

Eastern Mediterranean Health Genomics & Biotechnology Network



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EMGEN newsletter (Special Issue-143 on COVID-19 and Monkeypox)

Number 6-16, March, 2023

Novel Coronavirus (COVID-19) Research and EMRO countries

Row	Article	link	Country
1	The lived experiences of nurses caring for patients with COVID-19 in Persian Gulf countries: a multisite descriptive phenomenological study	https://pubmed.ncbi.nlm.nih.gov/36855739	Bahrain, Kuwait, Saudi Arabia, United Arab Emirates
2	Prevalence of negative mental health status during COVID-19 pandemic among general	https://pubmed.ncbi.nlm.nih.gov/36874525	Egypt, Lebanon

population of seven Arab countries: a cross-sectional study of 28843 participants

3	Green fluorometric strategy for simultaneous determination of the antihypertensive drug telmisartan (a tentative therapeutic for COVID-19) with Nebivolol in human plasma	https://pubmed.ncbi.nlm.nih.gov/36864220	Egypt
4	MicroRNAs and cytokines as potential predictive biomarkers for COVID-19 disease progression	https://pubmed.ncbi.nlm.nih.gov/36864077	Egypt
5	Egyptian hemodialysis patients' willingness to receive the COVID-19 vaccine booster dose: a multicenter survey	https://pubmed.ncbi.nlm.nih.gov/36862285	Egypt
6	A peek behind the curtain in the diagnosis and management of COVID-19-associated mucormycosis (CAM)	https://pubmed.ncbi.nlm.nih.gov/36859556	Egypt
7	Altered expression of DNA methyltransferases and methylation status of the TLR4 and TNF- α promoters in COVID-19	https://pubmed.ncbi.nlm.nih.gov/36840831	Egypt
8	Impact of toll-like receptor 2 and 9 gene polymorphisms on COVID-19: susceptibility, severity, and thrombosis	https://pubmed.ncbi.nlm.nih.gov/36825132	Egypt
9	Development of a discharge criteria checklist for COVID-19 patients From the intensive care unit	https://pubmed.ncbi.nlm.nih.gov/36823749	Egypt

10	Development and validation of a red flag prediction model for admission of COVID-19 patients to the intensive care unit	https://pubmed.ncbi.nlm.nih.gov/36823748	Egypt
11	Evaluation of diagnostic performance of SARS-CoV-2 detection kits: a comparative study	https://pubmed.ncbi.nlm.nih.gov/36819293	Egypt
12	Effect of convalescent plasma transfusion on outcomes of coronavirus disease 2019: a meta-analysis with trial sequential analysis	https://pubmed.ncbi.nlm.nih.gov/36811668	Egypt
13	New potential anti-SARS-CoV-2 and anti-cancer therapies of chitosan derivatives and its nanoparticles: preparation and characterization	https://pubmed.ncbi.nlm.nih.gov/36811068	Egypt
14	The role of peroxisome proliferator-activated receptors in the modulation of hyperinflammation induced by SARS-CoV-2 infection: a perspective for COVID-19 therapy	https://pubmed.ncbi.nlm.nih.gov/36875108	Iran, Egypt
15	A review on human reproductive systems encountering with the severe acute respiratory syndrome coronavirus 2 infection	https://pubmed.ncbi.nlm.nih.gov/36875501	Iran
16	The role of the coronavirus pandemic on childbearing intentions in Iranian women based on path analysis: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36875500	Iran
17	Evaluation of nospapine-licorice combination effects on cough relieving in COVID-19 outpatients: a randomized controlled trial	https://pubmed.ncbi.nlm.nih.gov/36873992	Iran

18	The influencing factors of health-related quality of life of the general population of Iran during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36873889	Iran
19	The relationship between sex steroids (E2, progesterone, and AMH) levels and severity and fatality of COVID-19: a systematic review	https://pubmed.ncbi.nlm.nih.gov/36873532	Iran
20	The protection quest is a primary key to sharing the neutralizing antibody response to cover against all emerging VOCs based on BIV1-CovIran studies	https://pubmed.ncbi.nlm.nih.gov/36873499	Iran
21	Bilateral peripheral facial nerve palsy following SARS-CoV-2 infection: a case report and review of literature	https://pubmed.ncbi.nlm.nih.gov/36873067	Iran
22	Effect of four-week home-based exercise program on immune response, fat and muscle mass in subjects recovered from COVID-19	https://pubmed.ncbi.nlm.nih.gov/36869869	Iran
23	Postmortem histopathologic findings and SARS-CoV-2 detection in autopsy kidneys of patients with COVID-19: a systematic review and meta-analysis	https://pubmed.ncbi.nlm.nih.gov/36869828	Iran
24	Secondary bacterial infection caused by ST16 NDM-1 and OXA-48-producing colistin and carbapenem-resistant <i>Klebsiella pneumoniae</i> treated with tigecycline in a pregnant woman with COVID-19	https://pubmed.ncbi.nlm.nih.gov/36869363	Iran

25	Association of ApaI rs7975232 and BsmI rs1544410 in clinical outcomes of COVID-19 patients according to different SARS-CoV-2 variants	https://pubmed.ncbi.nlm.nih.gov/36869206	Iran
26	Interleukin-22 and interleukin-33 show up-regulated levels in the serum of patients with mild/moderate coronavirus disease 2019	https://pubmed.ncbi.nlm.nih.gov/36875710	Iraq
27	Are some COVID-19 vaccines better than others regarding the short-term side effects?	https://pubmed.ncbi.nlm.nih.gov/36858979	Iraq
28	Acid-base imbalance as a risk factor for mortality among COVID-19 hospitalized patients	https://pubmed.ncbi.nlm.nih.gov/36876487	Jordan
29	Mothers' intention to vaccinate their children aged 5-11 against COVID-19: a cross-sectional survey	https://pubmed.ncbi.nlm.nih.gov/36873794	Oman
30	Pakistan's COVID-19 prevention and control response using the World Health Organization's guidelines for epidemic response interventions	https://pubmed.ncbi.nlm.nih.gov/36874693	Pakistan
31	Impact of barriers to SARS-Cov-2 vaccination uptake in HIV-infected patients	https://pubmed.ncbi.nlm.nih.gov/36861245	Pakistan
32	Singapore's dengue outbreak amidst the COVID-19 pandemic: challenges, responses, and lessons	https://pubmed.ncbi.nlm.nih.gov/36861014	Pakistan, Qatar, Syria

33	Post-COVID-19 Pneumocystis pneumonia cases from Pakistan: an observational study	https://pubmed.ncbi.nlm.nih.gov/36860506	Pakistan
34	Diagnostic value of bronchoscopy in Sars-Cov-2 infection: a systematic review	https://pubmed.ncbi.nlm.nih.gov/36842016	Pakistan
35	Correlation between oxygen saturation of patient and severity index of COVID-19 pneumonia on CT	https://pubmed.ncbi.nlm.nih.gov/36842008	Pakistan
36	Structural-based design of HD-TAC7 PROteolysis TArgeting chimeras (PROTACs) candidate transformations to abrogate SARS-CoV-2 infection	https://pubmed.ncbi.nlm.nih.gov/36841549	Pakistan
37	Knowledge, attitudes and perceptions towards COVID-19 vaccinations: a cross-sectional survey in Pakistan	https://pubmed.ncbi.nlm.nih.gov/36837473	Pakistan, Saudi Arabia
38	Culture of vaccine acceptability or resistance: the curious case of Chile's COVID-19 vaccine rollout and anthropology's role in increasing vaccination uptake	https://pubmed.ncbi.nlm.nih.gov/36818493	Pakistan
39	Ancillary findings on high resolution CT chest associated with typical features of COVID-19 pneumonia (observational descriptive study at a tertiary care hospital)	https://pubmed.ncbi.nlm.nih.gov/36660985	Pakistan
40	A prospective observational study to evaluate the safety of COVID-19 mRNA vaccines	https://pubmed.ncbi.nlm.nih.gov/36874588	Qatar

administered to Qatar Rehabilitation Institute patients

41	Psychometric properties of the Arabic version of the positive/negative experiences of parents for school-aged students about online learning during COVID-19 pandemic assessment scale	https://pubmed.ncbi.nlm.nih.gov/36855190	Saudi Arabia, Egypt
42	Epigenetic targets and pathways linked to SARS-CoV-2 infection and pathology	https://pubmed.ncbi.nlm.nih.gov/36838306	Saudi Arabia, Egypt
43	Comparison of different antiviral regimens in the treatment of patients with severe COVID-19: a retrospective cohort	https://pubmed.ncbi.nlm.nih.gov/36837462	Saudi Arabia, Egypt
44	How anxiety attributed to COVID-19, disease knowledge, and intention to vaccinate against SARS-CoV-2 viral infection prevail in general public of Saudi Arabia?	https://pubmed.ncbi.nlm.nih.gov/36825138	Saudi Arabia, Pakistan
45	Conduct dental care for uncontrolled diabetic patients during COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36811086	Saudi Arabia, Pakistan
46	Assessment of medical students burnout during COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36834259	Saudi Arabia, Egypt
47	Molecular screening of bioactive compounds of garlic for therapeutic effects against COVID-19	https://pubmed.ncbi.nlm.nih.gov/36831179	Saudi Arabia, Egypt
48	Liver injury in Favipiravir-treated COVID-19 patients: retrospective single-center cohort study	https://pubmed.ncbi.nlm.nih.gov/36828545	Saudi Arabia, Egypt

49	Synthesis, molecular docking, and dynamic simulation targeting main protease (Mpro) of new, thiazole clubbed pyridine scaffolds as potential COVID-19 inhibitors	https://pubmed.ncbi.nlm.nih.gov/36826038	Saudi Arabia, Egypt
50	Occurrence, risk factors, and outcomes of pulmonary barotrauma in critically ill COVID-19 patients: a retrospective cohort study	https://pubmed.ncbi.nlm.nih.gov/36875553	Saudi Arabia
51	Adult-onset still's disease after SARS-Cov-2 infection	https://pubmed.ncbi.nlm.nih.gov/36873075	Tunisia
52	Single crystal investigations, Hirshfeld surface analysis, DFT studies, molecular docking, physico-chemical characterization, and biological activity of a novel non-centrosymmetric compound with a copper transition metal precursor	https://pubmed.ncbi.nlm.nih.gov/36873014	Tunisia, Saudi Arabia
53	Interleukin6 prediction of mortality in critically ill COVID-19 patients: a prospective observational cohort study	https://pubmed.ncbi.nlm.nih.gov/36857362	Tunisia
54	Anti-cytokine therapy in hospitalized patients with COVID-19: the jury is out	https://pubmed.ncbi.nlm.nih.gov/36876195	United Arab Emirates
55	Hospital pharmacy response to the COVID-19 pandemic: experience from a regional referral center in the United Arab Emirates	https://pubmed.ncbi.nlm.nih.gov/36864489	United Arab Emirates

56	Risk of hospitalization and vaccine effectiveness among COVID-19 patients in the UAE during the Delta and Omicron outbreaks	https://pubmed.ncbi.nlm.nih.gov/36860855	United Arab Emirates
57	The impact of COVID-19 quarantine on lifestyle indicators in the United Arab Emirates	https://pubmed.ncbi.nlm.nih.gov/36860383	United Arab Emirates
58	Psychological effect of COVID-19 pandemic on healthcare professionals of Yemen and coping strategies	https://pubmed.ncbi.nlm.nih.gov/36855244	Yemen, Pakistan
Monkeypox Articles			
1	Monkeypox (mpox) outbreak: more queries posed as cases soar globally	https://pubmed.ncbi.nlm.nih.gov/36865422	Oman, Jordan, Egypt, Lebanon
2	Ocular manifestations: a novel association of monkeypox virus outbreak in 2022	https://pubmed.ncbi.nlm.nih.gov/36871460	Pakistan
3	Monkeypox at the human-animal-ecology interface: a comprehensive review of viral characteristics, transmission, pathobiology, prevention, and control strategies	https://pubmed.ncbi.nlm.nih.gov/36864002	Qatar

Websites to get Coronavirus updates/reports



[Estimating immunity with mathematical models for SARS-CoV-2 after COVID-19 vaccination](#)

[Autoantibodies against chemokines post-SARS-CoV-2 infection correlate with disease course](#)

[Understanding COVID-19 in children: immune determinants and post-infection conditions](#)

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

New Findings

'Centaurus' subvariant of Omicron: What do we know?

An emerging subvariant of Omicron, BA.2.7, nicknamed “Centaurus” on social media, is causing both concern and confusion among people worldwide. Why the astronomical nickname, what do we know about it, and is there really cause for worry? Here is what the data and experts have to say.

COVID-19's impact on the brain: Immune response may cause damage

A small cadaver study found that immune response to COVID-19 infection may lead to damage to blood vessels in the brain. LuisPortugal/Getty Images

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