

# CITATION REPORT

List of articles citing

**Detection of 2019 novel coronavirus (2019-nCoV) by real-time RT-PCR**

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2238	COVID-19 Outbreak: An Overview. <b>2019</b> , 64, 215-223		128
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2236	Developing approaches to control SARS-CoV-2 in a public hospital. <b>2020</b> , 70, 311-311		1
2235	The Antibody Response to SARS-CoV-2 Infection. <b>2020</b> , 7, ofaa387		34
2234	Evaluation of NGS-based approaches for SARS-CoV-2 whole genome characterisation. <b>2020</b> , 6, veaa075		50
2233	Pigs are not susceptible to SARS-CoV-2 infection but are a model for viral immunogenicity studies. <b>2021</b> , 68, 1721-1725		23
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2231	Genetics of Severe Acute Respiratory Syndrome Coronavirus-2 and Diagnosis of Coronavirus Disease-2019: An Overview. <b>2020</b> , 22, 236-247		0
2230	Direct RT-qPCR detection of SARS-CoV-2 RNA from patient nasopharyngeal swabs without an RNA extraction step. <b>2020</b> , 18, e3000896		77
2229	Nationwide External Quality Assessment of SARS-CoV-2 Molecular Testing, South Korea. <b>2020</b> , 26, 2353-2360	14	
2228	COVID-19 Associated With Life-Threatening Apnea in an Infant Born Preterm: A Case Report. <b>2020</b> , 8, 568		3
2227	Viral detection and serological response in critically ill patients with SARS-CoV-2. Implications for isolation withdrawal. <b>2020</b> , 44, 586-588		78
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2225	Update of the current knowledge on genetics, evolution, immunopathogenesis, and transmission for coronavirus disease 19 (COVID-19). <b>2020</b> , 16, 2906-2923		20
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2222	A combined approach of MALDI-TOF mass spectrometry and multivariate analysis as a potential tool for the detection of SARS-CoV-2 virus in nasopharyngeal swabs. <b>2020</b> , 286, 113991		27

2221	COVID-19: comparative clinical features and outcome in 114 patients with or without pneumonia (Nord Franche-Comte Hospital, France). <b>2020</b> , 22, 622-625	7
2220	The potential of electrochemistry for the detection of coronavirus-induced infections. <b>2020</b> , 133, 116081	26
2219	Gold/Silver Hybrid Nanoparticles with Enduring Inhibition of Coronavirus Multiplication through Multisite Mechanisms. <b>2020</b> , 31, 2553-2563	15
2218	Growth Differentiation Factor 15 Provides Prognostic Information Superior to Established Cardiovascular and Inflammatory Biomarkers in Unselected Patients Hospitalized With COVID-19. <b>2020</b> , 142, 2128-2137	41
2217	Analytical Sensitivity and Specificity of Two RT-qPCR Protocols for SARS-CoV-2 Detection Performed in an Automated Workflow. <b>2020</b> , 11,	29
2216	Coronavirus disease 2019 (COVID-19) and obesity. Impact of obesity and its main comorbidities in the evolution of the disease. <b>2020</b> , 28, 799-815	11
2215	Detection of antibodies against SARS-CoV-2 spike protein by gold nanospikes in an opto-microfluidic chip. <b>2020</b> , 169, 112578	118
2214	High Potency of a Bivalent Human V Domain in SARS-CoV-2 Animal Models. <b>2020</b> , 183, 429-441.e16	67
2213	The role of biosensors in coronavirus disease-2019 outbreak. <b>2020</b> , 23, 174-184	61
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2211	Comparison of commercial assays and laboratory developed tests for detection of SARS-CoV-2. <b>2020</b> , 285, 113970	16
2210	Diagnosis of COVID-19: facts and challenges. <b>2020</b> , 38, 100761	6
2209	Antiviral properties of placental growth factors: A novel therapeutic approach for COVID-19 treatment. <b>2020</b> , 99, 117-130	3
2208	iSCAN: An RT-LAMP-coupled CRISPR-Cas12 module for rapid, sensitive detection of SARS-CoV-2. <b>2020</b> , 288, 198129	102
2207	Magnetic-Nanosensor-Based Virus and Pathogen Detection Strategies before and during COVID-19. <b>2020</b> , 3, 9560-9580	38
2206	MEMS Biosensors and COVID-19: Missed Opportunity. <b>2020</b> , 5, 3297-3305	13
2205	An Overview of the Temporal Shedding of SARS-CoV-2 RNA in Clinical Specimens. <b>2020</b> , 8, 487	9
2204	A deep learning approach to detect Covid-19 coronavirus with X-Ray images. <b>2020</b> , 40, 1391-1405	92

2203	Are two consecutive negative RT-PCR results enough to rule out COVID-19?. <b>2020</b> , 37, 100750	2
2202	COVID-2019 - A comprehensive pathology insight. <b>2020</b> , 216, 153222	19
2201	Diffuse alveolar damage and thrombotic microangiopathy are the main histopathological findings in lung tissue biopsy samples of COVID-19 patients. <b>2020</b> , 216, 153228	18
2200	Metal-organic frameworks for virus detection. <b>2020</b> , 169, 112604	34
2199	An integrated system of air sampling and simultaneous enrichment for rapid biosensing of airborne coronavirus and influenza virus. <b>2020</b> , 170, 112656	8
2198	Clinical evaluation of five different automated SARS-CoV-2 serology assays in a cohort of hospitalized COVID-19 patients. <b>2020</b> , 130, 104549	41
2197	Multivalent nanomedicines to treat COVID-19: A slow train coming. <b>2020</b> , 35, 100962	22
2196	A systematic review on recent trends in transmission, diagnosis, prevention and imaging features of COVID-19. <b>2020</b> , 98, 233-240	65
2195	Mitigation of the replication of SARS-CoV-2 by nitric oxide in vitro. <b>2020</b> , 37, 101734	66
2194	Epidemiological and clinical characteristics of the first 557 successive patients with COVID-19 in Pernambuco state, Northeast Brazil. <b>2020</b> , 38, 101884	11
2193	Early Research on COVID-19: A Bibliometric Analysis. <b>2020</b> , 1, 100027	16
2192	Clinical management of lung cancer patients during the outbreak of COVID-19 epidemic. <b>2020</b> , 15, 56	1
2191	The Role of Artificial Intelligence, MLR and Statistical Analysis in Investigations about the Correlation of Swab Tests and Stress on Health Care Systems by COVID-19. <b>2020</b> , 11, 454	5
2190	A High-Throughput, Multi-Index Isothermal Amplification Platform for Rapid Detection of 19 Types of Common Respiratory Viruses Including SARS-CoV-2. <b>2020</b> , 6, 1130-1140	21
2189	COVID-19 and sickle cell disease in Bahrain. <b>2020</b> , 101, 14-16	15
2188	Experimental infection of domestic dogs and cats with SARS-CoV-2: Pathogenesis, transmission, and response to reexposure in cats. <b>2020</b> , 117, 26382-26388	178
2187	Severe Coronavirus Disease 2019 (COVID-19) is Associated With Elevated Serum Immunoglobulin (Ig) A and Antiphospholipid IgA Antibodies. <b>2021</b> , 73, e2869-e2874	36
2186	Molecular Diagnosis of Coronavirus Disease 2019. <b>2020</b> , 2, e0184	4

2185	Rapid Differential Diagnosis of Seven Human Respiratory Coronaviruses Based on Centrifugal Microfluidic Nucleic Acid Assay. <b>2020</b> , 92, 14297-14302	14
2184	Diagnosing the novel SARS-CoV-2 by quantitative RT-PCR: variations and opportunities. <b>2020</b> , 98, 1727-1736	19
2183	A Crowned Killer's Rsum! Genome, Structure, Receptors, and Origin of SARS-CoV-2. <b>2020</b> , 35, 673-684	7
2182	Accidental diagnosis of COVID-19 pneumonia after 18F FDG PET/CT: a case series. <b>2020</b> , 8, 1-8	5
2181	Hock-a-loogie saliva as a diagnostic specimen for SARS-CoV-2 by a PCR-based assay: A diagnostic validity study. <b>2020</b> , 511, 177-180	16
2180	A Therapeutic Non-self-reactive SARS-CoV-2 Antibody Protects from Lung Pathology in a COVID-19 Hamster Model. <b>2020</b> , 183, 1058-1069.e19	182
2179	Diagnostic performance of commercially available COVID-19 serology tests in Brazil. <b>2020</b> , 101, 382-390	13
2178	Comparative analysis of three laboratory based serological assays for SARS-CoV-2 in an Australian cohort. <b>2020</b> , 52, 764-769	2
2177	COVID-19: public health management of the first two confirmed cases identified in the UK. <b>2020</b> , 148, e194	4
2176	Neuropilin-1 facilitates SARS-CoV-2 cell entry and infectivity. <b>2020</b> , 370, 856-860	809
2175	Immune system changes during COVID-19 recovery play key role in determining disease severity. <b>2020</b> , 34, 2058738420966497	15
2174	Confirmed or unconfirmed cases of 2019 novel coronavirus pneumonia in Italian patients: a retrospective analysis of clinical features. <b>2020</b> , 20, 775	7
2173	Timeline and Procedures on Restarting Non-Emergent Arthroplasty Care in the US Epicenter of the COVID-19 Pandemic. <b>2020</b> , 1-7	2
2172	Multiplex and visual detection of African Swine Fever Virus (ASFV) based on Hive-Chip and direct loop-mediated isothermal amplification. <b>2020</b> , 1140, 30-40	9
2171	COVID-19 in a patient with a flare of systemic lupus erythematosus: A rare case-report. <b>2020</b> , 31, 101252	7
2170	A pragmatic randomized controlled trial reports lack of efficacy of hydroxychloroquine on coronavirus disease 2019 viral kinetics. <b>2020</b> , 11, 5284	45
2169	Reliability of induced sputum test is greater than that of throat swab test for detecting SARS-CoV-2 in patients with COVID-19: A multi-center cross-sectional study. <b>2020</b> , 11, 1394-1401	8
2168	Bibliometric Analysis of Early COVID-19 Research: The Top 50 Cited Papers. <b>2020</b> , 13, 1178633720962935	16

2167	Rapid point-of-care detection of SARS-CoV-2 using reverse transcription loop-mediated isothermal amplification (RT-LAMP). <b>2020</b> , 17, 160	55
2166	Serum-IgG responses to SARS-CoV-2 after mild and severe COVID-19 infection and analysis of IgG non-responders. <b>2020</b> , 15, e0241104	101
2165	Transmission of SARS-CoV 2 During Long-Haul Flight. <b>2020</b> , 26, 2617-2624	92
2164	Kinetics of Nucleo- and Spike Protein-Specific Immunoglobulin G and of Virus-Neutralizing Antibodies after SARS-CoV-2 Infection. <b>2020</b> , 8,	25
2163	Can Measurements of Inflammatory Biomarkers be Used to Spot Respiratory Viral Infections?. <b>2020</b> , 12,	1
2162	Determination of COVID-19 prevalence with regards to age range of patients referring to the hospitals located in western Tehran, Iran. <b>2020</b> , 21, 100910	9
2161	Coronavirus discovery by metagenomic sequencing: a tool for pandemic preparedness. <b>2020</b> , 131, 104594	10
2160	Predictors of laboratory-positive COVID-19 in children and teenagers. <b>2020</b> , 189, 153-157	7
2159	Detection of COVID-19 Using Deep Learning Algorithms on Chest Radiographs. <b>2020</b> , 35, 369-376	4
2158	Fractures in Patients With COVID-19 Infection: Early Prognosis and Management. A Case Series of 20 Patients in a Single Institution in Lombardy, Northern Italy. <b>2020</b> , 34, e389-e397	9
2157	Detection of SARS-CoV-2 RNA by multiplex RT-qPCR. <b>2020</b> , 18, e3000867	28
2156	Recent advances in the nucleic acid-based diagnostic tool for coronavirus. <b>2020</b> , 47, 9033-9041	10
2155	Low prevalence of SARS-CoV-2 in plasma of COVID-19 patients presenting to the emergency department. <b>2020</b> , 133, 104655	5
2154	Persistence of SARS-CoV-2 in Water and Wastewater. <b>2020</b> , 7, 937-942	169
2153	A simple RNA preparation method for SARS-CoV-2 detection by RT-qPCR. <b>2020</b> , 10, 16608	27
2152	REGN-COV2 antibodies prevent and treat SARS-CoV-2 infection in rhesus macaques and hamsters. <b>2020</b> , 370, 1110-1115	330
2151	Community Treatment Centers for Isolation of Asymptomatic and Mildly Symptomatic Patients with Coronavirus Disease, South Korea. <b>2020</b> , 26, 2338-2345	14
2150	Cold-Adapted Live Attenuated SARS-Cov-2 Vaccine Completely Protects Human ACE2 Transgenic Mice from SARS-Cov-2 Infection. <b>2020</b> , 8,	25

2149	Investigation of hospital indoor air quality for the presence of SARS-Cov-2. <b>2020</b> , 18, 1-5	16
2148	Clinical impact of molecular point-of-care testing for suspected COVID-19 in hospital (COV-19POC): a prospective, interventional, non-randomised, controlled study. <b>2020</b> , 8, 1192-1200	63
2147	COVID-19 and the kidney: A matter of concern. <b>2020</b> , 10, 165-168	6
2146	Review of chest CT manifestations of COVID-19 infection. <b>2020</b> , 7, 100239	29
2145	The transmission modes and sources of COVID-19: A systematic review. <b>2020</b> , 26, 125-136	31
2144	Comparison of SARS-CoV-2 RT-PCR on a high-throughput molecular diagnostic platform and the cobas SARS-CoV-2 test for the diagnostic of COVID-19 on various clinical samples. <b>2020</b> , 78,	28
2143	Sex difference in coronavirus disease (COVID-19): a systematic review and meta-analysis. <b>2020</b> , 10, e040129	82
2142	Antibody responses to SARS-CoV-2 in patients with differing severities of coronavirus disease 2019. <b>2020</b> , 15, e0240502	38
2141	Peptide Nucleic Acid (PNA)-Enhanced Specificity of a Dual-Target Real-Time Quantitative Polymerase Chain Reaction (RT-qPCR) Assay for the Detection and Differentiation of SARS-CoV-2 from Related Viruses. <b>2020</b> , 10,	4
2140	Investigation of SARS-CoV-2 outbreaks in six care homes in London, April 2020. <b>2020</b> , 26, 100533	54
2139	Comparison analysis of different swabs and transport mediums suitable for SARS-CoV-2 testing following shortages. <b>2020</b> , 285, 113947	18
2138	Rapid deployment of pathology services to a remote Australian quarantine setting during the COVID-19 pandemic. <b>2020</b> , 52, 821-823	0
2137	Outcomes and epidemiology of COVID-19 infection in the obstetric population. <b>2020</b> , 44, 151283	6
2136	Preparedness needs research: How fundamental science and international collaboration accelerated the response to COVID-19. <b>2020</b> , 16, e1008902	12
2135	Extracorporeal Carbon Dioxide Removal Using a Renal Replacement Therapy Platform to Enhance Lung-Protective Ventilation in Hypercapnic Patients With Coronavirus Disease 2019-Associated Acute Respiratory Distress Syndrome. <b>2020</b> , 7, 598379	9
2134	Blockchain in Healthcare: Insights on COVID-19. <b>2020</b> , 17,	48
2133	Positive control synthesis method for COVID-19 diagnosis by one-step real-time RT-PCR. <b>2020</b> , 511, 149-153	7
2132	Comparison of Primer-Probe Sets among Different Master Mixes for Laboratory Screening of Severe Acute Respiratory Syndrome Coronavirus 2 (). <b>2020</b> , 2020, 7610678	3

2131	Control of a multigroup COVID-19 model with immunity: treatment and test elimination. <b>2020</b> , 106, 1-15	4
2130	Optimization and clinical validation of dual-target RT-LAMP for SARS-CoV-2. <b>2020</b> , 286, 113972	24
2129	Whole genome sequencing and phylogenetic classification of Tunisian SARS-CoV-2 strains from patients of the Military Hospital in Tunis. <b>2020</b> , 56, 767-771	3
2128	A CRISPR-Cas12a-based specific enhancer for more sensitive detection of SARS-CoV-2 infection. <b>2020</b> , 61, 103036	22
2127	Cancer Care Management During the COVID-19 Pandemic. <b>2020</b> , 13, 1711-1721	7
2126	A survey on artificial intelligence approaches in supporting frontline workers and decision makers for the COVID-19 pandemic. <b>2020</b> , 141, 110337	32
2125	Clinical characteristics of "re-positive" discharged COVID-19 pneumonia patients in Wuhan, China. <b>2020</b> , 10, 17365	11
2124	Tracking SARS-CoV-2 in Sewage: Evidence of Changes in Virus Variant Predominance during COVID-19 Pandemic. <b>2020</b> , 12,	75
2123	Implementation and evaluation of a novel real-time multiplex assay for SARS-CoV-2: in-field learnings from a clinical microbiology laboratory. <b>2020</b> , 52, 754-759	9
2122	Large and Small Cerebral Vessel Involvement in Severe COVID-19: Detailed Clinical Workup of a Case Series. <b>2020</b> , 51, 3719-3722	46
2121	Convalescent plasma appears efficacious and safe in COVID-19. <b>2020</b> , 7, 2049936120957931	5
2120	SARS-CoV-2: From Structure to Pathology, Host Immune Response and Therapeutic Management. <b>2020</b> , 8,	3
2119	Usage of social media during the pandemic: Seeking support and awareness about COVID-19 through social media platforms. <b>2020</b> , 20, e02417	19
2118	Biosafety Concerns During the Collection, Transportation, and Processing of COVID-19 Samples for Diagnosis. <b>2020</b> , 51, 623-630	22
2117	An inflammatory vascular endothelium-mimicking microfluidic device to enable leukocyte rolling and adhesion for rapid infection diagnosis. <b>2020</b> , 168, 112558	3
2116	Facile biosensors for rapid detection of COVID-19. <b>2020</b> , 170, 112673	56
2115	Update on serologic testing in COVID-19. <b>2020</b> , 510, 746-750	16
2114	Occurrence of SARS-CoV-2 in the intraocular milieu. <b>2020</b> , 201, 108273	11



2113	Molecular biology of coronaviruses: current knowledge. <b>2020</b> , 6, e04743	40
2112	Extraction-free SARS-CoV-2 detection by rapid RT-qPCR universal for all primary respiratory materials. <b>2020</b> , 130, 104579	47
2111	Performance evaluation of serological assays to determine the immunoglobulin status in SARS-CoV-2 infected patients. <b>2020</b> , 131, 104589	7
2110	Use of the variplex SARS-CoV-2 RT-LAMP as a rapid molecular assay to complement RT-PCR for COVID-19 diagnosis. <b>2020</b> , 132, 104616	39
2109	Comparison of the GeneFinder COVID-19 Plus RealAmp Kit on the sample-to-result Platform ELITE InGenius to the national reference method: An added value of N gene target detection?. <b>2020</b> , 132, 104632	17
2108	Rapid, convenient and efficient kit-independent detection of SARS-CoV-2 RNA. <b>2020</b> , 286, 113965	8
2107	Value of swab types and collection time on SARS-COV-2 detection using RT-PCR assay. <b>2020</b> , 286, 113974	16
2106	Concentration of infectious SARS-CoV-2 by polyethylene glycol precipitation. <b>2020</b> , 286, 113977	4
2105	Fatal aspergillosis complicating severe SARS-CoV-2 infection: A case report. <b>2020</b> , 30, 101039	13
2104	Co-infection of SARS-CoV-2 and in a young man with idiopathic non-cystic bronchiectasis and vitamin D deficiency. <b>2020</b> , 31, 101203	3
2103	Biosensors for the detection of respiratory viruses: A review.. <b>2020</b> , 2, 100007	50
2102	Review of care and management of pregnant women during COVID-19 pandemic. <b>2020</b> , 59, 791-794	4
2101	Severe Acute Respiratory Syndrome Coronavirus 2 RNA in Plasma Is Associated With Intensive Care Unit Admission and Mortality in Patients Hospitalized With Coronavirus Disease 2019. <b>2021</b> , 73, e799-e802	37
2100	Assessing the Burden of Coronavirus Disease 2019 (COVID-19) Among Healthcare Workers in Mexico City: A Data-Driven Call to Action. <b>2021</b> , 73, e191-e198	15
2099	Clinical features and outcomes of thoracic surgery patients during the COVID-19 pandemic. <b>2020</b> , 58, 738-744	3
2098	Selenium Deficiency Is Associated with Mortality Risk from COVID-19. <b>2020</b> , 12,	151
2097	Chest CT for triage during COVID-19 on the emergency department: myth or truth?. <b>2020</b> , 27, 641-651	17
2096	Preliminary CT findings of coronavirus disease 2019 (COVID-19). <b>2020</b> , 65, 124-132	23

2095	. <b>2020</b> , 8, 132665-132676	431
2094	Diagnostic accuracy of Augurix COVID-19 IgG serology rapid test. <b>2020</b> , 50, e13357	19
2093	A Recurrent Mutation at Position 26340 of SARS-CoV-2 Is Associated with Failure of the E Gene Quantitative Reverse Transcription-PCR Utilized in a Commercial Dual-Target Diagnostic Assay. <b>2020</b> , 58,	88
2092	In Vitro Inactivation of SARS-CoV-2 Using Gamma Radiation. <b>2020</b> , 25, 157-160	13
2091	Biological, clinical and epidemiological features of COVID-19, SARS and MERS and AutoDock simulation of ACE2. <b>2020</b> , 9, 99	31
2090	Recent Advancements in the Diagnosis, Prevention, and Prospective Drug Therapy of COVID-19. <b>2020</b> , 8, 384	7
2089	Age-Dependent Progression of SARS-CoV-2 Infection in Syrian Hamsters. <b>2020</b> , 12,	112
2088	No evidence of SARS-CoV-2 circulation before identification of the first Swiss SARS-CoV-2 case. <b>2020</b> , 56, 106100	4
2087	Viruses in wastewater: occurrence, abundance and detection methods. <b>2020</b> , 745, 140910	79
2086	Clinical outcomes of hemodialysis patients infected with severe acute respiratory syndrome coronavirus 2 and impact of proactive chest computed tomography scans. <b>2020</b> , 13, 328-333	9
2085	Antibody kinetics in primary- and secondary-care physicians with mild to moderate SARS-CoV-2 infection. <b>2020</b> , 9, 1692-1694	7
2084	Detection of SARS-CoV-2 RNA in commercial passenger aircraft and cruise ship wastewater: a surveillance tool for assessing the presence of COVID-19 infected travellers. <b>2020</b> , 27,	81
2083	Coronavirus disease 2019 (COVID-19) rash in a psoriatic patient treated with Secukinumab: Is there a role for Interleukin 17?. <b>2020</b> , 33, e14011	8
2082	The novel Chinese coronavirus (2019-nCoV) infections: Challenges for fighting the storm. <b>2020</b> , 50, e13209	203
2081	Clinical and Pathological Findings in SARS-CoV-2 Disease Outbreaks in Farmed Mink (). <b>2020</b> , 57, 653-657	96
2080	National Early Warning Score 2 (NEWS2) on admission predicts severe disease and in-hospital mortality from Covid-19 - a prospective cohort study. <b>2020</b> , 28, 66	83
2079	COVID-19 Disease Severity Risk Factors for Pediatric Patients in Italy. <b>2020</b> , 146,	77
2078	A retrospective analysis of the epidemiology, clinical manifestations, and imaging characteristics of familial cluster-onset COVID-19. <b>2020</b> , 8, 747	4

2077	Presenting Features and Early Mortality from SARS-CoV-2 Infection in Cancer Patients during the Initial Stage of the COVID-19 Pandemic in Europe. <b>2020</b> , 12,	40
2076	Calcineurin Inhibitor-Based Immunosuppression and COVID-19: Results from a Multidisciplinary Cohort of Patients in Northern Italy. <b>2020</b> , 8,	32
2075	Impact of the Coronavirus Infection in Pregnancy: A Preliminary Study of 141 Patients. <b>2020</b> , 70, 256-261	45
2074	Dynamic model of COVID-19 disease with exploratory data analysis. <b>2020</b> , 9, e00477	14
2073	SARS-CoV-2 Antibody Responses Do Not Predict COVID-19 Disease Severity. <b>2020</b> , 154, 459-465	52
2072	Coronaviruses in wastewater processes: Source, fate and potential risks. <b>2020</b> , 143, 105962	61
2071	First results of a national external quality assessment scheme for the detection of SARS-CoV-2 genome sequences. <b>2020</b> , 129, 104537	19
2070	Clinical evaluation of the BioFire <sup>®</sup> Respiratory Panel 2.1 and detection of SARS-CoV-2. <b>2020</b> , 129, 104538	35
2069	COVID-19 in a patient with active tuberculosis: A rare case-report. <b>2020</b> , 31, 101146	16
2068	First environmental surveillance for the presence of SARS-CoV-2 RNA in wastewater and river water in Japan. <b>2020</b> , 737, 140405	270
2067	Reflecting on the safety zoo: Developing an integrated pandemics barrier model using early lessons from the Covid-19 pandemic. <b>2020</b> , 130, 104907	9
2066	Diagnostic techniques for COVID-19 and new developments. <b>2020</b> , 220, 121392	66
2065	Ethnicity and COVID-19 in children with comorbidities. <b>2020</b> , 4, e24-e25	29
2064	Multiplex reverse transcription loop-mediated isothermal amplification combined with nanoparticle-based lateral flow biosensor for the diagnosis of COVID-19. <b>2020</b> , 166, 112437	199
2063	Low risk for SARS-CoV2 symptomatic infection and early complications in paediatric patients during the ongoing CoVID19 epidemics in Lombardy. <b>2020</b> , 26, 1569-1571	2
2062	Cardiac surgery considerations and lessons learned during the COVID-19 pandemic. <b>2020</b> , 35, 1979-1987	2
2061	Arsenal of microfluidic testing devices may combat COVID-19 pandemic. <b>2020</b> , 45, 511-514	5
2060	Fighting COVID-19: Integrated Micro- and Nanosystems for Viral Infection Diagnostics. <b>2020</b> , 3, 628-651	52

2059	Current and Perspective Diagnostic Techniques for COVID-19. <b>2020</b> , 6, 1998-2016	67
2058	Retrospective Analysis of 2019-nCov-Infected Cases in Dongyang, Southeastern China. <b>2020</b> , 2020, 7056707	
2057	COVID-19 pandemic: management of patients affected by SARS-CoV-2 in Rome COVID Hospital 2 Trauma Centre and safety of our surgical team. <b>2020</b> , 44, 2487-2491	8
2056	Lessons From South Korea's Covid-19 Policy Response. <b>2020</b> , 50, 801-808	52
2055	Added value of chest computed tomography in suspected COVID-19: an analysis of 239 patients. <b>2020</b> , 56,	14
2054	Artificial Intelligence (AI) and Big Data for Coronavirus (COVID-19) Pandemic: A Survey on the State-of-the-Arts. <b>2020</b> , 8, 130820-130839	107
2053	Evaluation of Commercial qPCR Kits for Detection of SARS-CoV-2 in Pooled Samples. <b>2020</b> , 10,	7
2052	Analytical sensitivity and efficiency comparisons of SARS-CoV-2 RT-qPCR primer-probe sets. <b>2020</b> , 5, 1299-1305	380
2051	ESGE and ESGENA Position Statement on gastrointestinal endoscopy and COVID-19: An update on guidance during the post-lockdown phase and selected results from a membership survey. <b>2020</b> , 52, 891-898	35
2050	Aggressive Quarantine Measures Reduce the High Morbidity of COVID-19 in Patients on Maintenance Hemodialysis and Medical Staff of Hemodialysis Facilities in Wuhan, China. <b>2020</b> , 6, 271-283	6
2049	Comparison of hydroxychloroquine, lopinavir/ritonavir, and standard of care in critically ill patients with SARS-CoV-2 pneumonia: an opportunistic retrospective analysis. <b>2020</b> , 24, 418	36
2048	Rapid Large-Scale COVID-19 Testing During Shortages. <b>2020</b> , 10,	14
2047	Coronavirus Disease-19: An Interim Evidence Synthesis of the World Association for Infectious Diseases and Immunological Disorders (Waidid). <b>2020</b> , 7, 572485	10
2046	COVID-19 Emergency Management: From the Reorganization of the Endoscopy Service to the Verification of the Reprocessing Efficacy. <b>2020</b> , 17,	3
2045	Natural outbreaks and bioterrorism: How to deal with the two sides of the same coin?. <b>2020</b> , 10, 020317	1
2044	Diagnostic Sensitivity of Nasopharyngeal RT-PCR in a Long-Term Care Home Outbreak. <b>2020</b> , 21, 1570-1572.e12	
2043	Comparison of SARS-CoV-2 detection from combined nasopharyngeal/oropharyngeal swab samples by a laboratory-developed real-time RT-PCR test and the Roche SARS-CoV-2 assay on a cobas 8800 instrument. <b>2020</b> , 132, 104615	9
2042	Outpatient Management of Oligosymptomatic Patients with respiratory infection in the era of SARS-CoV-2: Experience from rural German general practitioners. <b>2020</b> , 20, 811	3

2041	Microfluidic Nano-Scale qPCR Enables Ultra-Sensitive and Quantitative Detection of SARS-CoV-2. <b>2020</b> , 8, 1425	4
2040	First Phylogenetic Analysis of Malian SARS-CoV-2 Sequences Provides Molecular Insights into the Genomic Diversity of the Sahel Region. <b>2020</b> , 12,	6
2039	Susceptibility to SARS, MERS, and COVID-19 from animal health perspective. <b>2020</b> , 10, 164-177	13
2038	Contamination of SARS-CoV-2 RT-PCR probes at the oligonucleotide manufacturer. <b>2020</b> , 52, 814-816	9
2037	Infection fatality rate of SARS-CoV2 in a super-spreading event in Germany. <b>2020</b> , 11, 5829	111
2036	Rapid Scanning Electron Microscopy Detection and Sequencing of Severe Acute Respiratory Syndrome Coronavirus 2 and Other Respiratory Viruses. <b>2020</b> , 11, 596180	4
2035	Detection of SARS-CoV-2 from Saliva as Compared to Nasopharyngeal Swabs in Outpatients. <b>2020</b> , 12,	27
2034	An efficient approach based on 3D reconstruction of CT scan to improve the management and monitoring of COVID-19 patients. <b>2020</b> , 6, e05453	4
2033	Flight-Associated Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 Corroborated by Whole-Genome Sequencing. <b>2020</b> , 26, 2872-2880	38
2032	Evaluation of the clinical performance of single-, dual-, and triple-target SARS-CoV-2 RT-qPCR methods. <b>2020</b> , 511, 143-148	10
2031	Digital PCR is a sensitive new technique for SARS-CoV-2 detection in clinical applications. <b>2020</b> , 511, 346-351	11
2030	An Update on Molecular Diagnostics for COVID-19. <b>2020</b> , 10, 560616	40
2029	The obesity paradox: Analysis from the SMAteo COvid-19 REgistry (SMACORE) cohort. <b>2020</b> , 30, 1920-1925	21
2028	Reduced Sleep in the Week Prior to Diagnosis of COVID-19 is Associated with the Severity of COVID-19. <b>2020</b> , 12, 999-1007	12
2027	SARS-CoV-2 in Quarantined Domestic Cats from COVID-19 Households or Close Contacts, Hong Kong, China. <b>2020</b> , 26, 3071-3074	90
2026	Genomic Epidemiology of Severe Acute Respiratory Syndrome Coronavirus 2, Colombia. <b>2020</b> , 26, 2854-2862	20
2025	How to Determine When SARS-CoV-2 Antibody Testing Is or Is Not Useful for Population Screening: A Tutorial. <b>2020</b> , 5, 2381468320963068	0
2024	Immunopathology, host-virus genome interactions, and effective vaccine development in SARS-CoV-2. <b>2020</b> , 18, 3774-3787	11

2023	Emerging diagnostic tools for detection of COVID-19 and perspective. <b>2020</b> , 22, 83	23
2022	Case series of four pregnant women with COVID-19 in Ilam, Iran. <b>2020</b> , 38, 100783	1
2021	Insights into the Origin, Transmission and Outbreak of Coronavirus Disease (Covid 19): A Recent Study. <b>2020</b> , 32, 2403-2415	
2020	Gut Microbiota Status in COVID-19: An Unrecognized Player?. <b>2020</b> , 10, 576551	43
2019	Self-Perceived Stress During the Quarantine of COVID-19 Pandemic in Paraguay: An Exploratory Survey. <b>2020</b> , 11, 558691	23
2018	Identification of a Novel Pathogen Using Family-Wide PCR: Initial Confirmation of COVID-19 in Thailand. <b>2020</b> , 8, 555013	3
2017	COVID-19: Advances in diagnostic tools, treatment strategies, and vaccine development. <b>2020</b> , 45, 1	24
2016	Letter to the editor on "Asymptomatic infection by SARS 2 coronavirus: Invisible but invincible" by Nikolai et al. 2020. <b>2020</b> , 101, 391-392	1
2015	Clinical performance and sample freeze-thaw stability of the cobas' 6800 SARS-CoV-2 assay for the detection of SARS-CoV-2 in oro-/nasopharyngeal swabs and lower respiratory specimens. <b>2020</b> , 133, 104686	4
2014	Microfluidic devices for the detection of viruses: aspects of emergency fabrication during the COVID-19 pandemic and other outbreaks. <b>2020</b> , 476, 20200398	16
2013	Diagnostic accuracy of initial chest radiograph compared to SARS-CoV-2 PCR in patients with suspected COVID-19. <b>2020</b> , 2, 20200034	9
2012	Rapid and label-free detection of COVID-19 using coherent anti-Stokes Raman scattering microscopy. <b>2020</b> , 10, 566-572	7
2011	The importance of standardisation - COVID-19 CT & Radiograph Image Data Stock for deep learning purpose. <b>2020</b> , 127, 104092	3
2010	Ocular Involvement in Coronavirus Disease 2019: Up-to-Date Information on Its Manifestation, Testing, Transmission, and Prevention. <b>2020</b> , 7, 569126	6
2009	Neurological Complications and Noninvasive Multimodal Neuromonitoring in Critically Ill Mechanically Ventilated COVID-19 Patients. <b>2020</b> , 11, 602114	20
2008	Depletion of circulating IgM memory B cells predicts unfavourable outcome in COVID-19. <b>2020</b> , 10, 20836	18
2007	Camostat Mesylate May Reduce Severity of Coronavirus Disease 2019 Sepsis: A First Observation. <b>2020</b> , 2, e0284	25
2006	Predicting Venous Thromboembolic Events in Patients with Coronavirus Disease 2019 Requiring Hospitalization: an Observational Retrospective Study by the COVIDIC Initiative in a Swiss University Hospital. <b>2020</b> , 2020, 9126148	4

2005	Status of Novel Coronavirus Disease 2019 (COVID-19) and Animal Production. <b>2020</b> , 7, 586919	7
2004	Comparing and Contrasting MERS, SARS-CoV, and SARS-CoV-2: Prevention, Transmission, Management, and Vaccine Development. <b>2020</b> , 9,	0
2003	Development of Patient-Derived Human Monoclonal Antibodies Against Nucleocapsid Protein of Severe Acute Respiratory Syndrome Coronavirus 2 for Coronavirus Disease 2019 Diagnosis. <b>2020</b> , 11, 595970	4
2002	Dynamics of CD4 T Cell and Antibody Responses in COVID-19 Patients With Different Disease Severity. <b>2020</b> , 7, 592629	27
2001	Histopathologic Changes and SARS-CoV-2 Immunostaining in the Lung of a Patient With COVID-19. <b>2020</b> , 172, 629-632	293
2000	Environment and Personal Protective Equipment Tests for SARS-CoV-2 in the Isolation Room of an Infant With Infection. <b>2020</b> , 173, 240-242	48
1999	Autopsy Findings and Venous Thromboembolism in Patients With COVID-19: A Prospective Cohort Study. <b>2020</b> , 173, 268-277	1314
1998	Immunological Assessment of Pediatric Multisystem Inflammatory Syndrome Related to Coronavirus Disease 2019. <b>2021</b> , 10, 706-713	13
1997	Rapid SARS-CoV-2 antigen detection assay in comparison with real-time RT-PCR assay for laboratory diagnosis of COVID-19 in Thailand. <b>2020</b> , 17, 177	95
1996	Variation in False-Negative Rate of Reverse Transcriptase Polymerase Chain Reaction-Based SARS-CoV-2 Tests by Time Since Exposure. <b>2020</b> , 173, 262-267	816
1995	Identifying the Zoonotic Origin of SARS-CoV-2 by Modeling the Binding Affinity between the Spike Receptor-Binding Domain and Host ACE2. <b>2020</b> , 19, 4844-4856	15
1994	Performance Evaluation of the SAMBA II SARS-CoV-2 Test for Point-of-Care Detection of SARS-CoV-2. <b>2020</b> , 59,	24
1993	Why psychiatry is different - challenges and difficulties in managing a nosocomial outbreak of coronavirus disease (COVID-19) in hospital care. <b>2020</b> , 9, 190	7
1992	Steps, implementation and importance of quality management in diagnostic laboratories with special emphasis on coronavirus disease-2019. <b>2020</b> , 38, 243-251	7
1991	Rapid lateral flow immunoassay for the fluorescence detection of SARS-CoV-2 RNA. <b>2020</b> , 4, 1150-1158	77
1990	Salivary diagnostics of the novel coronavirus SARS-CoV-2 (COVID-19). <b>2020</b> ,	7
1989	On the Challenges for the Diagnosis of SARS-CoV-2 Based on a Review of Current Methodologies. <b>2020</b> , 5, 3655-3677	38
1988	Clinical spectrum of coronavirus disease 2019 in Iceland: population based cohort study. <b>2020</b> , 371, m4529	26

1987	Reduced Treatment Sensitivity of SARS-CoV-2 After Multigenerational Human-to-Human Transmission. <b>2020</b> , 8,	
1986	Design and Fabrication of Silicon Nanowire-Based Biosensors with Integration of Critical Factors: Toward Ultrasensitive Specific Detection of Biomolecules. <b>2020</b> , 12, 51808-51819	3
1985	Establishing a mass spectrometry-based system for rapid detection of SARS-CoV-2 in large clinical sample cohorts. <b>2020</b> , 11, 6201	49
1984	A Study of Potential SARS-CoV-2 Antiviral Drugs and Preliminary Research of Their Molecular Mechanism, Based on Anti-SARS-CoV Drug Screening and Molecular Dynamics Simulation. <b>2020</b> ,	2
1983	Evidence of exposure to SARS-CoV-2 in cats and dogs from households in Italy. <b>2020</b> , 11, 6231	167
1982	Clinical Experience With Severe Acute Respiratory Syndrome Coronavirus 2-Related Illness in Children: Hospital Experience in Cape Town, South Africa. <b>2021</b> , 72, e938-e944	16
1981	Early cases of SARS-CoV-2 infection in Uganda: epidemiology and lessons learned from risk-based testing approaches - March-April 2020. <b>2020</b> , 16, 114	9
1980	Evidence-Based Framework and Implementation of China's Strategy in Combating COVID-19. <b>2020</b> , 13, 1989-1998	1
1979	Optimized and scalable synthesis of magnetic nanoparticles for RNA extraction in response to developing countries' needs in the detection and control of SARS-CoV-2. <b>2020</b> , 10, 19004	20
1978	Long-distance airborne dispersal of SARS-CoV-2 in COVID-19 wards. <b>2020</b> , 10, 19589	94
1977	Assigning computed tomography involvement score in COVID-19 patients: prognosis prediction and impact on management. <b>2020</b> , 2, 20200024	4
1976	Diagnostic Testing for Severe Acute Respiratory Syndrome-Related Coronavirus 2: A Narrative Review. <b>2020</b> , 172, 726-734	370
1975	SARS-CoV-2 and RT-PCR in asymptomatic patients: Results of a cohort of workers at El Dorado International Airport in Bogotá 2020. <b>2020</b> , 40, 166-172	9
1974	Sewage surveillance system using urological wastewater: Key to COVID-19 monitoring?. <b>2020</b> ,	3
1973	Rapid COVID-19 diagnosis using ensemble deep transfer learning models from chest radiographic images. <b>2020</b> , 1-13	48
1972	Daily Viral Kinetics and Innate and Adaptive Immune Response Assessment in COVID-19: a Case Series. <b>2020</b> , 5,	32
1971	Development of Diagnostic Tests for Detection of SARS-CoV-2. <b>2020</b> , 10,	19
1970	Lower cost alternatives for molecular diagnosis of COVID-19: conventional RT-PCR and SYBR Green-based RT-qPCR. <b>2020</b> , 51, 1117-1123	21



1969	Molecular diagnosis of COVID-19 in different biologic matrix, their diagnostic validity and clinical relevance: A systematic review. <b>2020</b> , 258, 118207	9
1968	Simulating COVID-19 in a university environment. <b>2020</b> , 328, 108436	43
1967	Coronavirus disease 2019-Historical context, virology, pathogenesis, immunotherapy, and vaccine development. <b>2020</b> , 16, 2992-3000	6
1966	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Viral Load in the Upper Respiratory Tract of Children and Adults With Early Acute Coronavirus Disease 2019 (COVID-19). <b>2021</b> , 73, 148-150	68
1965	Neuropathologic features of four autopsied COVID-19 patients. <b>2020</b> , 30, 1012-1016	93
1964	A comprehensive review of COVID-19 characteristics. <b>2020</b> , 22, 19	170
1963	A Look Behind the Scenes at COVID-19: National Strategies of Infection Control and Their Impact on Mortality. <b>2020</b> , 17,	13
1962	Effects of Different Temperature and Time Durations of Virus Inactivation on Results of Real-time Fluorescence PCR Testing of COVID-19 Viruses. <b>2020</b> , 40, 614-617	9
1961	Multi-Platform Comparison of SARS-CoV-2 Serology Assays for the Detection of COVID-19. <b>2020</b> , 5, 1324-1336	21
1960	Ultrarapid diagnosis, microscope imaging, genome sequencing, and culture isolation of SARS-CoV-2. <b>2020</b> , 39, 1601-1603	27
1959	Bayes' theorem, COVID19, and screening tests. <b>2020</b> , 38, 2011-2013	4
1958	Effect of the COVID-19 Pandemic on Surgical Breast Cancer Care in the Netherlands: A Multicenter Retrospective Cohort Study. <b>2020</b> , 20, 454-461	22
1957	Endothelial injury and thrombotic microangiopathy in COVID-19: Treatment with the lectin-pathway inhibitor narsoplimab. <b>2020</b> , 225, 152001	64
1956	Comparison of the analytical sensitivity of seven commonly used commercial SARS-CoV-2 automated molecular assays. <b>2020</b> , 130, 104578	52
1955	Eye banking in the coronavirus disease 2019 era. <b>2020</b> , 31, 389-395	8
1954	Screening and testing for COVID-19 before surgery. <b>2020</b> , 90, 1845-1856	23
1953	Cardiovascular Hospitalizations, Influenza Activity, and COVID-19 Measures. <b>2020</b> , 142, 1302-1304	11
1952	Current Status of Laboratory Diagnosis for COVID-19: A Narrative Review. <b>2020</b> , 13, 2657-2665	40

1951	The Global Emergency of Novel Coronavirus (SARS-CoV-2): An Update of the Current Status and Forecasting. <b>2020</b> , 17,	25
1950	Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) by Mass Spectrometry. <b>2020</b> , 12,	16
1949	Comprehensive Analyses of SARS-CoV-2 Transmission in a Public Health Virology Laboratory. <b>2020</b> , 12,	16
1948	Pandemic printing: a novel 3D-printed swab for detecting SARS-CoV-2. <b>2020</b> , 213, 276-279	18
1947	Use of Whole Genome Sequencing Data for a First in Silico Specificity Evaluation of the RT-qPCR Assays Used for SARS-CoV-2 Detection. <b>2020</b> , 21,	13
1946	Development of two TaqMan real-time reverse transcription-PCR assays for the detection of severe acute respiratory syndrome coronavirus-2. <b>2020</b> , 2, 232-237	5
1945	Growth Factor Receptor Signaling Inhibition Prevents SARS-CoV-2 Replication. <b>2020</b> , 80, 164-174.e4	106
1944	Low prevalence of active COVID-19 in Slovenia: a nationwide population study of a probability-based sample. <b>2020</b> , 26, 1514-1519	17
1943	Daily pool testing of nasopharyngeal self-obtained swabs of healthcare professionals with definite COVID-19 exposition. <b>2020</b> , 27, 301-302	2
1942	The First Quarter of SARS-CoV-2 Testing: the University of Washington Medicine Experience. <b>2020</b> , 58,	10
1941	Detection of SARS-CoV-2 RNA by direct RT-qPCR on nasopharyngeal specimens without extraction of viral RNA. <b>2020</b> , 15, e0236564	37
1940	Mortality reduction in 46 severe Covid-19 patients treated with hyperimmune plasma. A proof of concept single arm multicenter trial. <b>2020</b> , 105, 2834-2840	81
1939	Identification of Novel Candidate Epitopes on SARS-CoV-2 Proteins for South America: A Review of HLA Frequencies by Country. <b>2020</b> , 11, 2008	12
1938	SARS-CoV-2 Virologic and Immunologic Correlates in Patients with Olfactory and Taste Disorders. <b>2020</b> , 8,	2
1937	Need for sustainable biobanking networks for COVID-19 and other diseases of epidemic potential. <b>2020</b> , 20, e268-e273	16
1936	Molecular Pathogenesis, Immunopathogenesis and Novel Therapeutic Strategy Against COVID-19. <b>2020</b> , 7, 196	32
1935	A Novel Multiplex qRT-PCR Assay to Detect SARS-CoV-2 Infection: High Sensitivity and Increased Testing Capacity. <b>2020</b> , 8,	26
1934	Genetic Diversity Among SARS-CoV2 Strains in South America may Impact Performance of Molecular Detection. <b>2020</b> , 9,	16

1933	Point-of-Use Rapid Detection of SARS-CoV-2: Nanotechnology-Enabled Solutions for the COVID-19 Pandemic. <b>2020</b> , 21,	61
1932	Detection of COVID-19: A review of the current literature and future perspectives. <b>2020</b> , 166, 112455	162
1931	Comparison of serologic and molecular SARS-CoV 2 results in a large cohort in Southern Tuscany demonstrates a role for serologic testing to increase diagnostic sensitivity. <b>2020</b> , 84, 87-92	11
1930	Epidemiological and clinical characteristics of coronavirus disease 2019 in Daegu, South Korea. <b>2020</b> , 98, 462-466	49
1929	Presence and infectivity of SARS-CoV-2 virus in wastewaters and rivers. <b>2020</b> , 744, 140911	250
1928	Evolution and epidemic spread of SARS-CoV-2 in Brazil. <b>2020</b> , 369, 1255-1260	277
1927	Discovery and Genomic Characterization of a 382-Nucleotide Deletion in ORF7b and ORF8 during the Early Evolution of SARS-CoV-2. <b>2020</b> , 11,	175
1926	CT Radiomics, Radiologists, and Clinical Information in Predicting Outcome of Patients with COVID-19 Pneumonia. <b>2020</b> , 2, e200322	31
1925	Functional Pangenome Analysis Shows Key Features of E Protein Are Preserved in SARS and SARS-CoV-2. <b>2020</b> , 10, 405	25
1924	Environment and COVID-19: Pollutants, impacts, dissemination, management and recommendations for facing future epidemic threats. <b>2020</b> , 747, 141314	61
1923	Respiratory disease in rhesus macaques inoculated with SARS-CoV-2. <b>2020</b> , 585, 268-272	437
1922	A colorimetric RT-LAMP assay and LAMP-sequencing for detecting SARS-CoV-2 RNA in clinical samples. <b>2020</b> , 12,	278
1921	Characterisation of the transcriptome and proteome of SARS-CoV-2 reveals a cell passage induced in-frame deletion of the furin-like cleavage site from the spike glycoprotein. <b>2020</b> , 12, 68	228
1920	Delayed Laboratory Response to COVID-19 Caused by Molecular Diagnostic Contamination. <b>2020</b> , 26, 1944-1946	28
1919	Head-to-Head Accuracy Comparison of Three Commercial COVID-19 IgM/IgG Serology Rapid Tests. <b>2020</b> , 9,	22
1918	A one-step, one-tube real-time RT-PCR based assay with an automated analysis for detection of SARS-CoV-2. <b>2020</b> , 6, e04405	21
1917	Infection of dogs with SARS-CoV-2. <b>2020</b> , 586, 776-778	359
1916	Differences in Antibody Kinetics and Functionality Between Severe and Mild Severe Acute Respiratory Syndrome Coronavirus 2 Infections. <b>2020</b> , 222, 1265-1269	82

1915	SARS-CoV-2 in fruit bats, ferrets, pigs, and chickens: an experimental transmission study. <b>2020</b> , 1, e218-e225	278
1914	Evaluating the newly developed BioFire COVID-19 test for SARS-CoV-2 molecular detection. <b>2020</b> , 26, 1699-1700	12
1913	Computed Tomography (CT) Imaging Features of Patients with COVID-19: Systematic Review and Meta-Analysis. <b>2020</b> , 2020, 1023506	20
1912	Clinical portrait of the SARS-CoV-2 epidemic in European cancer patients. <b>2020</b> ,	96
1911	Antibody response against SARS-CoV-2 spike protein and nucleoprotein evaluated by four automated immunoassays and three ELISAs. <b>2020</b> , 26, 1557.e1-1557.e7	80
1910	Multicenter comparison of the Cobas 6800 system with the RealStar RT-PCR kit for the detection of SARS-CoV-2. <b>2020</b> , 130, 104573	11
1909	Modeling tempo of COVID-19 pandemic in India and significance of lockdown. <b>2020</b> , 20, e2257	3
1908	Chest CT accuracy in diagnosing COVID-19 during the peak of the Italian epidemic: A retrospective correlation with RT-PCR testing and analysis of discordant cases. <b>2020</b> , 130, 109192	35
1907	Sensitivity of different RT-qPCR solutions for SARS-CoV-2 detection. <b>2020</b> , 99, 190-192	27
1906	Molecular and Immunological Diagnostic Tests of COVID-19: Current Status and Challenges. <b>2020</b> , 23, 101406	85
1905	Therapeutic plasma exchange in adult critically ill patients with life-threatening SARS-CoV-2 disease: A pilot study. <b>2020</b> , 60, 328-333	25
1904	The outbreak of the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): A review of the current global status. <b>2020</b> , 13, 1601-1610	60
1903	Investigating the potential antiviral activity drugs against SARS-CoV-2 by molecular docking simulation. <b>2020</b> , 318, 113968	9
1902	A reverse-transcription recombinase-aided amplification assay for the rapid detection of N gene of severe acute respiratory syndrome coronavirus 2(SARS-CoV-2). <b>2020</b> , 549, 1-4	13
1901	High intensities of population movement were associated with high incidence of COVID-19 during the pandemic. <b>2020</b> , 148, e177	4
1900	Clinical and Laboratory Diagnosis of SARS-CoV-2, the Virus Causing COVID-19. <b>2020</b> , 6, 2319-2336	27
1899	Development of a fully automated high throughput PCR for the detection of SARS-CoV-2: The need for speed. <b>2020</b> , 11, 964-967	4
1898	Diagnostic and Treatment Strategies for COVID-19. <b>2020</b> , 21, 222	17

1897	Approaches and advances in the development of potential therapeutic targets and antiviral agents for the management of SARS-CoV-2 infection. <b>2020</b> , 885, 173450	9
1896	Coronavirus disease - COVID-19: new perceptives towards epidemic to pandemic. <b>2020</b> , 28, 755-759	1
1895	Risk Assessment and Prevention of Severe Acute Respiratory Syndrome Coronavirus 2 Transmission for Hospitalized Urological Patients After the COVID-19 Pandemic in Wuhan, China. <b>2020</b> , 20, 20-27	
1894	Sewage analysis as a tool for the COVID-19 pandemic response and management: the urgent need for optimised protocols for SARS-CoV-2 detection and quantification. <b>2020</b> , 8, 104306	100
1893	Increased risk of SARS-CoV-2 infection in staff working across different care homes: enhanced CoVID-19 outbreak investigations in London care Homes. <b>2020</b> , 81, 621-624	41
1892	Vital corner of diagnostic challenge: eosinophilic granulomatosis with polyangiitis or COVID-19 pneumonia?. <b>2020</b> ,	2
1891	Association of Cardiac Infection With SARS-CoV-2 in Confirmed COVID-19 Autopsy Cases. <b>2020</b> , 5, 1281-1285	371
1890	Novel coronavirus and trauma surgery: successful infection control from a level I trauma centre. <b>2020</b> , 46, 737-741	
1889	Convalescent plasma for covid19 - How long should a donor be excluded from donation?. <b>2020</b> , 59, 102873	2
1888	Early Recognition of Coronavirus 2019 Disease (COVID-19) Infection in Surgical Inpatients: The Importance of a Risk-Stratified Approach for Early Testing and Isolation. <b>2020</b> , 21, 760-765	1
1887	Head-to-Head Comparison of Two SARS-CoV-2 Serology Assays. <b>2020</b> , 5, 1351-1357	22
1886	Saliva Sampling and Its Direct Lysis, an Excellent Option To Increase the Number of SARS-CoV-2 Diagnostic Tests in Settings with Supply Shortages. <b>2020</b> , 58,	36
1885	COVID-19 prevalence estimation by random sampling in population - optimal sample pooling under varying assumptions about true prevalence. <b>2020</b> , 20, 196	11
1884	"Tomorrow Never Dies": Recent Advances in Diagnosis, Treatment, and Prevention Modalities against Coronavirus (COVID-19) amid Controversies. <b>2020</b> , 8,	12
1883	Development and Evaluation of Novel and Highly Sensitive Single-Tube Nested Real-Time RT-PCR Assays for SARS-CoV-2 Detection. <b>2020</b> , 21,	12
1882	Comparative Analysis of Primer-Probe Sets for RT-qPCR of COVID-19 Causative Virus (SARS-CoV-2). <b>2020</b> , 6, 2513-2523	54
1881	Evaluation of Serological Tests for SARS-CoV-2: Implications for Serology Testing in a Low-Prevalence Setting. <b>2020</b> , 222, 1280-1288	42
1880	Unspecific post-mortem findings despite multiorgan viral spread in COVID-19 patients. <b>2020</b> , 24, 495	145

1879	Treatment of Coronavirus Disease 2019 Patients with Convalescent Plasma Reveals a Signal of Significantly Decreased Mortality. <b>2020</b> , 190, 2290-2303	144
1878	Potential diagnostics and therapeutic approaches in COVID-19. <b>2020</b> , 510, 488-497	25
1877	New loss of smell and taste: Uncommon symptoms in COVID-19 patients on Nord Franche-Comte cluster, France. <b>2020</b> , 100, 117-122	39
1876	Evaluating the efficacy of RT-qPCR SARS-CoV-2 direct approaches in comparison to RNA extraction. <b>2020</b> , 99, 352-354	14
1875	Exploring alternative swabs for use in SARS-CoV-2 detection from the oropharynx and anterior nares. <b>2020</b> , 285, 113948	11
1874	Mass-Spectrometric Detection of SARS-CoV-2 Virus in Scrapings of the Epithelium of the Nasopharynx of Infected Patients via Nucleocapsid N Protein. <b>2020</b> , 19, 4393-4397	59
1873	Neurological Manifestations of Severe SARS-CoV-2 Infection: Potential Mechanisms and Implications of Individualized Mechanical Ventilation Settings. <b>2020</b> , 11, 845	31
1872	SARS-CoV-2 RNA Extraction Using Magnetic Beads for Rapid Large-Scale Testing by RT-qPCR and RT-LAMP. <b>2020</b> , 12,	39
1871	Molecular diagnostic technologies for COVID-19: Limitations and challenges. <b>2020</b> , 26, 149-159	137
1870	All-fiber all-optical quantitative polymerase chain reaction (qPCR). <b>2020</b> , 323, 128681	13
1869	Development and evaluation of a Novel RT-PCR system for reliable and rapid SARS-CoV-2 screening of blood donations. <b>2020</b> , 60, 2952-2961	3
1868	SARS-CoV-2 on the ocular surface: is it truly a novel transmission route?. <b>2021</b> , 105, 1190-1195	19
1867	Severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) and coronavirus disease 19 (COVID-19) - anatomic pathology perspective on current knowledge. <b>2020</b> , 15, 103	60
1866	Impact of tocilizumab on mortality and/or invasive mechanical ventilation requirement in a cohort of 206 COVID-19 patients. <b>2020</b> , 99, 491-495	37
1865	COVID-19 in health-care workers in three hospitals in the south of the Netherlands: a cross-sectional study. <b>2020</b> , 20, 1273-1280	144
1864	Virus isolation of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) for diagnostic and research purposes. <b>2020</b> , 52, 760-763	10
1863	Inhaled Corticosteroids and COVID-19 Risk and Mortality: A Nationwide Cohort Study. <b>2020</b> , 9,	22
1862	Serological tests for COVID-19. <b>2020</b> , 213, 397-399.e1	6

1861	Early experience with universal preoperative and pre-procedural screening for COVID-19 in low-risk pediatric surgical patients requiring general anesthesia. <b>2020</b> , 36, 1407-1411	8
1860	Performance of a qualitative rapid chromatographic immunoassay to diagnose COVID-19 in patients in a middle-income country. <b>2020</b> , 131, 104592	4
1859	Ensemble learning model for diagnosing COVID-19 from routine blood tests. <b>2020</b> , 21, 100449	37
1858	Brief comparative evaluation of six open one-step RT-qPCR mastermixes for the detection of SARS-CoV-2 RNA using a Taqman probe. <b>2020</b> , 132, 104636	3
1857	Clinical evaluation of SARS-CoV-2 point-of-care antibody tests. <b>2020</b> , 52, 783-789	5
1856	Perspective on Proteomics for Virus Detection in Clinical Samples. <b>2020</b> , 19, 4380-4388	15
1855	A SARS-CoV-2 variant with the 12-bp deletion at E gene. <b>2020</b> , 9, 2361-2367	7
1854	SARS-CoV-2 Detection on Bronchoalveolar Lavage: An Italian Multicenter experience. <b>2020</b> , 99, 970-978	26
1853	Design of 3D-Printed Nasopharyngeal Swabs for Children is Enabled by Radiologic Imaging. <b>2020</b> , 41, 2345-2347	6
1852	SARS-CoV-2 Viral Load, IFN $\gamma$ Polymorphisms and the Course of COVID-19: An Observational Study. <b>2020</b> , 9,	21
1851	The Neutrophil-to-Monocyte Ratio and Lymphocyte-to-Neutrophil Ratio at Admission Predict In-Hospital Mortality in Mexican Patients with Severe SARS-CoV-2 Infection (Covid-19). <b>2020</b> , 8,	22
1850	Clinical evaluation of four commercial immunoassays for the detection of antibodies against established SARS-CoV-2 infection. <b>2020</b> , 52, 778-782	10
1849	Making waves: Wastewater-based epidemiology for COVID-19 - approaches and challenges for surveillance and prediction. <b>2020</b> , 186, 116404	125
1848	SARS-CoV-2 infection in London, England: changes to community point prevalence around lockdown time, March-May 2020. <b>2021</b> , 75, 185-188	13
1847	The First-Three-Month Review of Research on Covid-19: A Scientometrics Analysis. <b>2020</b> ,	3
1846	Characteristics of recovered COVID-19 patients with recurrent positive RT-PCR findings in Wuhan, China: a retrospective study. <b>2020</b> , 20, 749	8
1845	Nucleic Acid and Immunological Diagnostics for SARS-CoV-2: Processes, Platforms and Pitfalls. <b>2020</b> , 10,	15
1844	Disease burden and clinical severity of the first pandemic wave of COVID-19 in Wuhan, China. <b>2020</b> , 11, 5411	51

1843	End-to-End Protocol for the Detection of SARS-CoV-2 from Built Environments. <b>2020</b> , 5,	11
1842	Recent Advances in Pathophysiology, Drug Development and Future Perspectives of SARS-CoV-2. <b>2020</b> , 8, 580202	19
1841	Contribution of VitaPCR SARS-CoV-2 to the emergency diagnosis of COVID-19. <b>2020</b> , 133, 104682	16
1840	Viral load of SARS-CoV-2 across patients and compared to other respiratory viruses. <b>2020</b> , 22, 617-621	92
1839	Glycopeptides as Potential Interventions for COVID-19. <b>2020</b> , 14, 107-114	3
1838	[Risk stratification of emergencies during the COVID-19 pandemic within the emergency department]. <b>2020</b> , 115, 123-131	
1837	High-Density Amplicon Sequencing Identifies Community Spread and Ongoing Evolution of SARS-CoV-2 in the Southern United States. <b>2020</b> , 33, 108352	23
1836	Early epidemiological indicators, outcomes, and interventions of COVID-19 pandemic: A systematic review. <b>2020</b> , 10, 020506	20
1835	Isolation and characterization of an early SARS-CoV-2 isolate from the 2020 epidemic in Medellín, Colombia. <b>2020</b> , 40, 148-158	8
1834	Roadmap to the Bioanalytical Testing of COVID-19: From Sample Collection to Disease Surveillance. <b>2020</b> , 5, 3328-3345	22
1833	Stopping the COVID-19 Pandemic: A Review on the Advances of Diagnosis, Treatment, and Control Measures. <b>2020</b> , 2020, 9121429	10
1832	High resolution computed tomography for the diagnosis of 2019 novel coronavirus (2019-nCoV) pneumonia: a study from multiple medical centers in western China. <b>2020</b> , 8, 1158	3
1831	COVID-19 infection prevalence in pediatric population: Etiology, clinical presentation, and outcome. <b>2020</b> , 13, 1791-1796	18
1830	Quantification of antibody avidities and accurate detection of SARS-CoV-2 antibodies in serum and saliva on plasmonic substrates. <b>2020</b> , 4, 1188-1196	40
1829	Assessment of the direct quantitation of SARS-CoV-2 by droplet digital PCR. <b>2020</b> , 10, 18764	28
1828	Building the National SARS-CoV-2 Laboratory Diagnostic Capacity in Taiwan. <b>2020</b> ,	6
1827	Frequency and Duration of SARS-CoV-2 Shedding in Oral Fluid Samples Assessed by a Modified Commercial Rapid Molecular Assay. <b>2020</b> , 12,	10
1826	Proinflammatory cytokines are associated with prolonged viral RNA shedding in COVID-19 patients. <b>2020</b> , 221, 108611	4



1825	Viral Dynamics and Immune Correlates of Coronavirus Disease 2019 (COVID-19) Severity. <b>2021</b> , 73, e2932-e2948	48
1824	Severe Acute Respiratory Syndrome Coronavirus 2 RNA in Serum as Predictor of Severe Outcome in Coronavirus Disease 2019: A Retrospective Cohort Study. <b>2021</b> , 73, e2995-e3001	40
1823	A High-Throughput Assay for Circulating Antibodies Directed Against the S Protein of Severe Acute Respiratory Syndrome Coronavirus 2. <b>2020</b> , 222, 1629-1634	17
1822	Diabetes mellitus is a risk factor for prolonged SARS-CoV-2 viral shedding in lower respiratory tract samples of critically ill patients. <b>2020</b> , 70, 454-460	14
1821	A prospective clinical pilot study on the effects of a hydrogen peroxide mouthrinse on the intraoral viral load of SARS-CoV-2. <b>2020</b> , 24, 3707-3713	35
1820	Outbreak of Coronavirus Disease 2019 (COVID-19) in a Nursing Home Associated With Aerosol Transmission as a Result of Inadequate Ventilation. <b>2021</b> , 73, 170-171	30
1819	Viral Load Dynamics in Sputum and Nasopharyngeal Swab in Patients with COVID-19. <b>2020</b> , 99, 1239-1244	20
1818	Evaluation of bacterial co-infections of the respiratory tract in COVID-19 patients admitted to ICU. <b>2020</b> , 20, 646	126
1817	The Resilient Child: Sex-Steroid Hormones and COVID-19 Incidence in Pediatric Patients. <b>2020</b> , 4, bvaa106	9
1816	Current perspective on diagnosis, epidemiological assessment, prevention strategies, and potential therapeutic interventions for severe acute respiratory infections caused by 2019 novel coronavirus (SARS-CoV-2). <b>2020</b> , 16, 3001-3010	5
1815	SARS-CoV-2 seroprevalence in oncology healthcare professionals and patients with cancer at a tertiary care centre during the COVID-19 pandemic. <b>2020</b> , 5, e000889	24
1814	A guide to laboratory diagnosis of Corona Virus Disease-19 for the gastroenterologists. <b>2020</b> , 39, 236-242	10
1813	Recommendations for prenatal, intrapartum, and postpartum care during COVID-19 pandemic in India. <b>2020</b> , 84, e13336	3
1812	Absence of SARS-CoV-2 in the effluent of peritoneal dialysis patients. <b>2020</b> , 40, 499-503	8
1811	Potential Diagnostic Systems for Coronavirus Detection: a Critical Review. <b>2020</b> , 22, 21	9
1810	Expansion of SARS-CoV-2-Specific Antibody-Secreting Cells and Generation of Neutralizing Antibodies in Hospitalized COVID-19 Patients. <b>2020</b> , 205, 2437-2446	48
1809	Affine analysis for quantitative PCR measurements. <b>2020</b> , 412, 7977-7988	2
1808	SARS-CoV-2 Translocate from Nasopharyngeal to Bronchoalveolar Site: A Case Presentation. <b>2020</b> , 3, 23	4

1807	MeCas12a, a Highly Sensitive and Specific System for COVID-19 Detection. <b>2020</b> , 7, 2001300	45
1806	Facility-Level Case Report of Nursing Care Processes for Patients With Suspected 2019 Novel Coronavirus Disease in Shanghai, China. <b>2020</b> , 46, 898-906	2
1805	Main Routes of Entry and Genomic Diversity of SARS-CoV-2, Uganda. <b>2020</b> , 26, 2411-2415	13
1804	Fatal lymphocytic cardiac damage in coronavirus disease 2019 (COVID-19): autopsy reveals a ferroptosis signature. <b>2020</b> , 7, 3772	38
1803	Saliva is a reliable, non-invasive specimen for SARS-CoV-2 detection. <b>2020</b> , 24, 422-427	53
1802	Human B Cell Clonal Expansion and Convergent Antibody Responses to SARS-CoV-2. <b>2020</b> , 28, 516-525.e5	121
1801	Mutations on COVID-19 diagnostic targets. <b>2020</b> , 112, 5204-5213	93
1800	Rapid Determination of SARS-CoV-2 antibodies using a bedside, point-of-Care, serological test. <b>2020</b> , 9, 2212-2221	8
1799	Joint Detection of Serum IgM/IgG Antibody Is an Important Key to Clinical Diagnosis of SARS-CoV-2 Infection. <b>2020</b> , 2020, 1020843	4
1798	Assessing a novel, lab-free, point-of-care test for SARS-CoV-2 (CovidNudge): a diagnostic accuracy study. <b>2020</b> , 1, e300-e307	53
1797	COVID-19 and Pregnancy: A Review. <b>2020</b> , 56, 183-188	1
1796	Multicenter evaluation of two chemiluminescence and three lateral flow immunoassays for the diagnosis of COVID-19 and assessment of antibody dynamic responses to SARS-CoV-2 in Taiwan. <b>2020</b> , 9, 2157-2168	28
1795	COVID-19 patients exhibit reduced procoagulant platelet responses. <b>2020</b> , 18, 3067-3073	31
1794	Etablierung der PCR-basierten SARS-CoV-2-Testung im Hochdurchsatz. <b>2020</b> , 26, 500-503	
1793	Sensitive fluorescence detection of SARS-CoV-2 RNA in clinical samples via one-pot isothermal ligation and transcription. <b>2020</b> , 4, 1168-1179	67
1792	Systemic complement activation is associated with respiratory failure in COVID-19 hospitalized patients. <b>2020</b> , 117, 25018-25025	148
1791	Detection of SARS-CoV-2 in a cat owned by a COVID-19-affected patient in Spain. <b>2020</b> , 117, 24790-24793	94
1790	Epidemiological and Clinical Findings of Short-Term Recurrence of Severe Acute Respiratory Syndrome Coronavirus 2 Ribonucleic Acid Polymerase Chain Reaction Positivity in 1282 Discharged Coronavirus Disease 2019 Cases: A Multicenter, Retrospective, Observational Study. <b>2020</b> , 7, ofaa432	11

1789	Applying Nanomaterials to Modern Biomedical Electrochemical Detection of Metabolites, Electrolytes, and Pathogens. <b>2020</b> , 8, 71	13
1788	Free fatty acid binding pocket in the locked structure of SARS-CoV-2 spike protein. <b>2020</b> , 370, 725-730	182
1787	Analysis of the Virus Contamination and Disinfection Effect in Isolation Ward of Patients With COVID-19. <b>2020</b> , 8, 486	6
1786	Environmental contamination in the isolation rooms of COVID-19 patients with severe pneumonia requiring mechanical ventilation or high-flow oxygen therapy. <b>2020</b> , 106, 570-576	48
1785	A Pediatric Infectious Diseases Perspective of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Novel Coronavirus Disease 2019 (COVID-19) in Children. <b>2020</b> , 9, 596-608	18
1784	SARS-CoV-2 Detection for Diagnosis Purposes in the Setting of a Molecular Biology Research Lab. <b>2020</b> , 3,	5
1783	Nanoparticle-Based Strategies to Combat COVID-19. <b>2020</b> , 3, 8557-8580	90
1782	The diagnostic methods in the COVID-19 pandemic, today and in the future. <b>2020</b> , 20, 985-993	20
1781	Syncope and presyncope in patients with COVID-19. <b>2020</b> , 43, 1139-1148	13
1780	Understanding the epidemiology, pathophysiology, diagnosis and management of SARS-CoV-2. <b>2020</b> , 48, 300060520949077	14
1779	Advances in Viral Diagnostic Technologies for Combating COVID-19 and Future Pandemics. <b>2020</b> , 25, 513-521	8
1778	Reverse takotsubo cardiomyopathy in fulminant COVID-19 associated with cytokine release syndrome and resolution following therapeutic plasma exchange: a case-report. <b>2020</b> , 20, 389	21
1777	Difference in Biomarkers Between COVID-19 Patients and Other Pulmonary Infection Patients. <b>2020</b> , 13, 2609-2615	3
1776	Accelerating genomics-based surveillance for COVID-19 response in Africa. <b>2020</b> , 1, e227-e228	13
1775	Exhaled respiratory particles during singing and talking. <b>2020</b> , 54, 1245-1248	80
1774	Oncological care organisation during COVID-19 outbreak. <b>2020</b> , 5,	18
1773	A novel strategy for community screening of SARS-CoV-2 (COVID-19): Sample pooling method. <b>2020</b> , 15, e0238417	28
1772	Development and evaluation of a rapid CRISPR-based diagnostic for COVID-19. <b>2020</b> , 16, e1008705	93

1771	COVID-19 (Coronavirus Disease 2019): A New Coronavirus Disease. <b>2020</b> , 13, 2819-2828	10
1770	Clinical Characteristics and Prognosis of 218 Patients With COVID-19: A Retrospective Study Based on Clinical Classification. <b>2020</b> , 7, 485	14
1769	Presence of mismatches between diagnostic PCR assays and coronavirus SARS-CoV-2 genome. <b>2020</b> , 7, 200636	65
1768	COVID-19 during pregnancy: non-reassuring fetal heart rate, placental pathology and coagulopathy. <b>2020</b> , 56, 773-776	23
1767	Exploration of turn-positive RT-PCR results and factors related to treatment outcome in COVID-19: A retrospective cohort study. <b>2020</b> , 11, 1250-1256	7
1766	Antiviral Activity of Type I, II, and III Interferons Counterbalances ACE2 Inducibility and Restricts SARS-CoV-2. <b>2020</b> , 11,	81
1765	Bibliometric Analysis on COVID-19: A Comparison of Research Between English and Chinese Studies. <b>2020</b> , 8, 477	38
1764	Healthcare-Associated SARS-CoV-2 Transmission-Experiences from a German University Hospital. <b>2020</b> , 8,	11
1763	Nanotechnology-Based Approaches for the Detection of SARS-CoV-2. <b>2020</b> , 2,	13
1762	Assessing Viral Shedding and Infectivity of Asymptomatic or Mildly Symptomatic Patients with COVID-19 in a Later Phase. <b>2020</b> , 9,	29
1761	A rapid and sensitive method to detect SARS-CoV-2 virus using targeted-mass spectrometry. <b>2020</b> , 11, 1-7	26
1760	Computational Immune Proteomics Approach to Target COVID-19. <b>2020</b> , 19, 4233-4241	12
1759	Quantification of mRNA Expression Using Single-Molecule Nanopore Sensing. <b>2020</b> , 14, 13964-13974	15
1758	Screening for SARS-CoV-2 antibodies in convalescent plasma in Brazil: Preliminary lessons from a voluntary convalescent donor program. <b>2020</b> , 60, 2938-2951	36
1757	Retrospective Description of Pregnant Women Infected with Severe Acute Respiratory Syndrome Coronavirus 2, France. <b>2020</b> , 26, 2069-2076	23
1756	Evaluation of performance of two SARS-CoV-2 Rapid IgM-IgG combined antibody tests on capillary whole blood samples from the fingertip. <b>2020</b> , 15, e0237694	22
1755	The New Coronavirus COVID-19 Infection. <b>2020</b> , 35, 53-60	3
1754	Autism and COVID-19: A Case Series in a Neurodevelopmental Unit. <b>2020</b> , 9,	11

1753	Sample pooling for SARS-CoV-2 RT-PCR screening. <b>2020</b> , 26, 1687.e1-1687.e5	23
1752	Saliva Is Not a Useful Diagnostic Specimen in Children With Coronavirus Disease 2019 (COVID-19). <b>2021</b> , 73, e3144-e3145	13
1751	Clinical impact of COVID-19 in a single-center cohort of a prospective study in cancer patients receiving immunotherapy. <b>2020</b> , 12, 1139-1148	6
1750	The Epistemology of a Positive SARS-CoV-2 Test. <b>2021</b> , 69, 359-375	1
1749	Investigation of compatibility of severe acute respiratory syndrome coronavirus 2 reverse transcriptase-PCR kits containing different gene targets during coronavirus disease 2019 pandemic. <b>2020</b> , 15, 515-524	1
1748	Serum SARS-COV-2 Nucleocapsid Protein: A Sensitivity and Specificity Early Diagnostic Marker for SARS-COV-2 Infection. <b>2020</b> , 10, 470	30
1747	Duration of COVID-19: Data from an Italian Cohort and Potential Role for Steroids. <b>2020</b> , 8,	9
1746	Analysis of Inactivation of SARS-CoV-2 by Specimen Transport Media, Nucleic Acid Extraction Reagents, Detergents, and Fixatives. <b>2020</b> , 58,	62
1745	Evaluation of Four Commercial Kits for SARS-CoV-2 Real-Time Reverse-Transcription Polymerase Chain Reaction Approved by Emergency-Use-Authorization in Korea. <b>2020</b> , 7, 521	28
1744	New and developing diagnostic platforms for COVID-19: A systematic review. <b>2020</b> , 20, 971-983	7
1743	How can nanotechnology help to combat COVID-19? Opportunities and urgent need. <b>2020</b> , 18, 125	91
1742	Compartmentalized Replication of SARS-Cov-2 in Upper vs. Lower Respiratory Tract Assessed by Whole Genome Quasispecies Analysis. <b>2020</b> , 8,	26
1741	Prospects for SARS-CoV-2 diagnostics, therapeutics and vaccines in Africa. <b>2020</b> , 18, 690-704	23
1740	Molecular and Immunological Diagnostic Techniques of Medical Viruses. <b>2020</b> , 2020, 8832728	15
1739	Sensitivity, Specificity and Predictive Values of Molecular and Serological Tests for COVID-19: A Longitudinal Study in Emergency Room. <b>2020</b> , 10,	18
1738	The New Coronavirus (SARS-CoV-2): A Comprehensive Review on Immunity and the Application of Bioinformatics and Molecular Modeling to the Discovery of Potential Anti-SARS-CoV-2 Agents. <b>2020</b> , 25,	4
1737	Pan-Echinocandin-Resistant Bloodstream Infection Complicating COVID-19: A Fatal Case Report. <b>2020</b> , 6,	29
1736	Virological Characterization of the First 2 COVID-19 Patients Diagnosed in Italy: Phylogenetic Analysis, Virus Shedding Profile From Different Body Sites, and Antibody Response Kinetics. <b>2020</b> , 7, ofaa403	9

1735	COVID-19 Pandemic: from Molecular Biology, Pathogenesis, Detection, and Treatment to Global Societal Impact. <b>2020</b> , 6, 1-16	21
1734	Capacity Evaluation of Diagnostic Tests For COVID-19 Using Multicriteria Decision-Making Techniques. <b>2020</b> , 2020, 1560250	10
1733	First follow-up of art pregnancies in the context of the COVID-19 outbreak. <b>2020</b> , 253, 71-75	4
1732	Diagnostic performance of chest CT in screening patients with suspected COVID-19 infection in a Western population. <b>2020</b> , 93, 20200643	6
1731	Swabbing Thoroughly People for COVID-19 Positivity. Insights on the Main Bio-analytical and Microbiology Bias and Concerns. <b>2020</b> , 77, 3680-3684	1
1730	Evaluation of three immunochromatographic tests for rapid detection of antibodies against SARS-CoV-2. <b>2020</b> , 39, 2289-2297	13
1729	SARS-CoV-2 in cardiac tissue of a child with COVID-19-related multisystem inflammatory syndrome. <b>2020</b> , 4, 790-794	119
1728	Histopathological findings and viral tropism in UK patients with severe fatal COVID-19: a post-mortem study. <b>2020</b> , 1, e245-e253	270
1727	Comparison of automated SARS-CoV-2 antigen test for COVID-19 infection with quantitative RT-PCR using 313 nasopharyngeal swabs, including from seven serially followed patients. <b>2020</b> , 99, 397-402	135
1726	Rehabilitation of patients with COVID-19. <b>2020</b> , 14, 1249-1256	19
1725	Potential Antigenic Cross-reactivity Between Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Dengue Viruses. <b>2021</b> , 73, e2444-e2449	73
1724	Anosmia in the course of COVID-19: A case report. <b>2020</b> , 99, e21280	4
1723	A comparison of four serological assays for detecting anti-SARS-CoV-2 antibodies in human serum samples from different populations. <b>2020</b> , 12,	143
1722	China's practice to prevent and control COVID-19 in the context of large population movement. <b>2020</b> , 9, 115	29
1721	Isolation, Sequence, Infectivity, and Replication Kinetics of Severe Acute Respiratory Syndrome Coronavirus 2. <b>2020</b> , 26, 2054-2063	63
1720	Children in Coronaviruses' Wonderland: What Clinicians Need to Know. <b>2020</b> , 12, e2020042	6
1719	Development of a Laboratory-safe and Low-cost Detection Protocol for SARS-CoV-2 of the Coronavirus Disease 2019 (COVID-19). <b>2020</b> , 29, 107-119	119
1718	Pharmacological treatments of COVID-19. <b>2020</b> , 72, 1446-1478	16

1717	COVID-19-associated hyperinflammation and escalation of patient care: a retrospective longitudinal cohort study. <b>2020</b> , 2, e594-e602	141
1716	Nucleic Acid Testing for Coronavirus Disease 2019: Demand, Research Progression, and Perspective. <b>2020</b> , 1-12	14
1715	Separating the wheat from the chaff-COVID-19 in a German emergency department: a case-control study. <b>2020</b> , 13, 44	12
1714	COVID-19 diagnostic testing: Technology perspective. <b>2020</b> , 10, e158	38
1713	Epidemiological and clinical characteristics of SARS-CoV-2 infections at a testing site in Berlin, Germany, March and April 2020-a cross-sectional study. <b>2020</b> , 26, 1685.e7-1685.e12	22
1712	Probable Vertical Transmission of SARS-CoV-2 Infection. <b>2020</b> , 39, e257-e260	22
1711	SARS-CoV-2 Is Present in Peritoneal Fluid in COVID-19 Patients. <b>2020</b> , 272, e240-e242	88
1710	Identifying the effects of an upgraded 'fever clinic' on COVID-19 control and the workload of emergency department: retrospective study in a tertiary hospital in China. <b>2020</b> , 10, e039177	12
1709	Effect of Environmental Conditions on SARS-CoV-2 Stability in Human Nasal Mucus and Sputum. <b>2020</b> , 26,	90
1708	Direct-RT-qPCR Detection of SARS-CoV-2 without RNA Extraction as Part of a COVID-19 Testing Strategy: From Sample to Result in One Hour. <b>2020</b> , 10,	21
1707	Transmission of infection from non-isolated patients with COVID-19 to healthcare workers. <b>2020</b> , 106, 639-642	7
1706	Analytical and Clinical Evaluation of the Automated Elecsys Anti-SARS-CoV-2 Antibody Assay on the Roche cobas e602 Analyzer. <b>2020</b> , 154, 620-626	21
1705	Detection of the SARS-CoV-2 in different biologic specimens from positive patients with COVID-19, in Northern Italy. <b>2020</b> , 31, 72-74	3
1704	Identification of a Polymorphism in the N Gene of SARS-CoV-2 That Adversely Impacts Detection by Reverse Transcription-PCR. <b>2020</b> , 59,	35
1703	Environmental contamination related to SARS-CoV-2 in ICU patients. <b>2020</b> , 6,	7
1702	Optimising the pool test method for COVID-19 using evolutionary algorithms. <b>2020</b> ,	
1701	Study of Clinical and Biological Characteristics of Moroccan Covid-19 Patients With and Without Olfactory and/or Gustatory Dysfunction. <b>2020</b> , 11, 595005	3
1700	Paediatric inflammatory multisystem syndrome temporally associated with COVID-19: a new virus and a new case presentation. <b>2020</b> , 13,	1

1699	Does respiratory co-infection facilitate dispersal of SARS-CoV-2? investigation of a super-spreading event in an open-space office. <b>2020</b> , 9, 191	11
1698	Sensitivity and specificity of 14 SARS-CoV-2 serological assays and their diagnostic potential in RT-PCR negative COVID-19 infections. <b>2020</b> , 1-6	4
1697	A Streamlined Approach to Rapidly Detect SARS-CoV-2 Infection Avoiding RNA Extraction: Workflow Validation. <b>2020</b> , 2020, 8869424	18
1696	Improving Detection Efficiency of SARS-CoV-2 Nucleic Acid Testing. <b>2020</b> , 10, 558472	2
1695	Factors Associated with the Delayed Termination of Viral Shedding in COVID-19 Patients with Mild Severity in South Korea. <b>2020</b> , 56,	5
1694	Rapid and sensitive detection of SARS-CoV-2 antibodies by biolayer interferometry. <b>2020</b> , 10, 21738	24
1693	Persisting Neutralizing Activity to SARS-CoV-2 over Months in Sera of COVID-19 Patients. <b>2020</b> , 12,	11
1692	The Importance of Biobanking for Response to Pandemics Caused by Emerging Viruses: The European Virus Archive As an Observatory of the Global Response to the Zika Virus and COVID-19 Crisis. <b>2020</b> , 18, 561-569	5
1691	Home Management of Children With COVID-19 in the Emilia-Romagna Region, Italy. <b>2020</b> , 8, 575290	6
1690	Multiple Introductions Followed by Ongoing Community Spread of SARS-CoV-2 at One of the Largest Metropolitan Areas of Northeast Brazil. <b>2020</b> , 12,	31
1689	High prevalence of SARS-CoV-2 infection among symptomatic healthcare workers in a large university tertiary hospital in São Paulo, Brazil. <b>2020</b> , 20, 917	17
1688	Detection of SARS-CoV-2 pneumonia: two case reports. <b>2020</b> , 14, 242	1
1687	A Potent SARS-CoV-2 Neutralizing Human Monoclonal Antibody That Reduces Viral Burden and Disease Severity in Syrian Hamsters. <b>2020</b> , 11, 614256	25
1686	Next-Generation Molecular Diagnostics Development by CRISPR/Cas Tool: Rapid Detection and Surveillance of Viral Disease Outbreaks. <b>2020</b> , 7, 582499	11
1685	Evaluation of the diagnostic accuracy of a new point-of-care rapid test for SARS-CoV-2 virus detection. <b>2020</b> , 18, 488	2
1684	Efficient SARS-CoV-2 detection in unextracted oro-nasopharyngeal specimens by rRT-PCR with the Seegene Allplex <sup>®</sup> 2019-nCoV assay. <b>2020</b> , 17, 196	9
1683	Symptomatic Severe Acute Respiratory Syndrome Coronavirus 2 Reinfection of a Healthcare Worker in a Belgian Nosocomial Outbreak Despite Primary Neutralizing Antibody Response. <b>2021</b> , 73, e2985-e2991	47
1682	The Roborovski Dwarf Hamster Is A Highly Susceptible Model for a Rapid and Fatal Course of SARS-CoV-2 Infection. <b>2020</b> , 33, 108488	40



1681	Assessing oligonucleotide designs from early lab developed PCR diagnostic tests for SARS-CoV-2 using the PCR_strainer pipeline. <b>2020</b> , 131, 104581	10
1680	SARS-CoV-2 sample-to-answer nucleic acid testing in a tertiary care emergency department: evaluation and utility. <b>2020</b> , 131, 104614	11
1679	Effect of a strict hygiene bundle for the prevention of nosocomial transmission of SARS-CoV-2 in the hospital: a practical approach from the field. <b>2020</b> , 13, 1862-1867	9
1678	Universal admission screening strategy for COVID-19 highlighted the clinical importance of reporting SARS-CoV-2 viral loads. <b>2020</b> , 38, 100820	16
1677	Sample pooling is a viable strategy for SARS-CoV-2 detection in low-prevalence settings. <b>2020</b> , 52, 796-800	15
1676	The impact of viral transport media on PCR assay results for the detection of nucleic acid from SARS-CoV-2. <b>2020</b> , 52, 811-814	17
1675	Evaluating intervention strategies in controlling coronavirus disease 2019 (COVID-19) spread in care homes: An agent-based model. <b>2021</b> , 42, 1060-1070	14
1674	Defining the Syrian hamster as a highly susceptible preclinical model for SARS-CoV-2 infection. <b>2020</b> , 9, 2673-2684	91
1673	Insidious development of pulmonary embolism in asymptomatic patients with COVID-19: Two rare case-reports. <b>2020</b> , 31, 101186	10
1672	Pooling RT-qPCR testing for SARS-CoV-2 in 1000 individuals of healthy and infection-suspected patients. <b>2020</b> , 10, 18899	27
1671	Source and symptoms of COVID-19 among hospital workers in Milan. <b>2020</b> , 70, 672-679	14
1670	Defining the features and duration of antibody responses to SARS-CoV-2 infection associated with disease severity and outcome. <b>2020</b> , 5,	230
1669	Fighting Strategies Against the Novel Coronavirus Pandemic: Impact on Global Economy. <b>2020</b> , 8, 606129	10
1668	IMU-838, a Developmental DHODH Inhibitor in Phase II for Autoimmune Disease, Shows Anti-SARS-CoV-2 and Broad-Spectrum Antiviral Efficacy In Vitro. <b>2020</b> , 12,	23
1667	Recent updates on COVID-19: A holistic review. <b>2020</b> , 6, e05706	12
1666	Electric field-driven microfluidics for rapid CRISPR-based diagnostics and its application to detection of SARS-CoV-2. <b>2020</b> , 117, 29518-29525	99
1665	Severe Acute Respiratory Syndrome Coronavirus 2 Infections Among Children in the Biospecimens from Respiratory Virus-Exposed Kids (BRAVE Kids) Study. <b>2021</b> , 73, e2875-e2882	34
1664	Modeling and analysis of COVID-19 epidemics with treatment in fractional derivatives using real data from Pakistan. <b>2020</b> , 135, 795	116

1663	Implementation of the Radiological Society of North America Expert Consensus Guidelines on Reporting Chest CT Findings Related to COVID-19: A Multireader Performance Study. <b>2020</b> , 2, e200276	11
1662	Combinations of PCR and Isothermal Amplification Techniques Are Suitable for Fast and Sensitive Detection of SARS-CoV-2 Viral RNA. <b>2020</b> , 8, 604793	7
1661	Virological and Serological Discordant Profiles in COVID-19 Pneumonia: Two Atypical Clinical Cases. <b>2020</b> , 11, 580867	3
1660	Emerging Molecular Prospective of SARS-CoV-2: Feasible Nanotechnology Based Detection and Inhibition. <b>2020</b> , 11, 2098	5
1659	Low Seroprevalence of SARS-CoV-2 Antibodies during Systematic Antibody Screening and Serum Responses in Patients after COVID-19 in a German Transplant Center. <b>2020</b> , 9,	9
1658	Clinical value of procalcitonin in critically ill patients infected by SARS-CoV-2. <b>2021</b> , 46, 525-531	3
1657	Nanotechnology-based promising strategies for the management of COVID-19: current development and constraints. <b>2020</b> , 1-10	17
1656	Painless thyroiditis in SARS-CoV-2 infection. <b>2020</b> , 68, 757-757	1
1655	SARS-CoV-2 exhibits intra-host genomic plasticity and low-frequency polymorphic quasispecies. <b>2020</b> , 131, 104585	53
1654	Correlation Between Low-Dose Chest Computed Tomography and RT-PCR Results for the Diagnosis of COVID-19: A Report of 27,824 Cases in Tehran, Iran. <b>2021</b> , 28, 1654-1661	6
1653	CXCL10 could drive longer duration of mechanical ventilation during COVID-19 ARDS. <b>2020</b> , 24, 632	38
1652	Coronavirus (SARS-CoV-2) Pandemic: Future Challenges for Dental Practitioners. <b>2020</b> , 8,	26
1651	Case Study: Prolonged Infectious SARS-CoV-2 Shedding from an Asymptomatic Immunocompromised Individual with Cancer. <b>2020</b> , 183, 1901-1912.e9	344
1650	Laboratory diagnosis of novel corona virus (2019-nCoV)-present and the future. <b>2020</b> , 67, S128-S131	4
1649	. <b>2020</b> , 192, E1334-E1335	
1648	Pro- and Anti-Inflammatory Responses in Severe COVID-19-Induced Acute Respiratory Distress Syndrome-An Observational Pilot Study. <b>2020</b> , 11, 581338	32
1647	Clinical usefulness of tomographic standards for COVID-19 pneumonia diagnosis: Experience from a Brazilian reference center. <b>2020</b> , 24, 524-533	6
1646	Immunotherapeutics for Covid-19 and post vaccination surveillance. <b>2020</b> , 10, 527	11

1645	Chest CT findings in patients with coronavirus disease 2019 (COVID-19): a comprehensive review. <b>2021</b> , 27, 621-632	5
1644	[Biological diagnosis of Sars-CoV-2 infection: strategies and interpretation of results]. <b>2020</b> , 2020, 48-56	2
1643	A Time Frame for Testing Negative for SARS-COV2 in People with Obesity. <b>2020</b> , 13, 528-533	5
1642	Intensive diagnostic management of coronavirus disease 2019 (COVID-19) in academic settings in Japan: challenge and future. <b>2020</b> , 40, 38	2
1641	Longitudinal Change of Severe Acute Respiratory Syndrome Coronavirus 2 Antibodies in Patients with Coronavirus Disease 2019. <b>2020</b> , 222, 183-188	91
1640	The first, holistic immunological model of COVID-19: Implications for prevention, diagnosis, and public health measures. <b>2020</b> , 31, 454-470	111
1639	SARS-CoV-2 infection associated with spontaneous pneumothorax. <b>2020</b> , 192, E510	25
1638	[Viral detection and serological response in critically ill patients with SARS-CoV-2. Implications for isolation withdrawal]. <b>2020</b> , 44, 586-588	1
1637	SARS-CoV-2 was already spreading in France in late December 2019. <b>2020</b> , 55, 106006	144
1636	A single centre study of viral community-acquired pneumonia in children: No evidence of SARS-CoV-2 from October 2019 to March 2020. <b>2020</b> , 128, 104385	3
1635	SARS-CoV-2 asymptomatic and symptomatic patients and risk for transfusion transmission. <b>2020</b> , 60, 1119-1122	65
1634	An 81-Nucleotide Deletion in SARS-CoV-2 ORF7a Identified from Sentinel Surveillance in Arizona (January to March 2020). <b>2020</b> , 94,	91
1633	New Insights of Emerging SARS-CoV-2: Epidemiology, Etiology, Clinical Features, Clinical Treatment, and Prevention. <b>2020</b> , 8, 410	70
1632	Radiological approach to COVID-19 pneumonia with an emphasis on chest CT. <b>2020</b> , 26, 323-332	32
1631	Trends and Innovations in Biosensors for COVID-19 Mass Testing. <b>2020</b> , 21, 2880-2889	74
1630	SARS-CoV-2 can induce brain and spine demyelinating lesions. <b>2020</b> , 162, 1491-1494	209
1629	Diagnostic Tools for Coronavirus Disease (COVID-19): Comparing CT and RT-PCR Viral Nucleic Acid Testing. <b>2020</b> , 215, 834-838	63
1628	Research on the urban resilience evaluation with hybrid multiple attribute TOPSIS method: an example in China. <b>2020</b> , 103, 1-21	9

1627	Diarrhea: An underestimated symptom in Coronavirus disease 2019. <b>2020</b> , 44, 282-283	25
1626	SARS-CoV-2 detection by direct rRT-PCR without RNA extraction. <b>2020</b> , 128, 104423	58
1625	How emergency departments prepare for virus disease outbreaks like COVID-19. <b>2020</b> , 27, 161-162	16
1624	Emergency trauma care during the outbreak of corona virus disease 2019 (COVID-19) in China. <b>2020</b> , 15, 33	15
1623	Pooling of samples for testing for SARS-CoV-2 in asymptomatic people. <b>2020</b> , 20, 1231-1232	204
1622	Molecular Targets for the Testing of COVID-19. <b>2020</b> , 15, e2000152	9
1621	Advanced "lab-on-a-chip" to detect viruses - Current challenges and future perspectives. <b>2020</b> , 163, 112291	55
1620	SARS-CoV-2 detection with CRISPR diagnostics. <b>2020</b> , 6, 34	104
1619	Effects of the COVID-19 Lockdown on Urban Mobility: Empirical Evidence from the City of Santander (Spain). <b>2020</b> , 12, 3870	210
1618	Investigation of a COVID-19 outbreak in Germany resulting from a single travel-associated primary case: a case series. <b>2020</b> , 20, 920-928	273
1617	Multiple-centre clinical evaluation of an ultrafast single-tube assay for SARS-CoV-2 RNA. <b>2020</b> , 26, 1076-1081	29
1616	Preparedness of European diagnostic microbiology labs for detection of SARS-CoV-2, March 2020. <b>2020</b> , 128, 104432	8
1615	SARS-CoV-2 viral load assessment in respiratory samples. <b>2020</b> , 129, 104439	36
1614	A combined oropharyngeal/nares swab is a suitable alternative to nasopharyngeal swabs for the detection of SARS-CoV-2. <b>2020</b> , 128, 104442	52
1613	Sequence mismatch in PCR probes may mask the COVID-19 detection in Nepal. <b>2020</b> , 53, 101599	11
1612	Longitudinal Monitoring of SARS-CoV-2 IgM and IgG Seropositivity to Detect COVID-19. <b>2020</b> , 5, 908-920	73
1611	Update for Anaesthetists on Clinical Features of COVID-19 Patients and Relevant Management. <b>2020</b> , 9,	5
1610	3CL hydrolase-based multiepitope peptide vaccine against SARS-CoV-2 using immunoinformatics. <b>2020</b> , 92, 2114-2123	13

1609	Comparison of SARS-CoV-2 detection from nasopharyngeal swab samples by the Roche cobas 6800 SARS-CoV-2 test and a laboratory-developed real-time RT-PCR test. <b>2020</b> , 92, 1695-1698	67
1608	Imaging features and evolution on CT in 100 COVID-19 pneumonia patients in Wuhan, China. <b>2020</b> , 30, 5446-5454	68
1607	Detect to protect: pneumoperitoneum gas samples for SARS-CoV-2 and biohazard testing. <b>2020</b> , 34, 2863-2865	5
1606	COVID-19 in a 26-week preterm neonate. <b>2020</b> , 4, 476-478	68
1605	Clinical evaluation of a SARS-CoV-2 RT-PCR assay on a fully automated system for rapid on-demand testing in the hospital setting. <b>2020</b> , 128, 104390	40
1604	Multi-center evaluation of cepheid xpert <sup>®</sup> xpress SARS-CoV-2 point-of-care test during the SARS-CoV-2 pandemic. <b>2020</b> , 128, 104426	97
1603	Tocilizumab therapy reduced intensive care unit admissions and/or mortality in COVID-19 patients. <b>2020</b> , 50, 397-400	162
1602	Current development of COVID-19 diagnostics, vaccines and therapeutics. <b>2020</b> , 22, 231-235	34
1601	Severe Acute Respiratory Syndrome Coronavirus 2 Pandemic. <b>2020</b> , 144, 1048-1056	19
1600	Changes in SARS-CoV-2 Positivity Rate in Outpatients in Seattle and Washington State, March 1-April 16, 2020. <b>2020</b> , 323, 2334-2336	18
1599	Immune mechanisms of pulmonary intravascular coagulopathy in COVID-19 pneumonia. <b>2020</b> , 2, e437-e445	460
1598	Environmental contamination by SARS-CoV-2 in a designated hospital for coronavirus disease 2019. <b>2020</b> , 48, 910-914	112
1597	Comparison of seven commercial RT-PCR diagnostic kits for COVID-19. <b>2020</b> , 128, 104412	251
1596	Mismanagement of Covid-19: lessons learned from Italy. <b>2020</b> , 23, 1007-1020	45
1595	COVID-19 in older people: a rapid clinical review. <b>2020</b> , 49, 501-515	104
1594	Interpreting a covid-19 test result. <b>2020</b> , 369, m1808	395
1593	Design of a Multiepitope-Based Peptide Vaccine against the E Protein of Human COVID-19: An Immunoinformatics Approach. <b>2020</b> , 2020, 2683286	81
1592	JAK Inhibition as a New Treatment Strategy for Patients with COVID-19. <b>2020</b> , 181, 467-475	102

1591	Genetic variants and source of introduction of SARS-CoV-2 in South America. <b>2020</b> , 92, 2139-2145	23
1590	A deep dive into testing and management of COVID-19 for Australian high performance and professional sport. <b>2020</b> , 23, 664-669	3
1589	CRISPR-cas systems based molecular diagnostic tool for infectious diseases and emerging 2019 novel coronavirus (COVID-19) pneumonia. <b>2020</b> , 28, 727-731	38
1588	SARS-CoV-2 and COVID-19: A genetic, epidemiological, and evolutionary perspective. <b>2020</b> , 84, 104384	78
1587	Performance of Severe Acute Respiratory Syndrome Coronavirus 2 Antibody Assays in Different Stages of Infection: Comparison of Commercial Enzyme-Linked Immunosorbent Assays and Rapid Tests. <b>2020</b> , 222, 362-366	47
1586	Managing Burns During COVID-19 Outbreak. <b>2020</b> , 41, 1033-1036	13
1585	Mechanism of baricitinib supports artificial intelligence-predicted testing in COVID-19 patients. <b>2020</b> , 12, e12697	135
1584	Two Detailed Plaque Assay Protocols for the Quantification of Infectious SARS-CoV-2. <b>2020</b> , 57, ecpmc105	89
1583	Evaluation of the commercially available LightMix <sup>®</sup> Modular E-gene kit using clinical and proficiency testing specimens for SARS-CoV-2 detection. <b>2020</b> , 129, 104476	33
1582	Testing For SARS-CoV-2: The Day the World Turned its Attention to the Clinical Laboratory. <b>2020</b> , 13, 871-876	2
1581	Systematic Review and Meta-Analysis on the Value of Chest CT in the Diagnosis of Coronavirus Disease (COVID-19):. <b>2020</b> , 215, 1342-1350	40
1580	Comparison of the Elecsys <sup>®</sup> Anti-SARS-CoV-2 immunoassay with the EDI <sup>®</sup> enzyme linked immunosorbent assays for the detection of SARS-CoV-2 antibodies in human plasma. <b>2020</b> , 509, 18-21	72
1579	Ultra-High-Throughput Clinical Proteomics Reveals Classifiers of COVID-19 Infection. <b>2020</b> , 11, 11-24.e4	219
1578	SARS-Cov-2RNA found on particulate matter of Bergamo in Northern Italy: First evidence. <b>2020</b> , 188, 109754	253
1577	Tocilizumab administration in a refractory case of COVID-19. <b>2020</b> , 56, 106043	11
1576	Familial cluster of pneumonia and asymptomatic cases of COVID-19 in Taiwan. <b>2020</b> , 119, 1560-1561	3
1575	Discovery of New Hydroxyethylamine Analogs against 3CL Protein Target of SARS-CoV-2: Molecular Docking, Molecular Dynamics Simulation, and Structure-Activity Relationship Studies. <b>2020</b> , 60, 5754-5770	56
1574	Prevalence and mortality in Ethalassaemias due to outbreak of novel coronavirus disease (COVID-19): the nationwide Iranian experience. <b>2020</b> , 190, e137-e140	19

1573	SARS-CoV-2: A comprehensive review from pathogenicity of the virus to clinical consequences. <b>2020</b> , 92, 1864-1874	66
1572	From the Common Cold to a Chaotic Contagion: the Potential for Coronaviruses To Cause Outbreaks of Severe Respiratory Disease Representing a Global Health Threat. <b>2020</b> , 42, 95-103	1
1571	Development and Potential Usefulness of the COVID-19 Ag Respi-Strip Diagnostic Assay in a Pandemic Context. <b>2020</b> , 7, 225	114
1570	COVID-19 pandemic: an overview of epidemiology, pathogenesis, diagnostics and potential vaccines and therapeutics. <b>2020</b> , 11, 245-268	69
1569	Initial success in the identification and management of the coronavirus disease 2019 (COVID-19) indicates human-to-human transmission in Wuhan, China. <b>2020</b> , 16, 1846-1860	27
1568	A technical report from the Italian SARS-CoV-2 outbreak. Postmortem sampling and autopsy investigation in cases of suspected or probable COVID-19. <b>2020</b> , 16, 471-476	23
1567	Towards effective diagnostic assays for COVID-19: a review. <b>2020</b> , 73, 370-377	65
1566	The challenges of establishing adequate capacity for SARS-CoV-2 testing. <b>2020</b> , 212, 457-458	3
1565	Imbalanced Host Response to SARS-CoV-2 Drives Development of COVID-19. <b>2020</b> , 181, 1036-1045.e9	2227
1564	Do we know when to end isolation of persons affected with COVID-19?. <b>2020</b> , 77, 144-146	4
1563	Real-time PCR-based SARS-CoV-2 detection in Canadian laboratories. <b>2020</b> , 128, 104433	55
1562	Symptoms and immunoglobulin development in hospital staff exposed to a SARS-CoV-2 outbreak. <b>2020</b> , 31, 841-847	52
1561	Coronavirus Disease 2019 (COVID-19) in Neonates and Children From China: A Review. <b>2020</b> , 8, 287	24
1560	Venous thromboembolism in critically ill patients with COVID-19: Results of a screening study for deep vein thrombosis. <b>2020</b> , 4, 842-847	60
1559	Elective, Non-urgent Procedures and Aesthetic Surgery in the Wake of SARS-COVID-19: Considerations Regarding Safety, Feasibility and Impact on Clinical Management. <b>2020</b> , 44, 1014-1042	59
1558	Rapid and sensitive detection of SARS-CoV-2 RNA using the Simplexai COVID-19 direct assay. <b>2020</b> , 128, 104416	54
1557	Self-collection: An appropriate alternative during the SARS-CoV-2 pandemic. <b>2020</b> , 128, 104417	56
1556	Loop mediated isothermal amplification (LAMP) assays as a rapid diagnostic for COVID-19. <b>2020</b> , 141, 109786	129

1555	Diagnostic performance of immunochromatography assay for rapid detection of IgM and IgG in coronavirus disease 2019. <b>2020</b> , 92, 2567-2572	24
1554	CT Manifestations and Clinical Characteristics of 1115 Patients with Coronavirus Disease 2019 (COVID-19): A Systematic Review and Meta-analysis. <b>2020</b> , 27, 910-921	36
1553	Treatment of Coronavirus Disease 2019 (COVID-19) Patients with Convalescent Plasma. <b>2020</b> , 190, 1680-1690	185
1552	COVID-19: Transmission, prevention, and potential therapeutic opportunities. <b>2020</b> , 508, 254-266	319
1551	Clinical, molecular, and epidemiological characterization of the SARS-CoV-2 virus and the Coronavirus Disease 2019 (COVID-19), a comprehensive literature review. <b>2020</b> , 98, 115094	152
1550	Assessment of SARS-CoV-2 in human semen-a cohort study. <b>2020</b> , 114, 233-238	166
1549	COVID-19 target: A specific target for novel coronavirus detection. <b>2020</b> , 20, 100740	18
1548	Gene of the month: the 2019-nCoV/SARS-CoV-2 novel coronavirus spike protein. <b>2020</b> , 73, 366-369	83
1547	Activity and Health During the SARS-CoV2 Pandemic (ASAP): Study Protocol for a Multi-National Network Trial. <b>2020</b> , 7, 302	5
1546	Risk factors for SARS-CoV-2 among patients in the Oxford Royal College of General Practitioners Research and Surveillance Centre primary care network: a cross-sectional study. <b>2020</b> , 20, 1034-1042	309
1545	Presence of SARS-Coronavirus-2 RNA in Sewage and Correlation with Reported COVID-19 Prevalence in the Early Stage of the Epidemic in The Netherlands. <b>2020</b> , 7, 511-516	637
1544	Molecular and Serological Assays for SARS-CoV-2: Insights from Genome and Clinical Characteristics. <b>2020</b> , 66, 1030-1046	23
1543	Psychological health during the coronavirus disease 2019 pandemic outbreak. <b>2020</b> , 66, 512-516	138
1542	Abdominal fluid samples (negative for SARS-CoV-2) from a critically unwell patient with respiratory COVID-19. <b>2020</b> , 107, e259-e260	16
1541	Clinical features, isolation, and complete genome sequence of severe acute respiratory syndrome coronavirus 2 from the first two patients in Vietnam. <b>2020</b> , 92, 2209-2215	12
1540	The diagnosis of SARS-CoV2 pneumonia: A review of laboratory and radiological testing results. <b>2020</b> , 92, 2420-2428	7
1539	SARS-CoV-2 infection, male fertility and sperm cryopreservation: a position statement of the Italian Society of Andrology and Sexual Medicine (SIAMS) (Societ <sup>^</sup> Italiana di Andrologia e Medicina della Sessualit <sup>^</sup> ). <b>2020</b> , 43, 1153-1157	58
1538	The Concept of Making On-Chip Thermal Cycler for RT-PCR Using Conjugate Heat Transfer in Diverging Microchannel. <b>2020</b> , 5, 221-223	3



1537	Diagnostic performance of seven rapid IgG/IgM antibody tests and the Euroimmun IgA/IgG ELISA in COVID-19 patients. <b>2020</b> , 26, 1082-1087	163
1536	Clinical evaluation of AusDiagnostics SARS-CoV-2 multiplex tandem PCR assay. <b>2020</b> , 128, 104448	21
1535	Rapid implementation and validation of a cold-chain free SARS-CoV-2 diagnostic testing workflow to support surge capacity. <b>2020</b> , 128, 104469	19
1534	Influence of Different Inactivation Methods on Severe Acute Respiratory Syndrome Coronavirus 2 RNA Copy Number. <b>2020</b> , 58,	24
1533	Early Phylogenetic Diversification of SARS-CoV-2: Determination of Variants and the Effect on Epidemiology, Immunology, and Diagnostics. <b>2020</b> , 9,	7
1532	Current status of point-of-care diagnostic devices in the Indian healthcare system with an update on COVID-19 pandemic. <b>2020</b> , 1, 100015	31
1531	Decoding SARS-CoV-2 Transmission and Evolution and Ramifications for COVID-19 Diagnosis, Vaccine, and Medicine. <b>2020</b> , 60, 5853-5865	57
1530	Hematuria Associated With SARS-CoV-2 Infection in a Child. <b>2020</b> , 39, e161	11
1529	Major cluster of paediatric 'true' primary chilblains during the COVID-19 pandemic: a consequence of lifestyle changes due to lockdown. <b>2020</b> , 34, 2630-2635	24
1528	SARS-CoV-2 Does Not Spread Through Extracorporeal Membrane Oxygenation or Dialysis Membranes. <b>2020</b> , 202, 458-460	7
1527	Azole-Resistant COVID-19-Associated Pulmonary Aspergillosis in an Immunocompetent Host: A Case Report. <b>2020</b> , 6,	50
1526	Assessment of Sensitivity and Specificity of Patient-Collected Lower Nasal Specimens for Severe Acute Respiratory Syndrome Coronavirus 2 Testing. <b>2020</b> , 3, e2012005	42
1525	Current emerging SARS-CoV-2 pandemic: Potential direct/indirect negative impacts of virus persistence and related therapeutic drugs on the aquatic compartments. <b>2020</b> , 188, 109808	26
1524	Covid-19: a comprehensive review of a formidable foe and the road ahead. <b>2020</b> , 14, 869-879	9
1523	Epidemiology and Clinical Symptoms Related to Seasonal Coronavirus Identified in Patients with Acute Respiratory Infections Consulting in Primary Care over Six Influenza Seasons (2014-2020) in France. <b>2020</b> , 12,	10
1522	Can routine laboratory tests discriminate SARS-CoV-2-infected pneumonia from other causes of community-acquired pneumonia?. <b>2020</b> , 10, 161-168	19
1521	COVID-19: molecular diagnostics overview. <b>2020</b> , 98, 947-954	22
1520	Studying the pathophysiology of coronavirus disease 2019: a protocol for the Berlin prospective COVID-19 patient cohort (Pa-COVID-19). <b>2020</b> , 48, 619-626	40

1519	Subcutaneous administration of interferon beta-1a for COVID-19: A non-controlled prospective trial. <b>2020</b> , 85, 106688	47
1518	Multiplexing primer/probe sets for detection of SARS-CoV-2 by qRT-PCR. <b>2020</b> , 129, 104499	21
1517	Four point-of-care lateral flow immunoassays for diagnosis of COVID-19 and for assessing dynamics of antibody responses to SARS-CoV-2. <b>2020</b> , 81, 435-442	98
1516	Laboratory diagnosis of SARS-CoV-2 - A review of current methods. <b>2020</b> , 13, 901-905	61
1515	Indirect effects of severe acute respiratory syndrome coronavirus 2 on the kidney in coronavirus disease patients. <b>2020</b> , 13, 347-353	22
1514	Focus on the 2019 novel coronavirus (SARS-CoV-2). <b>2020</b> , 15, 905-918	18
1513	Clinical and radiological features of novel coronavirus pneumonia. <b>2020</b> , 28, 391-404	21
1512	Potential Antiviral Options against SARS-CoV-2 Infection. <b>2020</b> , 12,	62
1511	Primer design for quantitative real-time PCR for the emerging Coronavirus SARS-CoV-2. <b>2020</b> , 10, 7150-7162	51
1510	COVID-19: What you need to know. <b>2020</b> , 20, 100756	7
1509	Head and neck cancer surgery in COVID-19 pandemic in Northern Italy. <b>2020</b> , 107, 104835	6
1508	Testing for SARS-CoV-2 (COVID-19): a systematic review and clinical guide to molecular and serological in-vitro diagnostic assays. <b>2020</b> , 41, 483-499	194
1507	First description of SARS-CoV-2 in ascites. <b>2020</b> , 21, e00836	10
1506	SARS-CoV-2: diagnostic and design conundrums in the context of male factor infertility. <b>2020</b> , 41, 365-369	6
1505	Comparison of commercial realtime reverse transcription PCR assays for the detection of SARS-CoV-2. <b>2020</b> , 129, 104510	41
1504	Molecular Diagnosis of COVID-19: Challenges and Research Needs. <b>2020</b> , 92, 10196-10209	155
1503	Nanopore Targeted Sequencing for the Accurate and Comprehensive Detection of SARS-CoV-2 and Other Respiratory Viruses. <b>2020</b> , 16, e2002169	91
1502	COVID-19 paraclinical diagnostic tools: Updates and future trends. <b>2020</b> , 68, 83-91	9

1501	Can nanotechnology help in the fight against COVID-19?. <b>2020</b> , 18, 849-864	46
1500	COVID-19 diagnostics in context. <b>2020</b> , 12,	182
1499	Fast SARS-CoV-2 detection by RT-qPCR in preheated nasopharyngeal swab samples. <b>2020</b> , 97, 66-68	44
1498	The utility of beta-2-microglobulin testing as a human cellular control in COVID-19 testing. <b>2020</b> , 129, 104449	2
1497	The Natural History and Transmission Potential of Asymptomatic Severe Acute Respiratory Syndrome Coronavirus 2 Infection. <b>2020</b> , 71, 2679-2687	140
1496	Differentiating Between 2019 Novel Coronavirus Pneumonia and Influenza Using a Nonspecific Laboratory Marker-Based Dynamic Nomogram. <b>2020</b> , 7, ofaa169	6
1495	A lesson from a saboteur: High-MW kininogen impact in coronavirus-induced disease 2019. <b>2020</b> , 177, 4866-4872	25
1494	Identification of nsp1 gene as the target of SARS-CoV-2 real-time RT-PCR using nanopore whole-genome sequencing. <b>2020</b> , 92, 2725-2734	22
1493	Diagnostic methods and potential portable biosensors for coronavirus disease 2019. <b>2020</b> , 165, 112349	179
1492	Evaluation of a novel antigen-based rapid detection test for the diagnosis of SARS-CoV-2 in respiratory samples. <b>2020</b> , 99, 328-333	200
1491	Clinical Utility of Buccal Swabs for Severe Acute Respiratory Syndrome Coronavirus 2 Detection in Coronavirus Disease 2019-Infected Children. <b>2020</b> , 9, 370-372	26
1490	Clinical Performance of the Luminex NxTAG CoV Extended Panel for SARS-CoV-2 Detection in Nasopharyngeal Specimens from COVID-19 Patients in Hong Kong. <b>2020</b> , 58,	16
1489	Excretion of SARS-CoV-2 in human breast milk. <b>2020</b> , 26, 1430-1432	63
1488	Comparison of diagnostic accuracies of rapid serological tests and ELISA to molecular diagnostics in patients with suspected coronavirus disease 2019 presenting to the hospital. <b>2020</b> , 26, 1094.e7-1094.e10	56
1487	CoroNet: A deep neural network for detection and diagnosis of COVID-19 from chest x-ray images. <b>2020</b> , 196, 105581	430
1486	A promising antiviral candidate drug for the COVID-19 pandemic: A mini-review of remdesivir. <b>2020</b> , 201, 112527	52
1485	Covid-19 in children: A brief overview after three months experience. <b>2020</b> , 35, 9-14	17
1484	Coronavirus disease 2019 and Pneumocystis jirovecii pneumonia: a diagnostic dilemma in HIV. <b>2020</b> , 34, 1258-1260	31

1483	Single-copy sensitive, field-deployable, and simultaneous dual-gene detection of SARS-CoV-2 RNA via modified RT-RPA. <b>2020</b> , 6, 37	58
1482	Can the Severe Acute Respiratory Syndrome Coronavirus 2 Polymerase Chain Reaction Cycle Threshold Value and Time From Symptom Onset to Testing Predict Infectivity?. <b>2020</b> , 71, 2667-2668	17
1481	COVID-19 Infection Diagnosis: Potential Impact of Isothermal Amplification Technology to Reduce Community Transmission of SARS-CoV-2. <b>2020</b> , 10,	43
1480	SARS-CoV-2 genomic surveillance in Taiwan revealed novel ORF8-deletion mutant and clade possibly associated with infections in Middle East. <b>2020</b> , 9, 1457-1466	91
1479	Development of an automatic integrated gene detection system for novel severe acute respiratory syndrome-related coronavirus (SARS-CoV2). <b>2020</b> , 9, 1489-1496	15
1478	Full genome sequence of the first SARS-CoV-2 detected in Mexico. <b>2020</b> , 165, 2095-2098	13
1477	Clinical Characteristics and Predictors of Disease Progression in Severe Patients with COVID-19 Infection in Jiangsu Province, China: A Descriptive Study. <b>2020</b> , 360, 120-128	20
1476	Clinical features of COVID-19 and influenza: a comparative study on Nord Franche-Comte cluster. <b>2020</b> , 22, 481-488	91
1475	Laboratory diagnosis of SARS-CoV-2: available approaches and limitations. <b>2020</b> , 36, 100713	24
1474	Opportunities and Challenges for Biosensors and Nanoscale Analytical Tools for Pandemics: COVID-19. <b>2020</b> , 14, 7783-7807	179
1473	Severe Acute Respiratory Syndrome Coronavirus 2 Shedding by Travelers, Vietnam, 2020. <b>2020</b> , 26, 1624-1626	42
1472	Severe Acute Respiratory Syndrome Coronavirus 2-Specific Antibody Responses in Coronavirus Disease Patients. <b>2020</b> , 26, 1478-1488	1055
1471	Performance of six SARS-CoV-2 immunoassays in comparison with microneutralisation. <b>2020</b> , 129, 104512	134
1470	Detection of SARS-CoV-2 RNA residue on object surfaces in nucleic acid testing laboratory using droplet digital PCR. <b>2020</b> , 742, 140370	37
1469	Growth, detection, quantification, and inactivation of SARS-CoV-2. <b>2020</b> , 548, 39-48	99
1468	Compassionate Use of Hydroxychloroquine in Clinical Practice for Patients With Mild to Severe COVID-19 in a French University Hospital. <b>2021</b> , 73, e4064-e4072	34
1467	Triplex Real-Time RT-PCR for Severe Acute Respiratory Syndrome Coronavirus 2. <b>2020</b> , 26, 1633-1635	76
1466	Evidence Supporting Transmission of Severe Acute Respiratory Syndrome Coronavirus 2 While Presymptomatic or Asymptomatic. <b>2020</b> , 26,	318

1465	COVID-19 diagnostic approaches: different roads to the same destination. <b>2020</b> , 31, 97-105	71
1464	Culture-Based Virus Isolation To Evaluate Potential Infectivity of Clinical Specimens Tested for COVID-19. <b>2020</b> , 58,	94
1463	Molecular analysis of several in-house rRT-PCR protocols for SARS-CoV-2 detection in the context of genetic variability of the virus in Colombia. <b>2020</b> , 84, 104390	24
1462	Persisting SARS-CoV-2 viraemia after rituximab therapy: two cases with fatal outcome and a review of the literature. <b>2020</b> , 190, 185-188	81
1461	Safely restarting GI endoscopy in the era of COVID-19. <b>2020</b> , 69, 2063-2070	32
1460	Successful implementation of preventive measures leads to low relevance of SARS-CoV-2 in liver transplant patients: Observations from a German outpatient department. <b>2020</b> , 22, e13363	7
1459	Suramin Inhibits SARS-CoV-2 Infection in Cell Culture by Interfering with Early Steps of the Replication Cycle. <b>2020</b> , 64,	51
1458	Comparison of the Accula SARS-CoV-2 Test with a Laboratory-Developed Assay for Detection of SARS-CoV-2 RNA in Clinical Nasopharyngeal Specimens. <b>2020</b> , 58,	43
1457	A Public Health Laboratory Response to the Pandemic. <b>2020</b> , 58,	17
1456	Effect of Implementing Simulation Education on Health Care Worker Comfort With Nasopharyngeal Swabbing for COVID-19. <b>2020</b> , 163, 271-274	12
1455	Towards reduction in bias in epidemic curves due to outcome misclassification through Bayesian analysis of time-series of laboratory test results: case study of COVID-19 in Alberta, Canada and Philadelphia, USA. <b>2020</b> , 20, 146	15
1454	Developments, Evolution, and Implications of National Diagnostic Criteria for COVID-19 in China. <b>2020</b> , 7, 242	6
1453	Detection of viral SARS-CoV-2 genomes and histopathological changes in endomyocardial biopsies. <b>2020</b> , 7, 2440-2447	104
1452	A simple method for detection of a novel coronavirus (SARS-CoV-2) using one-step RT-PCR followed by restriction fragment length polymorphism. <b>2020</b> , 92, 2839-2846	6
1451	Assessing the spreading potential of an undetected case of COVID-19 in orthopaedic surgery. <b>2021</b> , 141, 1131-1137	6
1450	Evaluation of the EDI enzyme linked immunosorbent assays for the detection of SARS-CoV-2 IgM and IgG antibodies in human plasma. <b>2020</b> , 509, 79-82	25
1449	COVID-19: Key Concepts for the Surgeon. <b>2020</b> , 98, 310-319	2
1448	Multiple assays in a real-time RT-PCR SARS-CoV-2 panel can mitigate the risk of loss of sensitivity by new genomic variants during the COVID-19 outbreak. <b>2020</b> , 97, 225-229	77

1447	Epidemiological and clinical features of 2019 novel coronavirus diseases (COVID-19) in the South of Iran. <b>2020</b> , 20, 427	74
1446	Epidemiological and Clinical Characteristics of Cases During the Early Phase of COVID-19 Pandemic: A Systematic Review and Meta-Analysis. <b>2020</b> , 7, 295	28
1445	Strategies and perspectives to develop SARS-CoV-2 detection methods and diagnostics. <b>2020</b> , 129, 110446	47
1444	Novel SARS-CoV-2 outbreak and COVID19 disease; a systemic review on the global pandemic. <b>2020</b> , 7, 491-501	24
1443	Predictive factors of mortality in patients treated with tocilizumab for acute respiratory distress syndrome related to coronavirus disease 2019 (COVID-19). <b>2020</b> , 22, 500-503	11
1442	Performance Assessment of SARS-CoV-2 PCR Assays Developed by WHO Referral Laboratories. <b>2020</b> , 9,	45
1441	Testing the repatriated for SARS-Cov2: Should laboratory-based quarantine replace traditional quarantine?. <b>2020</b> , 34, 101624	31
1440	Prominent changes in blood coagulation of patients with SARS-CoV-2 infection. <b>2020</b> , 58, 1116-1120	701
1439	Lack of SARS-CoV-2 RNA environmental contamination in a tertiary referral hospital for infectious diseases in Northern Italy. <b>2020</b> ,	39
1438	Clinical characteristics of severe acute respiratory syndrome coronavirus 2 reactivation. <b>2020</b> , 80, e14-e17	219
1437	High-resolution computed tomography features of 17 cases of coronavirus disease 2019 in Sichuan province, China. <b>2020</b> , 55,	39
1436	A report of clinical diagnosis and treatment of nine cases of coronavirus disease 2019. <b>2020</b> , 92, 683-687	50
1435	Improved Molecular Diagnosis of COVID-19 by the Novel, Highly Sensitive and Specific COVID-19-RdRp/Hel Real-Time Reverse Transcription-PCR Assay Validated and with Clinical Specimens. <b>2020</b> , 58,	572
1434	Coronaviruses: Facts, Myths, and Hypotheses. <b>2020</b> , 15, 675-678	18
1433	Rapid viral diagnosis and ambulatory management of suspected COVID-19 cases presenting at the infectious diseases referral hospital in Marseille, France, - January 31st to March 1st, 2020: A respiratory virus snapshot. <b>2020</b> , 36, 101632	82
1432	Laboratory diagnosis of emerging human coronavirus infections - the state of the art. <b>2020</b> , 9, 747-756	459
1431	The critical role of laboratory medicine during coronavirus disease 2019 (COVID-19) and other viral outbreaks. <b>2020</b> , 58, 1063-1069	172
1430	Profiling Early Humoral Response to Diagnose Novel Coronavirus Disease (COVID-19). <b>2020</b> , 71, 778-785	986

1429	Crystal structure of SARS-CoV-2 main protease provides a basis for design of improved ketoamide inhibitors. <b>2020</b> , 368, 409-412	1636
1428	Viral Load Kinetics of SARS-CoV-2 Infection in First Two Patients in Korea. <b>2020</b> , 35, e86	185
1427	Interventions to mitigate early spread of SARS-CoV-2 in Singapore: a modelling study. <b>2020</b> , 20, 678-688	458
1426	The first infant case of COVID-19 acquired from a secondary transmission in Vietnam. <b>2020</b> , 4, 405-406	59
1425	Assessing Viral Shedding and Infectivity of Tears in Coronavirus Disease 2019 (COVID-19) Patients. <b>2020</b> , 127, 977-979	229
1424	Coronavirus disease 2019 (COVID-19) pandemic and pregnancy. <b>2020</b> , 222, 521-531	556
1423	A Genomic Perspective on the Origin and Emergence of SARS-CoV-2. <b>2020</b> , 181, 223-227	459
1422	Diagnosis of the Coronavirus disease (COVID-19): rRT-PCR or CT?. <b>2020</b> , 126, 108961	505
1421	Absence of contamination of personal protective equipment (PPE) by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). <b>2020</b> , 41, 614-616	48
1420	Stability issues of RT-PCR testing of SARS-CoV-2 for hospitalized patients clinically diagnosed with COVID-19. <b>2020</b> , 92, 903-908	405
1419	Clinical and virological data of the first cases of COVID-19 in Europe: a case series. <b>2020</b> , 20, 697-706	731
1418	Initial rapid and proactive response for the COVID-19 outbreak - Taiwan's experience. <b>2020</b> , 119, 771-773	77
1417	A pregnant woman with COVID-19 in Central America. <b>2020</b> , 36, 101639	63
1416	Surviving Sepsis Campaign: guidelines on the management of critically ill adults with Coronavirus Disease 2019 (COVID-19). <b>2020</b> , 46, 854-887	1011
1415	Performance of VivaDiag COVID-19 IgM/IgG Rapid Test is inadequate for diagnosis of COVID-19 in acute patients referring to emergency room department. <b>2020</b> , 92, 1724-1727	152
1414	Diagnosing COVID-19: The Disease and Tools for Detection. <b>2020</b> , 14, 3822-3835	915
1413	Covid-19 in Critically Ill Patients in the Seattle Region - Case Series. <b>2020</b> , 382, 2012-2022	1616
1412	2019 Novel Coronavirus (COVID-19) Pneumonia: Serial Computed Tomography Findings. <b>2020</b> , 21, 501-504	68

1411	Chest CT Features of COVID-19 in Rome, Italy. <b>2020</b> , 296, E79-E85	360
1410	The outbreak of COVID-19 coronavirus and its impact on global mental health. <b>2020</b> , 66, 317-320	1253
1409	COVID-19 virus and children: What do we know?. <b>2020</b> , 27, 117-118	40
1408	Radiological findings for diagnosis of SARS-CoV-2 pneumonia (COVID-19). <b>2020</b> , 155, 36-40	14
1407	Editorial: The explosive epidemic outbreak of novel coronavirus disease 2019 (COVID-19) and the persistent threat of respiratory tract infectious diseases to global health security. <b>2020</b> , 26, 193-196	23
1406	The establishment of reference sequence for SARS-CoV-2 and variation analysis. <b>2020</b> , 92, 667-674	292
1405	Coronavirus disease 2019: What we know?. <b>2020</b> , 92, 719-725	371
1404	The SARS-CoV-2 outbreak: What we know. <b>2020</b> , 94, 44-48	559
1403	Featuring COVID-19 cases via screening symptomatic patients with epidemiologic link during flu season in a medical center of central Taiwan. <b>2020</b> , 53, 459-466	51
1402	Potential preanalytical and analytical vulnerabilities in the laboratory diagnosis of coronavirus disease 2019 (COVID-19). <b>2020</b> , 58, 1070-1076	351
1401	2019 Novel Coronavirus Disease (COVID-19): Paving the Road for Rapid Detection and Point-of-Care Diagnostics. <b>2020</b> , 11,	180
1400	Potential Rapid Diagnostics, Vaccine and Therapeutics for 2019 Novel Coronavirus (2019-nCoV): A Systematic Review. <b>2020</b> , 9,	287
1399	CT Imaging and Differential Diagnosis of COVID-19. <b>2020</b> , 71, 195-200	164
1398	Air, Surface Environmental, and Personal Protective Equipment Contamination by Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) From a Symptomatic Patient. <b>2020</b> , 323, 1610-1612	1301
1397	SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor. <b>2020</b> , 181, 271-280.e8	10629
1396	Molecular immune pathogenesis and diagnosis of COVID-19. <b>2020</b> , 10, 102-108	842
1395	Acute Type A Aortic Dissection Complicated by COVID-19 Infection. <b>2020</b> , 110, e421-e423	19
1394	A Deep Learning System to Screen Novel Coronavirus Disease 2019 Pneumonia. <b>2020</b> , 6, 1122-1129	465



1393	Real-time estimation of the reproduction number of the novel coronavirus disease (COVID-19) in China in 2020 based on incidence data. <b>2020</b> , 8, 689	8
1392	Evaluation of the RealStar <sup>®</sup> SARS-CoV-2 RT-PCR kit RUO performances and limit of detection. <b>2020</b> , 129, 104520	25
1391	Optimized qRT-PCR Approach for the Detection of Intra- and Extra-Cellular SARS-CoV-2 RNAs. <b>2020</b> , 21,	40
1390	Comparison of commercial lateral flow immunoassays and ELISA for SARS-CoV-2 antibody detection. <b>2020</b> , 129, 104529	34
1389	When to Operate, Hesitate and Reintegrate: Society of Gynecologic Oncology Surgical Considerations during the COVID-19 Pandemic. <b>2020</b> , 158, 236-243	29
1388	Genomes: How Genomic Information has been Used to Deal with Past Outbreaks and the COVID-19 Pandemic. <b>2020</b> , 21,	20
1387	Detection of COVID-19 Infection from Routine Blood Exams with Machine Learning: A Feasibility Study. <b>2020</b> , 44, 135	121
1386	Containing COVID-19 outside the isolation ward: The impact of an infection control bundle on environmental contamination and transmission in a cohorted general ward. <b>2020</b> , 48, 1056-1061	24
1385	Chest CT screening for COVID-19 in elective and emergency surgical patients: experience from a UK tertiary centre. <b>2020</b> , 75, 599-605	20
1384	Molecular and Serological Tests for COVID-19 a Comparative Review of SARS-CoV-2 Coronavirus Laboratory and Point-of-Care Diagnostics. <b>2020</b> , 10,	116
1383	Clinical-Forensic Autopsy Findings to Defeat COVID-19 Disease: A Literature Review. <b>2020</b> , 9,	32
1382	Antibody tests for identification of current and past infection with SARS-CoV-2. <b>2020</b> , 6, CD013652	433
1381	Novel Coronavirus (nCoV): a Bitter Old Enemy in a New Avatar. <b>2020</b> , 2, 1-6	3
1380	Laboratory diagnosis of coronavirus disease-2019 (COVID-19). <b>2020</b> , 510, 35-46	69
1379	Tracking Changes in SARS-CoV-2 Spike: Evidence that D614G Increases Infectivity of the COVID-19 Virus. <b>2020</b> , 182, 812-827.e19	2322
1378	Microfluidic Immunoassays for Sensitive and Simultaneous Detection of IgG/IgM/Antigen of SARS-CoV-2 within 15 min. <b>2020</b> , 92, 9454-9458	103
1377	Suboptimal Biological Sampling as a Probable Cause of False-Negative COVID-19 Diagnostic Test Results. <b>2020</b> , 222, 899-902	54
1376	Evaluation of SARS-CoV-2 viral RNA in fecal samples. <b>2020</b> , 17, 86	23

1375	Development of an enhanced acute care surgery service in response to the COVID-19 global pandemic. <b>2020</b> , 51, 2135-2141	5
1374	Review of the SARS-CoV-2 in Wuhan and Analysis as Well as Prediction of Therapeutic Drugs. <b>2021</b> , 34, 291-299	
1373	Massive transient damage of the olfactory epithelium associated with infection of sustentacular cells by SARS-CoV-2 in golden Syrian hamsters. <b>2020</b> , 89, 579-586	125
1372	Recent Advances in Molecular diagnosis curbing the COVID-19. <b>2020</b> , 97, 322-325	2
1371	Self-reported loss of smell without nasal obstruction to identify COVID-19. The multicenter Coronosmia cohort study. <b>2020</b> , 81, 614-620	36
1370	Investigating Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Surface and Air Contamination in an Acute Healthcare Setting During the Peak of the Coronavirus Disease 2019 (COVID-19) Pandemic in London. <b>2021</b> , 73, e1870-e1877	126
1369	A Challenging Colectomy for Acute Severe Ulcerative Colitis Complicated by COVID-19. <b>2020</b> , 26, e120-e122	4
1368	Complete Genome Sequence of a 2019 Novel Coronavirus (SARS-CoV-2) Strain Causing a COVID-19 Case in Morocco. <b>2020</b> , 9,	1
1367	Comparison of clinical and microbiological diagnoses for older adults with COVID-19 in Wuhan: a retrospective study. <b>2020</b> , 32, 1889-1895	1
1366	Aptamers, the bivalent agents as probes and therapies for coronavirus infections: A systematic review. <b>2020</b> , 53, 101636	25
1365	SARS-CoV-2 is transmitted via contact and via the air between ferrets. <b>2020</b> , 11, 3496	271
1364	Optimizing Benefits of Testing Key Workers for Infection with SARS-CoV-2: A Mathematical Modeling Analysis. <b>2020</b> , 71, 3196-3203	0
1363	Increasing Temperature and Relative Humidity Accelerates Inactivation of SARS-CoV-2 on Surfaces. <b>2020</b> , 5,	162
1362	Diagnostic testing for SARS-CoV-2. <b>2020</b> , 192, E713	6
1361	The Allplex 2019-nCoV (Seegene) assay: which performances are for SARS-CoV-2 infection diagnosis?. <b>2020</b> , 39, 1997-2000	43
1360	Lack of sensitivity of an IVD/CE-labelled kit targeting the S gene for detection of SARS-CoV-2. <b>2020</b> , 26, 1417.e1-1417.e4	4
1359	Evaluation of the Aptima <sup>®</sup> transcription-mediated amplification assay (Hologic <sup>®</sup> ) for detecting SARS-CoV-2 in clinical specimens. <b>2020</b> , 129, 104541	21
1358	The COVID-19 pandemic. <b>2020</b> , 57, 365-388	165

1357	A Confirmed Case of SARS-CoV-2 Pneumonia With Negative Routine Reverse Transcriptase-Polymerase Chain Reaction and Virus Variation in Guangzhou, China. <b>2021</b> , 73, e426-e433	5
1356	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. <b>2020</b> , 15, e0235844	34
1355	SARS-CoV-2 Infektion bei Kindern und Jugendlichen. <b>2020</b> , 55, 138-143	
1354	Computational insights into tetracyclines as inhibitors against SARS-CoV-2 M via combinatorial molecular simulation calculations. <b>2020</b> , 257, 118080	45
1353	Diagnostic value of combined nucleic acid and antibody detection in suspected COVID-19 cases. <b>2020</b> , 186, 1-5	5
1352	Cutaneous manifestations in hospitalized patients diagnosed as COVID-19. <b>2020</b> , 33, e13896	32
1351	Predictors of severe or lethal COVID-19, including Angiotensin Converting Enzyme inhibitors and Angiotensin II Receptor Blockers, in a sample of infected Italian citizens. <b>2020</b> , 15, e0235248	54
1350	It can be dangerous to take epidemic curves of COVID-19 at face value. <b>2020</b> , 111, 397-400	7
1349	Laboratory Testing Methods for Novel Severe Acute Respiratory Syndrome-Coronavirus-2 (SARS-CoV-2). <b>2020</b> , 8, 468	69
1348	Exploration and correlation analysis of changes in Krebs von den Lungen-6 levels in COVID-19 patients with different types in China. <b>2020</b> , 14, 290-296	14
1347	COVID-19 - 6 million cases worldwide and an overview of the diagnosis in Brazil: a tragedy to be announced. <b>2020</b> , 98, 115113	16
1346	SARS-CoV-2 from faeces to wastewater treatment: What do we know? A review. <b>2020</b> , 743, 140444	202
1345	Laboratory management for SARS-CoV-2 detection: a user-friendly combination of the heat treatment approach and rt-Real-time PCR testing. <b>2020</b> , 9, 1393-1396	23
1344	Antiviral activities of mycophenolic acid and IMD-0354 against SARS-CoV-2. <b>2020</b> , 64, 635-639	32
1343	Dealing with the COVID-19 pandemic in orthopaedics: experiences and procedure in Germany. <b>2020</b> , 1, 309-315	3
1342	A Perspective on Emerging Therapeutic Interventions for COVID-19. <b>2020</b> , 8, 281	33
1341	Impact of heat-inactivation on the detection of SARS-CoV-2 IgM and IgG antibody by ELISA. <b>2020</b> , 509, 288-292	18
1340	Diagnostic strategies for SARS-CoV-2 infection and interpretation of microbiological results. <b>2020</b> , 26, 1178-1182	95

1339	SARS-CoV-2 pandemic: An overview. <b>2020</b> , 77, 100736	30
1338	Diagnostic accuracy of the FebrIDx host response point-of-care test in patients hospitalised with suspected COVID-19. <b>2020</b> , 81, 607-613	20
1337	COVID-19 severity correlates with airway epithelium-immune cell interactions identified by single-cell analysis. <b>2020</b> , 38, 970-979	487
1336	COVID-19 symptoms predictive of healthcare workers' SARS-CoV-2 PCR results. <b>2020</b> , 15, e0235460	88
1335	The Strategic Alliance between Clinical and Molecular Science in the War against SARS-CoV-2, with the Rapid-Diagnostics Test as an Indispensable Weapon for Front Line Doctors. <b>2020</b> , 21,	5
1334	Development and Evaluation of a duo SARS-CoV-2 RT-qPCR Assay Combining Two Assays Approved by the World Health Organization Targeting the Envelope and the RNA-Dependant RNA Polymerase (RdRp) Coding Regions. <b>2020</b> , 12,	8
1333	[Seroprevalence and SARS-CoV-2 testing in healthcare occupations]. <b>2020</b> , 117, 631-637	1
1332	No detection of SARS-CoV-2 in cystic fibrosis patients at the Regional (Lazio) Reference Center for CF in Italy. <b>2020</b> , 19, 837-838	3
1331	Chest CT practice and protocols for COVID-19 from radiation dose management perspective. <b>2020</b> , 30, 6554-6560	35
1330	Recognition of COVID-19 disease from X-ray images by hybrid model consisting of 2D curvelet transform, chaotic salp swarm algorithm and deep learning technique. <b>2020</b> , 140, 110071	175
1329	Analysis of adjunctive serological detection to nucleic acid test for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection diagnosis. <b>2020</b> , 86, 106746	26
1328	Testing COVID-19 tests faces methodological challenges. <b>2020</b> , 126, 172-176	9
1327	SARS-CoV-2 RNA detection in the air and on surfaces in the COVID-19 ward of a hospital in Milan, Italy. <b>2020</b> , 742, 140540	132
1326	COVID-19 Testing in Patients with Cancer: Does One Size Fit All?. <b>2020</b> , 26, 4737-4742	14
1325	COVID-19: Progress in diagnostics, therapy and vaccination. <b>2020</b> , 10, 7821-7835	77
1324	The genetic sequence, origin, and diagnosis of SARS-CoV-2. <b>2020</b> , 39, 1629-1635	217
1323	Shotgun proteomics analysis of SARS-CoV-2-infected cells and how it can optimize whole viral particle antigen production for vaccines. <b>2020</b> , 9, 1712-1721	36
1322	The COVID-19 pandemic: biological evolution, treatment options and consequences. <b>2020</b> , 5, 1	11

1321	Haematological manifestations, mechanisms of thrombosis and anti-coagulation in COVID-19 disease: A review. <b>2020</b> , 56, 173-177	14
1320	Outbreak of COVID-19: An emerging global pandemic threat. <b>2020</b> , 129, 110499	22
1319	Two Immunocompromised Patients With Diffuse Alveolar Hemorrhage as a Complication of Severe Coronavirus Disease 2019. <b>2020</b> , 158, e215-e219	9
1318	Validation of a commercially available SARS-CoV-2 serological immunoassay. <b>2020</b> , 26, 1386-1394	110
1317	SARS-CoV-2 positivity in rectal swabs: implication for possible transmission. <b>2020</b> , 22, 754-755	8
1316	COVID-19 in seniors: Findings and lessons from mass screening in a nursing home. <b>2020</b> , 141, 46-52	24
1315	Safe surgery during the coronavirus disease 2019 crisis. <b>2020</b> , 90, 1553-1557	9
1314	The COVID-19 Diagnostic Technology Landscape: Efficient Data Sharing Drives Diagnostic Development. <b>2020</b> , 8, 309	11
1313	What to do next to control the 2019-nCoV epidemic?. <b>2020</b> , 395, 391-393	139
1312	Evaluation of coronavirus in tears and conjunctival secretions of patients with SARS-CoV-2 infection. <b>2020</b> , 92, 589-594	654
1311	Severe SARS-CoV-2 infections: practical considerations and management strategy for intensivists. <b>2020</b> , 46, 579-582	162
1310	Novel Coronavirus Pneumonia Outbreak in 2019: Computed Tomographic Findings in Two Cases. <b>2020</b> , 21, 365-368	82
1309	The novel Coronavirus (SARS-CoV-2) is a one health issue. <b>2020</b> , 9, 100123	26
1308	Clinical trial analysis of 2019-nCoV therapy registered in China. <b>2020</b> , 92, 540-545	97
1307	The course of clinical diagnosis and treatment of a case infected with coronavirus disease 2019. <b>2020</b> , 92, 461-463	88
1306	Evidence of SARS-CoV-2 Infection in Returning Travelers from Wuhan, China. <b>2020</b> , 382, 1278-1280	397
1305	Which lessons shall we learn from the 2019 novel coronavirus outbreak?. <b>2020</b> , 8, 48	91
1304	Presumed Asymptomatic Carrier Transmission of COVID-19. <b>2020</b> , 323, 1406-1407	2666

1303	Lessons learned from the 2019-nCoV epidemic on prevention of future infectious diseases. <b>2020</b> , 22, 86-91	55
1302	Development of Genetic Diagnostic Methods for Detection for Novel Coronavirus 2019(nCoV-2019) in Japan. <b>2020</b> , 73, 304-307	256
1301	Corona Virus International Public Health Emergencies: Implications for Radiology Management. <b>2020</b> , 27, 463-467	46
1300	2019-novel Coronavirus severe adult respiratory distress syndrome in two cases in Italy: An uncommon radiological presentation. <b>2020</b> , 93, 192-197	121
1299	Is Africa prepared for tackling the COVID-19 (SARS-CoV-2) epidemic. Lessons from past outbreaks, ongoing pan-African public health efforts, and implications for the future. <b>2020</b> , 93, 233-236	105
1298	Rapid random access detection of the novel SARS-coronavirus-2 (SARS-CoV-2, previously 2019-nCoV) using an open access protocol for the Panther Fusion. <b>2020</b> , 125, 104305	45
1297	Recent advances and perspectives of nucleic acid detection for coronavirus. <b>2020</b> , 10, 97-101	257
1296	Clinical characteristics and intrauterine vertical transmission potential of COVID-19 infection in nine pregnant women: a retrospective review of medical records. <b>2020</b> , 395, 809-815	2099
1295	Molecular Diagnosis of a Novel Coronavirus (2019-nCoV) Causing an Outbreak of Pneumonia. <b>2020</b> , 66, 549-555	794
1294	Evaluation of the QIAstat-Dx Respiratory SARS-CoV-2 Panel, the First Rapid Multiplex PCR Commercial Assay for SARS-CoV-2 Detection. <b>2020</b> , 58,	63
1293	RT-qPCR Testing of SARS-CoV-2: A Primer. <b>2020</b> , 21,	81
1292	The diagnosis of pandemic coronavirus pneumonia: A review of radiology examination and laboratory test. <b>2020</b> , 128, 104396	11
1291	Commentary: A One Health approach to coronaviruses. <b>2020</b> , 49, 728-730	6
1290	Delivery in Asymptomatic Italian Woman with SARS-CoV-2 Infection. <b>2020</b> , 12, e2020033	14
1289	Contact Tracing Assessment of COVID-19 Transmission Dynamics in Taiwan and Risk at Different Exposure Periods Before and After Symptom Onset. <b>2020</b> , 180, 1156-1163	518
1288	Respiratory sampling for severe acute respiratory syndrome coronavirus 2: An Overview. <b>2020</b> , 42, 1652-1656	13
1287	A Dynamic Immune Response Shapes COVID-19 Progression. <b>2020</b> , 27, 879-882.e2	202
1286	Comparison of the Panther Fusion and a laboratory-developed test targeting the envelope gene for detection of SARS-CoV-2. <b>2020</b> , 127, 104383	42

1285	Radiological findings for diagnosis of SARS-CoV-2 pneumonia (COVID-19). <b>2020</b> , 155, 36-40	10
1284	SARS-CoV-2 in wastewater: State of the knowledge and research needs. <b>2020</b> , 739, 139076	351
1283	Renin-Angiotensin-Aldosterone System Blockers and the Risk of Covid-19. <b>2020</b> , 382, 2431-2440	709
1282	SARS-CoV-2 productively infects human gut enterocytes. <b>2020</b> , 369, 50-54	882
1281	Comparison of Commercially Available and Laboratory-Developed Assays for Detection of SARS-CoV-2 in Clinical Laboratories. <b>2020</b> , 58,	166
1280	Assessment of Real-Time RT-PCR Kits for SARS-CoV-2 Detection. <b>2020</b> , 73, 366-368	27
1279	The Use of Bronchoscopy During the Coronavirus Disease 2019 Pandemic: CHEST/AABIP Guideline and Expert Panel Report. <b>2020</b> , 158, 1268-1281	100
1278	Consistency analysis of COVID-19 nucleic acid tests and the changes of lung CT. <b>2020</b> , 127, 104359	24
1277	Development of a Novel, Genome Subtraction-Derived, SARS-CoV-2-Specific COVID-19-nsp2 Real-Time RT-PCR Assay and Its Evaluation Using Clinical Specimens. <b>2020</b> , 21,	54
1276	Sample Pooling as a Strategy to Detect Community Transmission of SARS-CoV-2. <b>2020</b> , 323, 1967-1969	219
1275	Caution should be exercised for the detection of SARS-CoV-2, especially in the elderly. <b>2020</b> , 92, 1641-1648	34
1274	Coronavirus disease 2019: New things to know!. <b>2020</b> , 92, 1767-1768	10
1273	[Coronavirus: from common cold to severe pulmonary failure]. <b>2020</b> , 168, 1-11	3
1272	The indispensable role of chest CT in the detection of coronavirus disease 2019 (COVID-19). <b>2020</b> , 47, 1638-1639	39
1271	The FDA-approved drug ivermectin inhibits the replication of SARS-CoV-2 in vitro. <b>2020</b> , 178, 104787	1103
1270	Experience and suggestion of medical practices for burns during the outbreak of COVID-19. <b>2020</b> , 46, 749-755	23
1269	Molecular characterization of SARS-CoV-2 in the first COVID-19 cluster in France reveals an amino acid deletion in nsp2 (Asp268del). <b>2020</b> , 26, 960-962	40
1268	Molecular characterization of SARS-CoV-2 from the first case of COVID-19 in Italy. <b>2020</b> , 26, 954-956	65

1267	Rapid and visual detection of 2019 novel coronavirus (SARS-CoV-2) by a reverse transcription loop-mediated isothermal amplification assay. <b>2020</b> , 26, 773-779	297
1266	COVID-19 pneumonia: A review of typical CT findings and differential diagnosis. <b>2020</b> , 101, 263-268	215
1265	Propagation analysis and prediction of the COVID-19. <b>2020</b> , 5, 282-292	151
1264	Coronavirus disease 2019 (COVID-19): current status and future perspectives. <b>2020</b> , 55, 105951	513
1263	The epidemiology, diagnosis and treatment of COVID-19. <b>2020</b> , 55, 105955	486
1262	Neutrophil-to-lymphocyte ratio as an independent risk factor for mortality in hospitalized patients with COVID-19. <b>2020</b> , 81, e6-e12	461
1261	Lopinavir/ritonavir did not shorten the duration of SARS CoV-2 shedding in patients with mild pneumonia in Taiwan. <b>2020</b> , 53, 488-492	60
1260	Development of Reverse Transcription Loop-Mediated Isothermal Amplification Assays Targeting Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). <b>2020</b> , 22, 729-735	244
1259	Clinical features of the first cases and a cluster of Coronavirus Disease 2019 (COVID-19) in Bolivia imported from Italy and Spain. <b>2020</b> , 35, 101653	57
1258	Clinical and microbiological effect of a combination of hydroxychloroquine and azithromycin in 80 COVID-19 patients with at least a six-day follow up: A pilot observational study. <b>2020</b> , 34, 101663	479
1257	Dual-Functional Plasmonic Photothermal Biosensors for Highly Accurate Severe Acute Respiratory Syndrome Coronavirus 2 Detection. <b>2020</b> , 14, 5268-5277	544
1256	A framework for identifying regional outbreak and spread of COVID-19 from one-minute population-wide surveys. <b>2020</b> , 26, 634-638	82
1255	Enhanced isolation of SARS-CoV-2 by TMPRSS2-expressing cells. <b>2020</b> , 117, 7001-7003	777
1254	Diagnostic value and key features of computed tomography in Coronavirus Disease 2019. <b>2020</b> , 9, 787-793	67
1253	A Method To Prevent SARS-CoV-2 IgM False Positives in Gold Immunochromatography and Enzyme-Linked Immunosorbent Assays. <b>2020</b> , 58,	87
1252	Laboratory Diagnosis of COVID-19: Current Issues and Challenges. <b>2020</b> , 58,	703
1251	Comparative Performance of SARS-CoV-2 Detection Assays Using Seven Different Primer-Probe Sets and One Assay Kit. <b>2020</b> , 58,	314
1250	A Pandemic in Times of Global Tourism: Superspreading and Exportation of COVID-19 Cases from a Ski Area in Austria. <b>2020</b> , 58,	64



1249	Clinical Evaluation of the cobas SARS-CoV-2 Test and a Diagnostic Platform Switch during 48 Hours in the Midst of the COVID-19 Pandemic. <b>2020</b> , 58,	92
1248	Isolation and Full-Length Genome Characterization of SARS-CoV-2 from COVID-19 Cases in Northern Italy. <b>2020</b> , 94,	39
1247	Covid-19: Why Germany's case fatality rate seems so low. <b>2020</b> , 369, m1395	59
1246	Potential Presymptomatic Transmission of SARS-CoV-2, Zhejiang Province, China, 2020. <b>2020</b> , 26, 1052-1054	324
1245	Novel Coronavirus: Current Understanding of Clinical Features, Diagnosis, Pathogenesis, and Treatment Options. <b>2020</b> , 9,	28
1244	Optimization of group size in pool testing strategy for SARS-CoV-2: A simple mathematical model. <b>2020</b> , 92, 1988-1994	45
1243	Study of SARS-CoV-2 in semen and urine samples of a volunteer with positive naso-pharyngeal swab. <b>2020</b> , 43, 1819-1822	154
1242	Fear and Practice Modifications among Dentists to Combat Novel Coronavirus Disease (COVID-19) Outbreak. <b>2020</b> , 17,	254
1241	The COVID-19 Pandemic: A Comprehensive Review of Taxonomy, Genetics, Epidemiology, Diagnosis, Treatment, and Control. <b>2020</b> , 9,	289
1240	Successful recovery of COVID-19 pneumonia in a patient from Colombia after receiving chloroquine and clarithromycin. <b>2020</b> , 19, 16	24
1239	SARS-Cov-2 (human) and COVID-19: Primer 2020. <b>2020</b> , 14, 475-477	2
1238	Highly sensitive detection of SARS-CoV-2 RNA by multiplex rRT-PCR for molecular diagnosis of COVID-19 by clinical laboratories. <b>2020</b> , 507, 139-142	50
1237	Imaging of coronavirus disease 2019: A Chinese expert consensus statement. <b>2020</b> , 127, 109008	41
1236	Covid-19 pandemic by the "real-time" monitoring: the Tunisian case and lessons for global epidemics in the context of 3PM strategies. <b>2020</b> , 11, 1-6	29
1235	COVID-19 pandemic-a focused review for clinicians. <b>2020</b> , 26, 842-847	206
1234	CO-RADS: A Categorical CT Assessment Scheme for Patients Suspected of Having COVID-19-Definition and Evaluation. <b>2020</b> , 296, E97-E104	404
1233	COVID-19 and Kawasaki Disease: Novel Virus and Novel Case. <b>2020</b> , 10, 537-540	456
1232	COVID-19 polymerase chain reaction testing before endoscopy: an economic analysis. <b>2020</b> , 92, 524-534.e6	39

1231	Ad hoc laboratory-based surveillance of SARS-CoV-2 by real-time RT-PCR using minipools of RNA prepared from routine respiratory samples. <b>2020</b> , 127, 104381	34
1230	Patients with Coronavirus 2019 (COVID-19) and Surgery: Guidelines and Checklist Proposal. <b>2020</b> , 139, e769-e773	15
1229	Limits of Detection of 6 Approved RT-PCR Kits for the Novel SARS-Coronavirus-2 (SARS-CoV-2). <b>2020</b> , 66, 977-979	79
1228	DEA: Depict the Epidemic Picture of COVID-19. <b>2020</b> , 25, 165-176	2
1227	Association Between Hypoxemia and Mortality in Patients With COVID-19. <b>2020</b> , 95, 1138-1147	263
1226	Assessment of the Angolan (CHERRT) Mobile Laboratory Curriculum for Disaster and Pandemic Response. <b>2020</b> , 21, 526-531	0
1225	Otolaryngology during COVID-19: Preventive care and precautionary measures. <b>2020</b> , 41, 102508	17
1224	Interpret with caution: An evaluation of the commercial AusDiagnostics versus in-house developed assays for the detection of SARS-CoV-2 virus. <b>2020</b> , 127, 104374	30
1223	CT imaging features of 4121 patients with COVID-19: A meta-analysis. <b>2020</b> , 92, 891-902	74
1222	2019 Novel coronavirus (COVID-19) overview. <b>2020</b> , 1-9	16
1221	Venous thrombosis and arteriosclerosis obliterans of lower extremities in a very severe patient with 2019 novel coronavirus disease: a case report. <b>2020</b> , 50, 229-232	57
1220	The Appropriate Use of Testing for COVID-19. <b>2020</b> , 21, 470-472	113
1219	Laboratory testing of SARS-CoV, MERS-CoV, and SARS-CoV-2 (2019-nCoV): Current status, challenges, and countermeasures. <b>2020</b> , 30, e2106	166
1218	SARS-CoV-2 Seroconversion in Humans: A Detailed Protocol for a Serological Assay, Antigen Production, and Test Setup. <b>2020</b> , 57, e100	447
1217	CT radiomics can help screen the Coronavirus disease 2019 (COVID-19): a preliminary study. <b>2020</b> , 63, 1	31
1216	Recent apprise on coronavirus and its terrible insinuations. <b>2020</b> , 31, 1-7	7
1215	Preventive measures and management of COVID-19 in pregnancy. <b>2020</b> , 36, 1-4	12
1214	Chest CT findings of COVID-19 pneumonia by duration of symptoms. <b>2020</b> , 127, 109009	148

1213	Coronavirus Disease 2019 Pneumonia in Immunosuppressed Renal Transplant Recipients: A Summary of 10 Confirmed Cases in Wuhan, China. <b>2020</b> , 77, 748-754	136
1212	Current epidemiological and clinical features of COVID-19; a global perspective from China. <b>2020</b> , 81, 1-9	162
1211	Chest CT features and their role in COVID-19. <b>2020</b> , 7, 51-54	43
1210	Features of anosmia in COVID-19. <b>2020</b> , 50, 436-439	215
1209	[COVID-19: Clinical, biological and radiological characteristics in adults, infants and pregnant women. An up-to-date review at the heart of the pandemic]. <b>2020</b> , 41, 308-318	19
1208	First confirmed detection of SARS-CoV-2 in untreated wastewater in Australia: A proof of concept for the wastewater surveillance of COVID-19 in the community. <b>2020</b> , 728, 138764	829
1207	Coronavirus jolts labs to warp speed. <b>2020</b> , 17, 465-468	5
1206	COVID-19 and the clinical hematology laboratory. <b>2020</b> , 42 Suppl 1, 11-18	119
1205	Successful containment of Covid-19 outbreak in a large maternity and perinatal center while continuing clinical service. <b>2020</b> , 31, 560-564	28
1204	Comparative pathogenesis of COVID-19, MERS, and SARS in a nonhuman primate model. <b>2020</b> , 368, 1012-1015	596
1203	Comparison of Copan ESwab and FLOQSwab for COVID-19 Diagnosis: Working around a Supply Shortage. <b>2020</b> , 58,	48
1202	An Asymptomatic Patient with COVID-19. <b>2020</b> , 201, 1428-1429	3
1201	First COVID-19 infections in the Philippines: a case report. <b>2020</b> , 48, 21	27
1200	Chest CT Severity Score: An Imaging Tool for Assessing Severe COVID-19. <b>2020</b> , 2, e200047	231
1199	Identification of Coronavirus Isolated from a Patient in Korea with COVID-19. <b>2020</b> , 11, 3-7	290
1198	In Vitro Diagnostic Assays for COVID-19: Recent Advances and Emerging Trends. <b>2020</b> , 10,	214
1197	COVID-19: Key Concepts for the Surgeon. <b>2020</b> , 98, 310-319	16
1196	Epidemiology and clinical features of COVID-19: A review of current literature. <b>2020</b> , 127, 104357	198

1195	Epidemiological and initial clinical characteristics of patients with family aggregation of COVID-19. <b>2020</b> , 127, 104360	50
1194	Rapid asymptomatic transmission of COVID-19 during the incubation period demonstrating strong infectivity in a cluster of youngsters aged 16-23 years outside Wuhan and characteristics of young patients with COVID-19: A prospective contact-tracing study. <b>2020</b> , 80, e1-e13	215
1193	Serological immunochromatographic approach in diagnosis with SARS-CoV-2 infected COVID-19 patients. <b>2020</b> , 81, e28-e32	216
1192	Loopholes in Current Infection Control and Prevention Practices Against COVID-19 in Radiology Department and Improvement Suggestions. <b>2021</b> , 72, 215-221	4
1191	COVID-19, a worldwide public health emergency. <b>2021</b> , 221, 55-61	48
1190	First Reported Nosocomial Outbreak of Severe Acute Respiratory Syndrome Coronavirus 2 in a Pediatric Dialysis Unit. <b>2021</b> , 72, 265-270	76
1189	Screening and Severity of Coronavirus Disease 2019 (COVID-19) in Children in Madrid, Spain. <b>2020</b> ,	255
1188	Navigating the Pandemic Response Life Cycle: Molecular Diagnostics and Immunoassays in the Context of COVID-19 Management. <b>2021</b> , 14, 30-47	18
1187	COVID-19, a worldwide public health emergency. <b>2020</b> , 221, 55-55	73
1186	Contribution of anosmia and dysgeusia for diagnostic of COVID-19 in outpatients. <b>2021</b> , 49, 361-365	42
1185	Zero tolerance for complacency by government of West African countries in the face of COVID-19. <b>2021</b> , 29, 27-40	5
1184	Early administration of ritonavir-boosted lopinavir could prevent severe COVID-19. <b>2021</b> , 82, 159-198	10
1183	From Easing Lockdowns to Scaling Up Community-based Coronavirus Disease 2019 Screening, Testing, and Contact Tracing in Africa-Shared Approaches, Innovations, and Challenges to Minimize Morbidity and Mortality. <b>2021</b> , 72, 327-331	28
1182	Improved sensitivity using a dual target, E and RdRp assay for the diagnosis of SARS-CoV-2 infection: Experience at a large NHS Foundation Trust in the UK. <b>2021</b> , 82, 159-198	23
1181	An Introduction to COVID-19. <b>2021</b> , 1-22	12
1180	Pitfalls in SARS-CoV-2 PCR diagnostics. <b>2021</b> , 68, 253-257	27
1179	In vitro diagnostics of coronavirus disease 2019: Technologies and application. <b>2021</b> , 54, 164-174	52
1178	Microstructure, pathophysiology, and potential therapeutics of COVID-19: A comprehensive review. <b>2021</b> , 93, 275-299	33

1177	Systematic review with meta-analysis of the accuracy of diagnostic tests for COVID-19. <b>2021</b> , 49, 21-29	168
1176	Unequal Impact of Structural Health Determinants and Comorbidity on COVID-19 Severity and Lethality in Older Mexican Adults: Considerations Beyond Chronological Aging. <b>2021</b> , 76, e52-e59	44
1175	An Ultra-Rapid Real-Time RT-PCR Method Using the PCR1100 to Detect Severe Acute Respiratory Syndrome Coronavirus-2. <b>2021</b> , 74, 29-34	6
1174	Recent insights for the emerging COVID-19: Drug discovery, therapeutic options and vaccine development. <b>2021</b> , 16, 4-23	30
1173	COVID-19 associated pulmonary aspergillosis (CAPA): An Australian case report. <b>2021</b> , 31, 6-10	24
1172	Rates of bacterial co-infections and antimicrobial use in COVID-19 patients: a retrospective cohort study in light of antibiotic stewardship. <b>2021</b> , 40, 859-869	55
1171	Adapting Management of Sarcomas in COVID-19: An Evidence-Based Review. <b>2020</b> , 55, 1-13	6
1170	Low-threshold SARS-CoV-2 testing facility for hospital staff: Prevention of COVID-19 outbreaks?. <b>2021</b> , 231, 113653	6
1169	Residual SARS-CoV-2 RNA in nasal swabs of convalescent COVID-19 patients: Is prolonged quarantine always justified?. <b>2021</b> , 102, 299-302	11
1168	Diagnostic Salivary Tests for SARS-CoV-2. <b>2021</b> , 100, 115-123	20
1167	Intricacies in characterizing positivity in pooled sample testing for SARS-CoV-2. <b>2021</b> , 93, 2799-2804	2
1166	Computational strategies to combat COVID-19: useful tools to accelerate SARS-CoV-2 and coronavirus research. <b>2021</b> , 22, 642-663	56
1165	Laboratory testing for the diagnosis of COVID-19. <b>2021</b> , 538, 226-230	26
1164	The prevalence of asymptomatic and symptomatic COVID-19 in a cohort of quarantined subjects. <b>2021</b> , 102, 285-288	26
1163	Evaluation of the Panbio COVID-19 Rapid Antigen Detection Test Device for the Screening of Patients with COVID-19. <b>2021</b> , 59,	79
1162	Changes in SARS-CoV-2 Spike versus Nucleoprotein Antibody Responses Impact the Estimates of Infections in Population-Based Seroprevalence Studies. <b>2021</b> , 95,	86
1161	Detection-based prioritisation: Framework of multi-laboratory characteristics for asymptomatic COVID-19 carriers based on integrated Entropy-TOPSIS methods. <b>2021</b> , 111, 101983	40
1160	Transmission of SARS-CoV-2 on mink farms between humans and mink and back to humans. <b>2021</b> , 371, 172-177	496

1159	Diagnosis of COVID-19 using multiple antibody assays in two cases with negative PCR results from nasopharyngeal swabs. <b>2021</b> , 49, 171-175	6
1158	Mismatch between circulating cytokines and spontaneous cytokine production by leukocytes in hyperinflammatory COVID-19. <b>2021</b> , 109, 115-120	17
1157	Clinical usefulness of fully automated chemiluminescent immunoassay for quantitative antibody measurements in COVID-19 patients. <b>2021</b> , 93, 1465-1477	24
1156	Adjusting Coronavirus Prevalence Estimates for Laboratory Test Kit Error. <b>2021</b> , 190, 109-115	39
1155	The arrival and spread of SARS-CoV-2 in Colombia. <b>2021</b> , 93, 1158-1163	22
1154	Clinical and radiological diagnosis of non-SARS-CoV-2 viruses in the era of COVID-19 pandemic. <b>2021</b> , 93, 1119-1125	7
1153	Product of natural evolution (SARS, MERS, and SARS-CoV-2); deadly diseases, from SARS to SARS-CoV-2. <b>2021</b> , 17, 62-83	8
1152	Considerations for the Surgical Management of Early Stage Lung Cancer During the COVID-19 Pandemic. <b>2021</b> , 22, 156-160	3
1151	Comparative in silico design and validation of GPSi[CoVID-19 dtec-RT-qPCR test. <b>2021</b> , 130, 2-13	2
1150	Combined throat/nasal swab sampling for SARS-CoV-2 is equivalent to nasopharyngeal sampling. <b>2021</b> , 40, 193-195	26
1149	Liver transplant recipients infected with SARS-CoV-2 in the early postoperative period: Lessons from a single center in the epicenter of the pandemic. <b>2021</b> , 23, e13418	12
1148	Comparison of 2 fully automated tests detecting antibodies against nucleocapsid N and spike S1/S2 proteins in COVID-19. <b>2021</b> , 99, 115197	9
1147	Genetics and genomics of SARS-CoV-2: A review of the literature with the special focus on genetic diversity and SARS-CoV-2 genome detection. <b>2021</b> , 113, 1221-1232	64
1146	A Comparison of Five SARS-CoV-2 Molecular Assays With Clinical Correlations. <b>2021</b> , 155, 69-78	28
1145	The calm after the storm: re-starting ART treatments safely in the wake of the COVID-19 pandemic. <b>2021</b> , 36, 275-282	5
1144	The increasing importance of the novel Coronavirus. <b>2021</b> , 49, 1-11	3
1143	SARS-CoV2 virions in PM pollutants. May further research reject this thesis?. <b>2021</b> , 93, 1247-1249	1
1142	Carrying on with liver transplantation during the COVID-19 emergency: Report from piedmont region. <b>2021</b> , 45, 101512	3

1141	Thermal treatment of nasopharyngeal samples before cobas SARS-CoV-2 testing. <b>2021</b> , 27, 149-150	3
1140	COVID-19: Discovery, diagnostics and drug development. <b>2021</b> , 74, 168-184	133
1139	A Cross-sectional Survey on the Impact of Coronavirus Disease 2019 on the Clinical Practice of Endodontists across the United States. <b>2021</b> , 47, 28-38	10
1138	Laboratory detection methods for the human coronaviruses. <b>2021</b> , 40, 225-246	10
1137	COVID-19 in people living with HIV: Clinical implications of dynamics of the immune response to SARS-CoV-2. <b>2021</b> , 93, 1796-1804	18
1136	Rapid diagnostics of coronavirus disease 2019 in early stages using nanobiosensors: Challenges and opportunities. <b>2021</b> , 223, 121704	15
1135	High Frequency of SARS-CoV-2 RNAemia and Association With Severe Disease. <b>2021</b> , 72, e291-e295	57
1134	Ultrasensitive supersandwich-type electrochemical sensor for SARS-CoV-2 from the infected COVID-19 patients using a smartphone. <b>2021</b> , 327, 128899	160
1133	Detection of SARS-CoV-2 in raw and treated wastewater in Germany - Suitability for COVID-19 surveillance and potential transmission risks. <b>2021</b> , 751, 141750	180
1132	Conventional PCR assisted single-component assembly of spherical nucleic acids for simple colorimetric detection of SARS-CoV-2. <b>2021</b> , 328, 128971	22
1131	Burn Unit admission and management protocol during COVID-19 pandemic. <b>2021</b> , 47, 52-57	2
1130	The novel SARS-CoV-2 pandemic: Possible environmental transmission, detection, persistence and fate during wastewater and water treatment. <b>2021</b> , 765, 142746	39
1129	Environmental contamination in a coronavirus disease 2019 (COVID-19) intensive care unit-What is the risk?. <b>2021</b> , 42, 669-677	18
1128	Multiplex Real-Time Reverse-Transcription Polymerase Chain Reaction Assays for Diagnostic Testing of Severe Acute Respiratory Syndrome Coronavirus 2 and Seasonal Influenza Viruses: A Challenge of the Phase 3 Pandemic Setting. <b>2021</b> , 223, 765-774	13
1127	Impact on disease mortality of clinical, biological, and virological characteristics at hospital admission and overtime in COVID-19 patients. <b>2021</b> , 93, 2149-2159	21
1126	SARS-CoV-2 pandemic: a review of molecular diagnostic tools including sample collection and commercial response with associated advantages and limitations. <b>2021</b> , 413, 49-71	60
1125	Maintaining plasma quality and safety in the state of ongoing epidemic - The role of pathogen reduction. <b>2021</b> , 60, 102953	1
1124	Can urine be a potential biohazard in times of SARS-CoV-2 pandemic?. <b>2021</b> , 93, 1259-1261	1

1123	The role of lung ultrasound as a frontline diagnostic tool in the era of COVID-19 outbreak. <b>2021</b> , 16, 749-756	18
1122	Overall decrease in SARS-CoV-2 viral load and reduction in clinical burden: the experience of a hospital in northern Italy. <b>2021</b> , 27, 131.e1-131.e3	11
1121	Rapid response flow cytometric assay for the detection of antibody responses to SARS-CoV-2. <b>2021</b> , 40, 751-759	15
1120	Atypical presentation of COVID-19 in hospitalised older adults. <b>2021</b> , 190, 469-474	24
1119	Laboratory diagnosis of COVID-19 in China: A review of challenging cases and analysis. <b>2021</b> , 54, 17-26	5
1118	Laboratory diagnosis of COVID-19. <b>2021</b> , 97, 7-12	38
1117	Analysis of SARS-CoV-2 mutations in Mexico, Belize, and isolated regions of Guatemala and its implication in the diagnosis. <b>2021</b> , 93, 2099-2114	6
1116	Quantitative Chest CT analysis in discriminating COVID-19 from non-COVID-19 patients. <b>2021</b> , 126, 243-249	28
1115	Current progress on COVID-19 related to biosensing technologies: New opportunity for detection and monitoring of viruses. <b>2021</b> , 160, 105606	19
1114	COVID-19 lockdown: animal life, ecosystem and atmospheric environment. <b>2020</b> , 23, 1-18	18
1113	One-step rapid quantification of SARS-CoV-2 virus particles via low-cost nanoplasmonic sensors in generic microplate reader and point-of-care device. <b>2021</b> , 171, 112685	96
1112	Proof of SARS-CoV-2 genomes in endomyocardial biopsy with latency after acute infection. <b>2021</b> , 102, 70-72	11
1111	SARS-CoV-2 has been circulating in northern Italy since December 2019: Evidence from environmental monitoring. <b>2021</b> , 750, 141711	150
1110	SARS-CoV-2 RNA detection and persistence in wastewater samples: An experimental network for COVID-19 environmental surveillance in Padua, Veneto Region (NE Italy). <b>2021</b> , 760, 143329	35
1109	COVID-19 in Australia: our national response to the first cases of SARS-CoV-2 infection during the early biocontainment phase. <b>2021</b> , 51, 42-51	2
1108	Secondary Attack Rate and Family Clustering of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection in Children of Healthcare Workers With Confirmed Coronavirus Disease 2019 (COVID-19). <b>2021</b> , 73, e260-e263	5
1107	Epidemiology and diagnosis, environmental resources quality and socio-economic perspectives for COVID-19 pandemic. <b>2021</b> , 280, 111700	23
1106	Detection of SARS-CoV-2 in wastewater in Japan during a COVID-19 outbreak. <b>2021</b> , 758, 143578	83



1105	Adjusting RT-qPCR conditions to avoid unspecific amplification in SARS-CoV-2 diagnosis. <b>2021</b> , 102, 437-439	6
1104	Evaluating 10 Commercially Available SARS-CoV-2 Rapid Serological Tests by Use of the STARD (Standards for Reporting of Diagnostic Accuracy Studies) Method. <b>2021</b> , 59,	10
1103	Surveillance of SARS-CoV-2 in sewage and wastewater treatment plants in Mexico.. <b>2021</b> , 40, 101815	26
1102	Notes from the Field: Effectiveness of Prevention and Control Measures for Imported COVID-19 in Guangming District of Shenzhen. <b>2021</b> , 44, 93-97	
1101	Over 90% of clinical swabs used for SARS-CoV-2 diagnostics contain sufficient nucleic acid concentrations. <b>2021</b> , 93, 2848-2856	2
1100	Full-length genome sequencing of RNA viruses-How the approach can enlighten us on hepatitis C and hepatitis E viruses. <b>2021</b> , 31, e2197	
1099	A Case-Control Study of the 2019 Influenza Vaccine and Incidence of COVID-19 Among Healthcare Workers. <b>2021</b> , 41, 324-334	10
1098	Detection of Sars-Cov-2 in the air of two hospitals in Hermosillo, Sonora, Mxico, utilizing a low-cost environmental monitoring system. <b>2021</b> , 102, 478-482	5
1097	3D printing of nasopharyngeal swabs for COVID-19 diagnose: Past and current trends. <b>2021</b> , 44, 1361-1368	10
1096	Amplification-free detection of SARS-CoV-2 with CRISPR-Cas13a and mobile phone microscopy. <b>2021</b> , 184, 323-333.e9	205
1095	Evaluation of a SARS-CoV-2 rapid antigen test: Potential to help reduce community spread?. <b>2021</b> , 135, 104713	62
1094	Rapid Implementation of Severe Acute Respiratory Syndrome Coronavirus 2 Emergency Use Authorization RT-PCR Testing and Experience at an Academic Medical Institution. <b>2021</b> , 23, 149-158	3
1093	Performance Characteristics of Severe Acute Respiratory Syndrome Coronavirus 2 RT-PCR Tests in a Single Health System: Analysis of >10,000 Results from Three Different Assays. <b>2021</b> , 23, 159-163	9
1092	Evaluating SARS-CoV-2 spike and nucleocapsid proteins as targets for antibody detection in severe and mild COVID-19 cases using a Luminex bead-based assay. <b>2021</b> , 288, 114025	50
1091	Comparison of three TaqMan real-time reverse transcription-PCR assays in detecting SARS-CoV-2. <b>2021</b> , 288, 114030	6
1090	Evaluation of SYBR Green real time PCR for detecting SARS-CoV-2 from clinical samples. <b>2021</b> , 289, 114035	8
1089	SARS-CoV-2 RNA monitoring in wastewater as a potential early warning system for COVID-19 transmission in the community: A temporal case study. <b>2021</b> , 761, 144216	85
1088	Population-based prevalence surveys during the Covid-19 pandemic: A systematic review. <b>2021</b> , 31, e2200	12

1087	Vertical transmission and kidney damage in newborns whose mothers had coronavirus disease 2019 during pregnancy. <b>2021</b> , 57, 106260	9
1086	Comparing analytical methods to detect SARS-CoV-2 in wastewater. <b>2021</b> , 758, 143870	48
1085	Coronavirus Pandemic - SARS-CoV-2 in Orthopedics and Trauma Surgery. <b>2021</b> , 159, 25-31	1
1084	Repurposing potential of FDA-approved and investigational drugs for COVID-19 targeting SARS-CoV-2 spike and main protease and validation by machine learning algorithm. <b>2021</b> , 97, 836-853	15
1083	Evaluation of Rooming-in Practice for Neonates Born to Mothers With Severe Acute Respiratory Syndrome Coronavirus 2 Infection in Italy. <b>2021</b> , 175, 260-266	30
1082	Salivary Detection of COVID-19. <b>2021</b> , 174, 131-133	37
1081	Clinical significance of the serum IgM and IgG to SARS-CoV-2 in coronavirus disease-2019. <b>2021</b> , 35, e23649	8
1080	Point-of-care lung ultrasound findings in the pediatric emergency clinic during the COVID-19 pandemic. <b>2021</b> , 49, 85-90	4
1079	Digital CRISPR/Cas-Assisted Assay for Rapid and Sensitive Detection of SARS-CoV-2. <b>2021</b> , 8, 2003564	36
1078	Accuracy of galactomannan testing on tracheal aspirates in COVID-19-associated pulmonary aspergillosis. <b>2021</b> , 64, 364-371	24
1077	Current methods for diagnosis of human coronaviruses: pros and cons. <b>2021</b> , 413, 2311-2330	24
1076	SARS-CoV-2 concentrations and virus-laden aerosol size distributions in outdoor air in north and south of Italy. <b>2021</b> , 146, 106255	57
1075	Evaluation of seven commercial RT-PCR kits for COVID-19 testing in pooled clinical specimens. <b>2021</b> , 93, 2281-2286	36
1074	Immunoglobulin deficiency as an indicator of disease severity in patients with COVID-19. <b>2021</b> , 320, L590-L599	5
1073	Estimates of serial interval for COVID-19: A systematic review and meta-analysis. <b>2021</b> , 9, 157-161	45
1072	Renal transplantation during the SARS-CoV-2 pandemic in the UK: Experience from a large-volume center. <b>2021</b> , 35, e14150	8
1071	Inference of Active Viral Replication in Cases with Sustained Positive Reverse Transcription-PCR Results for SARS-CoV-2. <b>2021</b> , 59,	18
1070	Wastewater surveillance for SARS-CoV-2: Lessons learnt from recent studies to define future applications. <b>2021</b> , 759, 143493	38

1069	Chest CT in the Emergency Department for Diagnosis of COVID-19 Pneumonia: Dutch Experience. <b>2021</b> , 298, E98-E106	19
1068	Genetic analysis of the 2019 coronavirus pandemic with from real-time reverse transcriptase polymerase chain reaction. <b>2021</b> , 28, 911-916	3
1067	The experience of the health care workers of a severely hit SARS-CoV-2 referral Hospital in Italy: incidence, clinical course and modifiable risk factors for COVID-19 infection. <b>2021</b> , 43, 26-34	16
1066	Rapid adaptation and continuous performance evaluation of SARS-CoV-2 envelope gene (E-gene) real-time RT-PCR assays to support the hospital surge in test demand. <b>2021</b> , 93, 1824-1827	3
1065	COVID-19: Virology, biology and novel laboratory diagnosis. <b>2021</b> , 23, e3303	71
1064	Novel automated sample-to-result SARS-CoV-2 laboratory-developed RT-PCR assay for high-throughput testing using LabTurbo AIO 48 system. <b>2021</b> , 514, 54-58	8
1063	Real-life validation of the Panbio COVID-19 antigen rapid test (Abbott) in community-dwelling subjects with symptoms of potential SARS-CoV-2 infection. <b>2021</b> , 31, 100677	91
1062	A highly effective reverse-transcription loop-mediated isothermal amplification (RT-LAMP) assay for the rapid detection of SARS-CoV-2 infection. <b>2021</b> , 82, 117-125	36
1061	Emerging biosensing technologies for improved diagnostics of COVID-19 and future pandemics. <b>2021</b> , 225, 121986	21
1060	Serum pooling for rapid expansion of anti-SARS-CoV-2 antibody testing capacity. <b>2021</b> , 28, 51-54	6
1059	A computational approach to design potential siRNA molecules as a prospective tool for silencing nucleocapsid phosphoprotein and surface glycoprotein gene of SARS-CoV-2. <b>2021</b> , 113, 331-343	23
1058	Recent Insights into Emerging Coronavirus: SARS-CoV-2. <b>2021</b> , 7, 1369-1388	13
1057	COVID-19: neonatal-perinatal perspectives. <b>2021</b> , 41, 940-951	33
1056	Detection of RNA viruses from influenza and HIV to Ebola and SARS-CoV-2: a review. <b>2021</b> , 13, 34-55	11
1055	IL-6 and other biomarkers as predictors of severity in COVID-19. <b>2021</b> , 53, 410-412	28
1054	Next generation sequencing of SARS-CoV-2 genomes: challenges, applications and opportunities. <b>2021</b> , 22, 616-630	59
1053	Multicenter Evaluation of the Clinical Performance and the Neutralizing Antibody Activity Prediction Properties of 10 High-Throughput Serological Assays Used in Clinical Laboratories. <b>2021</b> , 59,	15
1052	A Highly Specific Assay for the Detection of SARS-CoV-2-Reactive CD4 and CD8 T Cells in COVID-19 Patients. <b>2021</b> , 206, 580-587	5

1051	Ravaging SARS-CoV-2: rudimentary diagnosis and puzzling immunological responses. <b>2021</b> , 37, 207-217	2
1050	Efficacy of commercial mouth-rinses on SARS-CoV-2 viral load in saliva: randomized control trial in Singapore. <b>2021</b> , 49, 305-311	50
1049	Co-infection of SARS-CoV-2 with other respiratory viruses and performance of lower respiratory tract samples for the diagnosis of COVID-19. <b>2021</b> , 102, 10-13	23
1048	Longitudinal Monitoring of SARS-CoV-2 RNA on High-Touch Surfaces in a Community Setting. <b>2021</b> , 8, 168-175	62
1047	Convalescent plasma treatment of persistent severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) infection in patients with lymphoma with impaired humoral immunity and lack of neutralising antibodies. <b>2021</b> , 192, 1100-1105	26
1046	Viral Pneumonia Screening on Chest X-Rays Using Confidence-Aware Anomaly Detection. <b>2021</b> , 40, 879-890	89
1045	Convalescent plasma therapy for the treatment of patients with COVID-19: Assessment of methods available for antibody detection and their correlation with neutralising antibody levels. <b>2021</b> , 31, 167-175	42
1044	The potential application of electrochemical biosensors in the COVID-19 pandemic: A perspective on the rapid diagnostics of SARS-CoV-2. <b>2021</b> , 176, 112905	49
1043	Diagnosis of the coronavirus disease 2019 with chest computed tomography: A retrospective inter-observer agreement study between radiologists and clinicians. <b>2021</b> , 28, 15-21	2
1042	Search for SARS-CoV-2 RNA in platelets from COVID-19 patients. <b>2021</b> , 32, 284-287	11
1041	Variable Sensitivity of SARS-CoV-2 Molecular Detection in European Expert Laboratories: External Quality Assessment, June and July 2020. <b>2021</b> , 59,	10
1040	Viral Ribonucleic Acid Shedding and Transmission Potential of Asymptomatic and Paucisymptomatic Coronavirus Disease 2019 Patients. <b>2021</b> , 8, ofaa599	3
1039	Specificity and positive predictive value of SARS-CoV-2 nucleic acid amplification testing in a low-prevalence setting. <b>2021</b> , 27, 469.e9-469.e15	25
1038	Evaluation of the BioFire <sup>®</sup> COVID-19 test and Respiratory Panel 2.1 for rapid identification of SARS-CoV-2 in nasopharyngeal swab samples. <b>2021</b> , 99, 115260	23
1037	Prospective Sero-epidemiological Evaluation of SARS-CoV-2 among Health Care Workers in a German Secondary Care Hospital. <b>2021</b> , 102, 136-143	13
1036	SARS-CoV-2 -RNA persists longer in faecal sample as compared to nasal and throat swab samples of COVID-19 patients'; an observational study. <b>2021</b> , 39, 122-124	3
1035	Taiwan's COVID-19 response: Timely case detection and quarantine, January to June 2020. <b>2021</b> , 120, 1400-1404	5
1034	External Quality Assessment for Molecular Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Clinical Laboratories. <b>2021</b> , 23, 19-28	7

1033	Sensing of COVID-19 Antibodies in Seconds via Aerosol Jet Nanoprinted Reduced-Graphene-Oxide-Coated 3D Electrodes. <b>2021</b> , 33, e2006647	77
1032	Territorywide Study of Early Coronavirus Disease Outbreak, Hong Kong, China. <b>2021</b> , 27, 196-204	7
1031	Head-to-head comparison of SARS-CoV-2 antigen-detecting rapid test with self-collected nasal swab professional-collected nasopharyngeal swab. <b>2021</b> , 57,	73
1030	Characteristics and mechanisms to control a COVID-19 outbreak on a leukemia and stem cell transplantation unit. <b>2021</b> , 10, 237-246	3
1029	Retarded decline of the share of SARS-CoV-2-positive children in North Rhine-Westphalia, Germany. <b>2021</b> , 93, 2039-2045	1
1028	No SARS-CoV-2 carriage observed in children attending daycare centers during the initial weeks of the epidemic in Belgium. <b>2021</b> , 93, 1828-1831	10
1027	Epidemiology and precision of SARS-CoV-2 detection following lockdown and relaxation measures. <b>2021</b> , 93, 2374-2384	8
1026	Interpretation of laboratory tests for prevention of the SARS-CoV-2 transmission. <b>2021</b> , 35, 374-377	1
1025	CT features of coronavirus disease 2019 (COVID-19) with an emphasis on the vascular enlargement pattern. <b>2021</b> , 134, 109442	5
1024	Commercialized diagnostic technologies to combat SARS-CoV2: Advantages and disadvantages. <b>2021</b> , 225, 121898	18
1023	Psychological problems in general population during covid-19 pandemic in Pakistan: role of cognitive emotion regulation. <b>2021</b> , 53, 189-196	9
1022	Prediction of Covid-19 trends in Europe using generalized regression neural network optimized by flower pollination algorithm. <b>2021</b> , 24, 33-51	7
1021	Periodontal tissues are targets for Sars-Cov-2: a post-mortem study. <b>2020</b> , 13, 1848135	23
1020	Molecular epidemiology in the HIV and SARS-CoV-2 pandemics. <b>2021</b> , 16, 11-24	2
1019	C values from SARS-CoV-2 diagnostic PCR assays should not be used as direct estimates of viral load. <b>2021</b> , 82, 414-451	54
1018	SARS-CoV-2 in hospital wastewater during outbreak of COVID-19: A review on detection, survival and disinfection technologies. <b>2021</b> , 761, 143192	32
1017	Optical Biosensors for Virus Detection: Prospects for SARS-CoV-2/COVID-19. <b>2021</b> , 22, 1176-1189	51
1016	End-point RT-PCR: A potential alternative for diagnosing coronavirus disease 2019 (COVID-19). <b>2021</b> , 288, 114007	9

1015	Is Lung Ultrasound Imaging a Worthwhile Procedure for Severe Acute Respiratory Syndrome Coronavirus 2 Pneumonia Detection?. <b>2021</b> , 40, 1113-1123	14
1014	Performance evaluation of five ELISA kits for detecting anti-SARS-COV-2 IgG antibodies. <b>2021</b> , 102, 181-187	12
1013	Validation of a SARS-CoV-2 RNA RT-PCR assay for high-throughput testing in blood of COVID-19 convalescent plasma donors and patients. <b>2021</b> , 61, 368-374	1
1012	Seroconversion in patients with cancer and oncology health care workers infected by SARS-CoV-2. <b>2021</b> , 32, 113-119	30
1011	COVID-19 diagnosis -A review of current methods. <b>2021</b> , 172, 112752	166
1010	opvCRISPR: One-pot visual RT-LAMP-CRISPR platform for SARS-cov-2 detection. <b>2021</b> , 172, 112766	77
1009	Recurrence of SARS-CoV-2 viral RNA in recovered COVID-19 patients: a narrative review. <b>2021</b> , 40, 13-25	54
1008	Detection of SARS-CoV-2 RNA in hospital wastewater from a low COVID-19 disease prevalence area. <b>2021</b> , 755, 143226	42
1007	Liquid-based cytological and immunohistochemical study of nasopharyngeal swab from persons under investigation for SARS-CoV-2 infection. <b>2021</b> , 78, 586-592	3
1006	No SARS-CoV-2 detected in air samples (pollen and particulate matter) in Leipzig during the first spread. <b>2021</b> , 755, 142881	15
1005	Assessing the potential association between SARS-CoV-2 RNA load in the respiratory tract and COVID-19 mortality. <b>2021</b> , 93, 1862-1864	1
1004	Characterization of antibody responses to SARS-CoV-2 in convalescent COVID-19 patients. <b>2021</b> , 93, 2227-2233	34
1003	SARS-CoV-2 testing and infection control strategies in European paediatric emergency departments during the first wave of the pandemic. <b>2021</b> , 180, 1299-1305	7
1002	Partial compliance with symptom-based testing pathways reveals asymptomatic carriage of SARS-CoV-2 in Ireland. <b>2021</b> , 190, 485-489	
1001	Sensitive detection and quantification of SARS-CoV-2 by multiplex droplet digital RT-PCR. <b>2021</b> , 40, 807-813	21
1000	Chest high-resolution computed tomography is associated to short-time progression to severe disease in patients with COVID-19 pneumonia. <b>2021</b> , 70, 61-66	1
999	Field evaluation of the performance of a SARS-CoV-2 antigen rapid diagnostic test in Uganda using nasopharyngeal samples. <b>2021</b> , 104, 282-286	56
998	Prospective Longitudinal Evaluation of Point-of-Care Lung Ultrasound in Critically Ill Patients With Severe COVID-19 Pneumonia. <b>2021</b> , 40, 443-456	22

997	Changes in serum virus-specific IgM/IgG antibody in asymptomatic and discharged patients with reoccurring positive COVID-19 nucleic acid test (RPNAT). <b>2021</b> , 53, 34-42	9
996	Epidemiology, Outcomes, and Associated Factors of Coronavirus Disease 2019 (COVID-19) Reverse Transcriptase Polymerase Chain Reaction-Confirmed Cases in the San Pedro Sula Metropolitan Area, Honduras. <b>2021</b> , 72, e476-e483	6
995	Detection of SARS-CoV-2 in pets living with COVID-19 owners diagnosed during the COVID-19 lockdown in Spain: A case of an asymptomatic cat with SARS-CoV-2 in Europe. <b>2021</b> , 68, 973-976	65
994	SARS-CoV-2 molecular testing for the diagnosis of COVID-19: One test does not fit all. <b>2021</b> , 93, 712-713	3
993	SARS-CoV-2 infection of Chinese hamsters ( <i>Cricetulus griseus</i> ) reproduces COVID-19 pneumonia in a well-established small animal model. <b>2021</b> , 68, 1075-1079	30
992	Gastrointestinal coronavirus disease 2019: epidemiology, clinical features, pathogenesis, prevention, and management. <b>2021</b> , 15, 41-50	15
991	Interest of the cellular population data analysis as an aid in the early diagnosis of SARS-CoV-2 infection. <b>2021</b> , 43, 116-122	4
990	Classification of Coronavirus (COVID-19) from X-ray and CT images using shrunken features. <b>2020</b> , 31, 5	35
989	Antibody response and the clinical presentation of patients with COVID-19 in Croatia: the importance of a two-step testing approach. <b>2021</b> , 40, 261-268	8
988	SARS-CoV-2 respiratory viral loads and association with clinical and biological features. <b>2021</b> , 93, 1761-1765	10
987	One-step quantitative RT-PCR assay with armored RNA controls for detection of SARS-CoV-2. <b>2021</b> , 93, 1694-1701	5
986	A survey assessing the early effects of COVID-19 pandemic on oral and maxillofacial surgery training programs. <b>2021</b> , 131, 27-42	15
985	T-cell responses and therapies against SARS-CoV-2 infection. <b>2021</b> , 162, 30-43	60
984	Evaluation of three commercial assays for SARS-CoV-2 molecular detection in upper respiratory tract samples. <b>2021</b> , 40, 269-277	27
983	Detection of environmental SARS-CoV-2 RNA in a high prevalence setting in Spain. <b>2021</b> , 68, 1487-1492	21
982	Diagnostic performance of low-dose chest CT to detect COVID-19: A Turkish population study. <b>2021</b> , 27, 181-187	7
981	Diagnostic approaches in COVID-19: clinical updates. <b>2021</b> , 15, 197-212	26
980	Recent biotechnological tools for diagnosis of corona virus disease: A review. <b>2021</b> , 37, e3078	17

979	Identification of the RNase-binding site of SARS-CoV-2 RNA for anchor primer-PCR detection of viral loading in 306 COVID-19 patients. <b>2021</b> , 22, 1215-1224	1
978	SARS-CoV-2: Mechanism of infection and emerging technologies for future prospects.. <b>2021</b> , 31, e2168	14
977	Risk factors for Covid-19 severity and fatality: a structured literature review. <b>2021</b> , 49, 15-28	142
976	Diagnosis of COVID-19 Infection in Pregnancy. <b>2021</b> , 39-62	1
975	Explosive Nosocomial Outbreak of SARS-CoV-2 in a Rehabilitation Clinic: The Limits of Genomics for Outbreak Reconstruction.	4
974	Imaging of abdominal complications of COVID-19 infection. <b>2021</b> , 2, 20200052	4
973	COVID-19 Detection Using Computer Vision and Deep Convolution Neural Network. <b>2021</b> , 323-331	2
972	COVID-19 Sample Pooling: From RNA Extraction to Quantitative Real-time RT-PCR. <b>2021</b> , 11, e4005	1
971	A Review of Novel Methods for Diagnosing COVID-19. <b>2021</b> , 858-866	
970	Specific and Rapid SARS-CoV-2 Identification Based on LC-MS/MS Analysis. <b>2021</b> , 6, 3525-3534	12
969	Detectable SARS-CoV-2 RNAemia in Critically Ill Patients, but Not in Mild and Asymptomatic Infections. <b>2021</b> , 48, 154-160	0
968	Validation of GeneXpert testing for SARS-CoV-2 RNA in eight hospital laboratories in Oman. <b>2021</b> , 40, 2	0
967	Colorimetric RT-LAMP and LAMP-sequencing for Detecting SARS-CoV-2 RNA in Clinical Samples. <b>2021</b> , 11, e3964	0
966	COVID-19: What Should the General Practitioner Know?. <b>2021</b> , 16, 43-56	4
965	Modeling and forecasting the spread of COVID-19 pandemic in India and significance of lockdown: A mathematical outlook. <b>2021</b> , 257-289	0
964	SARS-CoV-2 in Mexico: Beyond Detection Methods, Scope and Limitations. <b>2021</b> , 11,	2
963	Acute Stroke Care during the COVID-19 Pandemic: Reduction in the Number of Admissions of Elderly Patients and Increase in Prehospital Delays. <b>2021</b> , 50, 310-316	3
962	Detection and viral RNA shedding of SARS-CoV-2 in respiratory specimens relative to symptom onset among COVID-19 patients in Bavaria, Germany. <b>2021</b> , 149, e150	1



961	In vitro characterisation of SARS-CoV-2 and susceptibility of domestic ferrets ( <i>Mustela putorius furo</i> ). <b>2021</b> ,	6
960	Sub-5-minute Detection of SARS-CoV-2 RNA using a Reverse Transcriptase-Free Exponential Amplification Reaction, RTF-EXPAR.	3
959	Evaluation of the relationship between COVID-19 pneumonia severity and pulmonary artery diameter measurement. <b>2021</b> , 46, 56-62	4
958	Methods to mitigate infection spread from aerosol-generating dental procedures. <b>2021</b> , 92, 784-792	2
957	Impaired performance of SARS-CoV-2 antigen-detecting rapid tests at elevated temperatures.	3
956	COVID-19 Impact on Diagnostic Innovations: Emerging Trends and Implications. <b>2021</b> , 11,	10
955	SARS-CoV-2 viral load distribution reveals that viral loads increase with age: a retrospective cross-sectional cohort study.	12
954	A Survey on Machine Learning in COVID-19 Diagnosis. <b>2021</b> , 129, 1-49	1
953	Intranasal ChAdOx1 nCoV-19/AZD1222 vaccination reduces shedding of SARS-CoV-2 D614G in rhesus macaques. <b>2021</b> ,	27
952	Host-directed therapies against early-lineage SARS-CoV-2 retain efficacy against B.1.1.7 variant. <b>2021</b> ,	14
951	Ultrarapid On-Site Detection of SARS-CoV-2 Infection Using Simple ATR-FTIR Spectroscopy and an Analysis Algorithm: High Sensitivity and Specificity. <b>2021</b> , 93, 2950-2958	32
950	Nucleic Acid-Based Diagnostic Tests for the Detection SARS-CoV-2: An Update. <b>2021</b> , 11,	37
949	Pooling for SARS-CoV-2-testing: comparison of three commercially available RT-qPCR kits in an experimental approach. <b>2021</b> , 59, e243-e245	4
948	COVID-19: Recent Developments in Therapeutic Approaches. <b>2021</b> , 249-274	3
947	Ruling out COVID-19 by chest CT at emergency admission when prevalence is low: the prospective, observational SCOUT study. <b>2021</b> , 22, 13	5
946	Machine Learning-Driven and Smartphone-Based Fluorescence Detection for CRISPR Diagnostic of SARS-CoV-2. <b>2021</b> , 6, 2727-2733	14
945	First genome sequencing of SARS-CoV-2 recovered from an infected cat and its owner in Latin America. <b>2021</b> , 68, 3070-3074	13
944	Impact of viral load at admission on the development of respiratory failure in hospitalized patients with SARS-CoV-2 infection. <b>2021</b> , 40, 1209-1216	22

943	Electrolyte imbalance in COVID-19 patients admitted to the Emergency Department: a case-control study. <b>2021</b> , 16, 1945-1950	20
942	Risk for SARS-CoV-2 Infection in Healthcare Workers, Turin, Italy. <b>2021</b> , 27,	18
941	Covid-19 Automated Diagnosis and Risk Assessment through Metabolomics and Machine Learning. <b>2021</b> , 93, 2471-2479	41
940	CRISPR Systems for COVID-19 Diagnosis. <b>2021</b> , 6, 1430-1445	37
939	On Pilot Massive COVID-19 Testing by Antigen Tests in Europe. Case Study: Slovakia. <b>2021</b> , 13, 45-57	16
938	Prior SARS-CoV-2 Infection Prevents Acute Disease and Lung Pathology in Reinfected&nbsp;Syrian Hamsters but not Virus Replication in the Upper Respiratory Tract.	1
937	K18-hACE2 mice develop respiratory disease resembling severe COVID-19. <b>2021</b> , 17, e1009195	96
936	The Main Sources and Potential Effects of COVID-19-Related Discrimination. <b>2021</b> , 1318, 705-725	4
935	Microbiota-derived short-chain fatty acids do not interfere with SARS-CoV-2 infection of human colonic samples. <b>2021</b> , 13, 1-9	17
934	CRISPR/Cas-based Diagnostics and Gene Therapy. <b>2021</b> ,	1
933	Public health management during COVID-19 and applications of point-of-care based biomolecular detection approaches. <b>2021</b> , 345-378	1
932	High infection attack rates of SARS-CoV-2 in Dutch households revealed by dense sampling.	7
931	Detection of respiratory viruses in patients with suspected SARS-CoV-2 infection. <b>2021</b> , 39, 52-53	1
930	An Overview of Nucleic Acid Testing for the Novel Coronavirus SARS-CoV-2. <b>2020</b> , 7, 571709	6
929	Kinetics and Correlates of the Neutralizing Antibody Response to SARS-CoV-2.	
928	SARS-CoV-2 (COVID-19): Beginning to Understand a New Virus. <b>2021</b> , 1321, 3-19	7
927	[Providing eye care during the COVID-19 pandemic]. <b>2021</b> , 137, 106-114	1
926	Diagnostic Tests for COVID-19. <b>2021</b> , 1318, 403-412	0

925	Diagnostic Tests for COVID-19 and Their Accuracy: Important Information for Physicians Caring for Patients with Stroke. <b>2021</b> , 15, 484-488	
924	Potential False-Positive and False-Negative Results for COVID-19 IgG/IgM Antibody Testing After Heat-Inactivation. <b>2020</b> , 7, 589080	1
923	Genomic epidemiology of the early stages of the SARS-CoV-2 outbreak in Russia. <b>2021</b> , 12, 649	24
922	Immunological Changes in Pregnancy and Its Relation to COVID-19 Infection. <b>2021</b> , 23-37	
921	Lack of viable severe acute respiratory coronavirus virus 2 (SARS-CoV-2) among PCR-positive air samples from hospital rooms and community isolation facilities. <b>2021</b> , 42, 1327-1332	12
920	Viral co-infections among SARS-CoV-2-infected children and infected adult household contacts. <b>2021</b> , 180, 1991-1995	6
919	Detection technologies and recent developments in the diagnosis of COVID-19 infection. <b>2021</b> , 105, 441-455	49
918	EDTA-K Improves the Detection Sensitivity of SARS-CoV-2 IgM and IgG Antibodies by Chelating Colloidal Gold in the Immunochromatographic Assay. <b>2021</b> , 16, 715-724	6
917	Die Kapitulation der ambulanten medizinischen Versorgung. <b>2021</b> , 33-37	
916	Controlling COVID-19 Pandemic: A Mass Screening Experience in Saudi Arabia. <b>2020</b> , 8, 606385	5
915	Sensitivity of SARS-CoV-2 Detection With Nasopharyngeal Swabs. <b>2020</b> , 8, 593491	15
914	COVID-19 autopsies: Procedure, technical aspects and cause of fatal course. Experiences from a single-center. <b>2021</b> , 217, 153305	12
913	Occupational and environmental exposure to SARS-CoV-2 in and around infected mink farms.	4
912	COVID-19 and human reproduction: A pandemic that packs a serious punch. <b>2021</b> , 67, 3-23	13
911	CRISPR technology incorporating amplification strategies: molecular assays for nucleic acids, proteins, and small molecules. <b>2021</b> , 12, 4683-4698	40
910	Correlation between Chest CT Severity Scores and the Clinical Parameters of Adult Patients with COVID-19 Pneumonia. <b>2021</b> , 2021, 6697677	28
909	Low molecular weight heparin use in COVID-19 is associated with curtailed viral persistence-a retrospective multicenter observational study. <b>2021</b> ,	6
908	SARS-CoV-2 Nucleocapsid Plasma Antigen for Diagnosis and Monitoring of COVID-19. <b>2021</b> ,	10

907	Implementation of Transfer Learning Technique for the Detection of COVID-19. <b>2021</b> , 135-140	1
906	Predicting in-hospital mortality from Coronavirus Disease 2019: A simple validated app for clinical use. <b>2021</b> , 16, e0245281	15
905	Morphology and morphogenesis of SARS-CoV-2 in Vero-E6 cells. <b>2021</b> , 116, e200443	11
904	Meta-MUMS COVID-19 web server: an online daily monitoring server for comparative and cumulative epidemiological analysis. <b>2021</b> , 1-3	
903	Existing and Promising Methods of Diagnosis for COVID-19. <b>2021</b> , 59-69	
902	Spike glycoproteins: Their significance for corona viruses and receptor binding activities for pathogenesis and viral survival. <b>2021</b> , 150, 104719	7
901	Performance of Nucleic Acid Amplification Tests for Detection of Severe Acute Respiratory Syndrome Coronavirus 2 in Prospectively Pooled Specimens. <b>2021</b> , 27,	5
900	Comparison of Five Serological Assays for the Detection of SARS-CoV-2 Antibodies. <b>2021</b> , 11,	5
899	Chronic comorbidities and clinical outcomes in patients with and without COVID-19: a large population-based study using national administrative healthcare open data of Mexico. <b>2021</b> , 16, 1507-1517	12
898	Lessons learned from COVID-19 outbreaks profile in combination with pathology, diagnosis, treatment and vaccines. <b>2021</b> , 292, 03069	
897	Detection and screening of COVID-19 through chest computed tomography radiographs using deep neural networks.. <b>2021</b> , 63-73	1
896	A 10-Minute "Mix and Read" Antibody Assay for SARS-CoV-2. <b>2021</b> , 13,	3
895	Rapid Spread of Mutant Alleles in Worldwide SARS-CoV-2 Strains Revealed by Genome-Wide Single Nucleotide Polymorphism and Variation Analysis. <b>2021</b> , 13,	10
894	Preparing for Emerging Zoonotic Viruses. <b>2021</b> , 256-266	4
893	A concise discussion on the potential spectral tools for the rapid COVID-19 detection. <b>2021</b> , 3, 100138	1
892	Intelligent Systems and Novel Coronavirus (COVID-19): A Bibliometric Analysis. <b>2021</b> , 59-67	3
891	Possible Involvement of Central Nervous System in COVID-19 and Sequence Variability of SARS-CoV-2 Revealed in Autopsy Tissue Samples: A Case Report. <b>2021</b> , 14, 2632010X211006096	2
890	Autopsy findings after long-term treatment of COVID-19 patients with microbiological correlation. <b>2021</b> , 479, 97-108	22

889	Can a field molecular diagnosis be accurate? A performance evaluation of colorimetric RT-LAMP for the detection of SARS-CoV-2 in a hospital setting. <b>2021</b> , 13, 2898-2907	3
888	COVID-19 testing: One size does not fit all. <b>2021</b> , 371, 126-127	85
887	Prevalence and Clinical Impact of SARS-CoV-2 Silent Carriers Among Actively Treated Patients with Cancer During the COVID-19 Pandemic. <b>2021</b> , 26, 341-347	6
886	Virus-sampling technologies in different environments. <b>2021</b> , 41-63	1
885	17Estradiol reduces SARS-CoV-2 infection in vitro. <b>2021</b> , 9, e14707	17
884	Comparison of clinical characteristics in patients with coronavirus disease and influenza A in Guangzhou, China. <b>2021</b> , 12, 287-292	1
883	A Review on COVID-19 Diagnosis Tests Approved for Use in Brazil and the Impact on Pandemic Control. <b>2021</b> , 64,	
882	The Relevance of Bioinformatics Applications in the Discovery of Vaccine Candidates and Potential Drugs for COVID-19 Treatment. <b>2021</b> , 15, 11779322211002168	6
881	Prevalence of SARS-CoV-2, Verona, Italy, April-May 2020. <b>2021</b> , 27,	3
880	Practical Considerations for Implementation of SARS-CoV-2 Serological Testing in the Clinical Laboratory: Experience at an Academic Medical Center. <b>2021</b> , 8, 23742895211002802	7
879	Understanding COVID-19 Pandemic: Molecular Mechanisms and Potential Therapeutic Strategies. An Evidence-Based Review. <b>2021</b> , 14, 13-56	19
878	Toward Rapid and Sensitive Detection of SARS-CoV-2 with Functionalized Magnetic Nanoparticles. <b>2021</b> , 6, 976-984	31
877	Targeting SARS-CoV-2 Novel Corona (COVID-19) Virus Infection Using Medicinal Plants. <b>2021</b> , 461-495	
876	Machine learning approaches in COVID-19 diagnosis, mortality, and severity risk prediction: A review. <b>2021</b> , 24, 100564	34
875	A novel SARS-CoV-2 related coronavirus in bats from Cambodia.	29
874	Structural Mapping of Mutations in Spike, RdRp and Orf3a Genes of SARS-CoV-2 in Influenza Like Illness (ILI) Patients. <b>2021</b> , 13,	2
873	Factors associated with admission to intensive care units in COVID-19 patients in Lyon-France. <b>2021</b> , 16, e0243709	8
872	Competing-risk analysis of coronavirus disease 2019 in-hospital mortality in a Northern Italian centre from SMAtteo Covid19 Registry (SMACORE). <b>2021</b> , 11, 1137	7

871	Clinical course and challenging management of early COVID-19 infection after heart transplantation: case report of two patients. <b>2021</b> , 21, 89	6
870	Exploration of natural compounds with anti-SARS-CoV-2 activity via inhibition of SARS-CoV-2 Mpro. <b>2021</b> , 22, 1361-1377	45
869	COVID-19: pathogenic mechanism, detection, and treatment. <b>2021</b> , 292, 03092	
868	Predicting Novel CoronaVirus 2019 with Machine Learning Algorithms. <b>2021</b> , 289-300	
867	Prior aerosol infection with lineage A SARS-CoV-2 variant protects hamsters from disease, but not reinfection with B.1.351 SARS-CoV-2 variant. <b>2021</b> , 10, 1284-1292	13
866	SARS-CoV-2-Diagnostik [was ist wirklich sinnvoll?]. <b>2021</b> , 10, 21-25	
865	Development and comparison of novel multiple cross displacement amplification (MCDA) assays with other nucleic acid amplification methods for SARS-CoV-2 detection. <b>2021</b> , 11, 1873	6
864	COVID 19 pandemic testing time - Crisis or opportunity in disguise for India?. <b>2021</b> , 48, 152-155	1
863	Prevalence and Factors associated with Mental health impact of COVID-19 Pandemic in Bangladesh: A survey based cross sectional study.	
862	Run length encoding based wavelet features for COVID-19 detection in X-rays. <b>2021</b> , 3, 20200028	0
861	Meta-Analysis of Robustness of COVID-19 Diagnostic Kits During Early Pandemic. <b>2021</b> ,	1
860	Summary of the Available Molecular Methods for Detection of SARS-CoV-2 during the Ongoing Pandemic. <b>2021</b> , 22,	18
859	Immunogenicity and efficacy of the COVID-19 candidate vector vaccine MVA SARS 2 S in preclinical vaccination.	6
858	Inter-reader agreement of high-resolution computed tomography findings in patients with COVID-19 pneumonia: A multi-reader study. <b>2021</b> , 126, 577-584	9
857	Testing of a dialysis machine used for a patient with coronavirus disease 2019 (COVID-19) for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). <b>2021</b> , 54, 31-35	
856	Susceptibility of turkeys, chickens and chicken embryos to SARS-CoV-2. <b>2021</b> , 68, 3038-3042	6
855	Updated insight into COVID-19 disease and health management to combat the pandemic. <b>2021</b> , 3-39	4
854	Reopening elite sport during the COVID-19 pandemic: Experiences from a controlled return to elite football in Denmark. <b>2021</b> , 31, 936-939	13

853	Modeling the COVID-19 Pandemic Dynamics in Iran and China. <b>2021</b> , 67, 2111-2122	8
852	Early low-molecular-weight heparin administration is associated with shorter time to SARS-CoV-2 swab negativity. <b>2020</b> , 25, 327-333	1
851	COVID-19 identification from volumetric chest CT scans using a progressively resized 3D-CNN incorporating segmentation, augmentation, and class-rebalancing. <b>2021</b> , 26, 100709	4
850	Rapid Diagnosis of Coronavirus by RNA-Directed RNA Transcription Using an Engineered RNA-based Platform. <b>2021</b> , 21, 462-468	5
849	Smart materials-integrated sensor technologies for COVID-19 diagnosis. <b>2021</b> , 4, 1-17	17
848	Potential Applications of Big Data for Managing the COVID-19 Pandemic. <b>2021</b> , 1720, 012002	1
847	EMCNet: Automated COVID-19 diagnosis from X-ray images using convolutional neural network and ensemble of machine learning classifiers. <b>2021</b> , 22, 100505	37
846	[Prevalence of SARS-CoV-2 in employees of a general hospital in Northrhine-Westphalia, Germany]. <b>2021</b> , 146, e30-e38	3
845	Fatal neuroinvasion of SARS-CoV-2 in K18-hACE2 mice is partially dependent on hACE2 expression. <b>2021</b> ,	16
844	SARS-CoV-2 viral RNA load dynamics in the nasopharynx of infected children. <b>2021</b> , 149, e18	7
843	Susceptibility of Domestic Swine to Experimental Infection with Severe Acute Respiratory Syndrome Coronavirus 2. <b>2021</b> , 27, 104-112	43
842	Introduction on Coronavirus Disease (COVID-19) Pandemic: The Global Challenge. <b>2021</b> , 1318, 1-22	0
841	COVID-19 Pandemic Panic: Prophylactic as Well as Therapeutic Management with Traditional Ethnic Phytopharmaceuticals with Challenging Nano-spray Inhaler and Advanced Drug Delivery System. <b>2021</b> , 437-460	
840	Genomic epidemiology of SARS-CoV-2 reveals multiple lineages and early spread of SARS-CoV-2 infections in Lombardy, Italy. <b>2021</b> , 12, 434	44
839	Suitcase Lab for Rapid Detection of SARS-CoV-2 Based on Recombinase Polymerase Amplification Assay. <b>2021</b> , 93, 2627-2634	34
838	Early-pandemic wastewater surveillance of SARS-CoV-2 in Southern Nevada: Methodology, occurrence, and incidence/prevalence considerations. <b>2021</b> , 10, 100086	90
837	A Push for Real Normal: Mass Screening for COVID-19. <b>2021</b> ,	0
836	Age-Specific Differences in the Severity of COVID-19 Between Children and Adults: Reality and Reasons. <b>2021</b> , 1327, 63-78	0

835	Evaluation of SARS CoV-2 RT-PCR in a multiple sample pool. <b>2021</b> , 153, 699-700	1
834	Route of SARS-CoV-2 in sewerage and wastewater treatment plants: dilution, decay, removal, and environmental transmission. <b>2021</b> , 145-176	0
833	Validation of a duplex PCR technique using the gen E and RNase P for the diagnosis of SARS-CoV-2. <b>2021</b> ,	1
832	Combined oropharyngeal/nasal swab is equivalent to nasopharyngeal sampling for SARS-CoV-2 diagnostic PCR. <b>2021</b> , 21, 31	9
831	Pathogenesis of COVID-19 and the quality control of nucleic acid detection. <b>2021</b> , 591, 137-137	1
830	SARS-CoV-2 Entry Genes Expression in Relation with Interferon Response in Cystic Fibrosis Patients. <b>2021</b> , 9,	1
829	Identifying Risk Factors That Distinguish Symptomatic Severe Acute Respiratory Syndrome Coronavirus 2 Infection From Common Upper Respiratory Infections in Children. <b>2021</b> , 13, e13266	1
828	Detection and disinfection of COVID-19 virus in wastewater. <b>2021</b> , 19, 1-17	17
827	Evaluation of patients with respiratory infections during the first pandemic wave in Germany: characteristics of COVID-19 versus non-COVID-19 patients. <b>2021</b> , 21, 167	4
826	A rigorous evaluation of optimal peptide targets for MS-based clinical diagnostics of Coronavirus Disease 2019 (COVID-19). <b>2021</b> ,	
825	Positive RT-PCR detected in patients recovered from COVID-19. <b>2021</b> , 50, 191-194	1
824	A rapid screening model for early predicting novel coronavirus pneumonia in Zhejiang Province of China: a multicenter study. <b>2021</b> , 11, 3863	1
823	Genome Sequence of a Strain from a Farmed Mink in The Netherlands. <b>2021</b> , 10,	0
822	Diagnosis, clinical characteristics, and outcomes of COVID-19 patients from a large healthcare system in northern New Jersey. <b>2021</b> , 11, 4389	3
821	Comparison Between Conventional Intervention and Non-immersive Virtual Reality in the Rehabilitation of Individuals in an Inpatient Unit for the Treatment of COVID-19: A Study Protocol for a Randomized Controlled Crossover Trial. <b>2021</b> , 12, 622618	4
820	Effects of Covid-19 on male reproductive system. <b>2021</b> , 47, 185-190	7
819	Detection of Coronaviruses Using RNA Toehold Switch Sensors. <b>2021</b> , 22,	5
818	Saliva samples for detection of SARS-CoV-2 in mildly symptomatic and asymptomatic patients. <b>2021</b> , 93, 2932-2937	8



817	Clinical evaluation of a fully automated, laboratory-developed multiplex RT-PCR assay integrating dual-target SARS-CoV-2 and influenza A/B detection on a high-throughput platform. <b>2021</b> , 70,	14
816	The Era of the Coronavirus Disease 2019 Pandemic: A Review on Dynamics, Clinical Symptoms and Complications, Diagnosis, and Treatment. <b>2021</b> , 25, 85-101	4
815	Sensitive detection of total anti-Spike antibodies and isotype switching in asymptomatic and symptomatic individuals with COVID-19. <b>2021</b> , 2, 100193	18
814	Performance and feasibility of universal PCR admission screening for SARS-CoV-2 in a German tertiary care hospital. <b>2021</b> , 93, 2890-2898	13
813	Prevalence of SARS-CoV-2 Infection in Children by Antibody Detection in Saliva: Protocol for a Prospective Longitudinal Study (Coro-Buddy). <b>2021</b> , 10, e27739	1
812	In Nasal Mucosal Secretions, Distinct IFN and IgA Responses Are Found in Severe and Mild SARS-CoV-2 Infection. <b>2021</b> , 12, 595343	6
811	Swab pooling: A new method for large-scale RT-qPCR screening of SARS-CoV-2 avoiding sample dilution. <b>2021</b> , 16, e0246544	11
810	Severe acute respiratory syndrome coronavirus 2 detected in placentas of 2 coronavirus disease 2019-positive asymptomatic pregnant women-case report. <b>2021</b> , 1, 100001	1
809	Diagnostics for SARS-CoV-2 infections. <b>2021</b> , 20, 593-605	186
808	SARS-CoV-2 antigen rapid immunoassay for diagnosis of COVID-19 in the emergency department. <b>2021</b> , 26, 213-220	29
807	Advances in emergent biological recognition elements and bioelectronics for diagnosing COVID-19. <b>2021</b> , 4, 1-17	3
806	COVID-19 and Dentistry in 72 Questions: An Overview of the Literature. <b>2021</b> , 10,	6
805	Aligner-Mediated Cleavage-Based Isothermal Amplification for SARS-CoV-2 RNA Detection. <b>2021</b> , 4, 3805-3810	2
804	Ultimate COVID-19 Detection Protocol Based on Saliva Sampling and qRT-PCR with Risk Probability Assessment. <b>2021</b> , 30, 13-31	
803	Multi-modality detection of SARS-CoV-2 in faecal donor samples for transplantation and in asymptomatic emergency surgical admissions.	
802	Identification of anti-severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) oxysterol derivatives in vitro.	1
801	Symptom Tracking and Experimentation Platform for Covid-19 or Similar Infections. <b>2021</b> , 10, 22	
800	Diagnostic accuracy of RT-PCR for detection of SARS-CoV-2 compared to a composite reference standard in hospitalized patients.	3

799 Epidemiology, Pathogenesis, and Healing Strategies of COVID-19.

798	Laboratory diagnosis of COVID-19: current status and challenges. <b>2021</b> , 13, 1-7	2
797	Molecular diagnostic assays for COVID-19: an overview. <b>2021</b> , 58, 385-398	21
796	SARS-CoV-2 Viremia is Associated With Inflammatory, But Not Cardiovascular Biomarkers, in Patients Hospitalized for COVID-19. <b>2021</b> , 10, e019756	7
795	Safety and Outcomes Associated with the Pharmacological Inhibition of the Kinin-Kallikrein System in Severe COVID-19. <b>2021</b> , 13,	11
794	Efferocytosis of SARS-CoV-2-infected dying cells impairs macrophage anti-inflammatory programming and continual clearance of apoptotic cells.	6
793	At the peak of COVID-19 age and disease severity but not comorbidities are predictors of mortality: COVID-19 burden in Bergamo, Italy. <b>2021</b> , 63, 51-61	11
792	Zealous clout of COVID-19: analytical research at sixes and sevens. <b>2021</b> , 10,	
791	CXCL17 Is a Specific Diagnostic Biomarker for Severe Pandemic Influenza A(H1N1) That Predicts Poor Clinical Outcome. <b>2021</b> , 12, 633297	1
790	SARS-CoV-2 causes brain inflammation and induces Lewy body formation in macaques.	10
789	Comparison of diagnostic accuracy for eight SARS-CoV-2 serological assays. <b>2021</b> , 31, 010708	4
788	Characterization of SARS-CoV-2 genetic structure and infection clusters in a large German city based on integrated genomic surveillance, outbreak analysis, and contact tracing.	2
787	Mass testing after a single suspected or confirmed case of COVID-19 in London care homes, April-May 2020: implications for policy and practice. <b>2021</b> , 50, 649-656	6
786	One-tube SARS-CoV-2 detection platform based on RT-RPA and CRISPR/Cas12a. <b>2021</b> , 19, 74	33
785	SARS-CoV-2 infection and adverse events in patients with cancer receiving immune checkpoint inhibitors: an observational prospective study. <b>2021</b> , 9,	11
784	Phylogenomics reveals viral sources, transmission, and potential superinfection in early-stage COVID-19 patients in Ontario, Canada. <b>2021</b> , 11, 3697	6
783	Plasma Exchange to Rescue Patients with Autoantibodies Against Type I Interferons and Life-Threatening COVID-19 Pneumonia. <b>2021</b> , 41, 536-544	31
782	Reverse Transcription Recombinase-Aided Amplification Assay With Lateral Flow Dipstick Assay for Rapid Detection of 2019 Novel Coronavirus. <b>2021</b> , 11, 613304	16

781	A deep learning algorithm using CT images to screen for Corona virus disease (COVID-19). <b>2021</b> , 31, 6096-6104	328
780	Analytical evaluation and critical appraisal of early commercial SARS-CoV-2 immunoassays for routine use in a diagnostic laboratory. <b>2021</b> , 78, 141-146	3
779	Antibody seroprevalence and rate of asymptomatic infections with SARS-CoV-2 in Austrian hospital personnel.	
778	Characteristics of chest high resolution computed tomography images of COVID-19: A retrospective study of 46 patients. <b>2021</b> , 37, 840-845	1
777	COVA1-18 neutralizing antibody protects against SARS-CoV-2 in three preclinical models. <b>2021</b> ,	10
776	Masks and closed-loop ventilators prevent environmental contamination by COVID-19 patients in negative-pressure environments. <b>2021</b> , 54, 81-84	6
775	Complicated Acute Appendicitis during COVID-19 Pandemic: The Hidden Epidemic in Children. <b>2021</b>	5
774	Evaluation of Antibody Response in Symptomatic and Asymptomatic COVID-19 Patients and Diagnostic Assessment of New IgM/IgG ELISA Kits. <b>2021</b> , 10,	12
773	Monitoring COVID-19 Transmission Risks by Quantitative Real-Time PCR Tracing of Droplets in Hospital and Living Environments. <b>2021</b> , 6,	7
772	Phenol-chloroform-based RNA purification for detection of SARS-CoV-2 by RT-qPCR: Comparison with automated systems. <b>2021</b> , 16, e0247524	5
771	Rapid electrochemical detection of coronavirus SARS-CoV-2. <b>2021</b> , 12, 802	113
770	Perspectives About Modulating Host Immune System in Targeting SARS-CoV-2 in India. <b>2021</b> , 12, 637362	2
769	Dynamics of SARS-CoV-2 shedding in the respiratory tract depends on the severity of disease in COVID-19 patients. <b>2021</b> , 58,	12
768	Comparison of 12 Molecular Detection Assays for Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). <b>2021</b> , 23, 164-170	16
767	Clinical Validation of Automated and Rapid mariPOC SARS-CoV-2 Antigen Test.	1
766	Electrochemical Biosensors for the Detection of SARS-CoV-2 and Other Viruses. <b>2021</b> , 12,	16
765	Think of the Children: Evaluation of SARS-CoV-2 Rapid Antigen Test in Pediatric Population. <b>2021</b> , 40, 385-388	19
764	Evolutionary Dynamics and Dissemination Pattern of the SARS-CoV-2 Lineage B.1.1.33 During the Early Pandemic Phase in Brazil. <b>2020</b> , 11, 615280	35

763	A review on current diagnostic techniques for COVID-19. <b>2021</b> , 21, 141-160	11
762	Evaluation of Two Methods to Concentrate SARS-CoV-2 from Untreated Wastewater. <b>2021</b> , 10,	11
761	Development of a reverse transcription droplet digital PCR (RT-ddPCR) assay for sensitive detection of simian immunodeficiency virus (SIV). <b>2021</b> , 18, 35	4
760	Molecular Insights into the Thrombotic and Microvascular Injury in Placental Endothelium of Women with Mild or Severe COVID-19. <b>2021</b> , 10,	14
759	Differentially conserved amino acid positions may reflect differences in SARS-CoV-2 and SARS-CoV behaviour. <b>2021</b> ,	4
758	Impact of the COVID-19 nonpharmaceutical interventions on influenza and other respiratory viral infections in New Zealand. <b>2021</b> , 12, 1001	68
757	Pooled testing conserves SARS-CoV-2 laboratory resources and improves test turn-around time: experience on the Kenyan Coast. <b>2020</b> , 5, 186	10
756	Multicenter evaluation of four immunoassays for the performance of early diagnosis of COVID-19 and assessment of antibody responses of patients with pneumonia in Taiwan. <b>2021</b> , 54, 816-829	3
755	Bronchoalveolar lavage affects thorax computed tomography of healthy and SARS-CoV-2 infected rhesus macaques ( <i>Macaca mulatta</i> ).	2
754	Multiplexed and Extraction-Free Amplification for Simplified SARS-CoV-2 RT-PCR Tests. <b>2021</b> , 93, 4160-4165	22
753	Comparative study of the loop-mediated isothermal amplification method and the QIAGEN PCR kit for the detection of EGFR mutations in non-small cell lung cancer. <b>2021</b> , 13, 743-753	1
752	The role of smart monitoring digital health care system based on smartphone application and personal health record platform for patients diagnosed with coronavirus disease 2019. <b>2021</b> , 21, 229	2
751	Harnessing recombinase polymerase amplification for rapid detection of SARS-CoV-2 in resource-limited settings.	
750	In vitro inactivation of SARS-CoV-2 with 0.5% povidone iodine nasal spray (Nasodine) at clinically relevant concentrations and timeframes using tissue culture and PCR based assays.	1
749	A prospective, longitudinal epidemiological observational study in children age-stratified by nursery and school attendance to determine exposure to SARS-COV-2 infection by antibody detection in saliva: The Coro-Buddy study protocol (Preprint).	
748	A serological assay to detect human SARS-CoV-2 antibodies. <b>2021</b> , 16, 57-62	9
747	Prolonged SARS-CoV-2-RNA Detection from Nasopharyngeal Swabs in an Oncologic Patient: What Impact on Cancer Treatment?. <b>2021</b> , 28, 847-852	0
746	Comparison of the Roche cobas 6800 SARS-CoV-2 test and the Taiwan CDC protocol for the molecular diagnosis of COVID-19. <b>2021</b> , 44, 101-104	5

745	CO-RADS versus CT-SS scores in predicting severe COVID-19 patients: retrospective comparative study. <b>2021</b> , 15,	5
744	Mapping of SARS-CoV-2 Brain Invasion and Histopathology in COVID-19 Disease. <b>2021</b> ,	25
743	Large-scale screening for severe acute respiratory coronavirus virus 2 (SARS-CoV-2) among healthcare workers: Prevalence and risk factors for asymptomatic and pauci-symptomatic carriers, with emphasis on the use of personal protective equipment (PPE). <b>2021</b> , 1-5	2
742	In-hospital mortality from severe COVID-19 in a tertiary care center in Mexico City; causes of death, risk factors and the impact of hospital saturation. <b>2021</b> , 16, e0245772	37
741	Implementation of an Extraction-Free COVID Real-Time PCR Workflow in a Pediatric Hospital Setting. <b>2021</b> , 6, 1441-1451	1
740	COVID-19-associated Nephropathy Includes Tubular Necrosis and Capillary Congestion, with Evidence of SARS-CoV-2 in the Nephron.. <b>2021</b> , 2, 639-652	6
739	Efficient Microfluidic-Based Air Sampling/Monitoring Platform for Detection of Aerosol SARS-CoV-2 On-site. <b>2021</b> , 93, 4270-4276	8
738	Combining rapid antigen testing and syndromic surveillance improves community-based COVID-19 detection in a low-income country. <b>2022</b> , 13,	0
737	Discovery proteomics analysis determines that driver oncogenes suppress antiviral defense pathways through reduction in interferon- $\beta$ autocrine stimulation. <b>2022</b> , 100247	
736	Phage-like particle vaccines are highly immunogenic and protect against pathogenic coronavirus infection and disease. <b>2022</b> , 7,	1
735	Isolation of SARS CoV-2 and evaluation of human-animal cases.	
734	Respiratory viruses in rural Zambia before and during the COVID-19 pandemic.	0
733	Emerging Human Coronaviruses (SARS-CoV-2) in the Environment Associated with Outbreaks Viral Pandemics.	0
732	A live attenuated vaccine confers superior mucosal and systemic immunity to SARS-CoV-2 variants.	
731	A new RT-LAMP-on-a-Chip Instrument for SARS-CoV-2 diagnostics. <b>2022</b> , 180, 107600	0
730	Sensitive and reproducible detection of SARS-CoV-2 using SERS-based microdroplet sensor. <b>2022</b> , 446, 137085	2
729	Imprinted antibody responses against SARS-CoV-2 Omicron sublineages.	5
728	Self-Assembled DNA Dendrons as Signal Amplifiers in DNA Probe-Based Chemiluminescent Assay for Enhanced Colorimetric Detection of Short Target Cdna.	



- 709 Longitudinal profiles of plasma gelsolin, cytokines and antibody expression predict COVID-19 severity and hospitalization outcomes.
- 708 Rapid antigen testing by community health workers for detection of SARS-CoV-2 in Dhaka, Bangladesh: a cross-sectional study. **2022**, 12, e060832 0
- 707 Comparison of characteristics and laboratory tests of COVID-19 hematological patients from France and Brazil during the pre-vaccination period: identification of prognostic profiles for survival. **2022**, 0
- 706 Performance of Antigen Detection Tests for SARS-CoV-2: A Systematic Review and Meta-Analysis. **2022**, 12, 1388 5
- 705 Autoantibodies and autoimmune disorders in SARS-CoV-2 infection: pathogenicity and immune regulation. 1
- 704 Performance study of the anterior nasal AMP SARS-CoV-2 rapid antigen test in comparison with nasopharyngeal rRT-PCR. **2022**, 4, 0
- 703 Psychological impact of COVID-19 pandemic on Parkinson's disease patients. **2022**, 8, e09604 0
- 702 Evaluation of the Panbio COVID-19 Antigen Rapid Diagnostic Test in Subjects Infected with Omicron Using Different Specimens. 0
- 701 Wastewater surveillance of SARS-CoV-2 in dormitories as a part of comprehensive university campus COVID-19 monitoring. **2022**, 113580 0
- 700 Seropositivity of main vector-borne pathogens in dogs across Europe. **2022**, 15, 2
- 699 Severe acute respiratory syndrome coronavirus 2 breakthrough infections in healthcare workers vaccinees with BNT162b2 (Pfizer-BioNtech) in Bogotá Colombia.
- 698 Identification of conserved regions from 230,163 SARS-CoV-2 genomes and their use in diagnostic PCR primer design.
- 697 A subunit vaccine candidate based on the Spike protein of SARS-CoV-2 prevents infectious virus shedding in cats. **2022**, 148, 52-64
- 696 COVID-19, Corona Virus Detection Using Artificial Intelligence. **2021**, 0
- 695 Testing and diagnosis of SARS-CoV-2 infection. **2022**, 49-79
- 694 Comparison of abbot Real Time SARS-COV-2 ASSAY, Genefinder COVID-19 plus realamp kit and Biomerieux Argene SARS-COV-2 R-Gene kit for the RT-PCR based detection of SARS-COV-2 from nasopharyngeal swabs. **2022**, 54, 427-438
- 693 Intranasal Pediatric Parainfluenza Virus-Vectored SARS-CoV-2 Vaccine Candidate Is Protective in Macaques.
- 692 Lexical modeling and weighted matrices for analyses of COVID-19 outbreak. **2022**, 313-340

691	SARS-CoV-2 Infection and Viral Replication of Human Lung Organoids v2.	
690	PARIS score for evaluation of probability of SARS-CoV-2 infection in cancer patients.	
689	Advanced Molecular and Immunological Diagnostic Methods to Detect SARS-CoV-2 Infection. <b>2022</b> , 10, 1193	7
688	Biological Properties of SARS-CoV-2 Variants: Epidemiological Impact and Clinical Consequences. <b>2022</b> , 10, 919	2
687	Improved Analysis of COVID-19 Influenced Pneumonia from the Chest X-Rays Using Fine-Tuned Residual Networks. <b>2022</b> , 2022, 1-13	0
686	Detection of SARS-CoV-2 in tissue: the comparative roles of RT-qPCR, in situ RNA hybridization, and immunohistochemistry. 1-16	0
685	CoviDetNet : A new COVID -19 diagnostic system based on deep features of chest x-ray.	
684	Antibodies against SARS-CoV-2 after natural infection in healthcare workers and clinical characteristics as putative antibody production prediction. <b>2022</b> , 100089	
683	XGBoost-Based Feature Learning Method for Mining COVID-19 Novel Diagnostic Markers. 10,	2
682	Rapid Parallel Search Technology with Scanning Electron Microscope and Artificial Neural Network. 1-7	
681	The Pre-Vaccination Donated Blood Is Free from Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) but Is Rich with Anti-SARS-CoV-2 Antibodies: A Cross-Section Saudi Study. <b>2022</b> , 19, 7119	0
680	Oral saliva swab reverse transcription PCR for Covid-19 in the paediatric population. archdischild-2021-323712	0
679	Traditional Vietnamese medicine Kovir capsule in patients with mild COVID -19: A double-blind randomized controlled trial.	0
678	Lung $\beta$ Segmentation Using Context-Aware Regressive Conditional GAN. <b>2022</b> , 12, 5768	
677	Synergistic Antiviral Activity of Pamapimod and Pioglitazone against SARS-CoV-2 and Its Variants of Concern. <b>2022</b> , 23, 6830	0
676	SARS-CoV-2 Omicron variant causes mild pathology in the upper and lower respiratory tract of hamsters. <b>2022</b> , 13,	5
675	Diagnostics of COVID-19 Based on CRISPR-Cas Coupled to Isothermal Amplification: A Comparative Analysis and Update. <b>2022</b> , 12, 1434	1
674	Low-dose self-amplifying mRNA COVID-19 vaccine drives strong protective immunity in non-human primates against SARS-CoV-2 infection. <b>2022</b> , 13,	2



673	Structural, genomic information and computational analysis of emerging coronavirus (SARS-CoV-2). <b>2022</b> , 46,	1
672	Rapid adaptation of established high-throughput molecular testing infrastructure for detection of monkeypoxvirus..	0
671	Monitoring occurrence of SARS-CoV-2 in school populations: A wastewater-based approach. <b>2022</b> , 17, e0270168	2
670	Advancements in Testing Strategies for COVID-19. <b>2022</b> , 12, 410	0
669	Evaluation of real-time NASBA assay for the detection of SARS-CoV-2 compared with real-time PCR.	0
668	Identification and characterization of the anti-SARS-CoV-2 activity of cationic amphiphilic steroidal compounds. <b>2022</b> , 13, 1031-1048	0
667	Genomic epidemiology of circulating SARS-CoV-2 variants during first two years of the pandemic in Colombia.	1
666	Chest CT Total Severity Score on Admission to Predict In-Hospital Mortality in COVID-19 Patients with Acute and Chronic Renal Impairment. <b>2022</b> , 12, 1529	1
665	Usefulness of high-resolution computed tomography in early diagnosis of patients with suspected COVID-19.. <b>2022</b> , 18,	
664	Analysis of Clinical Manifestations and Imaging of COVID-19 Patients in Intensive Care. <b>2022</b> , 2022, 1-5	1
663	Risk of SARS-CoV-2 Reinfections in a Prospective Inception Cohort Study: Impact of COVID-19 Vaccination. <b>2022</b> , 11, 3352	1
662	Neutralising reactivity against SARS-CoV-2 Delta and Omicron variants by vaccination and infection history. <b>2022</b> , 14,	1
661	SARS-CoV-2 Detection Limits in Swab and Gargle Samples by Comparing Antigen and RT-qPCR Testing. <b>2022</b> , 2, 752-758	0
660	Clinical outcomes in pregnant women with coronavirus disease 2019 in a perinatal medical centre in Japan: a retrospective study of the first 1 year of the pandemic. 1-9	
659	Non-PCR Ultrasensitive Detection of Viral RNA by a Nanoprobe-Coupling Strategy: SARS-CoV-2 as an Example. 2200031	0
658	Efficient direct and limited environmental transmission of SARS-CoV-2 lineage B.1.22 in domestic cats.	0
657	Antigenic cartography of SARS-CoV-2 reveals that Omicron BA.1 and BA.2 are antigenically distinct.	1
656	SARS-CoV-2 inactivation by ultraviolet radiation and visible light is dependent on wavelength and sample matrix. <b>2022</b> , 112503	3

- 655 Modulating Fingolimod (FTY720) Anti-SARS-CoV-2 Activity Using a PLGA-Based Drug Delivery System. 0
- 654 Optimized intramuscular immunization with VSV-vectored spike protein triggers a superior protective humoral immune response to SARS-CoV-2.
- 653 Comparative overview of emerging RNA viruses: Epidemiology, pathogenesis, diagnosis and current treatment. **2022**, 103985 0
- 652 Influenza A, Influenza B, and SARS-CoV-2 Similarities and Differences [A Focus on Diagnosis. 13, 3
- 651 Alterations in the Nasopharyngeal Microbiome Associated with SARS-CoV-2 Infection Status and Disease Severity.
- 650 An S1 subunit vaccine and combination adjuvant (COVAC-1) elicits robust protection against SARS-CoV-2 challenge in African green monkeys.
- 649 Increased Serum Mir-150-3p Expression Is Associated with Radiological Lung Injury Improvement in Patients with COVID-19. **2022**, 14, 1363 0
- 648 Artificial intelligence in identifying COVID-19 patients based on inflammatory parameters. **2022**,
- 647 An updated review of SARS-CoV -2 detection methods in the context of a novel coronavirus pandemic. 0
- 646 An Analysis of SARS-CoV-2 in Wastewater to Evaluate the Effectiveness of Nonpharmaceutical Interventions against COVID-19 in The Netherlands. 1
- 645 Rapid and Accurate Identification of SARS-CoV-2 Omicron Variants Using Droplet Digital PCR (RT-ddPCR). **2022**, 105218 1
- 644 Anti-Spike Antibody Response to Natural Infection with SARS-CoV-2 and Its Activity against Emerging Variants. 0
- 643 Multi-branch fusion auxiliary learning for the detection of pneumonia from chest X-ray images. **2022**, 105732 2
- 642 Food Craving and Its Associated Factors during COVID-19 Outbreak in Brazil. 1-12 0
- 641 COVID-19 Diagnosis: A Comprehensive Review of the RT-qPCR Method for Detection of SARS-CoV-2. **2022**, 12, 1503 3
- 640 Diagnostic Laboratory Characteristics of COVID-19 Patients Infected by Fomites: COVID-19 Outbreak in a South Korean Public Administrative Facility. **2022**, 11, 700 0
- 639 SARS-CoV-2 Specific Antibody Response and T Cell-Immunity in Immunocompromised Patients up to Six Months Post COVID: A Pilot Study. **2022**, 11, 3535 0
- 638 Loop-Mediated Isothermal Amplification as Point-of-Care Testing for EGFR-Mutated Lung Adenocarcinoma. **2022**, 13, 897

- 637 Kinetics of neutralising antibodies against Omicron variant in Vietnamese healthcare workers after primary immunisation with ChAdOx1-S and booster with BNT162b2.
- 636 Significant role of host sialylated glycans in the infection and spread of severe acute respiratory syndrome coronavirus 2. **2022**, 18, e1010590 2
- 635 Association between Periodontitis and COVID-19 Based on Severity Scores of HRCT Chest Scans. **2022**, 10, 106 0
- 634 COVID-19 severity is associated with worsened neurological outcomes in multiple sclerosis and related disorders. **2022**, 63, 103946 1
- 633 Applications of nanoengineered therapeutics and vaccines: special emphasis on COVID-19. **2022**, 21-63
- 632 Guidance for SARS-CoV-2 RNA-Based Molecular Assay Analytical Performance Evaluations. **2022**, 99-115 0
- 631 Coronavirus Disease 2019 Risk Factors in Karun, Iran: A Case-Control Study. **2022**, 13, 66-68
- 630 Quantitative Real-Time RT-PCR Systems to Detect SARS-CoV-2. **2022**, 89-97
- 629 Technical performance of a lateral flow immunoassay for detection of anti-SARS-CoV-2 IgG in the outpatient follow-up of non-severe cases and at different times after vaccination: comparison with enzyme and chemiluminescent immunoassays. 64,
- 628 THE IMPACT OF CORONA VIRUS DISEASES 2019 ON THE CLINICAL PRACTICE OF ENDODONTISTS ACROSS THE UDAIPUR DISTRICT IN RAJASTHAN: A CROSSECTIONAL SURVEY. **2022**, 51-53
- 627 Inhibitors of Deubiquitinating Enzymes Interfere with the SARS-CoV-2 Papain-like Protease and Block Virus Replication In Vitro. **2022**, 14, 1404 1
- 626 Knowledge and Attitude of New Coronavirus Epidemic (COVID-19) Among Health Care Workers. **2022**, 10, 376-382
- 625 Review on In silico Methods, High-throughput Screening Techniques, and Cell Culture Based In Vitro Assays for SARS-CoV-2... **2022**, 29, 1
- 624 Smartphone-Based High-Throughput Fiber-Integrated Immunosensing System for Point-of-Care Testing of the SARS-CoV-2 Nucleocapsid Protein. 0
- 623 Utilizing Electrochemical-Based Sensing Approaches for the Detection of SARS-CoV-2 in Clinical Samples: A Review. **2022**, 12, 473 2
- 622 CASP4/11 contributes to pulmonary inflammation and disease exacerbation in COVID-19.
- 621 Environmentally azithromycin pharmaceutical wastewater management and synergetic biocompatible approaches of loaded azithromycin@hematite nanoparticles. **2022**, 12, 0
- 620 Proficiency testing for SARS-CoV-2 whole genome sequencing. **2022**,

- 619 Diagnostic accuracy and feasibility of a rapid SARS-CoV-2 antigen test in general practice [a prospective multicenter validation and implementation study. **2022**, 23, 0
- 618 Capturing the SARS-CoV-2 infection pyramid within the municipality of Rotterdam using longitudinal sewage surveillance. 0
- 617 Coronavirus and Paramyxovirus Shedding by Bats in a Cave and Buildings in Ethiopia. **2022**, 19, 216-232 0
- 616 Intranasal immunization with avian paramyxovirus type 3 expressing SARS-CoV-2 spike protein protects hamsters against SARS-CoV-2. **2022**, 7, 2
- 615 Rapid, adaptable and sensitive Cas13-based COVID-19 diagnostics using ADESSO. **2022**, 13, 0
- 614 Retrospective Study of Aging and Sex-Specific Risk Factors of COVID-19 with Hypertension in China. **2022**, 2022, 1-11 0
- 613 Ct values as a diagnostic tool for monitoring SARS-CoV-2 viral load using the QIAstat-Dx' [ Respiratory SARS-CoV-2 Panel. **2022**, 0
- 612 A RT-qPCR system using a degenerate probe for specific identification and differentiation of SARS-CoV-2 Omicron (B.1.1.529) Variants of Concern. 0
- 611 Performance of 22 Rapid Lateral Flow Tests for SARS-CoV-2 Antigen Detection and Influence of [Variants of Concern]Implications for Clinical Use. 1
- 610 Diagnostic accuracy for a plasma SARS-CoV-2 Nucleocapsid Protein method. 11, 732 0
- 609 Efficacy and safety of camostat mesylate in early Covid-19 disease in an ambulatory setting: A randomized placebo-controlled phase II trial. **2022**, 2
- 608 Tumor biomarkers CEA, CA19.9, CA15.3 and AFP levels in the serum of patients with COVID-19. **2022**, 94, 38-44 0
- 607 A Review on Potential Electrochemical Point-of-Care Tests Targeting Pandemic Infectious Disease Detection: COVID-19 as a Reference. **2022**, 10, 269 4
- 606 Is SARS-CoV-2 a Concern for Food Safety? A Very Low Prevalence from a Food Survey during the COVID-19 Pandemic in Northern Italy. **2022**, 11, 2096 1
- 605 Correlation of SARS-CoV-2 infection severity with ABO blood groups and RhD antigen: a case-control study. **2022**, 50, 030006052211104 0
- 604 Pulmonary lesions following inoculation with the SARS-CoV-2 Omicron BA.1 (B.1.1.529) variant in Syrian golden hamsters. **2022**, 11, 1778-1786 0
- 603 A Visual Assay of a Loop-Mediated Isothermal Amplification Based Vertical Immunoassay for SARS-CoV-2 RNA Detection. 13, 0
- 602 Investigation of SARS-CoV-2 in Postmortem Ocular Tissues and Evaluation of Its Effects on Corneal Donation. **2022**, Publish Ahead of Print, 0

601	SARS-CoV-2 Brain Regional Detection, Histopathology, Gene Expression, and Immunomodulatory Changes in Decedents with COVID-19.	3
600	Dynamics and Determinants of SARS-CoV-2 RT-PCR Testing on Symptomatic Individuals Attending Healthcare Centers during 2020 in Bahia, Brazil. <b>2022</b> , 14, 1549	1
599	SARS-CoV-2 Infections in Icelandic Children. Publish Ahead of Print,	1
598	Simulation of group testing scenarios can boost COVID-19 screening power. <b>2022</b> , 12,	
597	Anti-SARS-CoV-2 IgM/IgG antibodies detection using a patch sensor containing porous microneedles and a paper-based immunoassay. <b>2022</b> , 12,	1
596	Predictors of intensive care unit admission and mortality in SARS-CoV-2 infection: A cross sectional study at a tertiary care hospital. <b>2022</b> , 80, 104097	
595	A systemic review on liquid crystals, nanoformulations and its application for detection and treatment of SARS [CoV- 2 (COVID [19). <b>2022</b> , 362, 119795	1
594	Importance of external quality assessment for SARS-CoV-2 antigen detection during the COVID-19 pandemic. <b>2022</b> , 154, 105222	0
593	Quantification of SARS-CoV-2 RNA in wastewater treatment plants mirrors the pandemic trend in Hong Kong. <b>2022</b> , 844, 157121	0
592	Good and bad get together: Inactivation of SARS-CoV-2 in particulate matter pollution from different fuels. <b>2022</b> , 844, 157241	1
591	Wastewater-based epidemiology in countries with poor wastewater treatment [Epidemiological indicator function of SARS-CoV-2 RNA in surface waters. <b>2022</b> , 843, 156964	
590	Monitoring the evolution of SARS-CoV-2 on a Spanish university campus through wastewater analysis: A pilot project for the reopening strategy. <b>2022</b> , 845, 157370	0
589	A Transfer Learning Based Approach for COVID-19 Detection Using Inception-v4 Model. <b>2023</b> , 35, 1721-1736	0
588	SARS-CoV-2 infection: Pathogenesis, Immune Responses, Diagnosis.	
587	SARS-CoV-2: The Self-Nonsel Issue and Diagnostic Tests.	
586	The trispesific DARPIn ensovibep inhibits diverse SARS-CoV-2 variants.	1
585	Histopathological and Immunological Findings in the Common Marmoset Following Exposure to Aerosolized SARS-CoV-2. <b>2022</b> , 14, 1580	
584	Multifaceted Assessment of Wastewater-Based Epidemiology for SARS-CoV-2 in Selected Urban Communities in Davao City, Philippines: A Pilot Study. <b>2022</b> , 19, 8789	0

- 583 Evaluation of the effectiveness of UV-C dose for photoinactivation of SARS-CoV-2 in contaminated N95 respirator, surgical and cotton fabric masks.
- 582 SARS-CoV-2 Incidence, signs and symptoms and main risk factors for COVID-19 infection in Health Care Workers: A hospital-wide survey in Salvador, Brazil. **2022**, 102387
- 581 MALDI(+) FT-ICR Mass Spectrometry (MS) Combined with Machine Learning toward Saliva-Based Diagnostic Screening for COVID-19. 1
- 580 Impact of X-radiation in the management of COVID-19 disease. **2022**, 14, 219-228
- 579 Characterization of SARS-CoV-2 Escape Mutants to a Pair of Neutralizing Antibodies Targeting the RBD and the NTD. **2022**, 23, 8177 1
- 578 Patterns of RT-PCR Test Conversion and Implications on Time of Discharge in a District Hospital and a COVID-19 Care Centre in Pali, Rajasthan, India. **2022**,
- 577 Combined Diagnosis of SARS-CoV-2: Rapid Antigen Detection as an Adjunct to Nucleic Acid Detection.
- 576 Optical Analysis of Nasal Endoscopic Images From a Patient With Severe Acute Respiratory Syndrome Coronavirus 2. **2022**, 29, 96-100
- 575 Clinical comparison and agreement of PCR, antigen, and viral culture for the diagnosis of COVID-19. **2022**, 2, 100099
- 574 Reimaging Indian Healthcare using block chain technology and disease detection. **2022**,
- 573 Detection of COVID-19 using CNN from Chest X-ray Images. **2022**, 0
- 572 SARS-CoV-2 S2-targeted vaccination elicits broadly neutralizing antibodies. **2022**, 14, 4
- 571 Amine-Functionalized Quantum Dots as a Universal Fluorescent Nanoprobe for a One-Step Loop-Mediated Isothermal Amplification Assay with Single-Copy Sensitivity. **2022**, 14, 35299-35308 0
- 570 Base excess, bicarbonate, and lactate levels predict 28-day mortality in patients with COVID-19: a retrospective study. **2022**, 4, 238-243
- 569 Development and operation of the defence COVID-19 lab as a SARS-CoV-2 diagnostic screening capability for UK military personnel. e002134 0
- 568 High secondary attack rate and persistence of SARS-CoV-2 antibodies in household transmission study participants, Finland 2020-2021. 9, 0
- 567 Clinical study of real-time polymerase chain reaction test kit for SARS-CoV-2 ribonucleic acids detection. **2022**, 15, 230-236
- 566 A computational approach to rapidly design peptides that detect SARS-CoV-2 surface protein S. **2022**, 4, 0

- 565 Nanofluidic optical diffraction interferometry for detection and classification of individual nanoparticles in a nanochannel. **2022**, 26,
- 564 Coordinated innate and T-cell immune responses in mild COVID-19 patients from household contacts of COVID-19 cases during the first pandemic wave. 13, ○
- 563 Infection- or vaccine mediated immunity reduces SARS-CoV-2 transmission, but increases competitiveness of Omicron in hamsters. ○
- 562 Current status and capacity of pathogen laboratories in centers for disease control and prevention in China during the COVID-19 pandemic: A nationwide cross-sectional survey. 10,
- 561 Early Isolates of SARS-CoV-2 Result in Different Pathogenesis in the Transduced Mouse Model of COVID-19. **2022**, 14, 1769
- 560 Quantitative analysis of different respiratory specimens on two automated test systems for detection of SARS-CoV-2 RNA. **2022**, 115800
- 559 Analysis of CT signs, radiomic features and clinical characteristics for Delta Variant COVID-19 patients with different vaccination status.
- 558 Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) antigen detection in the Emergency Department: data from a pediatric cohort during the fourth COVID-19 wave in Italy. **2022**, 48,
- 557 Molecular surveillance revealed no SARS-CoV-2 spillovers to raccoons (*Procyon lotor*) in four German federal states. **2022**, 68, ○
- 556 Clinical, morphological and molecular biological examination of the myocardium in COVID-19 patients. **2022**, 27, 4810 ○
- 555 Evaluation of Methods and Processes for Robust Monitoring of SARS-CoV-2 in Wastewater. ○
- 554 Comparison of clinical outcomes and risk factors for COVID-19 infection in cancer patients without anticancer treatment and noncancer patients. 10,
- 553 Time Lag between COVID-19 Diagnosis and Symptoms Onset for Different Population Groups: Evidence That Self-Testing in Schools Was Associated with Timely Diagnosis among Children. **2022**, 12, 1305
- 552 Review of concerned SARS-CoV-2 variants like Alpha (B.1.1.7), Beta (B.1.351), Gamma (P.1), Delta (B.1.617.2), and Omicron (B.1.1.529), as well as novel methods for reducing and inactivating SARS-CoV-2 mutants in wastewater treatment facilities. **2022**, 7, 100140 1
- 551 Flexible multiplex PCR to detect SARS-CoV -2, coronavirus OC43 and influenza A virus in nasopharyngeal swab samples.
- 550 Antiviral activity of natural phenolic compounds in complex at an allosteric site of SARS-CoV-2 papain-like protease. **2022**, 5, 1
- 549 UVC-based air disinfection system for rapid inactivation of SARS-CoV-2 present in the air.
- 548 Detection of SARS-CoV-2 in Cancellous Bone of Patients with COVID-19 Disease Undergoing Orthopedic Surgery: Laboratory Findings and Clinical Applications. **2022**, 19, 10621

- 547 Synthesis and Characterization of Silica Coated Magnetite Nanoparticle Clusters for Viral RNA Extraction. 929, 71-77
- 546 Analytical Sensitivity of Eight Different SARS-CoV-2 Antigen-Detecting Rapid Tests for Omicron-BA.1 Variant. 1
- 545 Experimental Infection of Brazilian Free-Tailed Bats (*Tadarida brasiliensis*) with Two Strains of SARS-CoV-2. **2022**, 14, 1809 2
- 544 CME: Rationale Labordiagnostik im Kontext von COVID-19. **2022**, 111, 592-596
- 543 Simple Saliva Sample Collection for the Detection of SARS-CoV-2 Variants Compared to Nasopharyngeal Swab Sample. **2022**, 0
- 542 Current Advances in Paper-Based Biosensor Technologies for Rapid COVID-19 Diagnosis. 1
- 541 Auxiliary Screening COVID-19 by Serology. 10,
- 540 Electrochemical Biosensor for SARS-CoV-2 cDNA Detection Using AuPs-Modified 3D-Printed Graphene Electrodes. **2022**, 12, 622 1
- 539 Manifestation of SARS-CoV-2 Infections in Mink Related to Host-, Virus- and Farm-Associated Factors, The Netherlands 2020. **2022**, 14, 1754 1
- 538 Platinum-Decorated Gold Nanoparticle-Based Microfluidic Chip Immunoassay for Ultrasensitive Colorimetric Detection of SARS-CoV-2 Nucleocapsid Protein. 1
- 537 SARS-CoV-2 Omicron BA.1 and BA.2 are attenuated in rhesus macaques as compared to Delta. 0
- 536 Development of a new TaqMan-based real-time RT-PCR assay for the specific detection of bovine kobuvirus. 9,
- 535 Simulation of Microfluidic Biosensor for Binding Kinetics of SARS-CoV-2 S Protein Using the Electrothermal Effect. **2023**, 439-447
- 534 Development of a panel of three multiplex allele-specific qRT-PCR assays for quick differentiation of recombinant variants and Omicron subvariants of SARS-CoV-2. 12, 0
- 533 Dynamics of the Immune Response in Hospitalized SARS-CoV-2-infected Cancer Patients. 1-10
- 532 The Omicron (B.1.1.529) SARS-CoV-2 variant of concern also affects companion animals. 9, 0
- 531 SARS-CoV-2 in Atmospheric Particulate Matter: An Experimental Survey in the Province of Venice in Northern Italy. **2022**, 19, 9462 0
- 530 State-of-the-Art Smart and Intelligent Nanobiosensors for SARS-CoV-2 Diagnosis. **2022**, 12, 637 0



529	A Novel Benchmark Dataset for COVID-19 Detection during Third Wave in Pakistan. <b>2022</b> , 2022, 1-12	
528	Infections with the SARS-CoV-2 Delta variant exhibit fourfold increased viral loads in the upper airways compared to Alpha or non-variants of concern. <b>2022</b> , 12,	0
527	Two Years into the COVID-19 Pandemic: Lessons Learned.	4
526	In food safety control overview of using Real-Time PCR. 53-61	
525	Design and Analysis of Highly Sensitive LSPR-Based Metal Insulator Metal Nano-Discs as a Biosensor for Fast Detection of SARS-CoV-2. <b>2022</b> , 9, 542	3
524	Impact of Microbiota Depletion by Antibiotics on SARS-CoV-2 Infection of K18-hACE2 Mice. <b>2022</b> , 11, 2572	0
523	Automatic segmentation of COVID-19 from computed tomography images using modified U-Net model-based majority voting approach.	
522	The COVID HOME study research protocol: Prospective cohort study of non-hospitalised COVID-19 patients.	0
521	In Situ Surface-Enhanced Raman Scattering Detection of a SARS-CoV-2 Biomarker Using Flexible and Transparent Polydimethylsiloxane Films with Embedded Au Nanoplates.	3
520	Reduction in SARS-CoV-2 Virus Infectivity in Human and Hamster Feces. <b>2022</b> , 14, 1777	0
519	Promotion of neutralizing antibody-independent immunity to wild-type and SARS-CoV-2 variants of concern using an RBD-Nucleocapsid fusion protein. <b>2022</b> , 13,	0
518	Diagnosis Methods for COVID-19: A Systematic Review. <b>2022</b> , 13, 1349	2
517	Vaccine-associated enhanced respiratory pathology in COVID-19 hamsters after TH2-biased immunization. <b>2022</b> , 40, 111214	0
516	Highly sensitive and rapid detection of SARS-CoV-2 via a portable CRISPR-Cas13a-based lateral flow assay.	1
515	ChAdOx1 nCoV-19 (AZD1222) or nCoV-19-Beta (AZD2816) protect Syrian hamsters against Beta Delta and Omicron variants. <b>2022</b> , 13,	2
514	Targeted escape of SARS-CoV-2 in vitro from monoclonal antibody S309, the precursor of sotrovimab. 13,	1
513	Risks of SARS-CoV-2 transmission between free-ranging animals and captive mink in the Netherlands.	1
512	Detection of COVID-19 from Deep Breathing Sounds Using Sound Spectrum with Image Augmentation and Deep Learning Techniques. <b>2022</b> , 11, 2520	

- 511 Diagnostic yield of serial SARS-CoV-2 testing in hospitalized patients.
- 510 Host and viral determinants of airborne transmission of SARS-CoV-2 in the Syrian hamster. 0
- 509 Nonproductive exposure of PBMCs to SARS-CoV-2 induces cell-intrinsic innate immune responses. **2022**, 18, 1
- 508 Replicating RNA platform enables rapid response to the SARS-CoV-2 Omicron variant and elicits enhanced protection in naïve hamsters compared to ancestral vaccine. **2022**, 83, 104196 0
- 507 Rapid Adaptation of Established High-Throughput Molecular Testing Infrastructure for Monkeypox Virus Detection. **2022**, 28, 1765-1769 2
- 506 Highly Divergent SARS-CoV-2 Alpha Variant in Chronically Infected Immunocompromised Person. **2022**, 28, 1920-1923 0
- 505 Diffuse alveolar damage patterns reflect the immunological and molecular heterogeneity in fatal COVID-19. **2022**, 83, 104229 0
- 504 Host and microbiome features of secondary infections in lethal covid-19. **2022**, 25, 104926 0
- 503 A critical review on the existing wastewater treatment methods in the COVID-19 era: What is the potential of advanced oxidation processes in combatting viral especially SARS-CoV-2?. **2022**, 49, 103077 0
- 502 From Alpha to Omicron BA.2: New digital RT-PCR approach and challenges for SARS-CoV-2 VOC monitoring and normalization of variant dynamics in wastewater. **2022**, 848, 157740 1
- 501 Efficacy of antiseptic mouthrinses against SARS-CoV-2: A prospective randomized placebo-controlled pilot study. **2022**, 43, 103549 0
- 500 Research progress of biosensors for detection of SARS-CoV-2 variants based on ACE2. **2023**, 251, 123813 0
- 499 Multiple ligation-assisted recombinase polymerase amplification for highly sensitive and selective colorimetric detection of SARS-CoV-2. **2023**, 252, 123835
- 498 Trans-synaptic dwelling of SARS-CoV-2 particles perturbs neural synapse organization and function. 0
- 497 Characteristics of COVID-19 Infection in a Hospitalized Autoimmune Hepatitis Patient. **2022**, 11, 1054 0
- 496 Regional importation and asymmetric within-country spread of SARS-CoV-2 variants of concern in the Netherlands. 11, 0
- 495 A comprehensive review of COVID-19 detection techniques: From laboratory systems to wearable devices. **2022**, 149, 106070 1
- 494 The FDA-approved drug Auranofin has a dual inhibitory effect on SARS-CoV-2 entry and NF- $\kappa$ B signaling. **2022**, 25, 105066 0

- 493 CLN7/MFSD8 may be an important factor for SARS-CoV-2 cell entry. **2022**, 25, 105082 1
- 492 Analysis of transcriptomic responses to SARS-CoV-2 reveals plausible defective pathways responsible for increased susceptibility to infection and complications and helps to develop fast-track repositioning of drugs against COVID-19. **2022**, 149, 106029 1
- 491 Cas12a-assisted RTF-EXPAR for accurate, rapid and simple detection of SARS-CoV-2 RNA. **2022**, 216, 114683 0
- 490 Relationship between SARS-CoV-2 in wastewater and clinical data from five wastewater sheds. **2022**, 8, 100159 0
- 489 Application of a high-throughput quantitative PCR system for simultaneous monitoring of SARS-CoV-2 variants and other pathogenic viruses in wastewater. **2022**, 853, 158659 1
- 488 Current trends in COVID-19 diagnosis and its new variants in physiological fluids: Surface antigens, antibodies, nucleic acids, and RNA sequencing. **2022**, 157, 116750 1
- 487 Overexpression of estrogen receptor GPER1 and G1 treatment reduces SARS-CoV-2 infection in BEAS-2B bronchial cells. **2022**, 558, 111775 0
- 486 Nanotechnology-based bio-tools and techniques for COVID-19 management. **2022**, 127-148 0
- 485 Electrochemical Biosensing and Deep Learning-Based Approaches in the Diagnosis of COVID-19: A Review. **2022**, 10, 98633-98648 0
- 484 COVID-DeepNet: Deep Convolutional Neural Network Architecture Designed for Early Prognosis of COVID-19 Using Post-anterior View of Chest X-Rays. **2022**, 57-70 0
- 483 Drug discovery opportunities from traditional practices against SARS-CoV-2. **2022**, 191-205 0
- 482 Identificaci3n de pruebas comerciales de PCR tiles para detectar virus SARS-CoV-2 en el Instituto de Diagn3stico y Referencia Epidemiol3gicos durante el primer a1o de pandemia de COVID-19 en M3xico. **2022**, 27, 68-79 0
- 481 Biosensor as quick analytic tool in pandemic!. **2022**, 169-196 0
- 480 The European Experience with Testing and Surveillance during the First Phase of the COVID-19 Pandemic. 0
- 479 Analytical performances of different diagnostic methods for SARS-CoV-2 virus - A review. **2022**, 3, 100197 1
- 478 Precision Medicine in Infectious Disease. **2022**, 221-257 0
- 477 A study of the Detection SARS-CoV-2 by the Use of Electrochemiluminescent Biosensor based on Asymmetric polymerase chain reaction amplification strategy. **2022**, 1-1 0
- 476 Diagnostic Value of Chest CT scan for COVID-19 Suspected Cases and Its Compatibility with RT-PCR Method: A Survey from Jiroft, Iran. **2022**, 15, 0

- 475 Laboratory and Point-of-Care Testing for COVID-19: A Review of Recent Developments. **2022**, 0
- 474 Low prevalence of current and past SARS-CoV-2 infections among visitors and staff members of homelessness services in Amsterdam at the end of the second wave of infections in the Netherlands. 0
- 473 The Genetic Characterization of the First Detected Bat Coronaviruses in Poland Revealed SARS-Related Types and Alphacoronaviruses. **2022**, 14, 1914 1
- 472 Neuroinvasion and anosmia are independent phenomena upon infection with SARS-CoV-2 and its variants. 0
- 471 COVID-19-associated Pulmonary Aspergillosis: A Case Series. **2022**, 26, 1039-1041 0
- 470 Succinct review on biological and clinical aspects of Coronavirus disease 2019 (COVID-19). **2022**, 125, 356-365 0
- 469 Differential gene expression analysis of common target genes for the detection of SARS-CoV-2 using real time-PCR. **2022**, 12, 0
- 468 The DEAD box RNA helicase DDX42 is an intrinsic inhibitor of positive-strand RNA viruses. 0
- 467 Accumulation of mutations in antibody and CD8 T cell epitopes in a B cell depleted lymphoma patient with chronic SARS-CoV-2 infection. **2022**, 13, 0
- 466 Efficiency and sensitivity optimization of a protocol to quantify indoor airborne SARS-CoV-2 levels. **2022**, 0
- 465 Comparison of Four Real-Time Polymerase Chain Reaction Assays for the Detection of SARS-CoV-2 in Respiratory Samples from Tunja, Boyacá Colombia. **2022**, 7, 240 0
- 464 Randomized, Double-Blind, Placebo-Controlled Trial of a Throat Spray with Selected Lactobacilli in COVID-19 Outpatients. 3
- 463 Pharmacological inhibition of bromodomain and extra-terminal proteins induces NRF-2-mediated inhibition of SARS-CoV-2 replication and is subject to viral antagonism. 0
- 462 Incorporating MOOC and COVID-19-Related Scientific Papers into Veterinary Microbiology Teaching to Enhance Students' Learning Performance and Professional Recognition. 0
- 461 Estimating the performance of mass testing strategies for COVID-19: a case study for Costa Rica. 0
- 460 Longitudinal profiles of plasma gelsolin, cytokines and antibody expression predict COVID-19 severity and hospitalization outcomes. 13, 1
- 459 Protection against SARS-CoV-2 transmission by a parenteral prime-intranasal boost vaccine strategy. **2022**, 104248 1
- 458 Relationship between viral load and symptoms in children infected with SARS-CoV-2. 0

457	Multicountry study of SARS-CoV-2 and associated risk factors among healthcare workers in Côte d'Ivoire, Burkina Faso and South Africa.	0
456	Rapid antigen test for SARS-CoV-2: results of validation and use in real life.	0
455	SARS-CoV-2 in the Air Surrounding Patients during Nebulizer Therapy. <b>2022</b> , 2022, 1-11	0
454	Development of a multi-recombinase polymerase amplification assay for rapid identification of COVID-19, influenza A and B.	1
453	Epidemiology and risk factors related to severity of clinical manifestations of COVID-19 in outpatients: A retrospective study in Haiti. <b>2022</b> , 17, e0274760	0
452	Impaired immune response drives age-dependent severity of COVID-19. <b>2022</b> , 219,	2
451	Qualitative Subgenomic RNA to Monitor the Response to Remdesivir in Hospitalized Patients with COVID-19: impact on the length of hospital stay and mortality.	0
450	Genetic Load of SARS-CoV-2 in Aerosols Collected in Operating Theaters.	0
449	Evaluation of factors contributing to variability of qualitative and quantitative proficiency testing for SARS-CoV-2 nucleic acid detection. <b>2022</b> ,	0
448	Mutations in SARS-CoV-2 nucleocapsid in variants of concern impair the sensitivity of SARS-CoV-2 detection by rapid antigen tests. 2,	1
447	Compellingly high SARS-CoV-2 susceptibility of Golden Syrian hamsters suggests multiple zoonotic infections of pet hamsters during the COVID-19 pandemic. <b>2022</b> , 12,	0
446	SARS-CoV-2 Variant Surveillance in Genomic Medicine Era.	0
445	Saving millions of lives but some resources squandered: emerging lessons from health research system pandemic achievements and challenges. <b>2022</b> , 20,	0
444	Diffusion-Induced Ingress of Angiotensin-Converting Enzyme 2 into the Charge Conducting Path of a Pentacene Channel for Efficient Detection of SARS-CoV-2 in Saliva Samples.	0
443	SARS-CoV-2 infects adipose tissue in a fat depot- and viral lineage-dependent manner. <b>2022</b> , 13,	2
442	Immune Determinants of Viral Clearance in Hospitalised COVID-19 Patients: Reduced Circulating Naïve CD4+ T Cell Counts Correspond with Delayed Viral Clearance. <b>2022</b> , 11, 2743	2
441	The Entero-Mammary Pathway and Perinatal Transmission of Gut Microbiota and SARS-CoV-2. <b>2022</b> , 23, 10306	0
440	Diagnostic performance of molecular and serological tests of SARS-CoV-2 on well-characterised specimens from COVID-19 individuals: The EDCTP "PERFECT-study" protocol (RIA2020EF-3000). <b>2022</b> , 17, e0273818	0

439	Susceptibility of Domestic Goat ( <i>Capra aegagrus hircus</i> ) to Experimental Infection with Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) B.1.351/Beta Variant. <b>2022</b> , 14, 2002	0
438	Clinical evaluation of an automated, rapid mriPOC´ antigen test in screening of symptomatics and asymptomatics for SARS-CoV-2 infection.	0
437	Intranasal administration of a single dose of MVA-based vaccine candidates against COVID-19 induced local and systemic immune responses and protects mice from a lethal SARS-CoV-2 infection. 13,	2
436	Detection of SARS-CoV-2 Using Reverse Transcription Helicase Dependent Amplification and Reverse Transcription Loop-Mediated Amplification Combined with Lateral Flow Assay. <b>2022</b> , 10, 2329	0
435	Immunomolecular assay based on selective virion capture by spike antibody and viral nucleic acid amplification for detecting intact SARS-CoV-2 particles. <b>2022</b> , 20,	0
434	Accessible and Adaptable Multiplexed Real-Time PCR Approaches to Identify SARS-CoV-2 Variants of Concern.	1
433	Large-Scale Functionalized Metasurface-Based SARS-CoV-2 Detection and Quantification.	2
432	Breakthrough infections with the omicron and delta variants of SARS-CoV-2 result in similar re-activation of vaccine-induced immunity. 13,	2
431	Wild red deer ( <i>Cervus elaphus</i> ) do not play a role as vectors or reservoirs of SARS-CoV-2 in northeastern Poland.	0
430	SARS-CoV-2 variants Alpha, Beta, Delta and Omicron show a slower host cell interferon response compared to an early pandemic variant. 13,	0
429	Positive SARS-CoV-2 RT-qPCR of a nasal swab spot after 30 days of conservation on filter paper at room temperature.	0
428	Long-Term Antibody Response to SARS-CoV-2 in Children.	0
427	HCR Lateral Flow Assays for Amplified Instrument-Free At-Home SARS-CoV-2 Testing.	0
426	SARS-CoV-2 Surveillance in Belgian Wastewaters. <b>2022</b> , 14, 1950	2
425	Label Free Bacteria Identification for Clinical Applications.	0
424	Toward a Home Test for COVID-19 Diagnosis: DNA Machine for Amplification-Free SARS-CoV-2 Detection in Clinical Samples.	0
423	Bayesian Measurement of Diagnostic Accuracy of the RT-PCR Test for COVID-19. <b>2022</b> , 2, 414-426	0
422	Simultaneous monitoring of SARS-CoV-2 and bacterial profiles from the air of hospital environments with COVID-19-affected patients.	0

421	High-dimensional multinomial multiclass severity scoring of COVID-19 pneumonia using CT radiomics features and machine learning algorithms. <b>2022</b> , 12,	0
420	Comparing lateral flow testing with a rapid RT-PCR method for SARS-CoV-2 detection in the United Kingdom: A retrospective diagnostic accuracy study. <b>2022</b> , 5,	0
419	Role of Nanomaterials in COVID-19 Prevention, Diagnostics, Therapeutics, and Vaccine Development. <b>2022</b> , 3, 151-176	0
418	Evaluating the role of SARS-CoV-2 target genes based on two nucleic acid assay kits. 10,	0
417	Reagentless Quantum-Rate-Based Electrochemical Signal of Graphene for Detecting SARS-CoV-2 Infection Using Nasal Swab Specimens. <b>2022</b> , 7, 2645-2653	2
416	Scaling Biosafety Up During and Down After the COVID-19 Pandemic.	0
415	CDC_Net: multi-classification convolutional neural network model for detection of COVID-19, pneumothorax, pneumonia, lung Cancer, and tuberculosis using chest X-rays.	1
414	Handheld, Low-Cost, Aptamer-Based Sensing Device for Rapid SARS-CoV-2 RNA Detection Using Novelty Synthesized Gold Nanoparticles. <b>2022</b> , 22, 18437-18445	1
413	Development of a high-sensitivity and short-duration fluorescence in situ hybridization method for viral mRNA detection in HEK 293T cells. 12,	0
412	Performance comparison of two nucleic acid amplification systems for SARS-CoV -2 detection: A multi-center study.	0
411	Viral Load at Hospitalization is an Independent Predictor of Severe COVID -19.	0
410	Equilibrium-based COVID-19 diagnosis from routine blood tests: A sparse deep convolutional model. <b>2022</b> , 118935	0
409	A RT-qPCR system using a degenerate probe for specific identification and differentiation of SARS-CoV-2 Omicron (B.1.1.529) variants of concern. <b>2022</b> , 17, e0274889	0
408	Diagnostic performance of the Qiaprep amp Viral RNA UM kit for the detection of COVID-19 compared to RT-PCR. 9,	0
407	Autophagy-linked plasma and lysosomal membrane protein PLAC8 is a key host factor for SARS-CoV -2 entry into human cells.	0
406	CRISPR-Based Diagnostics and Microfluidics for COVID-19 Point-of-Care Testing: A Review of Main Applications.	0
405	Immunogenicity decay and case incidence six months post Sinovac-CoronaVac vaccine in autoimmune rheumatic diseases patients. <b>2022</b> , 13,	0
404	Predicting pattern of coronavirus using X-ray and CT scan images. <b>2022</b> , 11,	0

- 403 Deep viewing for the identification of Covid-19 infection status from chest X-Ray image using CNN based architecture. **2022**, 16, 200130 ○
- 402 COVID-19 patient characteristics and time to viral clearance: A retrospective observational study in a multiethnic population (United Arab Emirates). **2022**, 157, 105297 ○
- 401 Computational Modeling of ACE2 Inhibitors for Development of Drugs Against Coronaviruses. **2021**, 615-629 ○
- 400 Current strategy of SARS-CoV-2 molecular detection. ○
- 399 On the quick estimation of probability of recovery from COVID-19 during first wave of epidemic in India: a logistic regression approach. **2022**, 23, 197-208 ○
- 398 Advances in the differential molecular diagnosis of vesicular disease pathogens in swine. 13, ○
- 397 SARS-CoV-2 from COVID-19 Patients in the Republic of Moldova: Whole-Genome Sequencing Results. **2022**, 14, 2310 ○
- 396 Abbott ID NOW<sup>™</sup> COVID-19 Assay: Do Not Discard the Swab.. **2022**, 115832 ○
- 395 Alterations in the nasopharyngeal microbiome associated with SARS-CoV-2 infection status and disease severity. **2022**, 17, e0275815 ○
- 394 Evaluation of Four Strategies for SARS-CoV-2 Detection: Characteristics and Prospects. ○
- 393 SARS-CoV-2 RNA Testing Using Different Assays<sup>™</sup> Impact on Testing Strategies in a Clinical Setting. **2022**, 23, 12845 ○
- 392 Machine learning approach for label-free rapid detection and identification of virus using Raman spectra. **2022**, ○
- 391 Evaluation of SARS-CoV-2 nucleocapsid antigen in the blood as a diagnostic test for infection and infectious viral shedding. ○
- 390 Inertia mass bio-sensors based on snap-through phenomena in electrostatic MEMS shallow arch resonators. **2022**, 107825 ○
- 389 Performance Evaluation of Developed Bangasure<sup>™</sup> Multiplex rRT-PCR Assay for SARS-CoV-2 Detection in Bangladesh: A Blinded Observational Study at Two Different Sites. **2022**, 12, 2617 ○
- 388 SARS-CoV-2 Transmission from Human to Pet and Suspected Transmission from Pet to Human, Thailand. 1
- 387 Catching the Wave: Detecting Strain-Specific SARS-CoV-2 Peptides in Clinical Samples Collected during Infection Waves from Diverse Geographical Locations. **2022**, 14, 2205 ○
- 386 Studies of prevalence: how a basic epidemiology concept has gained recognition in the COVID-19 pandemic. **2022**, 12, e061497 ○



385	Operative Protocol for Testing the Efficacy of Nasal Filters in Preventing Airborne Transmission of SARS-CoV-2. <b>2022</b> , 19, 13790	0
384	The Performances of Three Commercially Available Assays for the Detection of SARS-CoV-2 Antibodies at Different Time Points Following SARS-CoV-2 Infection. <b>2022</b> , 14, 2196	0
383	Imprinted antibody responses against SARS-CoV-2 Omicron sublineages.	3
382	An Update on Detection Technologies for SARS-CoV-2 Variants of Concern. <b>2022</b> , 14, 2324	2
381	Simultaneous Rapid Nucleic Acid and Protein Detection in a Lateral Chromatography Chip for COVID-19 Diagnosis. <b>2022</b> , 7, 38409-38416	0
380	Occupational risk of SARS-CoV-2 infection: a nationwide register-based study of the Danish workforce during the Covid-19 pandemic 2020-21.	0
379	Influenza Infection in Ferrets with SARS-CoV-2 Infection History.	0
378	The effect of inflammatory markers on the CORADS degree and the effects of treatments on RT-PCR test results in COVID-19. <b>2022</b> , 19, 42-47	0
377	Evaluation of real and perceived risk to health care workers caring for patients with the Omicron variant of the SARS-CoV-2 virus in surgery and obstetrics.	0
376	Diagnostic performance of corona virus disease 2019 chest computer tomography image recognition based on deep learning: Systematic review and meta-analysis. <b>2022</b> , 101, e31346	0
375	Implementing Wastewater Surveillance for SARS-CoV-2 on a University Campus: Lessons Learned.	0
374	Emergence and spreading of the largest SARS-CoV-2 deletion in the Delta AY.20 lineage from Uruguay. <b>2022</b> , 101703	0
373	Lessons learned: use of WGS in real-time investigation of suspected intrahospital SARS-CoV-2 outbreaks. <b>2022</b> ,	0
372	Ultrafast one-minute electronic detection of SARS-CoV-2 infection by 3CLpro enzymatic activity in untreated saliva samples. <b>2022</b> , 13,	1
371	Vimentin is an important ACE2 co-receptor for SARS-CoV-2 in epithelial cells. <b>2022</b> , 105463	1
370	Rechargeable Potent Anti-Viral Cotton Grafted with a New Quaternized N-Chloramine. 2201338	0
369	Comparison of SARS-CoV-2 viral loads in the nasal mucosa of patients infected with BA.1, BA.2 or BA.5 Omicron lineages.	0
368	RT-LAMP in SARS-CoV-2 detection: point to improve primer designing and decrease molecular diagnosis pitfalls. 1-9	0

- 367 SARS-CoV-2 indoor environment contamination with epidemiological and experimental investigations. **2022**, 32, 1
- 366 Validaci3n cl3nica de la prueba RT-LAMP para el diagn3stico r3pido del SARS-CoV-2. **2022**, 42, 59-72 0
- 365 Smart healthcare: A prospective future medical approach for COVID-19. Publish Ahead of Print, 0
- 364 Performing under Pressure: Insights into the Diagnostic Testing Burden at a UK National Health Service Clinical Virology Laboratory during the SARS-CoV-2 Pandemic. **2022**, 14, 2233 0
- 363 In search of COVID-19: The ability of biodetection canines to detect COVID-19 odours from clinical samples. 0
- 362 Longitudinal Household Assessment of Respiratory Illness in Children and Parents During the COVID-19 Pandemic. **2022**, 5, e2237522 0
- 361 SARS-CoV-2 seroprevalence and infection rate in Manila, Philippines prior to national vaccination program implementation: a repeated cross-sectional analysis. **2022**, 50, 0
- 360 Assessment of Peripheral Perfusion in Severe Acute Respiratory Syndrome Coronavirus 2 (Sars-cov-2) Infection: An Exploratory Analysis With Near-infrared Spectroscopy. 0
- 359 Recent review of COVID-19 management: diagnosis, treatment and vaccination. 6
- 358 Diagnostic evaluation of nCoV-QS, nCoV-QM-N, and nCoV-OM detection kits based on rRT-PCR for detection of SARS-CoV-2 in Ecuador. **2022**, 8, e11137 0
- 357 Intranasal nanoemulsion adjuvanted S-2P vaccine demonstrates protection in hamsters and induces systemic, cell-mediated and mucosal immunity in mice. **2022**, 17, e0272594 0
- 356 Evaluation of symptomatology and viral load among residents and healthcare staff in long-term care facilities: A coronavirus disease 2019 retrospective case-cohort study. **2022**, 17, e0276796 0
- 355 Outlook of various diagnostics and nanodiagnostic techniques for COVID-19. **2022**, 100276 0
- 354 Epidemiology of first cases of SARS-CoV-2 infection, from March to April 2020, in Gabon. 11, 205 0
- 353 Low serological rate of SARS-CoV-2 in cats from military bases in Israel. **2022**, 101905 1
- 352 Low-cost SYBR Green-based RT-qPCR assay for detecting SARS-CoV-2 in an Indonesian setting using WHO-recommended primers. **2022**, 8, e11130 0
- 351 Highly sensitive detection of nucleocapsid protein from SARS-CoV-2 using a near-infrared surface plasmon resonance sensing system. **2022**, 1, 2336 0
- 350 The COVID HOME study research protocol: Prospective cohort study of non-hospitalised COVID-19 patients. **2022**, 17, e0273599 0

- 349 Improvements in metagenomic virus detection by simple pretreatment methods. **2022**, 2, 100120 ○
- 348 Photoacoustic detection of SARS-CoV-2 spike N501Y single-nucleotide polymorphism based on branched rolling circle amplification. **2022**, 124047 ○
- 347 Differential gene expression of SARS-CoV-2 transcriptome provides insight into the design of more sensitive diagnostic tests. **2022**, 34, 201116 ○
- 346 Persistence of endogenous RNA biomarkers of SARS-CoV-2 and PMMoV in raw wastewater: Impact of temperature and implications for wastewater-based epidemiology. **2023**, 857, 159401 1
- 345 A Pilot Study Evaluating Subgenomic RNAs for Detection of Infectious SARS-CoV-2 in Nasopharyngeal Swabs. **2022**, 17, ○
- 344 Diagnosis and Prediction of using Machine Learning Algorithm for CT Images. **2022**, ○
- 343 Intranasal pediatric parainfluenza virus-vectored SARS-CoV-2 vaccine is protective in macaques. **2022**, 1
- 342 Clinical, Biochemical, and Radiological Presentation of RT-PCR-Positive vs RT-PCR-Negative SARS-CoV-2 Pneumonia Requiring ICU Care: An Observational, Cross-Sectional, Single-Center Study in Kalaburagi, Kalyana Karnataka. **2022**, ○
- 341 Clinical accuracy of SARS-CoV-2 rapid antigen testing in screening children and adolescents in comparison to RT-qPCR, November 2020 to September 2022. ○
- 340 Convalescent plasma treatment for SARS-CoV-2 infected high-risk patients: a matched pair analysis to the LEOSS cohort. **2022**, 12, ○
- 339 Continued disruptions in health care services and mental health among health care providers during the COVID-19 pandemic in five sub-Saharan African countries. 12, ○
- 338 Intrinsic host susceptibility among multiple species to intranasal SARS-CoV-2 identifies diverse virological, biodistribution and pathological outcomes. **2022**, 12, ○
- 337 Development of pyrosequencing-based assay for genotyping of different coronavirus variants. **2022**, 2, 97-114 ○
- 336 SARS-CoV-2 antigen tests for screening of healthcare workers; experience with over 48,000 combined antigen tests and RT-PCR tests. **2022**, 105326 ○
- 335 Universal admission screening for COVID-19 using quantitative antigen testing and questionnaire screening to prevent nosocomial spread. **2022**, 17, e0277426 ○
- 334 Antiviral and Anti-Inflammatory Activities of Fluoxetine in a SARS-CoV-2 Infection Mouse Model. **2022**, 23, 13623 ○
- 333 SARS-CoV-2 variants: Impact on biological and clinical outcome. 9, ○
- 332 Probability of hospitalisation and death among COVID-19 patients with comorbidity during outbreaks occurring in Mexico City. 12, ○

331	Efficient SARS-CoV-2 detection utilizing chitin-immobilized nanobodies synthesized in <i>Ustilago maydis</i> .	0
330	Biosensors based detection of novel biomarkers associated with COVID-19: Current progress and future promise. <b>2022</b> , 100281	1
329	Taguchi optimization of integrated flow microfluidic biosensor for COVID-19 detection. <b>2022</b> , 137,	0
328	Analytical Performance of Rapid Nucleic Acid Detection Assays and Routine RT-qPCR Assays for Detection of SARS-CoV-2 in Shanghai, China in 2022. <b>2022</b> , 115860	0
327	A brief review on the validation of biology methods for COVID-19 detection. 3,	0
326	Rapid and Accurate On-Site Immunodiagnosics of Highly Contagious Severe Acute Respiratory Syndrome Coronavirus 2 Using Portable Surface-Enhanced Raman Scattering-Lateral Flow Assay Reader.	2
325	Impact of COVID-19 RT-PCR testing of asymptomatic health care workers on absenteeism and hospital transmission during the pandemic. <b>2022</b> ,	0
324	Agreement and differential use of laboratory methods for the detection and quantification of SARS-CoV-2 in experimentally infected animals. 13,	0
323	SARS-CoV-2 variant Alpha has a spike-dependent replication advantage over the ancestral B.1 strain in human cells with low ACE2 expression. <b>2022</b> , 20, e3001871	0
322	Helminth exposure protects against murine SARS-CoV-2 infection through macrophage dependent T cell activation.	0
321	Paired aptamer capture and FISH detection of individual virions enables cell-free determination of infectious titer.	0
320	COVID-19 activity screening by a smart-data-driven multi-band voice analysis. <b>2022</b> ,	1
319	A Longitudinal Seroepidemiology Study to Evaluate Antibody Response to SARS-CoV-2 Virus and Vaccination in Children in Calgary, Canada from July 2020 to April 2022.	0
318	Persistence of neutralizing antibodies and clinical protection up to 12 months after SARS-CoV-2 infection in elderly.	0
317	Identification of mutations in SARS-CoV-2 PCR primer regions. <b>2022</b> , 12,	1
316	SARS-CoV-2 Antigen Rapid Tests and Universal Screening for COVID-19 Omicron Variant among Hospitalised Children. <b>2022</b> ,	0
315	Antimicrobial Effectiveness of an Usnic-Acid-Containing Self-Decontaminating Coating on Underground Metro Surfaces in Athens. <b>2022</b> , 10, 2233	2
314	Merging microfluidics with luminescence immunoassays for urgent point-of-care diagnostics of COVID-19. <b>2022</b> , 157, 116814	1

313	SARS-CoV-2 Omicron BA.1 and BA.2 are attenuated in rhesus macaques as compared to Delta. <b>2022</b> , 8,	0
312	COVID-19 Diagnostics: Molecular biology to Nanomaterials. <b>2022</b> ,	0
311	Analytical performance of four rapid molecular testing for SARS-CoV-2. <b>2022</b> ,	0
310	Point prevalence of SARS-CoV-2 infection in Sweden at six time points during 2020. <b>2022</b> , 22,	0
309	Antibody tests for identification of current and past infection with SARS-CoV-2. <b>2022</b> , 2022,	1
308	STATE OF EMERGENCY IN SOUTH AFRICA, MANDATORY COVID-19 VACCINATION AND INTERNATIONAL HUMAN RIGHTS LAW. <b>2022</b> , 205-226	0
307	Immunity and Therapeutic Approaches against Coronavirus Disease 2019. <b>2022</b> , 13, 105-111	0
306	RT-PCR: a science and an art form. <b>2023</b> , 223-300	0
305	Self-directed molecular diagnostics (SdMDx) system for COVID-19 via one-pot processing. <b>2023</b> , 378, 133193	0
304	Schools reopening and the COVID-19 pandemic: a case study from Maca, Rio de Janeiro, Brazil. <b>2022</b> , 94,	1
303	Face ReID Method via Deep Learning. <b>2022</b> , 369-378	0
302	SARS-CoV-2 Infection and Viral Replication of Human Lung Organoids v3.	0
301	Audio-Based Deep Learning Frameworks for Detecting COVID-19. <b>2022</b> ,	0
300	Statistics in times of increasing uncertainty. <b>2022</b> , 185, 1471-1496	0
299	Highly Adsorptive Au-TiO <sub>2</sub> Nanocomposites for the SERS Face Mask Allow the Machine-Learning-Based Quantitative Assay of SARS-CoV-2 in Artificial Breath Aerosols. <b>2022</b> , 14, 54550-54557 <sup>†</sup>	1
298	Hydrogel-Based Biosensors. <b>2022</b> , 8, 768	1
297	Diagnostic accuracy of a SARS-CoV-2 rapid antigen test among military and civilian personnel of an Air Force airport in central Italy. <b>2022</b> , 17, e0277904	1
296	The effects of COVID-19 on the water sector. 10,	0

295	Detecting Pneumonia for COVID 19 Patients using Multi-Image Fusion for CT Images. <b>2022,</b>	0
294	Multicenter evaluation of the GenomEra SARS-CoV-2 assay kit. <b>2022, 17, e0277925</b>	0
293	SARS-CoV-2 surface and air contamination in an acute healthcare setting during the first and second pandemic waves. <b>2022,</b>	0
292	Ferulic acid derivatives block coronaviruses HCoV-229E and SARS-CoV-2 replication in vitro. <b>2022, 12,</b>	0
291	Diagnostic performance of attenuated total reflection Fourier-transform infrared spectroscopy for detecting COVID-19 from routine nasopharyngeal swab samples. <b>2022, 12,</b>	0
290	?????????2019?????????????????????????????????. <b>2022,</b>	0
289	Nanomaterials to combat SARS-CoV-2: Strategies to prevent, diagnose and treat COVID-19. <b>10,</b>	0
288	Comparison of Reverse Transcriptase (RT) Activities of Various M-MuLV RTs for RT-LAMP Assays. <b>2022, 11, 1809</b>	0
287	Multiplexed evaluation of immunity against SARS-CoV-2 variants using surface enhanced fluorescence from a nanostructured plasmonic chip. <b>2022, 20,</b>	0
286	Live-attenuated pediatric parainfluenza vaccine expressing 6P-stabilized SARS-CoV-2 spike protein is protective against SARS-CoV-2 variants in hamsters.	0
285	Development and Validation of ScriptTaq COVID PCR: An In-House Multiplex rRT-PCR for Low-Cost Detection. <b>2022, 44, 6117-6131</b>	0
284	Amplification Free Detection of SARS-CoV-2 Using Multi-Valent Binding. <b>2022, 7, 3692-3699</b>	0
283	Intestinal Shedding of SARS-CoV-2 in Children: No Evidence for Infectious Potential. <b>2023, 11, 33</b>	0
282	Rapid Point-of-Care Assay by SERS Detection of SARS-CoV-2 Virus and Its Variants. <b>2022, 94, 17795-17802</b>	2
281	Gradual emergence followed by exponential spread of the SARS-CoV-2 Omicron variant in Africa. <b>2022, 378,</b>	1
280	SARS-CoV-2 monitoring on mink farms in Poland. <b>2022, 66, 449-458</b>	1
279	SARS-CoV-2 viral load and shedding kinetics.	1
278	Developing Biosensors for SARS-CoV-2 Wastewater-Based Epidemiology: A Systematic Review of Trends, Limitations and Future Perspectives. <b>2022, 14, 16761</b>	0

277	A framework for measuring timeliness in the outbreak response path: lessons learned from the Middle East respiratory syndrome (MERS) epidemic, September 2012 to January 2019. <b>2022</b> , 27,	0
276	COVID-19 Response in Uzbekistan: From RT-PCR Test System to the Clinical Trial of Subunit Vaccine.	0
275	Nirmatrelvir-resistant SARS-CoV-2 variants with high fitness in an infectious cell culture system. <b>2022</b> , 8,	3
274	The role of bronchoalveolar lavage in diagnosis and prognosis of COVID-19 patients. <b>2022</b> , 61,	0
273	Prewhitening and Normalization Help Detect a Strong Cross-Correlation Between Daily Wastewater SARS-CoV-2 RNA Abundance and COVID-19 Cases in a Community.	0
272	The long-term dynamics of serum antibodies against SARS-CoV-2. 10, e14547	0
271	Response to the coronavirus disease 2019 pandemic of dental hygienists in South KoreaPart II : Fear and anxiety.	0
270	Sensitivity of Detection and Variant Typing of SARS-CoV-2 in European Laboratories. <b>2022</b> , 60,	0
269	Full-Lung Prophylaxis against SARS-CoV-2 by One-Shot or Booster Intranasal Lentiviral Vaccination in Syrian Golden Hamsters. <b>2023</b> , 11, 12	1
268	Occurrence and transport of SARS-CoV-2 in wastewater streams and its detection and remediation by chemical-biological methods. <b>2022</b> , 100221	0
267	Therapeutic and diagnostic applications of nanoparticles in the management of COVID-19: a comprehensive overview. <b>2022</b> , 19,	0
266	Smart Nanobiosensing for COVID-19 Diagnosis. <b>2023</b> , 123-162	0
265	Risk factors for SARS-CoV-2 transmission in close contacts of adults at high risk of infection due to occupation: results from the contact tracing strategy of the CoVIDA epidemiological surveillance study in BogotáColombia, in 2020-2021. <b>2022</b> , 12, e062487	0
264	Real-Time Polymerase Chain Reaction: Current Techniques, Applications, and Role in COVID-19 Diagnosis. <b>2022</b> , 13, 2387	0
263	Coronary bypass surgery on the background of Covid-19. A clinical case. <b>2022</b> , 31-44	0
262	A strategy to develop one step real-time RT-PCR for diagnosis of SARS-CoV-2 infection from clinical samples.	0
261	Mild COVID-19 induces early, quantifiable, persistent troponin I elevations in elder men. 9,	0
260	SARS-CoV-2: An Updated Review Highlighting Its Evolution and Treatments. <b>2022</b> , 10, 2145	1

259	Characteristics and clinical outcomes of COVID-19 in children: A hospital-based surveillance study in Latin America's hardest-hit city. <b>2022</b> ,	0
258	Viral Load-based Evaluation of the Sensitivity of Antigen-based Rapid Detection Assay for SARS-CoV-2. <b>2022</b> , 64, 196-198	0
257	Rapid and Unamplified Detection of SARS-CoV-2 RNA via CRISPR-Cas13a-Modified Solution-Gated Graphene Transistors. <b>2022</b> , 7, 3923-3932	1
256	SARS-CoV-2 outbreaks in secondary school settings in the Netherlands during fall 2020; silent circulation. <b>2022</b> , 22,	0
255	Temporal associations of the COVID-19 related border restrictions and respiratory viral infections in New Zealand.	0
254	Detection of SARS-CoV-2 Virus by Triplex Enhanced Nucleic Acid Detection Assay (TENADA). <b>2022</b> , 23, 15258	0
253	Diagnostic accuracy of autoverification and guidance system for COVID-19 RT-PCR results.	0
252	Management of Emergency and Elective Oncological Surgeries at a Tertiary General Surgery Clinic in COVID-19 Pandemic. <b>2022</b> , 32, 384-392	0
251	Long-term validation of a reverse transcription loop-mediated isothermal amplification (RT-LAMP) assay for the rapid detection of SARS-CoV-2 from March 2020 to October 2021 in Central Africa, Gabon. <b>2022</b> , 16, e0010964	0
250	Isolation and characterization of a SARS-CoV-2 variant with a Q677H mutation in the spike protein. <b>2023</b> , 168,	0
249	Genome Sequences of SARS-CoV-2 Strains from the Republic of Moldova.	1
248	State-of-the-art analytical methods of viral infections in human lung organoids. <b>2022</b> , 17, e0276115	0
247	SARS-CoV-2 infection and persistence in the human body and brain at autopsy. <b>2022</b> , 612, 758-763	15
246	The natural killer cell-associated rs9916629 - C allele is a novel genetic risk factor for fatal COVID-19. <b>2023</b> , 95,	0
245	SARS-CoV-2 Exploits Non-Canonical Autophagic Processes to Replicate, Mature, and Egress the Infected Vero E6 Cells. <b>2022</b> , 11, 1535	0
244	Alpha and Omicron SARS-CoV-2 Adaptation in an Upper Respiratory Tract Model. <b>2023</b> , 15, 13	0
243	CRISPR/Cas13a Trans-Cleavage-Triggered Catalytic Hairpin Assembly Assay for Specific and Ultrasensitive SARS-CoV-2 RNA Detection.	0
242	The Relationship Between Chest Computed Tomography Severity Scores and Demographic Features, Laboratory Parameters and Mortality in Patients with COVID-19. <b>2022</b> , 10, 335-343	0



241	Real-Time Reverse Transcription Recombinase-Aided Amplification Assay for Rapid Amplification of the N Gene of SARS-CoV-2. <b>2022</b> , 23, 15269	1
240	The Delta variant wave in Tunisia: Genetic diversity, spatio-temporal distribution and evidence of the spread of a divergent AY.122 sub-lineage. 10,	0
239	Confluence of Blockchain and Artificial Intelligence Technologies for Secure and Scalable Healthcare Solutions: A Review. <b>2022</b> , 1-1	0
238	T492I mutation alters SARS-CoV-2 properties via modulating viral non-structural proteins.	0
237	RT-LAMP Multicenter Study for SARS-CoV-2 Genome Molecular Detection in Brazilian Swab and Saliva Samples. <b>2023</b> , 13, 210	0
236	New RT-PCR Assay for the Detection of Current and Future SARS-CoV-2 Variants. <b>2023</b> , 15, 206	0
235	A droplet digital PCR assay for detection and quantification of <i>Verticillium nonalfalae</i> and <i>V. albo-atrum</i> . 12,	0
234	Comparison of the performance of SARS-CoV-2 RNA qRT-PCR testing based on expectorated and drooled saliva samples.	0
233	Fetal demise and SARS-CoV-2 infection during pregnancy: histopathological and immunohistochemical findings of three cases referred to the Colombian National Institute of Health. <b>2023</b> , 100219	0
232	European Black Elderberry Fruit Extract Inhibits Replication of SARS-CoV-2 In Vitro. <b>2023</b> , 3, 91-106	0
231	A Selective SARS-CoV-2 Host-Directed Antiviral Targeting Stress Response to Reactive Oxygen Species.	0
230	Spatiotemporal Evolution of SARS-CoV-2 Alpha and Delta Variants during a Large Nationwide Outbreak in Vietnam, 2021.	0
229	Rapid and Flexible RT-qPCR Surveillance Platforms To Detect SARS-CoV-2 Mutations.	0
228	Rapid detection of SARS-CoV-2: The gradual boom of lateral flow immunoassay. 10,	0
227	Nanotechnology and COVID-19: Prevention, diagnosis, vaccine, and treatment strategies. 9,	0
226	Vectored Immunoprophylaxis and Treatment of SARS-CoV-2 Infection.	0
225	SARS-CoV-2 Infection in Captive Hippos ( <i>Hippopotamus amphibius</i> ), Belgium. <b>2023</b> , 13, 316	0
224	SARS-CoV-2 Detection via RT-PCR in Matched Saliva and Nasopharyngeal Samples Reveals High Concordance in Different Commercial Assays. <b>2023</b> , 13, 329	1

223	Different interpretations of inconclusive results of SARS-CoV-2 real-time RT PCR. <b>2023</b> , 115888	0
222	Constructing artificial nucleobase compilation to enable precise molecular medicine.	0
221	Effects of yogurt containing probiotics on respiratory virus infections: Influenza H1N1 and SARS-CoV-2. <b>2023</b> ,	1
220	An inactivated SARS-CoV-2 vaccine induced cross-neutralising persisting antibodies and protected upon challenge in small animals. <b>2023</b> , 105949	0
219	Performance of the SureScreen Diagnostics COVID-19 antibody rapid test in comparison with three automated immunoassays.. <b>2023</b> , 115900	0
218	Full protection from SARS-CoV-2 brain infection and damage in susceptible transgenic mice conferred by MVA-CoV2-S vaccine candidate.	0
217	Blood leukocyte transcriptional modules and differentially expressed genes associated with disease severity and age in COVID-19 patients. <b>2023</b> , 13,	0
216	COVID-19 surveillance in wastewater: An epidemiological tool for the monitoring of SARS-CoV-2. 12,	2
215	Mobile SARS-CoV-2 screening facilities for rapid deployment and university-based diagnostic laboratory. 2200026	0
214	Rapid Assessment of SARS-CoV-2 Variant-Associated Mutations in Wastewater Using Real-Time RT-PCR.	0
213	The COVID-19 laboratory response in Timor-Leste; a story of collaboration. <b>2023</b> , 100150	0
212	Wastewater surveillance of SARS-CoV-2 at intra-city level demonstrated high resolution in tracking COVID-19 and calibration using chemical indicators. <b>2023</b> , 866, 161467	0
211	The Challenge of Evaluating Vaccine Safety and Effectiveness. <b>2023</b> , 131-162	0
210	Tissue protective role of Ganetespib in SARS-CoV-2-infected Syrian golden hamsters.	0
209	COVID-19 Detection: A Systematic Review of Machine and Deep Learning-Based Approaches Utilizing Chest X-Rays and CT Scans.	0
208	Combined molnupiravir-nirmatrelvir treatment improves effect on SARS-CoV-2 in Macaques.	0
207	The Implications of COVID-19 Infection on Hematologic Parameters and Coagulation Activity: A Review. <b>2022</b> , 15, 1837-1851	0
206	Can Chest CT be the first-line diagnostic test in COVID-19? A cross-sectional study.	0

- 205 The Trimeric Artesunate Analog TF27, a Broadly Acting Anti-Infective Model Drug, Exerts Pronounced Anti-SARS-CoV-2 Activity Spanning Variants and Host Cell Types. **2023**, 15, 115 ○
- 204 RNA Interference Approach Is a Good Strategy against SARS-CoV-2. **2023**, 15, 100 ○
- 203 The Cold-Adapted, Temperature-Sensitive SARS-CoV-2 Strain TS11 Is Attenuated in Syrian Hamsters and a Candidate Attenuated Vaccine. **2023**, 15, 95 ○
- 202 Generation and Characterization of a SARS-CoV-2-Susceptible Mouse Model Using Adeno-Associated Virus (AAV6.2FF)-Mediated Respiratory Delivery of the Human ACE2 Gene. **2023**, 15, 85 1
- 201 One-Year Surveillance of SARS-CoV-2 Exposure in Stray Cats and Kennel Dogs from Northeastern Italy. **2023**, 11, 110 ○
- 200 In silico ADME, Bioactivity and Toxicity Prediction of some Selected Antiviral Drugs.. **2022**, 637-643 ○
- 199 SARS-CoV-2 Virus Detection Via a Polymeric Nanochannel-Based Electrochemical Biosensor. 2205281 ○
- 198 Africa centers for disease control and prevention and other global partners'role in the fight against COVID-19 in Africa: an analysis of frontline health workers' perspectives. 4, ○
- 197 Potential of using facial thermal imaging in patient triage of flu-like syndrome during the COVID-19 pandemic crisis. **2023**, 18, e0279930 1
- 196 High titers of neutralizing SARS-CoV-2 antibodies six months after symptom onset are associated with increased severity in COVID-19 hospitalized patients. **2023**, 20, ○
- 195 Environmental pollutants and their impact on COVID-19 spread: Current problem and future resolutions. **2023**, 2, 127-146 ○
- 194 Efficacy and safety of metabolic interventions for the treatment of severe COVID-19: in vitro, observational, and non-randomized open label interventional study. 12, 1
- 193 Performance Evaluation of Real Time Polymerase Reaction Assay (SCODA) for Detection of SARS-CoV-2. **2023**, 13, 21-30 ○
- 192 EPAC1 Pharmacological Inhibition with AM-001 Prevents SARS-CoV-2 and Influenza A Virus Replication in Cells. **2023**, 15, 319 ○
- 191 Classification of Coronavirus Spike Proteins by Deep-Learning-Based Raman Spectroscopy and its Interpretative Analysis. **2023**, 89, 1203-1211 ○
- 190 Sustained Cytotoxic Response of Peripheral Blood Mononuclear Cells from Unvaccinated Individuals Admitted to the ICU Due to Critical COVID-19 Is Essential to Avoid a Fatal Outcome. **2023**, 20, 1947 ○
- 189 ONE ASSAY TO TEST THEM ALL: COMPARING MULTIPLEX ASSAYS FOR EXPANSION OF RESPIRATORY VIRUS SURVEILLANCE. ○
- 188 Multifunctional Nanoparticle Platform for Surface Accumulative Nucleic Acid Amplification and Rapid Electrochemical Detection: An Application to Pathogenic Coronavirus. ○

187	Reverse transcription-loop-mediated isothermal amplification (RT-LAMP) assay as a rapid molecular diagnostic tool for COVID-19 in healthcare workers. <b>2023</b> , 100134	1
186	IFN-stimulated metabolite transporter ENT3 facilitates viral genome release.	0
185	Advancements in CRISPR-Based Biosensing for Next-Gen Point of Care Diagnostic Application. <b>2023</b> , 13, 202	0
184	Environmental surveillance of SARS-CoV-2 in municipal wastewater to monitor COVID-19 status in urban clusters in Malaysia. <b>2023</b> , 205,	0
183	In silico disease modeling for COVID-19. <b>2023</b> , 291-299	0
182	The Impact of Social Media Shared Health Content on Protective Behavior against COVID-19. <b>2023</b> , 20, 1775	1
181	Evaluation of the Rapid Antigen Detection Test for Diagnosing SARS-CoV-2 during the COVID-19 Pandemic: Experience from a Centralized Isolation Site in Shanghai, China.	0
180	T cell immunity ameliorates COVID-19 disease severity and provides post-exposure prophylaxis after peptide-vaccination, in Syrian hamsters. 14,	0
179	SARS-CoV-2 spike HexaPro formulated in aluminium hydroxide and administered in an accelerated vaccination schedule partially protects Syrian Hamsters against viral challenge despite low neutralizing antibody responses. 14,	0
178	Protein Arginylation Is Regulated during SARS-CoV-2 Infection. <b>2023</b> , 15, 290	0
177	Cost and cost-effectiveness of four different SARS-CoV-2 active surveillance strategies: evidence from a randomised control trial in Germany.	0
176	Persistent SARS-CoV -2 infection in patients seemingly recovered from COVID -19. <b>2023</b> , 259, 254-263	2
175	Transplacental transfer of SARS-CoV-2 antibodies: a cohort study. <b>2023</b> , 42, 277-285	0
174	Antinuclear antibodies in individuals with COVID-19 reflect underlying disease: Identification of new autoantibodies in systemic sclerosis (CDK9) and malignancy (RNF20, RCC1, TRIP13). <b>2023</b> , 22, 103288	0
173	Small RNA sequencing of <i>Scutellaria baicalensis</i> reveals brassica yellows virus infection and the complementary development of a sensitive and reliable RT-qPCR assay. <b>2023</b> , 166, 106186	0
172	Bare glassy nanopore for length-resolution reading of PCR amplicons from various pathogenic bacteria and viruses. <b>2023</b> , 256, 124275	0
171	Highly pathogenic avian influenza A(H5N1) virus infection in farmed minks, Spain, October 2022. <b>2023</b> , 28,	4
170	An intelligent guided-airborne virus detection. <b>2022</b> ,	0

- 169 Nanotechnology and materials science help fight against SARS-CoV-2. **2023**, 295-321 ○
- 168 Detection of Klebsiella pneumonia DNA and ESBL positive strains by PCR-based CRISPR-LbCas12a system. **2023**, 14, ○
- 167 Rapid virus detection using magnetic second harmonics of superparamagnetic iron oxide nanoparticles. **2023**, 13, 025144 ○
- 166 The most common route of administration used during COVID-19. **2023**, 23, 81-90 ○
- 165 Clinical evaluation of DIAGNOVIR SARS-CoV-2 ultra-rapid antigen test performance compared to PCR-based testing. **2023**, 13, ○
- 164 Efficacy of a Mouthwash Containing CHX and CPC in SARS-CoV-2 Positive Patients: A Randomized Controlled Clinical Trial. 002203452311564 ○
- 163 A highly efficient and accurate method of detecting and subtyping Influenza A pdm H1N1 and H3N2 viruses with newly emerging mutations in the matrix gene in Eastern Taiwan. **2023**, 18, e0283074 ○
- 162 Convalescent human IgG, but not IgM, from COVID-19 survivors confers dose-dependent protection against SARS-CoV-2 replication and disease in hamsters. **2023**, 14, ○
- 161 A Deep Learning-Based System to Assist Radiologists in Detecting COVID-19 Disease from Chest Computed Tomography Images. **2023**, 13, 72-96 ○
- 160 RBD-Modified Polyaniline-Based Label-Free Immunosensor for Sensitive Impedimetric Detection of Anti-SARS-CoV-2 Antibodies. **2023**, 11, 222 ○
- 159 Superior possibilities and upcoming horizons for nanoscience in COVID-19: noteworthy approach for effective diagnostics and management of SARS-CoV-2 outbreak. ○
- 158 Ultra-sensitive label-free SERS biosensor with high-throughput screened DNA aptamer for universal detection of SARS-CoV-2 variants from clinical samples. **2023**, 228, 115202 ○
- 157 Detection of live SARS-CoV-2 virus and its variants by specially designed SERS-active substrates and spectroscopic analyses. **2023**, 1256, 341151 ○
- 156 Development of a validated molecular analytical method to determine the viral safety of F(AB'  $\alpha$ )<sub>2</sub> products: A novel application for a well-known technique. **2023**, 315, 114694 ○
- 155 A simplified viral RNA extraction method based on magnetic nanoparticles for fast and high-throughput detection of SARS-CoV-2. **2023**, 258, 124479 ○
- 154 CTMLP: Can MLPs replace CNNs or transformers for COVID-19 diagnosis?. **2023**, 159, 106847 ○
- 153 Wastewater surveillance uncovers regional diversity and dynamics of SARS-CoV-2 variants across nine states in the USA. **2023**, 877, 162862 ○
- 152 Recent progress on wastewater-based epidemiology for COVID-19 surveillance: A systematic review of analytical procedures and epidemiological modeling. **2023**, 878, 162953 ○

- 151 Contribution of point-of-care laboratories in the molecular diagnosis and monitoring of COVID-19 in Niakhar, Dielmo and Ndiop rural areas in Senegal. **2023**, 53, 101115 ○
- 150 The Validity of Cross Priming Amplification to Detect SARS-CoV-2 Virus. **2022**, 28, 307-312 ○
- 149 A longitudinal seroepidemiology study to evaluate antibody response to SARS-CoV-2 virus infection and vaccination in children in Calgary, Canada from July 2020 to April 2022: Alberta COVID-19 Childhood Cohort (AB3C) Study. **2023**, 18, e0284046 ○
- 148 SERS-ELISA using silica-encapsulated Au core-satellite nanotags for sensitive detection of SARS-CoV-2. **2023**, 382, 133521 ○
- 147 Evaluation of a panel of therapeutic antibody clinical candidates for efficacy against SARS-CoV-2 in Syrian hamsters. **2023**, 213, 105589 ○
- 146 COVID-19: ¿zoonosis o sindemia?. **2022**, 62, 60-64 ○
- 145 Validation of the North America expert consensus statement on reporting CT findings for COVID-19 in individuals with lung cancer. 55, ○
- 144 Comparison of SARS-CoV-2 diagnosis by rapid antigen detection kit with RT-qPCR in a tertiary care setup in North Eastern India. **2023**, 42, 12-16 ○
- 143 Classification of COVID-19 from community-acquired pneumonia: Boosting the performance with capsule network and maximum intensity projection image of CT scans. **2023**, 154, 106567 ○
- 142 Raspberry-based Low-resolution Thermal image system using a Smoothing Filter-based Kalman. **2022**, ○
- 141 Immunogenicity, Effectiveness, and Safety of Inactivated Virus (CoronaVac) Vaccine in a Two-Dose Primary Protocol and BNT162b2 Heterologous Booster in Brazil (Immunita-001): A One Year Period Follow Up Phase 4 Study. 13, ○
- 140 Evaluation of the performance of a rapid antigen test (Roche) for COVID-19 diagnosis in an emergency setting in Sweden. **2023**, 95, ○
- 139 From Biowaste to Lab-Bench: Low-Cost Magnetic Iron Oxide Nanoparticles for RNA Extraction and SARS-CoV-2 Diagnostics. **2023**, 13, 196 ○
- 138 Prophylaxis and treatment of SARS-CoV-2 infection by an ACE2 receptor decoy in a preclinical animal model. **2023**, 26, 106092 ○
- 137 Performance Evaluation of Different RT-PCR Kits for the Direct Detection of SARS-CoV-2 in Preheated Specimens. ○
- 136 Pseudo-Complementary G:C Base Pair for Mixed Sequence dsDNA Invasion and Its Applications in Diagnostics (SARS-CoV-2 Detection). **2023**, 3, 449-458 ○
- 135 Optimal control of the coronavirus pandemic with both pharmaceutical and non-pharmaceutical interventions. ○
- 134 Evaluation of altered miRNA expression pattern to predict COVID-19 severity. **2023**, 9, e13388 ○

133	SARS-CoV-2 Infection in Pregnancy: Clues and Proof of Adverse Outcomes. <b>2023</b> , 20, 2616	1
132	Differences in acoustic features of cough by pneumonia severity in patients with COVID-19: a cross-sectional study. 00247-2022	0
131	Investigations on SARS-CoV-2 and other coronaviruses in mink farms in France at the end of the first year of COVID-19 pandemic.	0
130	Image Based Classification of COVID-19 Infection Using Ensemble of Machine Learning Classifiers and Deep Learning Techniques. <b>2022</b> ,	0
129	Prolonged SARS-CoV-2 Infection and Intra-Patient Viral Evolution in an Immunodeficient Child. <b>2023</b> , 42, 212-217	0
128	Whole campus wastewater surveillance of SARS-CoV-2 for COVID-19 outbreak management. <b>2023</b> , 87, 910-923	0
127	Host Response of Syrian Hamster to SARS-CoV-2 Infection including Differences with Humans and between Sexes. <b>2023</b> , 15, 428	0
126	Hybridization Chain Reaction Lateral Flow Assays for Amplified Instrument-Free At-Home SARS-CoV-2 Testing. <b>2023</b> , 9, 450-458	0
125	Low impact of regular PCR testing on presence at work site during the COVID-19 pandemic: experiences during an open observational study in Lower Saxony 2020-21. <b>2023</b> , 23,	0
124	Probing the affinity of noble metal nanoparticles to the segments of the SARS-CoV-2 spike protein. <b>2023</b> , 26, 106110	0
123	Antiviral Activity of Micafungin and Its Derivatives against SARS-CoV-2 RNA Replication. <b>2023</b> , 15, 452	0
122	Conventional and Novel Diagnostic Tools for the Diagnosis of Emerging SARS-CoV-2 Variants. <b>2023</b> , 11, 374	0
121	Risk stratification of hospital admissions for COVID-19 pneumonia by chest radiographic scoring in a Johannesburg tertiary hospital. 75-83	0
120	Recomendaciones para el diagnóstico de la infección por SARS-CoV-2 en pediatría. <b>2022</b> , 35, 137-142	0
119	Traditional Vietnamese medicine Kovir capsule for non-severe COVID -19 patients: A phase III double-blind randomized controlled trial.	0
118	Clinical Validation of GenBody COVID-19 Ag, Nasal and Nasopharyngeal Rapid Antigen Tests for Detection of SARS-CoV-2 in European Adult Population. <b>2023</b> , 11, 493	1
117	Evaluation of RT-PCR assays for detection of SARS-CoV-2 variants of concern. <b>2023</b> , 13,	0
116	Tailored Multiplex Real-Time RT-PCR with Species-Specific Internal Positive Controls for Detecting SARS-CoV-2 in Canine and Feline Clinical Samples. <b>2023</b> , 13, 602	0

- 115 CASP4/11 Contributes to NLRP3 Activation and COVID-19 Exacerbation. ○
- 114 Internet of Things in the Global Impacts of COVID-19. **2023**, 177-203 ○
- 113 Distinct tissue niches direct lung immunopathology via CCL18 and CCL21 in severe COVID-19. **2023**, 14, ○
- 112 Functional comparisons of the virus sensor RIG-I from humans, the microbat *Myotis daubentonii*, and the megabat *Rousettus aegyptiacus*, and their response to SARS-CoV-2 infection. ○
- 111 Evaluation of diagnostic performance of SARS-CoV-2 detection kits: a comparative study. **2023**, 12, ○
- 110 Regulatory T Cell-like Response to SARS-CoV-2 in Jamaican Fruit Bats (*Artibeus jamaicensis*) Transduced with Human ACE2. ○
- 109 Sarbecoviruses of British Horseshoe Bats; Sequence Variation and Epidemiology. ○
- 108 SCovNet: A skip connection-based feature union deep learning technique with statistical approach analysis for the detection of COVID-19. **2023**, 43, 352-368 ○
- 107 Asymmetric parameter enhancement in the split-ring cavity array for virus-like particle sensing. **2023**, 14, 1216 ○
- 106 RBD and Spike DNA-Based Immunization in Rabbits Elicited IgG Avidity Maturation and High Neutralizing Antibody Responses against SARS-CoV-2. **2023**, 15, 555 ○
- 105 Deep Learning Convolutional Neural Network for SARS-CoV-2 Detection Using Chest X-Ray Images. **2023**, 12, 71-86 ○
- 104 Assessment of the Interferon-Lambda-3 Polymorphism in the Antibody Response to COVID-19 in Older Adults Seropositive for CMV. **2023**, 11, 480 ○
- 103 SARS-CoV-2 Wastewater Surveillance in Ten Cities from Mexico. **2023**, 15, 799 ○
- 102 Centrifugal microfluidic-based multiplex recombinase polymerase amplification assay for rapid detection of SARS-CoV-2. **2023**, 26, 106245 ○
- 101 Extraction Bottleneck in the Diagnosis of SARS-CoV-2: Evaluation of an Alternative Protocol Derived from Veterinary Use. **2023**, 11, 535 ○
- 100 Longitudinal dynamics of *Streptococcus pneumoniae* carriage and SARS-CoV-2 infection in households with children. ○
- 99 Occupational risk of SARS-CoV-2 infection: a nationwide register-based study of the Danish workforce during the COVID-19 pandemic, 2020-2021. **2023**, 80, 202-208 ○
- 98 Diagnostic accuracy for a plasma SARS-CoV-2 Nucleocapsid Protein method. 11, 732 ○



- 97 The Luciferase Immunoprecipitation System (LIPS) Targeting the Spike Protein of SARS-CoV-2 Is More Accurate than Nucleoprotein-Based LIPS and ELISAs for Mink Serology. **2023**, 2023, 1-10 ○
- 96 Predicting the severity of COVID-19 patients using the CD24-CSF1R index in whole blood samples. **2023**, 9, e13945 ○
- 95 VIGIAI - VIGILANCIA EPIDEMIOLOGICA AMBIENTAL INTEGRATIVA - LABORATORIO DE VIROLOGIA APLICADA DA UFSC BRASIL: BASES DA FERRAMENTA EPIDEMIOLOGICA PARA O MONITORAMENTO VIRAL A PARTIR DO ESGOTO SANITARIO. **2023**, 60-84 ○
- 94 Time to result advantage of point-of-care SARS-CoV-2 PCR testing to confirm COVID-19 in emergency department: a retrospective multicenter study. **2023**, 30, 132-134 ○
- 93 Durable reprogramming of neutralising antibody responses following breakthrough Omicron infection. ○
- 92 SARS-CoV-2 molecular epidemiology in Slovenia, January to September 2021. **2023**, 28, ○
- 91 Global landscape of SARS-CoV-2 mutations and conserved regions. **2023**, 21, ○
- 90 Agnostic Sequencing for Detection of Viral Pathogens. **2023**, 36, ○
- 89 Initial Stage Identification of COVID-19 Using Capsule Networks. **2023**, 203-222 ○
- 88 Transcranial direct current electrical stimulation in combination with aerobic exercise: A pilot study in post-COVID-19 systemic autoimmune rheumatic patients. 11, 1-12 ○
- 87 R-Propranolol Has Broad-Spectrum Anti-Coronavirus Activity and Suppresses Factors Involved in Pathogenic Angiogenesis. **2023**, 24, 4588 ○
- 86 SARS-CoV-2 in animals: susceptibility of animal species, risk for animal and public health, monitoring, prevention and control. **2023**, 21, 1
- 85 Validating a clinical laboratory parameter-based deisolation algorithm for patients with COVID-19 in the intensive care unit using viability PCR: the CoLaIC multicentre cohort study protocol. **2023**, 13, e069455 ○
- 84 Performance Evaluation of Four Qualitative RT-PCR Assays for the Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). **2023**, 11, ○
- 83 A comprehensive review and clinical guide to molecular and serological diagnostic tests and future development: In vitro diagnostic testing for COVID-19. **2023**, 12, ○
- 82 Detection-Accuracy Enhancement of COVID-19 from Multi-Class Lung Diseases by Instrumenting CLAHE Integrated Deep Learning Technique. **2022**, ○
- 81 Dipeptidyl Peptidase-4 Inhibitors, Glucagon-Like Peptide-1 Receptor Agonists, and Sodium-Glucose Cotransporter-2 Inhibitors and COVID-19 Outcomes. **2023**, ○
- 80 Prediction of COVID-19 Spreaders. **2023**, 33-39 ○

- 79 Burden of Influenza and Respiratory Syncytial Viruses in Suspected COVID-19 Patients: A Cross-Sectional and Meta-Analysis Study. **2023**, 15, 665 ○
- 78 Novel bispecific human antibody platform specifically targeting a fully open spike conformation potently neutralizes multiple SARS-CoV-2 variants. **2023**, 212, 105576 ○
- 77 Preclinical safety and efficacy of a therapeutic antibody that targets SARS-CoV-2 at the sotrovimab face but is escaped by Omicron. **2023**, 26, 106323 ○
- 76 Size distribution and relationship of airborne SARS-CoV-2 RNA to indoor aerosol in hospital ward environments. **2023**, 13, ○
- 75 Prewhitening and normalization help detect a strong cross-correlation between daily wastewater SARS-CoV-2 RNA abundance and COVID-19 cases in a community. ○
- 74 Preoperative SARS-CoV-2 Infection Screening before Thoracic Surgery during COVID-19 Pandemic: A Multicenter Retrospective Study. **2023**, 2023, 1-8 ○
- 73 A full genome tiling array enhanced the inspection and quarantine of SARS-CoV-2. **2023**, 20, ○
- 72 SARS-CoV-2-related bat virus behavior in human-relevant models sheds light on the origin of COVID-19. **2023**, 24, 1
- 71 Planning For The Next Pandemic: Lab Systems Need Policy Shift To Speed Emerging Infectious Disease Warning And Tracking. **2023**, 42, 366-373 ○
- 70 UVC-Based Air Disinfection Systems for Rapid Inactivation of SARS-CoV-2 Present in the Air. **2023**, 12, 419 ○
- 69 A plant-produced SARS-CoV-2 spike protein elicits heterologous immunity in hamsters. 14, ○
- 68 Oral SARS-CoV-2 host responses predict the early COVID-19 disease course. ○
- 67 Multi-Modal Point-of-Care Diagnostics for COVID-19 Based on Acoustics and Symptoms. **2023**, 11, 199-210 ○
- 66 Identification of the viral and cellular microRNA interactomes during SARS-CoV-2 infection. **2023**, 42, 112282 ○
- 65 COVID-19 chest X-ray image analysis by threshold-based segmentation. **2023**, 9, e14453 ○
- 64 High Throughput SARS-CoV-2 Genome Sequencing from 384 Respiratory Samples Using the Illumina COVIDSeq Protocol. **2023**, 14, 681 ○
- 63 Comprehensive analysis of clinical indications and viral strain variants among patients infected with SARS-CoV-2 in Inner Mongolia, China. ○
- 62 Dermatological Manifestations in COVID-19: A Case Study of SARS-CoV-2 Infection in a Genetic Thrombophilic Patient with Mthfr Mutation. **2023**, 12, 438 ○

- 61 Carrageenan from *Gigartina skottsbergii*: A Novel Molecular Probe to Detect SARS-CoV-2. **2023**, 13, 378 ○
- 60 Human Brain Microvascular Endothelial Cells Exposure to SARS-CoV-2 Leads to Inflammatory Activation through NF- $\kappa$ B Non-Canonical Pathway and Mitochondrial Remodeling. **2023**, 15, 745 ○
- 59 Active Enrichment of Nanoparticles for Ultra-Trace Point-of-Care COVID-19 Detection. **2023**, 95, 5316-5322 ○
- 58 Evaluation and deployment of isotype-specific salivary antibody assays for detecting previous SARS-CoV-2 infection in children and adults. **2023**, 3, ○
- 57 A Prototype for Interpretation of Sars-Cov-2 Tests Using Artificial Vision. **2022**, ○
- 56 The COVID-19 pandemic in various restriction policy scenarios based on the dynamic social contact rate. **2023**, 9, e14533 ○
- 55 Performance Evaluation of a BZ COVID-19 NALF Assay for Rapid Diagnosis of SARS-CoV-2. **2023**, 13, 1118 ○
- 54 Dynamic characteristics of a COVID-19 outbreak in Nanjing, Jiangsu province, China. 10, ○
- 53 Novel Aspects of the Immune Response Involved in the Peritoneal Damage in Chronic Kidney Disease Patients under Dialysis. **2023**, 24, 5763 ○
- 52 A straightforward one-step strategy for SARS-CoV-2 diagnosis and screening of variants of concern: a multicentre study. 118, ○
- 51 Comparison of Reverse Transcription (RT)-Quantitative PCR and RT-Droplet Digital PCR for Detection of Genomic and Subgenomic SARS-CoV-2 RNA. **2023**, 11, ○
- 50 Efficacy of chlorin dioxide wipes in disinfecting airway devices contaminated with Covid-19. 13, ○
- 49 Label-Free Saliva Test for Rapid Detection of Coronavirus Using Nanosensor-Enabled SERS. **2023**, 10, 391 ○
- 48 SARS-CoV-2 breakthrough infection induces rapid memory and de novo T' cell responses. **2023**, 56, 879-892.e4 ○
- 47 Spatiotemporal analysis of SARS-CoV-2 infection reveals an expansive wave of monocyte-derived macrophages associated with vascular damage and virus clearance in hamster lungs. ○
- 46 Scalable RT-LAMP-based SARS-CoV-2 testing for infection surveillance with applications in pandemic preparedness. ○
- 45 Prevalence of COVID-19 outcomes in patients referred to opioid agonist treatment centers. 14, ○
- 44 History of advances in genetic engineering of viruses before COVID-19 pandemic. 14, 109 ○

- 43 Comparative study between gold standard real-time RT-PCR assay and rapid antigen test for detection of COVID-19 in Sylhet CMH. **2023**, 7, 26-31 ○
- 42 Booster vaccination with Ad26.COV2.S or an Omicron-adapted vaccine in pre-immune hamsters protects against Omicron BA.2. **2023**, 8, ○
- 41 Extraction-free clinical detection of SARS-CoV-2 virus from saline gargle samples using Hamilton STARlet liquid handler. **2023**, 13, ○
- 40 Recent Developments in Nanotechnology-Based Biosensors for the Diagnosis of Coronavirus. ○
- 39 Evaluation of Total Antibody Tests in Patients with Suspected COVID-19 by Computed Tomography and Polymerized Chain Reaction Test Results. ○
- 38 Clinical Profile and Risk Factors for Severe COVID-19 in Hospitalized Patients from Rio de Janeiro, Brazil: Comparison between the First and Second Pandemic Waves. **2023**, 12, 2568 ○
- 37 Detection of SARS-CoV-2 receptor binding domain using fluorescence probe and DNA flowers enabled by rolling circle amplification. **2023**, 190, ○
- 36 Infectious viruses from transfected SARS-CoV-2 genomic RNA. 11, ○
- 35 How Efficient Are Isolation Protocols? Outcome of Isolation Protocol in Surgery during COVID-19 Pandemic: A Single Institute Experience. **2023**, 2023, 1-8 ○
- 34 Prior COVID-19 Immunization Does Not Cause IgA- or IgG-Dependent Enhancement of SARS-CoV-2 Infection. **2023**, 11, 773 ○
- 33 Genotyping SARS-CoV-2 Variants Using Ratiometric Nucleic Acid Barcode Panels. **2023**, 95, 5877-5885 ○
- 32 Application of Biosensors in the Detection of SARS-CoV-2. **2023**, 81, 253 ○
- 31 Live-attenuated vaccine sCPD9 elicits superior mucosal and systemic immunity to SARS-CoV-2 variants in hamsters. ○
- 30 Modular adjuvant-free pan-HLA-DR-immunotargeting subunit vaccine against SARS-CoV-2 elicits broad sarbecovirus-neutralizing antibody responses. **2023**, 42, 112391 ○
- 29 Deep-Learning-Based COVID-19 Diagnosis and Implementation in Embedded Edge-Computing Device. **2023**, 13, 1329 ○
- 28 A comparison of five Illumina, Ion Torrent, and nanopore sequencing technology-based approaches for whole genome sequencing of SARS-CoV-2. ○
- 27 Major determinant factors of pediatric COVID-19 severity; a single center study. **2023**, 71, ○
- 26 Circulation of SARS-CoV-2 Related Coronaviruses and Alphacoronaviruses in Bats from Croatia. **2023**, 11, 959 ○

- 25 Multiplex RT Real-Time PCR Based on Target Failure to Detect and Identify Different Variants of SARS-CoV-2: A Feasible Method That Can Be Applied in Clinical Laboratories. **2023**, 13, 1364 ○
- 24 Longitudinal study of humoral immunity against SARS-CoV-2 of health professionals in Brazil: the impact of booster dose and reinfection on antibody dynamics. ○
- 23 The critical role of engineering in the rapid development of COVID-19 diagnostics: Lessons from the RADx Tech Test Verification Core. **2023**, 9, ○
- 22 FRET Based Biosensor: Principle Applications Recent Advances and Challenges. **2023**, 13, 1375 ○
- 21 Effectiveness of a Self-Decontaminating Coating Containing Usnic Acid in Reducing Environmental Microbial Load in Tertiary-Care Hospitals. **2023**, 20, 5434 ○
- 20 Cell culture systems for isolation of SARS-CoV-2 clinical isolates and generation of recombinant virus. **2023**, 106634 ○
- 19 CRISPR-Cas12-Based Diagnostic Applications in Infectious and Zoonotic Diseases. **2023**, 267-278 ○
- 18 COVID-19: Correlation between HRCT findings and clinical prognosis and analysis of parenchymal pattern evolution. 13, 10 ○
- 17 Amplification-Free Detection of SARS-CoV-2 Down to Single Virus Level by Portable Carbon Nanotube Biosensors. ○
- 16 Automation of the RT-PCR to detect SARS-CoV-2 approved in Mexico by using the BD Max open system. **2020**, 8, 115-118 ○
- 15 Inactivated vaccine-elicited potent antibodies can broadly neutralize SARS-CoV-2 circulating variants. **2023**, 14, ○
- 14 RECAST: Study protocol for an observational study for the understanding of the increased REsilience of Children compared to Adults in SARS-CoV-2 infection. **2023**, 13, e065221 ○
- 13 Quickly screening people for COVID-19 with the Pluslife SARS-CoV-2 nucleic acid rapid test kit: A multicenter prospective cohort study (Preprint). ○
- 12 Human airway ex vivo models: new tools to study the airway epithelial cell response to SARS-CoV-2 infection. ○
- 11 Low-density lipoprotein receptor-related protein 1 (LRP1) as an auxiliary host factor for RNA viruses. **2023**, 6, e202302005 ○
- 10 Comparison of Extraction Free Dry Swab with Standard Extraction-based RT-PCR Method for Diagnosis of SARS-CoV-2. **2023**, 6, 29-32 ○
- 9 Virulence Profiles of Wild-Type, P.1 and Delta SARS-CoV-2 Variants in K18-hACE2 Transgenic Mice. **2023**, 15, 999 ○
- 8 Nonlinear interdependence of the results of measuring anti-SARS-CoV-2 IgG levels using Abbott and Euroimmun test systems. **2023**, 105448 ○

- 7 Proof-of-concept for effective antiviral activity of an in silico designed decoy synthetic mRNA against SARS-CoV-2 in the Vero E6 cell-based infection model. 14,
- 6 Lipid Accumulation in Host Cells Promotes SARS-CoV-2 Replication. **2023**, 15, 1026
- 5 Screening the *Thermotoga maritima* genome for new wide-spectrum nucleoside and nucleotide kinases. **2023**, 104746
- 4 Immune Responses and Pathogenesis following Experimental SARS-CoV-2 Infection in Domestic Cats. **2023**, 15, 1052
- 3 A long-term passive sampling approach for wastewater-based monitoring of SARS-CoV-2 in Leipzig, Germany. **2023**, 887, 164143
- 2 COVID-19 hospitalized patients and oral changes: a case-control study.
- 1 SARS-CoV-2 Seroprevalence Studies in Pets, Spain. **2023**, 29,