

Eastern Mediterranean Health Genomics & Biotechnology Network



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EMGEN newsletter (Special Issue-33 on Covid-19)

Number 4-07, Dec, 2020

Corona Virus Research and EMRO countries

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1	A survey of the healthcare workers in Afghanistan during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/33308384	Afghanistan
2	Asynchrony between individual and government actions accounts for	https://pubmed.ncbi.nlm.nih.gov/33309450	Bahrain

disproportionate impact of COVID-19 on vulnerable communities

3	Experimental design approach for development of spectrofluorimetric method for determination of favipiravir; a potential therapeutic agent against COVID-19 virus: application to spiked human plasma	https://pubmed.ncbi.nlm.nih.gov/33333412	Egypt
4	Post-COVID-19 fatigue and anhedonia: a cross-sectional study and their correlation to post-recovery period	https://pubmed.ncbi.nlm.nih.gov/33332756	Egypt
5	Prevalence of severe acute respiratory syndrome Coronavirus 2 neutralizing antibodies in Egyptian convalescent plasma donors	https://pubmed.ncbi.nlm.nih.gov/33329484	Egypt
6	An updated review on COVID-19	https://pubmed.ncbi.nlm.nih.gov/33327924	Egypt
7	The impact of family engagement in opioid assisted treatment: results from a randomized controlled trial	https://pubmed.ncbi.nlm.nih.gov/33325311	Egypt, United Arab Emirates
8	Lockdowns and reduction of economic activities during the COVID-19 pandemic improved air quality in Alexandria, Egypt	https://pubmed.ncbi.nlm.nih.gov/33325002	Egypt

9	Multitarget in silico studies of Ocimum menthiifolium, family Lamiaceae against SARS-CoV-2 supported by molecular dynamics simulation	https://pubmed.ncbi.nlm.nih.gov/33317409	Egypt, Saudi Arabia
10	Persistent hiccup: A rare presentation of COVID-19	https://pubmed.ncbi.nlm.nih.gov/33309013	Egypt
11	Increased age, neutrophil-to-lymphocyte ratio (NLR) and white blood cells count are associated with higher COVID-19 mortality	https://pubmed.ncbi.nlm.nih.gov/33333477	Iran
12	Effect of nelfinavir stereoisomers on coronavirus main protease: molecular docking, molecular dynamics simulation and MM/GBSA study	https://pubmed.ncbi.nlm.nih.gov/33333424	Iran
13	Self-reported hand eczema: assessment of prevalence and risk factors in health care versus non-health care workers during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/33332863	Iran
14	Dexamethasone vs. COVID-19: an experimental study in line with the preliminary findings of a large trial	https://pubmed.ncbi.nlm.nih.gov/33332726	Iran
15	Emanating challenges in urban and healthcare waste management in Isfahan, Iran after the	https://pubmed.ncbi.nlm.nih.gov/33331802	Iran

outbreak of COVID-19

16	Comparative molecular dynamics study of the receptor-binding domains in SARS-CoV-2 and SARS-CoV and the effects of mutations on the binding affinity	https://pubmed.ncbi.nlm.nih.gov/33331243	Iran
17	Cutaneous vesicular of COVID-19 in two burn patients	https://pubmed.ncbi.nlm.nih.gov/33330012	Iran
18	Kawasaki disease and COVID-19; a pretext for a hot topic	https://pubmed.ncbi.nlm.nih.gov/33328133	Iran
19	Incidental detections suggestive of COVID-19 in asymptomatic patients undergoing 68Ga-DOTATATE and 68Ga-PSMA-11 PET-CT scan for oncological indications	https://pubmed.ncbi.nlm.nih.gov/33327007	Iran
20	COVID-19: hyperinflammatory syndrome and hemoadsorption with cytoSorb	https://pubmed.ncbi.nlm.nih.gov/33326959	Iran
21	Classification of Covid-19, pneumonia and healthy lungs in CT scans using Q-deformed entropy and deep learning features	https://pubmed.ncbi.nlm.nih.gov/33286289	Iraq, Saudi Arabia
22	Healthy lifestyle behaviors are major predictors of mental wellbeing during COVID-19 pandemic confinement: a study on adult Arabs	https://pubmed.ncbi.nlm.nih.gov/33315880	Jordan, Lebanon, Oman, United Arab

in higher educational institutions

Emirates, Saudi
Arabia, Iraq, Kuwait,

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|-----------|--|---|---------|
| 23 | Correction to: distance learning in clinical medical education amid COVID-19 pandemic in Jordan: current situation, challenges, and perspectives | https://pubmed.ncbi.nlm.nih.gov/33327927 | Jordan |
| 24 | A cross-sectional study to determine factors affecting dental and medical students' preference for virtual learning during the COVID-19 outbreak | https://pubmed.ncbi.nlm.nih.gov/33324768 | Jordan |
| 25 | Dental treatments during the COVID-19 pandemic in three hospitals in Jordan: a retrospective study | https://pubmed.ncbi.nlm.nih.gov/33325372 | Jordan |
| 26 | Transient increase in blast count following COVID-19 infection mimicking acute leukemia | https://pubmed.ncbi.nlm.nih.gov/33314746 | Jordan |
| 27 | Can plastic waste management be a novel solution in combating the novel Coronavirus (COVID-19)? a short research note | https://pubmed.ncbi.nlm.nih.gov/33323044 | Kuwait |
| 28 | The Lebanese COVID-19 cohort; a challenge for the ABO blood group system | https://pubmed.ncbi.nlm.nih.gov/33330542 | Lebanon |
| 29 | COVID-19 in pediatric patients: a focus on CHD patients | https://pubmed.ncbi.nlm.nih.gov/33330675 | Lebanon |

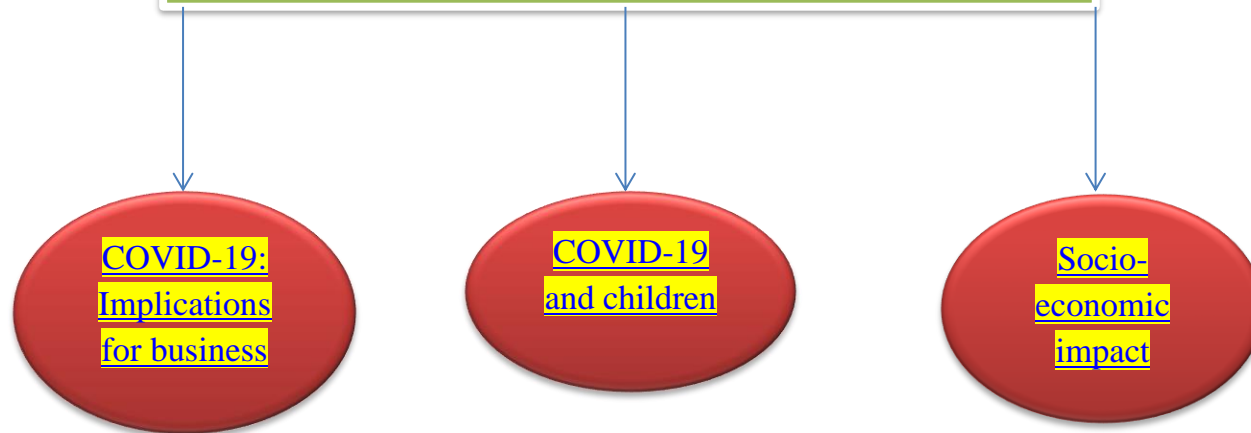
30	COVID-19, antiphospholipid antibodies, and catastrophic antiphospholipid syndrome: a possible association?	https://pubmed.ncbi.nlm.nih.gov/33328777	Lebanon
31	Media exposure and health behavior during pandemics: the mediating effect of perceived knowledge and fear on compliance with COVID-19 prevention measures	https://pubmed.ncbi.nlm.nih.gov/33327785	Lebanon
32	Challenges facing COVID-19 in rural areas: an experience from Lebanon	https://pubmed.ncbi.nlm.nih.gov/33318917	Lebanon
33	The impact of COVID-19 lockdown measures on ED visits in Lebanon	https://pubmed.ncbi.nlm.nih.gov/33317865	Lebanon
34	Study of clinical and biological characteristics of Moroccan Covid-19 patients with and without olfactory and/or gustatory dysfunction	https://pubmed.ncbi.nlm.nih.gov/33329044	Morocco
35	Recent developments of quinoline derivatives and their potential biological activities	https://pubmed.ncbi.nlm.nih.gov/33327918	Morocco
36	Cavernous sinus thrombosis in a COVID-19 patient: a case report	https://pubmed.ncbi.nlm.nih.gov/33318774	Morocco
37	C-reactive protein as an early predictor of COVID-19 severity	https://pubmed.ncbi.nlm.nih.gov/33312067	Morocco
38	Letter in reply: epidemiology of COVID-19 infection in Oman	https://pubmed.ncbi.nlm.nih.gov/33312713	Oman

39	The use of telephone consultation in primary health care during COVID-19 pandemic, Oman: perceptions from physicians	https://pubmed.ncbi.nlm.nih.gov/33307943	Oman
40	Theoretical and numerical analysis of novel COVID-19 via fractional order mathematical model	https://pubmed.ncbi.nlm.nih.gov/33318893	Pakistan
41	Fatal disseminated intravascular coagulopathy in Covid-19: a small case series	https://pubmed.ncbi.nlm.nih.gov/33336328	Pakistan
42	COVID-19: a psychosocial perspective	https://pubmed.ncbi.nlm.nih.gov/33335494	Pakistan
43	COVID-19 and cancer plastic surgery	https://pubmed.ncbi.nlm.nih.gov/33330018	Pakistan
44	Public knowledge, attitudes, and practices towards COVID-19 in Pakistan: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/33311825	Pakistan
45	Self-perceived competency of the medical faculty for E-teaching during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/33325429	Pakistan, Saudi Arabia
46	Brief psychotic disorder associated with quarantine and mild COVID-19	https://pubmed.ncbi.nlm.nih.gov/33328211	Qatar
47	Estimating point prevalence of COVID-19 in Qatar's primary care registered population: an rt-PCR drive through study protocol	https://pubmed.ncbi.nlm.nih.gov/33318046	Qatar

48	A 23-year-old man with SARS-CoV-2 infection who presented with auditory hallucinations and imaging findings of cytotoxic lesions of the corpus callosum (CLOCC)	https://pubmed.ncbi.nlm.nih.gov/33315854	Qatar
49	Assessment of the risk of SARS-CoV-2 reinfection in an intense re-exposure setting	https://pubmed.ncbi.nlm.nih.gov/33315061	Qatar
50	Restructuring nephrology services to combat COVID-19 pandemic: report from a Middle Eastern country	https://pubmed.ncbi.nlm.nih.gov/33312898	Qatar
51	Bat-borne Coronaviruses in Jordan and Saudi Arabia: a threat to public health?	https://pubmed.ncbi.nlm.nih.gov/33316899	Saudi Arabia, Jordan
52	Prevalence of depression, anxiety, and stress among the general population in Saudi Arabia during Covid-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/33316900	Saudi Arabia, Egypt
53	Ramadan fasting in people with type 1 diabetes during COVID-19 pandemic: the DaR global survey	https://pubmed.ncbi.nlm.nih.gov/33321160	Saudi Arabia, Egypt, Pakistan
54	Enzootic patterns of Middle East respiratory syndrome coronavirus in imported African and local Arabian dromedary camels: a prospective genomic study	https://pubmed.ncbi.nlm.nih.gov/31843456	Saudi Arabia
55	Cross-sectional prevalence study of MERS-CoV in local and imported dromedary camels in Saudi Arabia, 2016-2018	https://pubmed.ncbi.nlm.nih.gov/32453746	Saudi Arabia

56	High mortality rate in adult COVID-19 inpatients in eastern Sudan: a retrospective study	https://pubmed.ncbi.nlm.nih.gov/33324068	Saudi Arabia, Sudan
57	The first laboratory-confirmed imported infections of SARS-CoV-2 in Sudan	https://pubmed.ncbi.nlm.nih.gov/33319246	Sudan
58	Biochemical and biophysical characterization of the main protease, 3-chymotrypsin-like protease (3CLpro) from the novel coronavirus SARS-CoV 2	https://pubmed.ncbi.nlm.nih.gov/33335206	United Arab Emirates
59	Immune-boosting role of vitamins D, C, E, zinc, selenium and omega-3 fatty acids: could they help against COVID-19?	https://pubmed.ncbi.nlm.nih.gov/33308613	United Arab Emirates
60	Study of transmission dynamics of COVID-19 mathematical model under ABC fractional order derivative	https://pubmed.ncbi.nlm.nih.gov/33072498	Yemen, Pakistan, Saudi Arabia
61	Knowledge, attitudes, anxiety, and preventive behaviours towards COVID-19 among health care providers in Yemen: an online cross-sectional survey	https://pubmed.ncbi.nlm.nih.gov/33050896	Yemen

Websites to get Coronavirus updates



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

New Findings

[COVID-19 virus enters the brain, research strongly suggests](#)

The SARS-CoV-2 virus, like many viruses before it, is bad news for the brain. In a new study, researchers found that the spike protein, often depicted as the red arms of the virus, can cross the blood-brain barrier in mice. The spike proteins alone can cause brain fog. Since the spike protein enters the brain, the virus also is likely to cross into the brain.

[Three reasons why COVID-19 can cause silent hypoxia](#)

To crack the mystery of what causes silent hypoxia, a condition when oxygen levels in the body are abnormally low, biomedical engineers used computer modeling to test out three different scenarios that help explain how and why the lungs stop providing oxygen to the bloodstream.

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