARS-CoV-2 Spike-Mediated Entry and Its Regulation by Host Innate Immunity. Viruses, 2023, 15, 639. | 3.3 | 1 |
| 310 | SARSâ€CoVâ€2â€related bat virus behavior in humanâ€relevant models sheds light on the origin of COVIDâ€19. EMBO Reports, 2023, 24, . | 4.5 | 4 |
| 311 | Prophylactic intranasal administration of lipid nanoparticle formulated siRNAs reduce SARS-CoV-2 and RSV lung infection. Journal of Microbiology, Immunology and Infection, 2023, 56, 516-525. | 3.1 | 3 |
| 312 | In Silico Binding of 2-Aminocyclobutanones to SARS-CoV-2 Nsp13 Helicase and Demonstration of Antiviral Activity. International Journal of Molecular Sciences, 2023, 24, 5120. | 4.1 | 2 |
| 313 | A pan-variant mRNA-LNP T cell vaccine protects HLA transgenic mice from mortality after infection with SARS-CoV-2 Beta. Frontiers in Immunology, 0, 14, . | 4.8 | 4 |
| 314 | Clinical outcomes of the severe acute respiratory syndrome coronavirus 2 Omicron and Delta variant: systematic review and meta-analysis of 33 studies covering 6Â037Â144 coronavirus disease 2019–positive patients. Clinical Microbiology and Infection, 2023, 29, 835-844. | 6.0 | 29 |
| 315 | SARS-CoV-2 Omicron (B.1.1.529) shows minimal neurotropism in a double-humanized mouse model. Antiviral Research, 2023, 212, 105580. | 4.1 | 2 |
| 316 | Nirmatrelvir treatment of SARSâ€CoVâ€2â€infected mice blunts antiviral adaptive immune responses. EMBO Molecular Medicine, 2023, 15, . | 6.9 | 8 |
| 317 | Characterization of SARS-CoV-2 Omicron BA.2.75 clinical isolates. Nature Communications, 2023, 14, . | 12.8 | 11 |
| 318 | Booster vaccination with Ad26.COV2.S or an Omicron-adapted vaccine in pre-immune hamsters protects against Omicron BA.2. Npj Vaccines, 2023, 8, . | 6.0 | 1 |
| 319 | Vaccine effectiveness against severe COVID-19 during the Omicron wave in Germany: results from the COViK study. Infection, 2023, 51, 1093-1102. | 4.7 | 3 |
| 320 | Protection from SARS-CoV-2 Variants by MVAs expressing matched or mismatched S administered intranasally to mice. Npj Vaccines, 2023, 8, . | 6.0 | 1 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 321 | Emergence and antibody evasion of BQ, BA.2.75 and SARS-CoV-2 recombinant sub-lineages in the face of maturing antibody breadth at the population level. EBioMedicine, 2023, 90, 104545. | 6.1 | 17 |
| 322 | SARS-CoV-2 Variants Show Different Host Cell Proteome Profiles With Delayed Immune Response Activation in Omicron-Infected Cells. Molecular and Cellular Proteomics, 2023, 22, 100537. | 3.8 | 2 |
| 324 | Fc-l ³ R-dependent antibody effector functions are required for vaccine-mediated protection against antigen-shifted variants of SARS-CoV-2. Nature Microbiology, 2023, 8, 569-580. | 13.3 | 33 |
| 325 | Evolution of Immune Evasion and Host Range Expansion by the SARS-CoV-2 B.1.1.529 (Omicron) Variant. MBio, 2023, 14, . | 4.1 | 9 |
| 326 | Murine Coronavirus Disease 2019 Lethality Is Characterized by Lymphoid Depletion Associated with Suppressed Antigen-Presenting Cell Functionality. American Journal of Pathology, 2023, 193, 866-882. | 3.8 | 2 |
| 327 | Cryo-EM structures and binding of mouse and human ACE2 to SARS-CoV-2 variants of concern indicate that mutations enabling immune escape could expand host range. PLoS Pathogens, 2023, 19, e1011206. | 4.7 | 8 |
| 328 | SARS-CoV-2 Variant Pathogenesis Following Primary Infection and Reinfection in Syrian Hamsters. MBio, $0, , .$ | 4.1 | 4 |
| 329 | Effectiveness of inactivated COVID-19 vaccines among older adults in Shanghai: retrospective cohort study. Nature Communications, 2023, 14, . | 12.8 | 8 |
| 330 | <i>In silico</i> analysis of <i>ACE2</i> from different animal species provides new insights into SARS-CoV-2 species spillover. Future Virology, 2023, 18, 359-371. | 1.8 | 1 |
| 331 | Analysis of SARS-CoV-2 variants from patient specimens in Nevada from October 2020 to August 2021. Infection, Genetics and Evolution, 2023, 111, 105434. | 2.3 | 1 |
| 332 | Understanding COVID-19-related myocarditis: pathophysiology, diagnosis, and treatment strategies. Cardiology Plus, 0, Publish Ahead of Print, . | 0.7 | 1 |
| 333 | Associations between SARS-CoV-2 infection and incidence of new chronic condition diagnoses: a systematic review. Emerging Microbes and Infections, 2023, 12, . | 6.5 | 3 |
| 335 | Mice Humanized for MHC and hACE2 with High Permissiveness to SARS-CoV-2 Omicron Replication. Microbes and Infection, 2023, , 105142. | 1.9 | 0 |
| 336 | Virulence Profiles of Wild-Type, P.1 and Delta SARS-CoV-2 Variants in K18-hACE2 Transgenic Mice. Viruses, 2023, 15, 999. | 3.3 | 3 |
| 337 | Trends in Severe Outcomes Among Adult and Pediatric Patients Hospitalized With COVID-19 in the Canadian Nosocomial Infection Surveillance Program, March 2020 to May 2022. JAMA Network Open, 2023, 6, e239050. | 5.9 | 8 |
| 338 | Toward a pan-SARS-CoV-2 vaccine targeting conserved epitopes on spike and non-spike proteins for potent, broad and durable immune responses. PLoS Pathogens, 2023, 19, e1010870. | 4.7 | 11 |
| 339 | Rapid assembly of SARS-CoV-2 genomes reveals attenuation of the Omicron BA.1 variant through NSP6. Nature Communications, 2023, 14, . | 12.8 | 15 |
| 340 | Virological characteristics of the SARS-CoV-2 XBB variant derived from recombination of two Omicron subvariants. Nature Communications, 2023, 14, . | 12.8 | 116 |

| # | Article | IF | Citations |
|-----|---|------|-----------|
| 341 | Omicron variant evolution on vaccines and monoclonal antibodies. Inflammopharmacology, 2023, 31, 1779-1788. | 3.9 | 9 |
| 345 | A computationally designed ACE2 decoy has broad efficacy against SARS-CoV-2 omicron variants and related viruses in vitro and in vivo. Communications Biology, 2023, 6, . | 4.4 | 2 |
| 346 | Accelerating antiviral drug discovery: lessons from COVID-19. Nature Reviews Drug Discovery, 2023, 22, 585-603. | 46.4 | 25 |
| 347 | A neonatal mouse model characterizes transmissibility of SARS-CoV-2 variants and reveals a role for ORF8. Nature Communications, 2023, 14, . | 12.8 | 5 |
| 348 | Vectored immunoprophylaxis and treatment of SARS-CoV-2 infection in a preclinical model. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . | 7.1 | 4 |
| 349 | Host and viral determinants of airborne transmission of SARS-CoV-2 in the Syrian hamster. ELife, 0, 12, . | 6.0 | 0 |
| 351 | Changes within the P681 residue of spike dictate cell fusion and syncytia formation of Delta and Omicron variants of SARS-CoV-2 with no effects on neutralization or infectivity. Heliyon, 2023, 9, e16750. | 3.2 | 1 |
| 352 | Role of Therapeutic Anticoagulation in COVID-19: The Current Situation. Hematology Reports, 2023, 15, 358-369. | 0.8 | 4 |
| 353 | SARSâ€CoVâ€2 Omicron (B.1.1.529) infection in rhesus macaques, hamsters, and BALB/c mice with severe lung histopathological damage. Journal of Medical Virology, 2023, 95, . | 5.0 | 2 |
| 354 | De Novo Human Angiotensin-Converting Enzyme 2 Decoy NL-CVX1 Protects Mice From Severe Disease After Severe Acute Respiratory Syndrome Coronavirus 2 Infection. Journal of Infectious Diseases, 0, , . | 4.0 | 0 |
| 355 | A nanobody recognizes a unique conserved epitope and potently neutralizes SARS-CoV-2 omicron variants. IScience, 2023, 26, 107085. | 4.1 | 3 |
| 356 | VSV-ΔG-Spike Candidate Vaccine Induces Protective Immunity and Protects K18-hACE2 Mice against SARS-CoV-2 Variants. Viruses, 2023, 15, 1364. | 3.3 | 0 |
| 357 | Altered hACE2 binding affinity and S1/S2 cleavage efficiency of SARS-CoV-2 spike protein mutants affect viral cell entry. Virologica Sinica, 2023, 38, 595-605. | 3.0 | 1 |
| 358 | Structural Basis for the Enhanced Infectivity and Immune Evasion of Omicron Subvariants. Viruses, 2023, 15, 1398. | 3.3 | 1 |
| 359 | OVX033, a nucleocapsid-based vaccine candidate, provides broad-spectrum protection against SARS-CoV-2 variants in a hamster challenge model. Frontiers in Immunology, 0, 14, . | 4.8 | 5 |
| 360 | Transmission and re-infection of Omicron variant XBB.1.5 in hamsters. EBioMedicine, 2023, 93, 104677. | 6.1 | 5 |
| 361 | Immunological imprinting of humoral immunity to SARS-CoV-2 in children. Nature Communications, 2023, 14, . | 12.8 | 6 |
| 362 | Infection with Seasonal H1N1 Influenza Results in Comparable Disease Kinetics and Host Immune Responses in Ferrets and Golden Syrian Hamsters. Pathogens, 2023, 12, 668. | 2.8 | 2 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 364 | SARS-CoV-2 Omicron variant causes brain infection with lymphoid depletion in a mouse COVID-19 model. Laboratory Animal Research, 2023, 39, . | 2.5 | 5 |
| 365 | Unravelling Antigenic Cross-Reactions toward the World of Coronaviruses: Extent of the Stability of Shared Epitopes and SARS-CoV-2 Anti-Spike Cross-Neutralizing Antibodies. Pathogens, 2023, 12, 713. | 2.8 | 4 |
| 366 | Antiviral activity of basidial fungus <i>Inonotus obliquus</i> aqueous extract against SARS-CĐ¾V-2 virus (Coronaviridae: Betacoronavirus: Sarbecovirus) in vivo in BALB/c mice model. Voprosy Virusologii, 2023, 68, 152-160. | 0.7 | 0 |
| 367 | SARS-CoV-2 bivalent mRNA vaccine with broad protection against variants of concern. Frontiers in Immunology, 0, 14, . | 4.8 | 1 |
| 370 | The NSP4 T492I mutation increases SARS-CoV-2 infectivity by altering non-structural protein cleavage. Cell Host and Microbe, 2023, 31, 1170-1184.e7. | 11.0 | 7 |
| 373 | An immunostimulatory glycolipid that blocks SARS-CoV-2, RSV, and influenza infections in vivo. Nature Communications, 2023, 14 , . | 12.8 | 5 |
| 374 | Determining the Time of Booster Dose Based on the Half-Life and Neutralization Titers against SARS-CoV-2 Variants of Concern in Fully Vaccinated Individuals. Microbiology Spectrum, 2023, 11, . | 3.0 | 1 |
| 375 | IL-9 aggravates SARS-CoV-2 infection and exacerbates associated airway inflammation. Nature Communications, 2023, 14, . | 12.8 | 8 |
| 376 | Structural and functional characteristics of the SARS-CoV-2 Omicron subvariant BA.2 spike protein. Nature Structural and Molecular Biology, 2023, 30, 980-990. | 8.2 | 9 |
| 377 | ACE2 receptor polymorphism in humans and animals increases the risk of the emergence of SARS-CoV-2 variants during repeated intra- and inter-species host-switching of the virus. Frontiers in Microbiology, $0,14,.$ | 3.5 | 5 |
| 378 | In vitro and in vivo characterization of SARS-CoV-2 resistance to ensitrelvir. Nature Communications, 2023, 14, . | 12.8 | 15 |
| 379 | Immunogenicity and efficacy of vaccine boosters against SARS-CoV-2 Omicron subvariant BA.5 in male Syrian hamsters. Nature Communications, 2023, 14, . | 12.8 | 6 |
| 380 | Differential Characteristics of Patients for Hospitalized Severe COVID-19 Infected by the Omicron Variants and Wild Type of SARS-CoV-2 in China. Journal of Inflammation Research, 0, Volume 16, 3063-3078. | 3.5 | 3 |
| 381 | Potent antibodies against immune invasive SARS-CoV-2 Omicron subvariants. International Journal of Biological Macromolecules, 2023, 249, 125997. | 7.5 | 0 |
| 382 | Neuroinvasion and anosmia are independent phenomena upon infection with SARS-CoV-2 and its variants. Nature Communications, 2023, 14 , . | 12.8 | 15 |
| 384 | SARS-CoV-2 Omicron entry is type II transmembrane serine protease-mediated in human airway and intestinal organoid models. Journal of Virology, 2023, 97, . | 3.4 | 7 |
| 385 | Efficacy, Pharmacokinetics, and Toxicity Profiles of a Broad Anti-SARS-CoV-2 Neutralizing Antibody. Viruses, 2023, 15, 1733. | 3.3 | 0 |
| 386 | Transchromosomic bovine-derived anti-SARS-CoV-2 polyclonal human antibodies protects hACE2 transgenic hamsters against multiple variants. IScience, 2023, 26, 107764. | 4.1 | 2 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 387 | Key Considerations during the Transition from the Acute Phase of the COVID-19 Pandemic: A Narrative Review. Vaccines, 2023, 11, 1502. | 4.4 | 3 |
| 388 | Animal models to study the neurological manifestations of the post-COVID-19 condition. Lab Animal, 2023, 52, 202-210. | 0.4 | 2 |
| 389 | Broad-spectrum vaccine via combined immunization routes triggers potent immunity to SARS-CoV-2 and its variants. Journal of Virology, 2023, 97, . | 3.4 | 1 |
| 390 | Characterization of the SARS-CoV-2 BA.5.5 and BQ.1.1 Omicron variants in mice and hamsters. Journal of Virology, 2023, 97, . | 3.4 | 2 |
| 391 | SARS-CoV-2 nonstructural protein 6 from Alpha to Omicron: evolution of a transmembrane protein. MBio, 0 , , . | 4.1 | 1 |
| 392 | Initial immune response after exposure to Mycobacterium tuberculosis or to SARS-COV-2: similarities and differences. Frontiers in Immunology, 0, 14 , . | 4.8 | 4 |
| 393 | Multi-omics analysis of attenuated variant reveals potential evaluation marker of host damaging for SARS-CoV-2 variants. Science China Life Sciences, 0, , . | 4.9 | 0 |
| 394 | SuPAR mediates viral response proteinuria by rapidly changing podocyte function. Nature Communications, 2023, 14, . | 12.8 | 1 |
| 396 | Omicron sub-lineage BA.5 infection results in attenuated pathology in hACE2 transgenic mice. Communications Biology, 2023, 6, . | 4.4 | 2 |
| 397 | The Influence of the Omicron Variant on RNA Extraction and RT-qPCR Detection of SARS-CoV-2 in a Laboratory in Brazil. Viruses, 2023, 15, 1690. | 3.3 | 0 |
| 398 | Subunit vaccine raised against the SARSâ€CoVâ€2 spike of Delta and Omicron variants. Journal of Medical Virology, 2023, 95, . | 5.0 | 1 |
| 399 | Association of SARS-CoV-2 viral load with abnormal laboratory characteristics and clinical outcomes in hospitalised COVID-19 patients. Epidemiology and Infection, 2023, 151, . | 2.1 | 0 |
| 400 | Report of the Assay Guidance Workshop on 3-Dimensional Tissue Models for Antiviral Drug Development. Journal of Infectious Diseases, 2023, 228, S337-S354. | 4.0 | 0 |
| 401 | Cross-protection and cross-neutralization capacity of ancestral and VOC-matched SARS-CoV-2 adenoviral vector-based vaccines. Npj Vaccines, 2023, 8, . | 6.0 | 0 |
| 402 | Structural basis for receptor binding and broader interspecies receptor recognition of currently circulating Omicron sub-variants. Nature Communications, 2023, 14, . | 12.8 | 8 |
| 403 | A Mosaic Nanoparticle Vaccine Elicits Potent Mucosal Immune Response with Significant Crossâ€Protection Activity against Multiple SARS oVâ€2 Sublineages. Advanced Science, 2023, 10, . | 11.2 | 3 |
| 404 | The viral fitness and intrinsic pathogenicity of dominant SARS-CoV-2 Omicron sublineages BA.1, BA.2, and BA.5. EBioMedicine, 2023, 95, 104753. | 6.1 | 8 |
| 405 | Upper Respiratory Tract OC43 Infection Model for Investigating Airway Immune-modifying Therapies. American Journal of Respiratory Cell and Molecular Biology, 0, , . | 2.9 | 0 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 410 | Domain-based mRNA vaccines encoding spike protein N-terminal and receptor binding domains confer protection against SARS-CoV-2. Science Translational Medicine, 2023, 15, . | 12.4 | 1 |
| 411 | Intranasal mRNA-LNP vaccination protects hamsters from SARS-CoV-2 infection. Science Advances, 2023, 9, . | 10.3 | 6 |
| 412 | Age-dependent acquisition of pathogenicity by SARS-CoV-2 Omicron BA.5. Science Advances, 2023, 9, . | 10.3 | 4 |
| 414 | Ancestral, Delta, and Omicron (BA.1) SARS-CoV-2 strains are dependent on serine proteases for entry throughout the human respiratory tract. Med, 2023, , . | 4.4 | 0 |
| 417 | Humoral and cellular immunity against diverse SARS-CoV-2 variants. Journal of Genetics and Genomics, 2023, 50, 934-947. | 3.9 | 1 |
| 418 | Transgenic mouse models support a protective role of type I IFN response in SARS-CoV-2 infection-related lung immunopathology and neuroinvasion. Cell Reports, 2023, 42, 113275. | 6.4 | 0 |
| 419 | An interferon-integrated mucosal vaccine provides pan-sarbecovirus protection in small animal models. Nature Communications, $2023,14,.$ | 12.8 | 2 |
| 420 | Omicron breakthrough infections in vaccinated or previously infected hamsters. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . | 7.1 | 1 |
| 421 | Phenotyping the virulence of SARS-CoV-2 variants in hamsters by digital pathology and machine learning. PLoS Pathogens, 2023, 19, e1011589. | 4.7 | 3 |
| 422 | From Emergence to Endemicity: A Comprehensive Review of COVID-19. Cureus, 2023, , . | 0.5 | 1 |
| 423 | Intranasal Liposomal Formulation of Spike Protein Adjuvanted with CpG Protects and Boosts Heterologous Immunity of hACE2 Transgenic Mice to SARS-CoV-2 Infection. Vaccines, 2023, 11, 1732. | 4.4 | 0 |
| 424 | Use of a point-of-care test to rapidly assess levels of SARS-CoV-2 nasal neutralising antibodies in vaccinees and breakthrough infected individuals. Scientific Reports, 2023, 13, . | 3.3 | O |
| 425 | Low level of tonic interferon signalling is associated with enhanced susceptibility to SARS-CoV-2 variants of concern in human lung organoids. Emerging Microbes and Infections, 2023, 12, . | 6.5 | 1 |
| 426 | Utility of Bronchoalveolar Lavage for the Diagnosis and Management of COVID-19 in Patients With Cancer. Journal of Infectious Diseases, 2023, 228, 1549-1558. | 4.0 | 0 |
| 427 | Challenges and Prospects in Developing Future SARS-CoV-2 Vaccines: Overcoming Original Antigenic Sin and Inducing Broadly Neutralizing Antibodies. Journal of Immunology, 2023, 211, 1459-1467. | 0.8 | 2 |
| 428 | Evolution of SARS-CoV-2 Spikes shapes their binding affinities to animal ACE2 orthologs. Microbiology Spectrum, 2023, 11, . | 3.0 | 0 |
| 429 | One Health and Engineering: using engineering to further pave the roadmap towards global health security, pandemic preparedness, and personalized medicine. DYNA (Colombia), 2023, 90, 22-28. | 0.4 | 0 |
| 430 | SARS-CoV-2 omicron BA.5 and XBB variants have increased neurotropic potential over BA.1 in K18-hACE2 mice and human brain organoids. Frontiers in Microbiology, 0, 14, . | 3.5 | 1 |

| # | Article | IF | CITATIONS |
|-----|---|------------|-------------|
| 431 | Cleavage-Activation of Respiratory Viruses – Half a Century of History from Sendai Virus to SARS-CoV-2. Japanese Journal of Infectious Diseases, 2024, 77, 1-6. | 1.2 | O |
| 432 | Effectiveness of remdesivir-based therapy for moderate COVID-19: comparison of Omicron and other variant phases. Journal of Chemotherapy, 0 , 0 , 0 , 0 . | 1.5 | 0 |
| 433 | Lack of detection of SARS-CoV-2 in British wildlife 2020–21 and first description of a stoat (Mustela) Tj ETQq0 | 0 0 rgBT / | Overlock 10 |
| 434 | Virological Characteristics of Five SARS-CoV-2 Variants, Including Beta, Delta and Omicron BA.1, BA.2, BA.5. Viruses, 2023, 15, 2394. | 3.3 | О |
| 435 | Growth hormone–releasing hormone receptor antagonist MIA-602 attenuates cardiopulmonary injury induced by BSL-2 rVSV-SARS-CoV-2 in hACE2 mice. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, . | 7.1 | 0 |
| 436 | Inactivated whole virion vaccine protects K18â€hACE2 Tg mice against the Omicron SARSâ€CoVâ€2 variant via crossâ€reactive T cells and nonneutralizing antibody responses. European Journal of Immunology, 0, , . | 2.9 | 0 |
| 437 | Prevalência de Influenza A, vÃrus sincicial respiratório e SARS-COV-2 em pacientes com sÃndrome respiratória aguda grave em Passo Fundo - RS. Semina: Ciências Biológicas E Da Saúde, 2023, 44, 113-126. | 0.2 | 0 |
| 438 | Characterization of a SARS-CoV-2 EG.5.1 clinical isolate inÂvitro and inÂvivo. Cell Reports, 2023, 42, 113580. | 6.4 | 4 |
| 439 | Divergent trajectory of replication and intrinsic pathogenicity of SARS-CoV-2 Omicron post-BA.2/5 subvariants in the upper and lower respiratory tract. EBioMedicine, 2024, 99, 104916. | 6.1 | 1 |
| 440 | Mosaic RBD Nanoparticles Elicit Protective Immunity Against Multiple Human Coronaviruses in Animal Models. Advanced Science, 2024, 11, . | 11.2 | 2 |
| 441 | Changing character and waning impact of COVID-19 at a tertiary centre in Cape Town, South Africa. Southern African Journal of Infectious Diseases, 2023, 38, . | 0.5 | 0 |
| 442 | Efficacy and safety of glucocorticoids use in patients with COVID-19: a systematic review and network metaâ€'analysis. BMC Infectious Diseases, 2023, 23, . | 2.9 | 0 |
| 444 | Immune response and severity of Omicron BA.5 reinfection among individuals previously infected with different SARS-CoV-2 variants. Frontiers in Cellular and Infection Microbiology, 0, 13, . | 3.9 | 1 |
| 445 | Differential Outcomes of Infection by Wild-Type SARS-CoV-2 and the B.1.617.2 and B.1.1.529 Variants of Concern in K18-hACE2 Transgenic Mice. Viruses, 2024, 16, 60. | 3.3 | 0 |
| 446 | Combination therapy with oral antiviral and anti-inflammatory drugs improves the efficacy of delayed treatment in a COVID-19 hamster model. EBioMedicine, 2024, 99, 104950. | 6.1 | 0 |
| 447 | Surface-modified measles vaccines encoding oligomeric, prefusion-stabilized SARS-CoV-2 spike glycoproteins boost neutralizing antibody responses to Omicron and historical variants, independent of measles seropositivity. MBio, 2024, 15, . | 4.1 | 1 |
| 448 | SARS-CoV-2 immunity in animal models. , 2024, 21, 119-133. | | 1 |
| 449 | The Abundant Distribution and Duplication of SARS-CoV-2 in the Cerebrum and Lungs Promote a High Mortality Rate in Transgenic hACE2-C57 Mice. International Journal of Molecular Sciences, 2024, 25, 997. | 4.1 | 1 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 450 | SARS-CoV-2 BA.2.86 enters lung cells and evades neutralizing antibodies with high efficiency. Cell, 2024, 187, 596-608.e17. | 28.9 | 9 |
| 451 | Chronic Lung Injury after COVID-19 Pneumonia: Clinical, Radiologic, and Histopathologic Perspectives. Radiology, 2024, 310, . | 7.3 | 0 |
| 452 | Augmentation of Omicron BA.1 pathogenicity in hamsters using intratracheal inoculation. , 2024, 2, . | | 0 |
| 453 | ACE2 and TMPRSS2 distribution in the respiratory tract of different animal species and its correlation with SARS-CoV-2 tissue tropism. Microbiology Spectrum, 2024, 12, . | 3.0 | 0 |
| 454 | Nanoparticle-based DNA vaccine protects against SARS-CoV-2 variants in female preclinical models. Nature Communications, 2024, 15 , . | 12.8 | 1 |
| 455 | An intranasally delivered ultra-conserved siRNA prophylactically represses SARS-CoV-2 infection in the lung and nasal cavity Antiviral Research, 2024, 222, 105815. | 4.1 | 0 |
| 456 | Divergent pathogenetic outcomes in BALB/c mice following Omicron subvariant infection. Virus Research, 2024, 341, 199319. | 2.2 | 0 |
| 457 | Cross-protection induced by highly conserved human B, CD4+, and CD8+ T-cell epitopes-based vaccine against severe infection, disease, and death caused by multiple SARS-CoV-2 variants of concern. Frontiers in Immunology, 0, 15, . | 4.8 | 0 |
| 458 | Causes and Consequences of Coronavirus Spike Protein Variability. Viruses, 2024, 16, 177. | 3.3 | 0 |
| 459 | Omicron Spike confers enhanced infectivity and interferon resistance to SARS-CoV-2 in human nasal tissue. Nature Communications, 2024, 15, . | 12.8 | 0 |
| 460 | Bioluminescence imaging reveals enhanced SARS-CoV-2 clearance in mice with combinatorial regimens. IScience, 2024, 27, 109049. | 4.1 | 0 |
| 461 | Lack of detection of SARS-CoV-2 in wildlife from Kerala, India in 2020–21. Access Microbiology, 2024, 6, | 0.5 | 0 |
| 462 | Prototype and BA.5 protein nanoparticle vaccines protect against Omicron BA.5 variant in Syrian hamsters. Journal of Virology, 2024, 98, . | 3.4 | 0 |
| 463 | Mucosal vaccine-induced cross-reactive CD8+ T cells protect against SARS-CoV-2 XBB.1.5 respiratory tract infection. Nature Immunology, 2024, 25, 537-551. | 14.5 | 0 |
| 464 | Identification of SARS-CoV-2 in urban rodents from Southern Mexico City at the beginning of the COVID-19 pandemic. Revista Do Instituto De Medicina Tropical De Sao Paulo, 0, 66, . | 1.1 | 0 |
| 465 | A monoclonal antibody targeting a large surface of the receptor binding motif shows pan-neutralizing SARS-CoV-2 activity. Nature Communications, 2024, 15, . | 12.8 | 0 |
| 466 | Pathogenesis and virulence of coronavirus disease: Comparative pathology of animal models for COVID-19. Virulence, 2024, 15, . | 4.4 | 0 |
| 467 | A Novel Rat Model to Simulate the Benign Esophageal Stricture Induced by Endoscopic Submucosal Dissection. Clinical and Experimental Gastroenterology, 0, Volume 17, 41-50. | 2.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 469 | Host and viral determinants of airborne transmission of SARS-CoV-2 in the Syrian hamster. ELife, 0, 12, . | 6.0 | O |
| 470 | The SARS-CoV-2 Spike is a virulence determinant and plays a major role on the attenuated phenotype of Omicron virus in a feline model of infection. Journal of Virology, 2024, 98, . | 3.4 | 0 |
| 471 | Comparison of Computed Tomography and Clinical Features Between Patients Infected with the SARSâ€CoVâ€2 Omicron Variant and the Original Strain. Infection and Drug Resistance, 0, Volume 17, 807-818. | 2.7 | 0 |
| 473 | Structure-based design of pan-coronavirus inhibitors targeting host cathepsin L and calpain-1. Signal Transduction and Targeted Therapy, 2024, 9, . | 17.1 | 0 |
| 474 | Characterization of Omicron BA.4.6, XBB, and BQ.1.1 subvariants in hamsters. Communications Biology, 2024, 7 , . | 4.4 | 0 |
| 475 | Socioeconomic inequalities in healthcare system efficiency in Japan during COVID-19 pandemic: an analysis of the moderating role of vaccination. Frontiers in Public Health, 0, 12, . | 2.7 | 0 |