

# Eastern Mediterranean Health Genomics & Biotechnology Network



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EMGEN newsletter (Special Issue-135 on COVID-19 and Monkeypox)

Number 6-8, January, 2023

## Novel Coronavirus (COVID-19) Research and EMRO countries

Row	Article	link	Country
1	Corona disease anxiety and health related behaviors: what Happened to primigravida women post COVID-19?	<a href="https://pubmed.ncbi.nlm.nih.gov/36597507">https://pubmed.ncbi.nlm.nih.gov/36597507</a>	Egypt, Bahrain
2	Screening for oropharyngeal dysphagia in hospitalized COVID-19 patients: a prospective study	<a href="https://pubmed.ncbi.nlm.nih.gov/36607433">https://pubmed.ncbi.nlm.nih.gov/36607433</a>	Egypt

3	Integration of LC-MS, NMR and molecular docking for profiling of bioactive diterpenes from <i>Euphorbia mauritanica</i> L. with <i>in-vitro</i> anti-SARS-CoV-2 activity	<a href="https://pubmed.ncbi.nlm.nih.gov/36602020">https://pubmed.ncbi.nlm.nih.gov/36602020</a>	Egypt
4	Safety and reported adverse effects of coronavirus disease -2019 (COVID-19) vaccines in patients with rheumatic diseases	<a href="https://pubmed.ncbi.nlm.nih.gov/36597426">https://pubmed.ncbi.nlm.nih.gov/36597426</a>	Egypt
5	Evaluation of a series of nucleoside analogs as effective anticoronaviral-2 drugs against the Omicron-B.1.1.529/BA.2 subvariant: a repurposing research study	<a href="https://pubmed.ncbi.nlm.nih.gov/36593869">https://pubmed.ncbi.nlm.nih.gov/36593869</a>	Egypt
6	Immunoglobulin G antibody immune response profile following infection with SARS-CoV-2 in COVID-19 Egyptian patients	<a href="https://pubmed.ncbi.nlm.nih.gov/36591958">https://pubmed.ncbi.nlm.nih.gov/36591958</a>	Egypt
7	Estimation of immune response (IgG) to SARS-COV2 (COVID-19) after the third COVID-19 wave in Egypt, a cross-sectional Study	<a href="https://pubmed.ncbi.nlm.nih.gov/36591956">https://pubmed.ncbi.nlm.nih.gov/36591956</a>	Egypt
8	Identification of potent COVID-19 main protease inhibitors by loading of favipiravir on Mg <sub>12</sub> O <sub>12</sub> and Zn <sub>12</sub> O <sub>12</sub> nanoclusters: an <i>in silico</i> strategy for COVID-19 treatment	<a href="https://pubmed.ncbi.nlm.nih.gov/36591698">https://pubmed.ncbi.nlm.nih.gov/36591698</a>	Egypt, Iraq
9	COVID-19 and monkeypox co-infection: a rapid systematic review	<a href="https://pubmed.ncbi.nlm.nih.gov/36591217">https://pubmed.ncbi.nlm.nih.gov/36591217</a>	Egypt

10	Molecular docking and dynamic simulation revealed the potential inhibitory activity of opioid compounds targeting the main protease of SARS-CoV-2	<a href="https://pubmed.ncbi.nlm.nih.gov/36588530">https://pubmed.ncbi.nlm.nih.gov/36588530</a>	Egypt, Saudi Arabia
11	Evaluation of diagnostic performance of a rapid antigen test in diagnosing COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/36588449">https://pubmed.ncbi.nlm.nih.gov/36588449</a>	Egypt
12	Assessment of diagnostic and prognostic laboratory biomarkers in severe COVID-19 patients admitted to intensive care unit	<a href="https://pubmed.ncbi.nlm.nih.gov/36588448">https://pubmed.ncbi.nlm.nih.gov/36588448</a>	Egypt
13	Relationship between resilience and caregiver burden among home caregivers of COVID-19 patients	<a href="https://pubmed.ncbi.nlm.nih.gov/36607209">https://pubmed.ncbi.nlm.nih.gov/36607209</a>	Iran
14	Conduction system disorders and electrocardiographic findings in COVID-19 deceased patients in 2021, Shiraz, Iran	<a href="https://pubmed.ncbi.nlm.nih.gov/36605421">https://pubmed.ncbi.nlm.nih.gov/36605421</a>	Iran
15	Respiratory bacterial and fungal superinfections during the third surge of the COVID-19 pandemic in Iran	<a href="https://pubmed.ncbi.nlm.nih.gov/36603057">https://pubmed.ncbi.nlm.nih.gov/36603057</a>	Iran
16	Impacts of IL-27 and IL-32 in the pathogenesis and outcome of COVID-19 associated mucormycosis	<a href="https://pubmed.ncbi.nlm.nih.gov/36602425">https://pubmed.ncbi.nlm.nih.gov/36602425</a>	Iran
17	The effect of synbiotic adjunct therapy on clinical and paraclinical outcomes in hospitalized COVID-19 patients: a randomized placebo-controlled trial	<a href="https://pubmed.ncbi.nlm.nih.gov/36602047">https://pubmed.ncbi.nlm.nih.gov/36602047</a>	Iran

18	Critical roles of cytokine storm and bacterial infection in patients with COVID-19: therapeutic potential of mesenchymal stem cells	<a href="https://pubmed.ncbi.nlm.nih.gov/36600055">https://pubmed.ncbi.nlm.nih.gov/36600055</a>	Iran
19	Personalized predictions of adverse side effects of the COVID-19 vaccines	<a href="https://pubmed.ncbi.nlm.nih.gov/36597482">https://pubmed.ncbi.nlm.nih.gov/36597482</a>	Iran
20	Effects of the COVID-19 pandemic on the nursing profession	<a href="https://pubmed.ncbi.nlm.nih.gov/36597187">https://pubmed.ncbi.nlm.nih.gov/36597187</a>	Iran
21	A novel scoring system for early assessment of the risk of the COVID-19-associated mortality in hospitalized patients: COVID-19 BURDEN	<a href="https://pubmed.ncbi.nlm.nih.gov/36597151">https://pubmed.ncbi.nlm.nih.gov/36597151</a>	Iran
22	Post-discharge thromboembolic events in COVID-19 patients: a review on the necessity for prophylaxis	<a href="https://pubmed.ncbi.nlm.nih.gov/36596272">https://pubmed.ncbi.nlm.nih.gov/36596272</a>	Iran
23	Effect of prone position on clinical outcomes of non-intubated patients with COVID-19: a randomized clinical trial	<a href="https://pubmed.ncbi.nlm.nih.gov/36591534">https://pubmed.ncbi.nlm.nih.gov/36591534</a>	Iran
24	Postpartum multiple colon perforation after cesarean section in COVID-19 patients: a case series	<a href="https://pubmed.ncbi.nlm.nih.gov/36590786">https://pubmed.ncbi.nlm.nih.gov/36590786</a>	Iran
25	The lessons of COVID-19 pandemic for communicable diseases surveillance system in Kurdistan Region of Iraq	<a href="https://pubmed.ncbi.nlm.nih.gov/36593886">https://pubmed.ncbi.nlm.nih.gov/36593886</a>	Iraq, Iran

26	Memory impairment among recovered COVID-19 patients: the prevalence and risk factors, a retrospective cohort study	<a href="https://pubmed.ncbi.nlm.nih.gov/36602051">https://pubmed.ncbi.nlm.nih.gov/36602051</a>	Iraq
27	Spontaneous mid-trimester uterine rupture associated with fetal death in a young patient during COVID-19 pandemic: a case report	<a href="https://pubmed.ncbi.nlm.nih.gov/36590664">https://pubmed.ncbi.nlm.nih.gov/36590664</a>	Iraq
28	Investigation of serum ferritin for the prediction of COVID-19 severity and mortality: a cross-sectional study	<a href="https://pubmed.ncbi.nlm.nih.gov/36589200">https://pubmed.ncbi.nlm.nih.gov/36589200</a>	Iraq
29	Have we failed them? online learning self-efficacy of physiotherapy students during COVID-19 pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/36602531">https://pubmed.ncbi.nlm.nih.gov/36602531</a>	Jordan
30	Psychoeducational interventional programme during the COVID-19 pandemic for nurses with severe occupational stress: a randomized controlled trial	<a href="https://pubmed.ncbi.nlm.nih.gov/36601722">https://pubmed.ncbi.nlm.nih.gov/36601722</a>	Jordan
31	Nurses' experiences of caring for patients with COVID-19: a qualitative study	<a href="https://pubmed.ncbi.nlm.nih.gov/36588664">https://pubmed.ncbi.nlm.nih.gov/36588664</a>	Jordan
32	Effect of COVID-19 vaccine on menstrual experience among females in six Arab countries: a cross sectional study	<a href="https://pubmed.ncbi.nlm.nih.gov/36578138">https://pubmed.ncbi.nlm.nih.gov/36578138</a>	Jordan, Egypt, Sudan, Syria, Libya
33	Rapidly adapted community health strategies to prevent treatment interruption and improve COVID-19 detection for Syrian refugees and	<a href="https://pubmed.ncbi.nlm.nih.gov/36576492">https://pubmed.ncbi.nlm.nih.gov/36576492</a>	Jordan

	the host population with hypertension and diabetes in Jordan		
34	COVID-19 and Ehlers-Danlos syndrome: the dangers of the spike protein of SARS-CoV-2	<a href="https://pubmed.ncbi.nlm.nih.gov/36600622">https://pubmed.ncbi.nlm.nih.gov/36600622</a>	Lebanon
35	The experience of ER nurses in Lebanese hospitals, during the COVID-19 outbreak: a qualitative study	<a href="https://pubmed.ncbi.nlm.nih.gov/36597671">https://pubmed.ncbi.nlm.nih.gov/36597671</a>	Lebanon, United Arab Emirates
36	Investigating the possible mechanisms of autonomic dysfunction post-COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/36580747">https://pubmed.ncbi.nlm.nih.gov/36580747</a>	Lebanon
37	Intrathoracic gas effusions in patients with COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/36607883">https://pubmed.ncbi.nlm.nih.gov/36607883</a>	Morocco
38	Effects of COVID-19 home confinement on musculoskeletal health and physical performance in a cross-sectional study: results of the COVID-19 era online survey	<a href="https://pubmed.ncbi.nlm.nih.gov/36605979">https://pubmed.ncbi.nlm.nih.gov/36605979</a>	Morocco
39	E-learning experience during COVID-19 pandemic management: perception of secondary schools teachers' in Morocco	<a href="https://pubmed.ncbi.nlm.nih.gov/36588666">https://pubmed.ncbi.nlm.nih.gov/36588666</a>	Morocco
40	Molecular modeling targeting the ACE2 receptor with <i>Cannabis sativa</i> 's active ingredients for antiviral drug discovery against SARS-CoV-2 infections	<a href="https://pubmed.ncbi.nlm.nih.gov/36582392">https://pubmed.ncbi.nlm.nih.gov/36582392</a>	Morocco
41	Bats-associated beta-coronavirus detection and characterization: first report from Pakistan	<a href="https://pubmed.ncbi.nlm.nih.gov/36584905">https://pubmed.ncbi.nlm.nih.gov/36584905</a>	Pakistan, Oman

42	The impact of COVID-19 followed by extreme flooding on vector borne diseases in Pakistan: a mini narrative review	<a href="https://pubmed.ncbi.nlm.nih.gov/36589270">https://pubmed.ncbi.nlm.nih.gov/36589270</a>	Pakistan, Afghanistan
43	Nirmatrelvir-ritonavir for the treatment of COVID-19 patients: a systematic review and meta-analysis	<a href="https://pubmed.ncbi.nlm.nih.gov/36606609">https://pubmed.ncbi.nlm.nih.gov/36606609</a>	Pakistan
44	Impact of COVID-19 on mental health of primary healthcare workers in Pakistan: lessons from a qualitative inquiry	<a href="https://pubmed.ncbi.nlm.nih.gov/36600390">https://pubmed.ncbi.nlm.nih.gov/36600390</a>	Pakistan
45	Does the CDC COVID-19 exposure assessment criteria for healthcare personnel work in a healthcare setting in Pakistan?	<a href="https://pubmed.ncbi.nlm.nih.gov/36597236">https://pubmed.ncbi.nlm.nih.gov/36597236</a>	Pakistan
46	Prevalence of COVID-19 among patients with chronic obstructive pulmonary disease and tuberculosis	<a href="https://pubmed.ncbi.nlm.nih.gov/36594409">https://pubmed.ncbi.nlm.nih.gov/36594409</a>	Pakistan
47	Development of myocarditis and pericarditis after COVID-19 vaccination in children and adolescents: a systematic review	<a href="https://pubmed.ncbi.nlm.nih.gov/36594165">https://pubmed.ncbi.nlm.nih.gov/36594165</a>	Pakistan, Syria
48	Impact of organizational characteristics on employees' entrepreneurial orientation with mediating role of knowledge process capabilities and moderating role of psychological factors in the era of COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/36591100">https://pubmed.ncbi.nlm.nih.gov/36591100</a>	Pakistan

49	The standard operating procedures in COVID-19 pandemic for periodontal aerosol-generating procedures: a process audit	<a href="https://pubmed.ncbi.nlm.nih.gov/36584887">https://pubmed.ncbi.nlm.nih.gov/36584887</a>	Pakistan, United Arab Emirates
50	Analysis of differential gene expression of pro-inflammatory cytokines in the nasopharyngeal milieu of mild & severe COVID-19 cases	<a href="https://pubmed.ncbi.nlm.nih.gov/36584119">https://pubmed.ncbi.nlm.nih.gov/36584119</a>	Pakistan
51	The impact of telemental health interventions on maternal mental health outcomes: a pilot randomized controlled trial during the COVID-19 pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/36606005">https://pubmed.ncbi.nlm.nih.gov/36606005</a>	Qatar
52	Assessment of primary care physicians' perception of telemedicine use during the COVID-19 pandemic in primary health care corporation, Qatar	<a href="https://pubmed.ncbi.nlm.nih.gov/36600846">https://pubmed.ncbi.nlm.nih.gov/36600846</a>	Qatar
53	Evaluation of mortality attributable to SARS-CoV-2 vaccine administration using national level data from Qatar	<a href="https://pubmed.ncbi.nlm.nih.gov/36596793">https://pubmed.ncbi.nlm.nih.gov/36596793</a>	Qatar
54	Clinical outcomes of COVID-19-induced acute respiratory distress syndrome in patients with three different respiratory support modalities: a retrospective cohort study	<a href="https://pubmed.ncbi.nlm.nih.gov/36589198">https://pubmed.ncbi.nlm.nih.gov/36589198</a>	Qatar
55	The effects of thrombocytopenia, type 2 diabetes mellitus, and endothelial dysfunction on clinical outcomes in patients with COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/36588776">https://pubmed.ncbi.nlm.nih.gov/36588776</a>	Qatar

56	The length of hospital stays and clinical and therapeutic characteristics of patients with COVID-19 early in the pandemic in Taif City, KSA: a retrospective study	<a href="https://pubmed.ncbi.nlm.nih.gov/36595802">https://pubmed.ncbi.nlm.nih.gov/36595802</a>	Saudi Arabia, Egypt
57	The interplay between severe acute respiratory syndrome coronavirus 2 (SARS-Cov-2) and the hypothalamic and endocrinal disorders: a mini-review	<a href="https://pubmed.ncbi.nlm.nih.gov/36592120">https://pubmed.ncbi.nlm.nih.gov/36592120</a>	Saudi Arabia, Egypt
58	Psychoeconomic impact of the coronavirus pandemic on the general population in Saudi Arabia: a cross-sectional study	<a href="https://pubmed.ncbi.nlm.nih.gov/36597792">https://pubmed.ncbi.nlm.nih.gov/36597792</a>	Saudi Arabia, Jordan, Qatar
59	COVID-19 vaccine acceptance among pregnant and lactating women in Saudi Arabia	<a href="https://pubmed.ncbi.nlm.nih.gov/36601167">https://pubmed.ncbi.nlm.nih.gov/36601167</a>	Saudi Arabia
60	Ethical uncertainty and COVID-19: exploring the lived experiences of senior physicians at a major medical center	<a href="https://pubmed.ncbi.nlm.nih.gov/36600609">https://pubmed.ncbi.nlm.nih.gov/36600609</a>	Saudi Arabia
61	Impact of easing COVID-19 lockdown restrictions on traumatic injuries in Riyadh, Saudi Arabia: one-year experience at a major trauma center	<a href="https://pubmed.ncbi.nlm.nih.gov/36600205">https://pubmed.ncbi.nlm.nih.gov/36600205</a>	Saudi Arabia
62	Impact of quarantine on sleep quality and psychological status in COVID-19 suspected cases in Riyadh, Saudi Arabia	<a href="https://pubmed.ncbi.nlm.nih.gov/36597487">https://pubmed.ncbi.nlm.nih.gov/36597487</a>	Saudi Arabia
63	Multi-objective deep learning framework for COVID-19 dataset problems	<a href="https://pubmed.ncbi.nlm.nih.gov/36590237">https://pubmed.ncbi.nlm.nih.gov/36590237</a>	Saudi Arabia

64	Association between the expression of toll-like receptors, cytokines, and homeostatic chemokines in SARS-CoV-2 infection and COVID-19 severity	<a href="https://pubmed.ncbi.nlm.nih.gov/36589720">https://pubmed.ncbi.nlm.nih.gov/36589720</a>	Saudi Arabia
65	Bioinformatics insights into the genes and pathways on severe COVID-19 pathology in patients with comorbidities	<a href="https://pubmed.ncbi.nlm.nih.gov/36589459">https://pubmed.ncbi.nlm.nih.gov/36589459</a>	Saudi Arabia
66	Knowledge, attitude and practices regarding COVID-19 and their associated factors in patients with type 2 diabetes attending Abdullah-Khalil diabetes center, Omdurman: a cross-sectional study	<a href="https://pubmed.ncbi.nlm.nih.gov/36596011">https://pubmed.ncbi.nlm.nih.gov/36596011</a>	Sudan
67	COVID-19 inpatient treatments and outcomes during the conflict in Syria: an observational cohort study	<a href="https://pubmed.ncbi.nlm.nih.gov/36593893">https://pubmed.ncbi.nlm.nih.gov/36593893</a>	Syria
68	Does infection with Leishmania protect against COVID-19?	<a href="https://pubmed.ncbi.nlm.nih.gov/36603800">https://pubmed.ncbi.nlm.nih.gov/36603800</a>	Tunisia
69	Advanced plasmonic nanoparticle-based techniques for the prevention, detection, and treatment of current COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/36588744">https://pubmed.ncbi.nlm.nih.gov/36588744</a>	Tunisia, Saudi Arabia
70	COVID-19 induced psychosis: a case report	<a href="https://pubmed.ncbi.nlm.nih.gov/36577231">https://pubmed.ncbi.nlm.nih.gov/36577231</a>	Tunisia
71	Food safety knowledge among pregnant women in the United Arab Emirates amid the COVID-19 pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/36584141">https://pubmed.ncbi.nlm.nih.gov/36584141</a>	United Arab Emirates, Jordan

72	"If you're going through hell, keep going": return to practice helped dental students cope with the (COVID-19) pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/36599722">https://pubmed.ncbi.nlm.nih.gov/36599722</a>	United Arab Emirates
73	Peripheral blood cell anomalies in COVID-19 patients in the United Arab Emirates: a single-centered study	<a href="https://pubmed.ncbi.nlm.nih.gov/36590943">https://pubmed.ncbi.nlm.nih.gov/36590943</a>	United Arab Emirates
74	COVID19 biomarkers: what did we learn from systematic reviews?	<a href="https://pubmed.ncbi.nlm.nih.gov/36583110">https://pubmed.ncbi.nlm.nih.gov/36583110</a>	United Arab Emirates
<b>Monkeypox Articles</b>			
1	A systematic review on environmental perspectives of monkeypox virus	<a href="https://pubmed.ncbi.nlm.nih.gov/36593124">https://pubmed.ncbi.nlm.nih.gov/36593124</a>	Iran
2	The monkeypox outbreak: what lessons can we learn from the COVID-19 infodemic?	<a href="https://pubmed.ncbi.nlm.nih.gov/36575744">https://pubmed.ncbi.nlm.nih.gov/36575744</a>	Pakistan
3	The psychological aftermath of an emerging infection affecting pregnant women: is monkeypox to blame?	<a href="https://pubmed.ncbi.nlm.nih.gov/36585500">https://pubmed.ncbi.nlm.nih.gov/36585500</a>	United Arab Emirates, Pakistan
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## Websites to get Coronavirus updates/reports



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graph TD; A[Websites to get Coronavirus updates/reports] --> B[Densely attention mechanism based network for COVID-19 detection in chest X-rays]; A --> C[COVID-19-associated monocytic encephalitis (CAME): histological and proteomic evidence from autopsy]; A --> D[Extracellular vesicles mediate antibody-resistant transmission of SARS-CoV-2]
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Densely attention  
mechanism based  
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COVID-19-associated  
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proteomic evidence  
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Extracellular vesicles  
mediate antibody-  
resistant transmission  
of SARS-CoV-2

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

# New Findings

## [Fewer people tried to quit smoking during COVID-19 pandemic, study shows](#)

A new study shows serious smoking cessation activity declined among adults in the United States immediately after the onset of COVID-19 and persisted for over a year. Declines in attempts to quit smoking were largest among persons experiencing disproportionately negative outcomes during COVID-19, including Black people, people with comorbidities, middle-aged people, and lower educated people.

## [New needle-free nasal vaccine shows promise for COVID-19](#)

New research shows that a needle-free mucosal bacteriophage (phage) T4-based COVID-19 vaccine is effective against SARS-CoV-2 infection.

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