Sixteen novel lineages of SARS-CoV-2 in South Africa

Nature Medicine 27, 440-446 DOI: 10.1038/s41591-021-01255-3

Citation Report

#	Article	IF	CITATIONS
1	Binding affinity and mechanisms of SARS-CoV-2 variants. Computational and Structural Biotechnology Journal, 2021, 19, 4184-4191.	1.9	20
2	Experience With Pretravel Testing for SARS-CoV-2 at an Academic Medical Center. Academic Pathology, 2021, 8, 23742895211010247.	0.7	3
3	Germline IGHV3-53-encoded RBD-targeting neutralizing antibodies are commonly present in the antibody repertoires of COVID-19 patients. Emerging Microbes and Infections, 2021, 10, 1097-1111.	3.0	25
9	Scouting the receptor-binding domain of SARSÂcoronavirusÂ2: aÂcomprehensive immunoinformatics inquisition. Future Virology, 2021, 16, 117-132.	0.9	5
11	Towards Quantitative and Standardized Serological and Neutralization Assays for COVID-19. International Journal of Molecular Sciences, 2021, 22, 2723.	1.8	12
12	COVIDâ€19: emergence and mutational diversification of SARSâ€CoVâ€2. Microbial Biotechnology, 2021, 14, 756-768.	2.0	17
16	Detection of a SARS-CoV-2 variant of concern in South Africa. Nature, 2021, 592, 438-443.	13.7	1,381
17	Nucleosideâ€modified messenger RNA COVIDâ€19 vaccine platform. Journal of Medical Virology, 2021, 93, 4054-4057.	2.5	23
20	Neutralizing Monoclonal Anti-SARS-CoV-2 Antibodies Isolated from Immunized Rabbits Define Novel Vulnerable Spike-Protein Epitope. Viruses, 2021, 13, 566.	1.5	23
22	SARS-CoV-2 501Y.V2 escapes neutralization by South African COVID-19 donor plasma. Nature Medicine, 2021, 27, 622-625.	15.2	984
24	Tracking the emergence of new SARS-CoV-2 variants in South Africa. Nature Medicine, 2021, 27, 372-373.	15.2	28
25	Post-exposure prophylaxis against SARS-CoV-2 in close contacts of confirmed COVID-19 cases (CORIPREV): study protocol for a cluster-randomized trial. Trials, 2021, 22, 224.	0.7	8
27	SARS-CoV-2 Entry Related Viral and Host Genetic Variations: Implications on COVID-19 Severity, Immune Escape, and Infectivity. International Journal of Molecular Sciences, 2021, 22, 3060.	1.8	32
30	SARS-CoV-2 can recruit a heme metabolite to evade antibody immunity. Science Advances, 2021, 7, .	4.7	107
31	Fast Prediction of Binding Affinities of the SARS-CoV-2 Spike Protein Mutant N501Y (UK Variant) with ACE2 and Miniprotein Drug Candidates. Journal of Physical Chemistry B, 2021, 125, 4330-4336.	1.2	30
34	Prospects for durable immune control of SARS-CoV-2 and prevention of reinfection. Nature Reviews Immunology, 2021, 21, 395-404.	10.6	223
36	A real-time and high-throughput neutralization test based on SARS-CoV-2 pseudovirus containing monomeric infrared fluorescent protein as reporter. Emerging Microbes and Infections, 2021, 10, 894-904.	3.0	16
38	Africa needs more genome sequencing to tackle new variants of SARS-CoV-2. Nature Medicine, 2021, 27, 744-745.	15.2	18

#	Article	IF	CITATIONS
41	Genetic Diversity of SARS-CoV-2 over a One-Year Period of the COVID-19 Pandemic: A Global Perspective. Biomedicines, 2021, 9, 412.	1.4	22
43	A Structural Landscape of Neutralizing Antibodies Against SARS-CoV-2 Receptor Binding Domain. Frontiers in Immunology, 2021, 12, 647934.	2.2	52
44	Evidence of escape of SARS-CoV-2 variant B.1.351 from natural and vaccine-induced sera. Cell, 2021, 184, 2348-2361.e6.	13.5	936
45	Multiple SARS-CoV-2 variants escape neutralization by vaccine-induced humoral immunity. Cell, 2021, 184, 2372-2383.e9.	13.5	1,166
48	SARS-CoV-2 spike variants exhibit differential infectivity and neutralization resistance to convalescent or post-vaccination sera. Cell Host and Microbe, 2021, 29, 522-528.e2.	5.1	173
50	Comparative Perturbation-Based Modeling of the SARS-CoV-2 Spike Protein Binding with Host Receptor and Neutralizing Antibodies: Structurally Adaptable Allosteric Communication Hotspots Define Spike Sites Targeted by Global Circulating Mutations. Biochemistry, 2021, 60, 1459-1484.	1.2	62
53	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. Nature, 2021, 594, 553-559.	13.7	199
54	A Reliable Indirect ELISA Protocol for Detection of Human Antibodies Directed to SARS-CoV-2 NP Protein. Diagnostics, 2021, 11, 825.	1.3	10
55	A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection. Cell Host and Microbe, 2021, 29, 806-818.e6.	5.1	49
58	Insights into SARS-CoV-2 Persistence and Its Relevance. Viruses, 2021, 13, 1025.	1.5	37
61	Importation, circulation, and emergence of variants of SARS-CoV-2 in the South Indian state of Karnataka. Wellcome Open Research, 2021, 6, 110.	0.9	14
62	Betacoronaviruses genome analysis reveals evolution toward specific codons usage: Implications for SARSâ€CoVâ€2 mitigation strategies. Journal of Medical Virology, 2021, 93, 5630-5634.	2.5	2
65	Humoral Immunity against SARS-CoV-2 and the Impact on COVID-19 Pathogenesis. Molecules and Cells, 2021, 44, 392-400.	1.0	22
67	Up State of the SARS-COV-2 Spike Homotrimer Favors an Increased Virulence for New Variants. Frontiers in Medical Technology, 2021, 3, 694347.	1.3	22
68	SARS-CoV-2 Portrayed against HIV: Contrary Viral Strategies in Similar Disguise. Microorganisms, 2021, 9, 1389.	1.6	4
69	An ACE2 Triple Decoy that neutralizes SARS-CoV-2 shows enhanced affinity for virus variants. Scientific Reports, 2021, 11, 12740.	1.6	54
73	CVnCoV and CV2CoV protect human ACE2 transgenic mice from ancestral B BavPat1 and emerging B.1.351 SARS-CoV-2. Nature Communications, 2021, 12, 4048.	5.8	45
74	Structure-function relations of the SARS-CoV-2 spike protein and impact of mutations in the variants of concern. Comptes Rendus - Biologies, 2021, 344, 77-110.	0.1	4

#	Article	IF	CITATIONS
75	The Antigenicity of Epidemic SARS-CoV-2 Variants in the United Kingdom. Frontiers in Immunology, 2021, 12, 687869.	2.2	23
76	A Comprehensive Molecular Epidemiological Analysis of SARS-CoV-2 Infection in Cyprus from April 2020 to January 2021: Evidence of a Highly Polyphyletic and Evolving Epidemic. Viruses, 2021, 13, 1098.	1.5	11
77	Dynamic Profiling of Binding and Allosteric Propensities of the SARS-CoV-2 Spike Protein with Different Classes of Antibodies: Mutational and Perturbation-Based Scanning Reveals the Allosteric Duality of Functionally Adaptable Hotspots. Journal of Chemical Theory and Computation, 2021, 17, 4578-4598.	2.3	39
78	Tackling COVID-19 with neutralizing monoclonal antibodies. Cell, 2021, 184, 3086-3108.	13.5	309
80	Fast-spreading SARS-CoV-2 variants: challenges to and new design strategies of COVID-19 vaccines. Signal Transduction and Targeted Therapy, 2021, 6, 226.	7.1	103
81	Strategic testing approaches for targeted disease monitoring can be used to inform pandemic decision-making. PLoS Biology, 2021, 19, e3001307.	2.6	9
82	Evolution trace of SARSâ€CoVâ€⊋ from January 19 to March 12, 2020, in the United States. Journal of Medical Virology, 2021, 93, 6595-6604.	2.5	1
84	Genomic monitoring unveil the early detection of the SARSâ€CoVâ€2 B.1.351 (beta) variant (20H/501Y.V2) in Brazil. Journal of Medical Virology, 2021, 93, 6782-6787.	2.5	24
86	Antibodies Targeting Two Epitopes in SARS-CoV-2 Neutralize Pseudoviruses with the Spike Proteins from Different Variants. Pathogens, 2021, 10, 869.	1.2	2
87	Epidemiological and clinical presentations of hospitalized COVID-19 patients in Libya: An initial report from Africa. Travel Medicine and Infectious Disease, 2021, 42, 102064.	1.5	7
88	Intranasal plus subcutaneous prime vaccination with a dual antigen COVID-19 vaccine elicits T-cell and antibody responses in mice. Scientific Reports, 2021, 11, 14917.	1.6	23
89	Rates of SARS-CoV-2 transmission and vaccination impact the fate of vaccine-resistant strains. Scientific Reports, 2021, 11, 15729.	1.6	96
90	Has translational genomics come of age in Africa?. Human Molecular Genetics, 2021, 30, R164-R173.	1.4	11
92	Impact of SARS-CoV-2 variants on the total CD4+ and CD8+ TÂcell reactivity in infected or vaccinated individuals. Cell Reports Medicine, 2021, 2, 100355.	3.3	490
93	COVIDâ€19 and the liver: A 2021 update. Liver International, 2021, 41, 1988-1998.	1.9	34
94	Limitation of Screening of Different Variants of SARS-CoV-2 by RT-PCR. Diagnostics, 2021, 11, 1241.	1.3	16
95	Longitudinal and proteome-wide analyses of antibodies in COVID-19 patients reveal features of the humoral immune response to SARS-CoV-2. Journal of Advanced Research, 2022, 37, 209-219.	4.4	6
98	Vaccine breakthrough infection and onward transmission of SARS-CoV-2 Beta (B.1.351) variant, Bavaria, Germany, February to March 2021. Eurosurveillance, 2021, 26, .	3.9	22

#	Article	IF	CITATIONS
99	SARS-CoV-2 reinfection with a virus harboring mutation in the Spike and the Nucleocapsid proteins in Panama. International Journal of Infectious Diseases, 2021, 108, 588-591.	1.5	15
101	Analysis of SARS-CoV-2 variant mutations reveals neutralization escape mechanisms and the ability to use ACE2 receptors from additional species. Immunity, 2021, 54, 1611-1621.e5.	6.6	190
103	A SARS-CoV-2 Nucleocapsid Variant that Affects Antigen Test Performance. Journal of Clinical Virology, 2021, 141, 104900.	1.6	53
104	Epigallocatechin gallate from green tea effectively blocks infection of SARS-CoV-2 and new variants by inhibiting spike binding to ACE2 receptor. Cell and Bioscience, 2021, 11, 168.	2.1	69
105	Tracking the introduction and spread of SARS-CoV-2 in coastal Kenya. Nature Communications, 2021, 12, 4809.	5.8	32
106	One year into the pandemic: Short-term evolution of SARS-CoV-2 and emergence of new lineages. Infection, Cenetics and Evolution, 2021, 92, 104869.	1.0	49
107	Reduced neutralization of SARS-CoV-2 B.1.617 by vaccine and convalescent serum. Cell, 2021, 184, 4220-4236.e13.	13.5	630
108	Active Covid-19 infection and transmission after the first dose of the BNT162b2 mRNA vaccination in Saudi Arabia: A case report. Journal of Infection and Public Health, 2021, 14, 1123-1125.	1.9	7
110	Potent prophylactic and therapeutic efficacy of recombinant human ACE2-Fc against SARS-CoV-2 infection in vivo. Cell Discovery, 2021, 7, 65.	3.1	51
112	S19W, T27W, and N330Y mutations in ACE2 enhance SARS-CoV-2 S-RBD binding toward both wild-type and antibody-resistant viruses and its molecular basis. Signal Transduction and Targeted Therapy, 2021, 6, 343.	7.1	24
114	Application of omics technology to combat the COVIDâ€19 pandemic. MedComm, 2021, 2, 381-401.	3.1	11
115	Genetic drift in the genome of SARS COVâ€2 and its global health concern. Journal of Medical Virology, 2022, 94, 88-98.	2.5	17
116	Virus detection via programmable Type III-A CRISPR-Cas systems. Nature Communications, 2021, 12, 5653.	5.8	40
117	Why are there so few (or so many) circulating coronaviruses?. Trends in Immunology, 2021, 42, 751-763.	2.9	7
118	The importation and establishment of community transmission of SARS-CoV-2 during the first eight weeks of the South African COVID-19 epidemic. EClinicalMedicine, 2021, 39, 101072.	3.2	8
119	Perspectives on administration of COVID-19 vaccine to pregnant and lactating women: a challenge for low- and middle-income countries. AJOG Global Reports, 2021, 1, 100020.	0.4	6
120	Atomistic Simulations and In Silico Mutational Profiling of Protein Stability and Binding in the SARS-CoV-2 Spike Protein Complexes with Nanobodies: Molecular Determinants of Mutational Escape Mechanisms. ACS Omega, 2021, 6, 26354-26371.	1.6	11
121	Humoral and cell-mediated response against SARS-CoV-2 variants elicited by mRNA vaccine BNT162b2 in healthcare workers: a longitudinal observational study. Clinical Microbiology and Infection, 2022, 28, 301.e1-301.e8.	2.8	28

#	Article	IF	CITATIONS
122	Development and Efficacy of Lateral Flow Point-of-Care Testing Devices for Rapid and Mass COVID-19 Diagnosis by the Detections of SARS-CoV-2 Antigen and Anti-SARS-CoV-2 Antibodies. Diagnostics, 2021, 11, 1760.	1.3	28
123	The biological and clinical significance of emerging SARS-CoV-2 variants. Nature Reviews Genetics, 2021, 22, 757-773.	7.7	778
124	Emerging SARS-CoV-2 Variants of Concern (VOCs): An Impending Global Crisis. Biomedicines, 2021, 9, 1303.	1.4	87
125	Memory B cell repertoire for recognition of evolving SARS-CoV-2 spike. Cell, 2021, 184, 4969-4980.e15.	13.5	94
126	Clinical Characterization and Genomic Analysis of Samples from COVID-19 Breakthrough Infections during the Second Wave among the Various States of India. Viruses, 2021, 13, 1782.	1.5	70
127	Towards an integrative view of virus phenotypes. Nature Reviews Microbiology, 2022, 20, 83-94.	13.6	15
128	Recent progress on the mutations of SARS-CoV-2 spike protein and suggestions for prevention and controlling of the pandemic. Infection, Genetics and Evolution, 2021, 93, 104971.	1.0	19
129	Humoral and cellular immunity and the safety of COVID-19 vaccines: a summary of data published by 21 May 2021. International Immunology, 2021, 33, 529-540.	1.8	28
130	Coinfection and Interference Phenomena Are the Results of Multiple Thermodynamic Competitive Interactions. Microorganisms, 2021, 9, 2060.	1.6	23
131	The Role of Spike Protein Mutations in the Infectious Power of SARSâ€COVâ€2 Variants: A Molecular Interaction Perspective. ChemBioChem, 2022, 23, .	1.3	14
132	Mutation hotspots and spatiotemporal distribution of SARS-CoV-2 lineages in Brazil, February 2020-2021. Virus Research, 2021, 304, 198532.	1.1	15
133	SARS-CoV-2 variants of concern are associated with lower RT-PCR amplification cycles between January and March 2021 in France. International Journal of Infectious Diseases, 2021, 113, 12-14.	1.5	13
134	A model of COVID-19 pandemic evolution in African countries. Scientific African, 2021, 14, e00987.	0.7	3
135	Exploiting multi-level parallel metaheuristics and heterogeneous computing to boost phylogenetics. Future Generation Computer Systems, 2022, 127, 208-224.	4.9	2
136	Emergence of the novel SARS-CoV-2 lineage VUI-NP13L and massive spread of P.2 in South Brazil. Emerging Microbes and Infections, 2021, 10, 1431-1440.	3.0	17
137	An update of coronavirus disease 2019 (COVID-19): an essential brief. Modern Medical Laboratory Journal, 2021, 4, 19-38.	0.2	0
138	Intra-host evolution during SARS-CoV-2 prolonged infection. Virus Evolution, 2021, 7, veab078.	2.2	68
139	A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. Science, 2021, 374, 423-431.	6.0	144

#	Article	IF	CITATIONS
141	HIV status alters disease severity and immune cell responses in Beta variant SARS-CoV-2 infection wave. ELife, 2021, 10, .	2.8	28
142	ĐĐ°Đ·Ñ€Đ°Đ±Đ¾Ñ,ĐºĐ° ĐįлаÑ,Ñ,,Đ¾Ñ€Đ¼Ñ‹ ĐƊ»Ñ•ĐįĐ¾Đ»ÑƒÑ‡ĐμĐ½Đ,ѕрĐμĐºĐ¾Đ¼Đ±Đ,Đ½Đ°Đ	0 1∕₫Ñ ŋÐ1⁄2Í	ĺ√ðбе
144	Neutralizing antibody activity in convalescent sera from infection in humans with SARS-CoV-2 and variants of concern. Nature Microbiology, 2021, 6, 1433-1442.	5.9	94
145	Diverse vaccine platforms safeguarding against SARS-CoV-2 and its variants. Expert Review of Vaccines, 2022, 21, 47-67.	2.0	3
147	Uncovering a conserved vulnerability site in SARS oVâ€⊋ by a human antibody. EMBO Molecular Medicine, 2021, 13, e14544.	3.3	17
149	Peptides and peptidomimetics as therapeutic agents for Covidâ€19. Peptide Science, 2022, 114, e24245.	1.0	8
150	Development of a Platform for Producing Recombinant Protein Components of Epitope Vaccines for the Prevention of COVID-19. Biochemistry (Moscow), 2021, 86, 1275-1287.	0.7	3
152	Development of a highly specific and sensitive VHH-based sandwich immunoassay for the detection of the SARS-CoV-2 nucleoprotein. Journal of Biological Chemistry, 2022, 298, 101290.	1.6	16
153	Genomic reconstruction of the SARS-CoV-2 epidemic in England. Nature, 2021, 600, 506-511.	13.7	80
154	Sharing, synthesis and sustainability of data analysis for epidemic preparedness in Europe. Lancet Regional Health - Europe, The, 2021, 9, 100215.	3.0	7
155	Mutations in emerging variant of concern lineages disrupt genomic sequencing of SARS-CoV-2 clinical specimens. International Journal of Infectious Diseases, 2022, 114, 51-54.	1.5	13
156	Within-host evolution of SARS-CoV-2 in an immunosuppressed COVID-19 patient as a source of immune escape variants. Nature Communications, 2021, 12, 6405.	5.8	128
158	Assessment of the COVID-19 epidemiological situation in St. Petersburg. Zhurnal Mikrobiologii Epidemiologii I Immunobiologii, 2021, 98, 497-511.	0.3	14
159	Potent SARS-CoV-2 neutralizing antibodies with protective efficacy against newly emerged mutational variants. Nature Communications, 2021, 12, 6304.	5.8	42
160	Phylogenetic and full-length genome mutation analysis of SARS-CoV-2 in Indonesia prior to COVID-19 vaccination program in 2021. Bulletin of the National Research Centre, 2021, 45, 200.	0.7	8
161	Immune Evasive Effects of SARS-CoV-2 Variants to COVID-19 Emergency Used Vaccines. Frontiers in Immunology, 2021, 12, 771242.	2.2	15
162	Predicted Epitope Abundance Supports Vaccine-Induced Cytotoxic Protection Against SARS-CoV-2 Variants of Concern. Frontiers in Immunology, 2021, 12, 732693.	2.2	5
163	Why are some coronavirus variants more infectious?. Journal of Biosciences, 2021, 46, 1.	0.5	18

#	Article	IF	CITATIONS
164	Cross-Neutralization of Emerging SARS-CoV-2 Variants of Concern by Antibodies Targeting Distinct Epitopes on Spike. MBio, 2021, 12, e0297521.	1.8	24
165	Coronavirus Disease (COVID-19) Control between Drug Repurposing and Vaccination: A Comprehensive Overview. Vaccines, 2021, 9, 1317.	2.1	35
166	SNP and Phylogenetic Characterization of Low Viral Load SARS-CoV-2 Specimens by Target Enrichment. Frontiers in Virology, 2021, 1, .	0.7	6
167	SARS CoV-2 Delta variant exhibits enhanced infectivity and a minor decrease in neutralization sensitivity to convalescent or post-vaccination sera. IScience, 2021, 24, 103467.	1.9	26
169	Investigating Constraints Along the Plant Secretory Pathway to Improve Production of a SARS-CoV-2 Spike Vaccine Candidate. Frontiers in Plant Science, 2021, 12, 798822.	1.7	6
170	Conformational Flexibility and Local Frustration in the Functional States of the SARS-CoV-2 Spike B.1.1.7 and B.1.351 Variants: Mutation-Induced Allosteric Modulation Mechanism of Functional Dynamics and Protein Stability. International Journal of Molecular Sciences, 2022, 23, 1646.	1.8	2
172	SARS-CoV-2 Reverse Zoonoses to Pumas and Lions, South Africa. Viruses, 2022, 14, 120.	1.5	48
173	Computational construction of a glycoprotein multi-epitope subunit vaccine candidate for old and new South-African SARS-CoV-2 virus strains. Informatics in Medicine Unlocked, 2022, 28, 100845.	1.9	8
174	Competitive Endogenous RNA Network Activates Host Immune Response in SARS-CoV-2-, panH1N1 (A/California/07/2009)-, and H7N9 (A/Shanghai/1/2013)-Infected Cells. Cells, 2022, 11, 487.	1.8	5
175	Pan-SARS neutralizing responses after third boost vaccination in non-human primate immunogenicity model. Vaccine, 2022, 40, 1289-1298.	1.7	9
176	Immunology and Technology of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Vaccines. Pharmacological Reviews, 2022, 74, 313-339.	7.1	9
177	Functional evaluation of the P681H mutation on the proteolytic activation of the SARS-CoV-2 variant B.1.1.7 (Alpha) spike. IScience, 2022, 25, 103589.	1.9	134
178	Prolonged Shedding of Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) at High Viral Loads Among Hospitalized Immunocompromised Persons Living With Human Immunodeficiency Virus (HIV), South Africa. Clinical Infectious Diseases, 2022, 75, e144-e156.	2.9	32
179	Detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and its first variants in fourplex real-time quantitative reverse transcription-PCR assays. Microbial Cell, 2022, 9, 1-20.	1.4	3
180	COVID-19: Impact on the HIV and Tuberculosis Response, Service Delivery, and Research in South Africa. Current HIV/AIDS Reports, 2022, 19, 46-53.	1.1	26
181	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. Nature, 0, , .	13.7	61
182	Predicted HLA Class I and Class II Epitopes From Licensed Vaccines Are Largely Conserved in New SARS-CoV-2 Omicron Variant of Concern. Frontiers in Immunology, 2022, 13, 832889.	2.2	3
183	Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. Nature, 2022, 603, 679-686.	13.7	1,210

#	Article	IF	CITATIONS
185	Implication of the emergence of the delta (B.1.617.2) variants on vaccine effectiveness. Infection, 2022, , 1.	2.3	15
186	Multiple expansions of globally uncommon SARS-CoV-2 lineages in Nigeria. Nature Communications, 2022, 13, 688.	5.8	23
187	Importation, circulation, and emergence of variants of SARS-CoV-2 in the South Indian state of Karnataka. Wellcome Open Research, 0, 6, 110.	0.9	4
189	Epidemiology and genetic diversity of SARS-CoV-2 lineages circulating in Africa. IScience, 2022, 25, 103880.	1.9	6
190	A Potent and Protective Human Neutralizing Antibody Against SARS-CoV-2 Variants. Frontiers in Immunology, 2021, 12, 766821.	2.2	15
191	Deep dissection of the antiviral immune profile of patients with COVID-19. Communications Biology, 2021, 4, 1389.	2.0	9
193	Live attenuated virus vaccine protects against SARS-CoV-2 variants of concern B.1.1.7 (Alpha) and B.1.351 (Beta). Science Advances, 2021, 7, eabk0172.	4.7	32
194	Prediction of SARS-CoV-2 Variant Lineages Using the S1-Encoding Region Sequence Obtained by PacBio Single-Molecule Real-Time Sequencing. Viruses, 2021, 13, 2544.	1.5	12
195	Why are some coronavirus variants more infectious?. Journal of Biosciences, 2021, 46, .	0.5	2
196	mRNA vaccine-induced antibodies more effective than natural immunity in neutralizing SARS-CoV-2 and its high affinity variants. Scientific Reports, 2022, 12, 2628.	1.6	34
197	Allosteric Determinants of the SARS-CoV-2 Spike Protein Binding with Nanobodies: Examining Mechanisms of Mutational Escape and Sensitivity of the Omicron Variant. International Journal of Molecular Sciences, 2022, 23, 2172.	1.8	5
198	Drugs Modulating Renin-Angiotensin System in COVID-19 Treatment. Biomedicines, 2022, 10, 502.	1.4	10
199	Structural and Computational Studies of the SARS-CoV-2 Spike Protein Binding Mechanisms with Nanobodies: From Structure and Dynamics to Avidity-Driven Nanobody Engineering. International Journal of Molecular Sciences, 2022, 23, 2928.	1.8	8
200	Clinico-Genomic Analysis Reiterates Mild Symptoms Post-vaccination Breakthrough: Should We Focus on Low-Frequency Mutations?. Frontiers in Microbiology, 2022, 13, 763169.	1.5	3
201	Angiotensin System Autoantibodies Correlate With Routine Prognostic Indicators for COVID-19 Severity. Frontiers in Medicine, 2022, 9, 840662.	1.2	2
202	Geographical prevalence of SARS-CoV-2 variants, August 2020 to July 2021. Scientific Reports, 2022, 12, 4704.	1.6	9
203	Evolution of the SARS-CoV-2 spike protein in the human host. Nature Communications, 2022, 13, 1178.	5.8	44
204	A Novel Soluble ACE2 Protein Provides Lung and Kidney Protection in Mice Susceptible to Lethal SARS-CoV-2 Infection. Journal of the American Society of Nephrology: JASN, 2022, 33, 1293-1307.	3.0	26

#	Article	IF	CITATIONS
207	A New Wave of COVID-19 in 2021 with Unique Genetic Characters - Present Global Scenario and Beholding Onwards. Infectious Disorders - Drug Targets, 2022, 22, .	0.4	4
208	Genomic Epidemiology of Early SARS-CoV-2 Transmission Dynamics, Gujarat, India. Emerging Infectious Diseases, 2022, 28, 751-758.	2.0	4
209	Emergence and phenotypic characterization of the global SARS-CoV-2 C.1.2 lineage. Nature Communications, 2022, 13, 1976.	5.8	27
210	Multi-scale modelling reveals that early super-spreader events are a likely contributor to novel variant predominance. Journal of the Royal Society Interface, 2022, 19, 20210811.	1.5	16
211	Computational Insights Into the Effects of the R190K and N121Q Mutations on the SARS-CoV-2 Spike Complex With Biliverdin. Frontiers in Molecular Biosciences, 2021, 8, 791885.	1.6	4
213	Molecular Evolution of Severe Acute Respiratory Syndrome Coronavirus 2: Hazardous and More Hazardous Strains Behind the Coronavirus Disease 2019 Pandemic and Their Targeting by Drugs and Vaccines. Frontiers in Cellular and Infection Microbiology, 2021, 11, 763687.	1.8	3
215	SARS-CoV-2 Variants: Mutations and Effective Changes. Biotechnology and Bioprocess Engineering, 2021, 26, 859-870.	1.4	12
216	Raman Molecular Fingerprints of SARS oVâ€2 British Variant and the Concept of <i>Raman Barcode</i> . Advanced Science, 2022, 9, e2103287.	5.6	25
218	Earlier In Vitro Viral Production With SARS-CoV-2 Alpha Than With Beta, Gamma, B, or A.27 Variants. Frontiers in Cellular and Infection Microbiology, 2021, 11, 792202.	1.8	1
219	Emergence of a Distinct Picobirnavirus Genotype Circulating in Patients Hospitalized with Acute Respiratory Illness. Viruses, 2021, 13, 2534.	1.5	5
221	Computer Simulations and Network-Based Profiling of Binding and Allosteric Interactions of SARS-CoV-2 Spike Variant Complexes and the Host Receptor: Dissecting the Mechanistic Effects of the Delta and Omicron Mutations. International Journal of Molecular Sciences, 2022, 23, 4376.	1.8	16
222	Computational prediction of the molecular mechanism of statin group of drugs against SARS-CoV-2 pathogenesis. Scientific Reports, 2022, 12, 6241.	1.6	12
223	Potent Antiâ€SARSâ€CoVâ€2 Efficacy of COVIDâ€19 Hyperimmune Globulin from Vaccineâ€Immunized Plasma. Advanced Science, 2022, 9, e2104333.	5.6	8
224	Comparison of SARS-CoV-2 sequencing using the ONT GridION and the Illumina MiSeq. BMC Genomics, 2022, 23, 319.	1.2	19
225	Multiplex Fragment Analysis for Flexible Detection of All SARS-CoV-2 Variants of Concern. Clinical Chemistry, 2022, 68, 1042-1052.	1.5	12
226	Phylogenetic and genome-wide mutational analysis of SARS-CoV-2 strains circulating in Nigeria: no implications for attenuated COVID-19 outcomes. Osong Public Health and Research Perspectives, 2022, 13, 101-113.	0.7	0
229	LY-CoV1404 (bebtelovimab) potently neutralizes SARS-CoV-2 variants. Cell Reports, 2022, 39, 110812.	2.9	287
230	Safety and immunogenicity of the Pfizer/BioNTech SARS-CoV-2 mRNA third booster vaccine dose against the BA.1 and BA.2 Omicron variants. Med, 2022, 3, 406-421.e4.	2.2	17

#	Article	IF	CITATIONS
231	Repeated vaccination and â€~vaccine exhaustion': relevance to the COVID-19 crisis. Expert Review of Vaccines, 2022, 21, 1011-1014.	2.0	14
232	Introduction and transmission of SARS-CoV-2 lineage B.1.1.7, Alpha variant, in Denmark. Genome Medicine, 2022, 14, 47.	3.6	14
233	COVID-19 vaccine development: milestones, lessons and prospects. Signal Transduction and Targeted Therapy, 2022, 7, 146.	7.1	153
234	nSARS-CoV-2 and COVID-19 Pandemic: From Emergence to Vaccination. Dr Sulaiman Al Habib Medical Journal, 0, , 1.	0.3	0
235	Antibody engineering improves neutralization activity against K417 spike mutant SARS-CoV-2 variants. Cell and Bioscience, 2022, 12, 63.	2.1	4
236	Design, immunogenicity, and efficacy of a pan-sarbecovirus dendritic-cell targeting vaccine. EBioMedicine, 2022, 80, 104062.	2.7	10
237	PhyloMissForest: a random forest framework to construct phylogenetic trees with missing data. BMC Genomics, 2022, 23, 377.	1.2	1
238	Recombination in Positive-Strand RNA Viruses. Frontiers in Microbiology, 2022, 13, .	1.5	12
239	Probing structural basis for enhanced binding of SARS oVâ€2 P.1 variant spike protein with the human ACE2 receptor. Journal of Cellular Biochemistry, 2022, 123, 1207-1221.	1.2	3
240	Leveraging South African <scp>HIV</scp> research to define <scp>SARSâ€CoV</scp> â€2 immunity triggered by sequential variants of concern. Immunological Reviews, 2022, 310, 61-75.	2.8	6
241	SARS-CoV-2 transmission, persistence of immunity, and estimates of Omicron's impact in South African population cohorts. Science Translational Medicine, 2022, 14, .	5.8	36
242	Editorial: COVID and Tropical Diseases – Intersection of Policy and Science. Frontiers in Tropical Diseases, 2022, 3, .	0.5	0
244	Withasomniferol C, a new potential SARS-CoV-2 main protease inhibitor from the <i>Withania somnifera</i> plant proposed by <i>in silico</i> approaches. PeerJ, 0, 10, e13374.	0.9	4
246	Transmission networks of SARS-CoV-2 in Coastal Kenya during the first two waves: A retrospective genomic study. ELife, 0, 11, .	2.8	9
248	Systemic Neutralizing Antibodies and Local Immune Responses Are Critical for the Control of SARS-CoV-2. Viruses, 2022, 14, 1262.	1.5	1
249	Evaluation of a commercial SARS-CoV-2 multiplex PCR genotyping assay for variant identification in resource-scarce settings. PLoS ONE, 2022, 17, e0269071.	1.1	11
250	Natural selection plays a significant role in governing the codon usage bias in the novel SARS-CoV-2 variants of concern (VOC). PeerJ, 0, 10, e13562.	0.9	4
251	The Prevalence and Pathophysiology of Chemical Sense Disorder Caused by the Novel Coronavirus. Frontiers in Public Health, 0, 10, .	1.3	6

#	Article	IF	CITATIONS
252	Cellulosic copper nanoparticles and a hydrogen peroxide–based disinfectant trigger rapid inactivation of pseudoviral particles expressing the Spike protein of SARS-CoV-2, SARS-CoV, and MERS-CoV. Metallomics, 2022, 14, .	1.0	2
253	Efficacy and safety of an inactivated whole-virion vaccine against COVID-19, QazCovid-in®, in healthy adults: A multicentre, randomised, single-blind, placebo-controlled phase 3 clinical trial with a 6-month follow-up. EClinicalMedicine, 2022, 50, 101526.	3.2	20
254	Frustration-driven allosteric regulation and signal transmission in the SARS-CoV-2 spike omicron trimer structures: a crosstalk of the omicron mutation sites allosterically regulates tradeoffs of protein stability and conformational adaptability. Physical Chemistry Chemical Physics, 0, , .	1.3	9
255	Contrasting Epidemiology and Population Genetics of COVID-19 Infections Defined by Multilocus Genotypes in SARS-CoV-2 Genomes Sampled Globally. Viruses, 2022, 14, 1434.	1.5	9
256	A Method for Variant Agnostic Detection of SARS-CoV-2, Rapid Monitoring of Circulating Variants, and Early Detection of Emergent Variants Such as Omicron. Journal of Clinical Microbiology, 2022, 60,	1.8	14
257	Dynamics of the interaction between the receptor-binding domain of SARS-CoV-2 Omicron (B.1.1.529) variant and human angiotensin-converting enzyme 2. PeerJ, 0, 10, e13680.	0.9	1
258	Integrating Conformational Dynamics and Perturbation-Based Network Modeling for Mutational Profiling of Binding and Allostery in the SARS-CoV-2 Spike Variant Complexes with Antibodies: Balancing Local and Global Determinants of Mutational Escape Mechanisms. Biomolecules, 2022, 12, 964.	1.8	0
259	Genomic epidemiological models describe pathogen evolution across fitness valleys. Science Advances, 2022, 8, .	4.7	2
260	Potential Opportunities and Challenges of Deploying Next Generation Sequencing and CRISPR-Cas Systems to Support Diagnostics and Surveillance Towards Malaria Control and Elimination in Africa. Frontiers in Cellular and Infection Microbiology, 0, 12, .	1.8	6
262	Unsuppressed HIV infection impairs T cell responses to SARS-CoV-2 infection and abrogates T cell cross-recognition. ELife, 0, 11, .	2.8	12
263	Insight into Genetic Characteristics of Identified SARS-CoV-2 Variants in Egypt from March 2020 to May 2021. Pathogens, 2022, 11, 834.	1.2	9
264	A spatial vaccination strategy to reduce the risk of vaccine-resistant variants. PLoS Computational Biology, 2022, 18, e1010391.	1.5	8
265	Viral Dynamic Surveillance in COVID-19 Patients: A Cohort Study. BioMed Research International, 2022, 2022, 1-10.	0.9	0
266	Genomic Surveillance of SARS-CoV-2 in the Southern Province of Zambia: Detection and Characterization of Alpha, Beta, Delta, and Omicron Variants of Concern. Viruses, 2022, 14, 1865.	1.5	1
267	VGsim: Scalable viral genealogy simulator for global pandemic. PLoS Computational Biology, 2022, 18, e1010409.	1.5	5
268	Genomic epidemiology of the SARS-CoV-2 epidemic in Brazil. Nature Microbiology, 2022, 7, 1490-1500.	5.9	49
269	Targeted escape of SARS-CoV-2 in vitro from monoclonal antibody S309, the precursor of sotrovimab. Frontiers in Immunology, 0, 13, .	2.2	10
270	Regional connectivity drove bidirectional transmission of SARS-CoV-2 in the Middle East during travel restrictions. Nature Communications, 2022, 13, .	5.8	5

#	Article	IF	CITATIONS
271	Most frequently harboured missense variants of hACE2 across different populations exhibit varying patterns of binding interaction with spike glycoproteins of emerging SARS-CoV-2 of different lineages. Computers in Biology and Medicine, 2022, 148, 105903.	3.9	5
272	Structural basis of a two-antibody cocktail exhibiting highly potent and broadly neutralizing activities against SARS-CoV-2 variants including diverse Omicron sublineages. Cell Discovery, 2022, 8, .	3.1	13
273	Strain Variation Based on Spike Glycoprotein Gene of SARS-CoV-2 in Kuwait from 2020 to 2021. Pathogens, 2022, 11, 985.	1.2	0
274	Assessing the Impact of SARS-CoV-2 Lineages and Mutations on Patient Survival. Viruses, 2022, 14, 1893.	1.5	3
277	Relative Hypercoagulopathy of the SARS-CoV-2 Beta and Delta Variants when Compared to the Less Severe Omicron Variants Is Related to TEG Parameters, the Extent of Fibrin Amyloid Microclots, and the Severity of Clinical Illness. Seminars in Thrombosis and Hemostasis, 2022, 48, 858-868.	1.5	26
278	Community mitigation strategies, mobility, and COVID-19 incidence across three waves in the United States in 2020. Epidemiology, 0, Publish Ahead of Print, .	1.2	4
279	Characterization and immunogenicity of SARS-CoV-2 spike proteins with varied glycosylation. Vaccine, 2022, , .	1.7	3
281	Multiple introduced lineages and the single native lineage co-driving the four waves of the COVID-19 pandemic in West Africa. Frontiers in Public Health, 0, 10, .	1.3	4
282	SARS-CoV-2 variants from COVID-19 positive cases in the Free State province, South Africa from July 2020 to December 2021. Frontiers in Virology, 0, 2, .	0.7	2
283	The evolving SARS-CoV-2 epidemic in Africa: Insights from rapidly expanding genomic surveillance. Science, 2022, 378, .	6.0	64
284	Booster dose of mRNA vaccine augments waning T cell and antibody responses against SARS-CoV-2. Frontiers in Immunology, 0, 13, .	2.2	16
286	Neutralizing antibodies from the rare convalescent donors elicited antibody-dependent enhancement of SARS-CoV-2 variants infection. Frontiers in Medicine, 0, 9, .	1.2	5
287	An Overview of Repurposed Drugs for Potential COVID-19 Treatment. Antibiotics, 2022, 11, 1678.	1.5	3
288	In silico analysis of SARS-CoV-2 genomes: Insights from SARS encoded non-coding RNAs. Frontiers in Cellular and Infection Microbiology, 0, 12, .	1.8	2
289	In-depth analysis of T cell immunity and antibody responses in heterologous prime-boost-boost vaccine regimens against SARS-CoV-2 and Omicron variant. Frontiers in Immunology, 0, 13, .	2.2	3
290	Pharmacoinformatic approach to identify potential phytochemicals against SARS-CoV-2 spike receptor-binding domain in native and variants of concern. Molecular Diversity, 0, , .	2.1	0
291	Prevalence of SARS-CoV-2 and co-infection with malaria during the first wave of the pandemic (the) Tj ETQq0 0 0	rgBT /Ove 1.3	rlock 10 Tf 5

293	Mutational analysis of the spike protein of SARS-COV-2 isolates revealed atomistic features responsible for higher binding and infectivity. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	1	
-----	---	-----	---	--

#	Article	IF	Citations
294	Unveiling mutation effects on the structural dynamics of the main protease from SARS-CoV-2 with hybrid simulation methods. Journal of Molecular Graphics and Modelling, 2023, 121, 108443.	1.3	2
295	The Impact of SARS-CoV-2 Lineages (Variants) and COVID-19 Vaccination on the COVID-19 Epidemic in South Africa: Regression Study. Jmirx Med, 0, 4, e34598.	0.2	6
297	Origin and evolution of SARS-CoV-2. European Physical Journal Plus, 2023, 138, .	1.2	16
298	Evaluating Data Sharing of SARS-CoV-2 Genomes for Molecular Epidemiology across the COVID-19 Pandemic. Viruses, 2023, 15, 560.	1.5	2
299	CRISPR techniques and potential for the detection and discrimination of SARS-CoV-2 variants of concern. TrAC - Trends in Analytical Chemistry, 2023, 161, 117000.	5.8	11
300	Subregional origins of emerging SARS-CoV-2 variants during the second pandemic wave in Côte d'lvoire. Virus Genes, 0, , .	0.7	0
302	High-throughput sequencing approaches applied to SARS-CoV-2. Wellcome Open Research, 0, 8, 150.	0.9	0
303	Genomic Surveillance of SARS-CoV-2 Variants in the Dominican Republic and Emergence of a Local Lineage. International Journal of Environmental Research and Public Health, 2023, 20, 5503.	1.2	2