

Eastern Mediterranean Health Genomics & Biotechnology Network



www.emgen.net

EMGEN newsletter (Special Issue-113 on COVID-19 and Monkeypox)

Number 5-33, July, 2022

Novel Coronavirus (COVID-19) Research and EMRO countries

Row	Article	link	Country
1	Role of tyrosine kinase inhibitor in chronic myeloid leukemia patients with SARS-CoV-2 infection: a narrative Review	https://pubmed.ncbi.nlm.nih.gov/35777011	Afghanistan, Pakistan, Saudi Arabia
2	Innovations in medical education during the COVID-19 era and beyond: medical students'	https://pubmed.ncbi.nlm.nih.gov/35769788	Bahrain

perspectives on the transformation of real public health visits into virtual format

3	A systematic review of arterial dissections in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/35762547	Bahrain
4	Investigating the structure-activity relationship of marine polycyclic batzelladine alkaloids as promising inhibitors for SARS-CoV-2 main protease (M^{pro})	https://pubmed.ncbi.nlm.nih.gov/35777088	Egypt, Morocco
5	Functional and mental health affection (depression, anxiety, stress) among Egyptian rheumatic diseases patients during COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/35776049	Egypt
6	Diagnostic performance and inter-observer variability of CO-RADS in the triage of patients with suspected COVID-19 infection: initial experience in Zagazig University Hospital	https://pubmed.ncbi.nlm.nih.gov/35774221	Egypt
7	Acceptance of COVID-19 vaccination among maintenance hemodialysis patients: an Egyptian survey study	https://pubmed.ncbi.nlm.nih.gov/35773749	Egypt
8	Insights on the quantitative concurrent fluorescence-based analysis of anti-COVID-19 drugs Remdesivir and Favipiravir	https://pubmed.ncbi.nlm.nih.gov/35771341	Egypt
9	Analysis of mHealth research: mapping the relationship between mobile apps technology and healthcare during COVID-19 outbreak	https://pubmed.ncbi.nlm.nih.gov/35765078	Egypt

10	Learning from COVID-19 to prevent and prepare for pandemics in the Eastern Mediterranean Region	https://pubmed.ncbi.nlm.nih.gov/35764355	Egypt, Saudi Arabia
11	Inequities in the deployment of COVID-19 vaccine in the WHO Eastern Mediterranean Region, 2020-2021	https://pubmed.ncbi.nlm.nih.gov/35764354	Egypt
12	Influenza activity in the Eastern Mediterranean Region (EMR) in 2020-2021 amidst the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/35764351	Egypt
13	Prevalence and determinants of anxiety in patients with epilepsy during COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/35761963	Egypt
14	Different aspects of diabetes in hospitalized patients with COVID-19	https://pubmed.ncbi.nlm.nih.gov/35761893	Egypt
15	COVID-19 pandemic response in one of the world's most complex and vulnerable settings	https://pubmed.ncbi.nlm.nih.gov/35760443	Egypt, Saudi Arabia
16	The effect of COVID 19 vaccination on kidney recipients	https://pubmed.ncbi.nlm.nih.gov/35777613	Iran
17	Psychological outcomes of the COVID-19 pandemic in patients with Parkinson's disease: a systematic review	https://pubmed.ncbi.nlm.nih.gov/35777112	Iran

18	Relationship between moral sensitivity and the quality of nursing care for the elderly with COVID-19 in Iranian hospitals	https://pubmed.ncbi.nlm.nih.gov/35773700	Iran
19	National geographical pattern of COVID-19 hospitalization, case fatalities, and associated factors in patients covered by Iran Health Insurance Organization	https://pubmed.ncbi.nlm.nih.gov/35773657	Iran
20	Investigating the burden of disease dimensions (time-dependent, developmental, physical, social and emotional) among family caregivers with COVID-19 patients in Iran	https://pubmed.ncbi.nlm.nih.gov/35773628	Iran
21	Exploration of the impact of coronavirus disease 2019 on people living with HIV in Kerman, Iran: a qualitative study	https://pubmed.ncbi.nlm.nih.gov/35772075	Iran
22	Warm cupping of the posterior thorax in combination with standard conventional therapy for ARDS in COVID-19 patients in ICU: a case series	https://pubmed.ncbi.nlm.nih.gov/35770550	Iran
23	Thrombotic thrombocytopenia after Sinopharm BBIBP-CorV COVID-19 vaccination	https://pubmed.ncbi.nlm.nih.gov/35769629	Iran
24	Organ procurement and transplantation during the COVID-19 pandemic in Iran	https://pubmed.ncbi.nlm.nih.gov/35769425	Iran
25	Adverse outcome and severity of COVID-19 in patients with autoimmune bullous diseases: a historical cohort study	https://pubmed.ncbi.nlm.nih.gov/35768959	Iran

26	Insights into the structural peculiarities of the N-terminal and receptor binding domains of the spike protein from the SARS-CoV-2 Omicron variant	https://pubmed.ncbi.nlm.nih.gov/35767919	Iran
27	SARS-CoV-2 and Guillain-Barré syndrome: lessons from viral infections	https://pubmed.ncbi.nlm.nih.gov/35766944	Iran
28	Targeting and modulation of the natriuretic peptide system in COVID-19: a single or double-edged effect?	https://pubmed.ncbi.nlm.nih.gov/35762551	Iraq, Egypt
29	Breaking bad news during COVID-19 time in surgical, emergency and medical specialties - what more we need to develop?	https://pubmed.ncbi.nlm.nih.gov/35774038	Iraq
30	Sleep quality in COVID-19 recovered patients	https://pubmed.ncbi.nlm.nih.gov/35755910	Iraq
31	Receiving COVID-19 vaccine, hospitalization, and outcomes of patients with COVID-19: a prospective study	https://pubmed.ncbi.nlm.nih.gov/35754392	Iraq
32	The influence of SARS-CoV-2 on semen parameters of infected infertile male in comparison with those that noninfected	https://pubmed.ncbi.nlm.nih.gov/35754112	Iraq
33	Menstrual changes following COVID-19 infection: a cross-sectional study from Jordan and Iraq	https://pubmed.ncbi.nlm.nih.gov/35767537	Jordan, Yemen

34	Knowledge, attitudes, and practices of adult Iraqi population towards COVID-19 booster dose: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/35769339	Jordan, Iraq
35	Functional outcomes of COVID-19 patients with acute ischemic stroke: a prospective, observational, single-center study in North Jordan	https://pubmed.ncbi.nlm.nih.gov/35777044	Jordan
36	Reactivation of herpes simplex keratitis on a corneal graft following SARS-CoV-2 mRNA vaccination	https://pubmed.ncbi.nlm.nih.gov/35774041	Jordan
37	Acceptance of remote education during COVID-19 outbreak in undergraduate nursing students	https://pubmed.ncbi.nlm.nih.gov/35759707	Jordan
38	Short-term side effects of COVID-19 vaccines: a cross-sectional study in Jordan	https://pubmed.ncbi.nlm.nih.gov/35759219	Jordan
39	COVID-19 and Diabetes	https://pubmed.ncbi.nlm.nih.gov/35769073	Kuwait
40	Incidence of SARS-CoV-2 reinfection in a pediatric cohort in Kuwait	https://pubmed.ncbi.nlm.nih.gov/35768102	Kuwait
41	In-hospital mortality in SARS-CoV-2 stratified by sex differences: a retrospective cross-sectional cohort study	https://pubmed.ncbi.nlm.nih.gov/35757308	Kuwait, Egypt
42	Impact of BNT162b2 mRNA vaccination on the development of short and long-term vaccine-	https://pubmed.ncbi.nlm.nih.gov/35755075	Kuwait

related adverse events in inflammatory bowel disease: a multi-center prospective study

43	The prognostic value of biomarker levels and chest imaging in patients with COVID-19 presenting to the emergency department	https://pubmed.ncbi.nlm.nih.gov/35772223	Lebanon
44	The combined outcomes of the COVID-19 pandemic and a collapsing economy on mental well-being: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/35766201	Lebanon
45	Commentary: perceptions of clinical dental students toward online education during the COVID-19 crisis: an Egyptian multicenter cross-sectional survey	https://pubmed.ncbi.nlm.nih.gov/35769752	Morocco
46	Nurses' job burnout and its association with work environment, empowerment and psychological stress during COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/35770445	Oman, Jordan
47	Cardiovascular disease, intensive care, and mortality in coronavirus disease 2019 patients: a meta-analysis	https://pubmed.ncbi.nlm.nih.gov/35775793	Pakistan
48	Comparison of bracket bond failure with the aerosol-generating and novel non-aerosol-generating bonding techniques during the SARS-CoV-2 pandemic among orthodontic patients: a retrospective cohort study	https://pubmed.ncbi.nlm.nih.gov/35775411	Pakistan

49	Modeling the behavioral response of dentists to COVID-19 and assessing the perceived impacts of pandemic on operative dentistry practices in Pakistan	https://pubmed.ncbi.nlm.nih.gov/35769776	Pakistan, Saudi Arabia
50	Acquired hemophilia A with SARS-CoV-2 mRNA vaccine: first case from Pakistan	https://pubmed.ncbi.nlm.nih.gov/35767232	Pakistan
51	COVID-19 pandemic: direct effects on the medical education in Pakistan	https://pubmed.ncbi.nlm.nih.gov/35765599	Pakistan, Syria, Qatar
52	Development of COVID-19 severity assessment score in adults presenting with COVID-19 to the emergency department	https://pubmed.ncbi.nlm.nih.gov/35761197	Pakistan
53	Mediastinal lymphadenopathy: a serious complication in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/35757316	Pakistan
54	Neurological manifestations of COVID-19: a perspective from Pakistani medical students	https://pubmed.ncbi.nlm.nih.gov/35757270	Pakistan
55	Insigting isatin derivatives as potential antiviral agents against NSP3 of COVID-19	https://pubmed.ncbi.nlm.nih.gov/35757111	Pakistan, Saudi Arabia
56	Epidemiology, clinico-pathological characteristics, and comorbidities of SARS-CoV-2-infected Pakistani patients	https://pubmed.ncbi.nlm.nih.gov/35755851	Pakistan
57	Prevalence and correlates of COVID-19 vaccine hesitancy among the elderly in Qatar: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/35777032	Qatar

58	mRNA-based COVID-19 vaccines booster dose: benefits, risks and coverage	https://pubmed.ncbi.nlm.nih.gov/35775753	Qatar
59	Clinical trials on alternative medicines for COVID-19	https://pubmed.ncbi.nlm.nih.gov/35773886	Qatar
60	A narrative review on prevention and early intervention of challenging behaviors in children with a special emphasis on COVID-19 times	https://pubmed.ncbi.nlm.nih.gov/35769177	Qatar
61	Comparison of demographic, clinical and laboratory characteristics between first and second COVID-19 waves in a secondary care hospital in Qatar: a retrospective study	https://pubmed.ncbi.nlm.nih.gov/35768095	Qatar
62	Application of human RNase P normalization for the realistic estimation of SARS-CoV-2 viral load in wastewater: a perspective from Qatar wastewater surveillance	https://pubmed.ncbi.nlm.nih.gov/35761926	Qatar
63	COVID-19 vaccine hesitancy and acceptance among the public in the Persian Gulf Cooperation Council countries: a review of the literature	https://pubmed.ncbi.nlm.nih.gov/35767457	Saudi Arabia, Oman
64	Comparing pregnancy outcomes between symptomatic and asymptomatic COVID-19 positive unvaccinated women: multicenter study in Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/35779468	Saudi Arabia

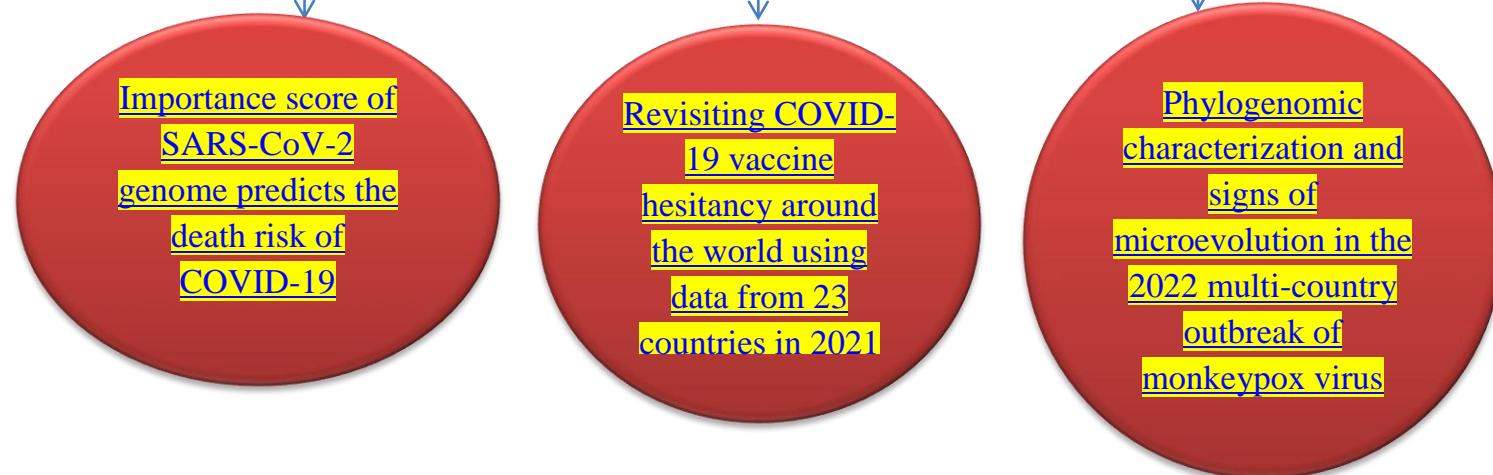
65	<i>In silico</i> screening of some compounds derived from the desert medicinal plant Rhazya stricta for the potential treatment of COVID-19	https://pubmed.ncbi.nlm.nih.gov/35778482	Saudi Arabia
66	Impact of COVID-19 pandemic on quality of partner relationship and sexual activity among COVID positive males: a cross sectional study	https://pubmed.ncbi.nlm.nih.gov/35776044	Saudi Arabia
67	Features and outcomes of confirmed COVID-19 patients presenting to the emergency department	https://pubmed.ncbi.nlm.nih.gov/35774706	Saudi Arabia
68	Evaluating usability of telehealth Sehhaty application used in Saudi Arabia during COVID-19	https://pubmed.ncbi.nlm.nih.gov/35773864	Saudi Arabia
69	The role of artificial intelligence and machine learning during the COVID-19 pandemic: a review	https://pubmed.ncbi.nlm.nih.gov/35773797	Saudi Arabia
70	The impact of a prolonged lockdown and utilization of diabetes telemedicine on cardiometabolic health in people with diabetes during the COVID-19 outbreak in Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/35773134	Saudi Arabia
71	Coronavirus disease 2019 in Saudi Arabia: a nationwide real-world characterization study	https://pubmed.ncbi.nlm.nih.gov/35769341	Saudi Arabia
72	Initial viral cycle threshold values in patients with COVID-19 and their clinical significance	https://pubmed.ncbi.nlm.nih.gov/35765070	Saudi Arabia
73	Hand-foot syndrome like eruption following mRNA COVID-19 vaccine	https://pubmed.ncbi.nlm.nih.gov/35762924	Tunisia

- 74** Resuming bariatric surgery procedures during COVID-19 pandemic: early surgical outcomes at a tertiary referral center in the Middle East <https://pubmed.ncbi.nlm.nih.gov/35765304> United Arab Emirates
- 75** COVID-19 pandemic and the cyberthreat landscape: research challenges and opportunities <https://pubmed.ncbi.nlm.nih.gov/35765301> United Arab Emirates
- 76** Discovery of 2-thiobenzimidazoles as noncovalent inhibitors of SARS-CoV-2 main protease <https://pubmed.ncbi.nlm.nih.gov/35760254> United Arab Emirates

Monkey pox articles

- 1** Human monkeypox coinfections; lessons from available cases – correspondence <https://pubmed.ncbi.nlm.nih.gov/35760344> Iran
- 2** Immediate countermeasures against the monkeypox outbreak <https://pubmed.ncbi.nlm.nih.gov/35760342> Iran
- 3** Re-emergence of monkeypox virus and public health preparedness in Pakistan <https://pubmed.ncbi.nlm.nih.gov/35757887> Pakistan

Websites to get Coronavirus updates/reports



Note: You may click on each of the circles to get access to data.

New Findings

[Plug-and-play test for keeping track of immunity to Sars-CoV-2 variants](#)

Many antibody tests have been developed since the pandemic started, but very few are designed to specifically detect the Sars-CoV-2 neutralizing antibodies which prevent infection. Based on protein complementation, the modular method described here is the first of its kind to measure neutralizing antibodies against variants, from a drop of blood, in under one hour and at low cost.

[Monkeypox mutating 12 times faster than expected: scientists](#)

The monkeypox virus is mutating at a far faster rate than previously expected amid the global outbreak, according to a new study. A new study published in the journal Nature Medicine examined the mutations of the virus. The research team said it was unlikely for viruses like monkeypox to gain more than one or two mutations each year, but the strain responsible for the outbreak is doing more than that.

EMGEN Secretariat: Pasteur Institute of Iran (PII), No. 69, Pasteur Ave, Tehran, Iran.

Tel: +9821 64112444

Fax: +9821 66480780

E-mail: Emgen@pasteur.ac.ir