

# Eastern Mediterranean Health Genomics & Biotechnology Network



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EMGEN newsletter (Special Issue-90 on COVID-19)

Number 5-09, January, 2022

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

<i>Row</i>	<i>Article</i>	<i>link</i>	<i>Country</i>
1	COVID-19 denial in Turkmenistan veiling the real situation	<a href="https://pubmed.ncbi.nlm.nih.gov/34983658">https://pubmed.ncbi.nlm.nih.gov/34983658</a>	Afghanistan, Iraq, Lebanon, Syria
2	Role of neutrophil to lymphocyte ratio as a prognostic indicator for COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/34988293">https://pubmed.ncbi.nlm.nih.gov/34988293</a>	Egypt, Saudi Arabia

3	Excess of cesarean births in pregnant women with COVID-19: a meta-analysis	<a href="https://pubmed.ncbi.nlm.nih.gov/34997608">https://pubmed.ncbi.nlm.nih.gov/34997608</a>	Egypt, Saudi Arabia
4	Characteristics and outcomes of a series of COVID-associated mucormycosis patients in two different settings in Egypt through the third pandemic wave	<a href="https://pubmed.ncbi.nlm.nih.gov/34992339">https://pubmed.ncbi.nlm.nih.gov/34992339</a>	Egypt
5	Erectile dysfunction among patients and health care providers during COVID-19 pandemic: a systematic review	<a href="https://pubmed.ncbi.nlm.nih.gov/34992226">https://pubmed.ncbi.nlm.nih.gov/34992226</a>	Egypt
6	Kidneys in SARS-CoV-2 era; a challenge of multiple faces	<a href="https://pubmed.ncbi.nlm.nih.gov/34989119">https://pubmed.ncbi.nlm.nih.gov/34989119</a>	Egypt
7	Serum amyloid A, ferritin and carcinoembryonic antigen as biomarkers of severity in patients with COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/34987797">https://pubmed.ncbi.nlm.nih.gov/34987797</a>	Egypt
8	Patient self-induced lung injury risk in severe COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/34979324">https://pubmed.ncbi.nlm.nih.gov/34979324</a>	Egypt
9	COVID-19: mathematical growth vs. precautionary measures in China, KSA, and the USA	<a href="https://pubmed.ncbi.nlm.nih.gov/34977332">https://pubmed.ncbi.nlm.nih.gov/34977332</a>	Egypt, Saudi Arabia
10	Teleaudiology practice in COVID-19 pandemic in Egypt and Saudi Arabia	<a href="https://pubmed.ncbi.nlm.nih.gov/34976033">https://pubmed.ncbi.nlm.nih.gov/34976033</a>	Egypt, Saudi Arabia
11	Decision-making framework for a resilient sustainable production system during COVID-19: an evidence-based research	<a href="https://pubmed.ncbi.nlm.nih.gov/34975207">https://pubmed.ncbi.nlm.nih.gov/34975207</a>	Egypt, United Arab Emirates

12	Menthol-assisted homogenous liquid-liquid microextraction for HPLC/UV determination of favipiravir as an antiviral for COVID-19 in human plasma	<a href="https://pubmed.ncbi.nlm.nih.gov/34974319">https://pubmed.ncbi.nlm.nih.gov/34974319</a>	Egypt
13	Novel environment friendly TLC-densitometric method for the determination of anti-coronavirus drugs "Remdesivir and Favipiravir": green assessment with application to pharmaceutical formulations and human plasma	<a href="https://pubmed.ncbi.nlm.nih.gov/34955554">https://pubmed.ncbi.nlm.nih.gov/34955554</a>	Egypt
14	One-step and sequential SARS-CoV-2 polymerase chain reaction tests would not work every time	<a href="https://pubmed.ncbi.nlm.nih.gov/34997789">https://pubmed.ncbi.nlm.nih.gov/34997789</a>	Iran
15	The relationship between blood groups and risk of infection with SARS-CoV-2 or development of severe outcomes: a review	<a href="https://pubmed.ncbi.nlm.nih.gov/34997677">https://pubmed.ncbi.nlm.nih.gov/34997677</a>	Iran
16	Targeting chronic COVID-19 lung injury; Tofacitinib can be used against tissue-resident memory T cells	<a href="https://pubmed.ncbi.nlm.nih.gov/34995938">https://pubmed.ncbi.nlm.nih.gov/34995938</a>	Iran
17	Mental problems of patients recovered from COVID-19: clinical outcomes	<a href="https://pubmed.ncbi.nlm.nih.gov/34995840">https://pubmed.ncbi.nlm.nih.gov/34995840</a>	Iran
18	Outlook of therapeutic and diagnostic competency of nanobodies against SARS-CoV-2: a systematic review	<a href="https://pubmed.ncbi.nlm.nih.gov/34995616">https://pubmed.ncbi.nlm.nih.gov/34995616</a>	Iran

19	Identification of immunodominant epitopes on nucleocapsid and spike proteins of the SARS-CoV-2 in Iranian COVID-19 patients	<a href="https://pubmed.ncbi.nlm.nih.gov/34994386">https://pubmed.ncbi.nlm.nih.gov/34994386</a>	Iran
20	A review study of antibiotics with antiviral and anti-inflammatory potential against COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/34994339">https://pubmed.ncbi.nlm.nih.gov/34994339</a>	Iran
21	Nucleic acid-based vaccines platform against COVID-19 pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/34994327">https://pubmed.ncbi.nlm.nih.gov/34994327</a>	Iran
22	Procalcitonin as a prognostic factor in patients with COVID-19 in southwestern Iran	<a href="https://pubmed.ncbi.nlm.nih.gov/34994319">https://pubmed.ncbi.nlm.nih.gov/34994319</a>	Iran
23	Therapeutic status of Famotidine in COVID-19 patients: a review	<a href="https://pubmed.ncbi.nlm.nih.gov/34994318">https://pubmed.ncbi.nlm.nih.gov/34994318</a>	Iran
24	Comparison of general-social health and corona-induced anxiety between active and inactive students in the COVID-19 pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/34992557">https://pubmed.ncbi.nlm.nih.gov/34992557</a>	Iran
25	Tocilizumab in COVID-19 management: addressing time of starting treatment	<a href="https://pubmed.ncbi.nlm.nih.gov/34992089">https://pubmed.ncbi.nlm.nih.gov/34992089</a>	Iran
26	Recent advancements on COVID-19: a comprehensive review	<a href="https://pubmed.ncbi.nlm.nih.gov/34992449">https://pubmed.ncbi.nlm.nih.gov/34992449</a>	Iraq
27	The role of precious metals in portfolio diversification during the COVID-19 pandemic: a wavelet-based quantile approach	<a href="https://pubmed.ncbi.nlm.nih.gov/34980935">https://pubmed.ncbi.nlm.nih.gov/34980935</a>	Jordan
28	Scaling the children immunization app (CIMA) to support child refugees and parents in the time	<a href="https://pubmed.ncbi.nlm.nih.gov/34978708">https://pubmed.ncbi.nlm.nih.gov/34978708</a>	Jordan

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of the COVID-19 pandemic: a social capital approach to scale a smartphone application in Zaatari Camp, Jordan

<b>29</b>	Does cyberchondria predict internet addiction among students during the COVID-19 pandemic? a web-based survey study	<a href="https://pubmed.ncbi.nlm.nih.gov/34978086">https://pubmed.ncbi.nlm.nih.gov/34978086</a>	Jordan
<b>30</b>	Impact of COVID-19 pandemic and lockdown measures on the mental health of the general population in the Persian Gulf Cooperation Council states: a cross-sectional study	<a href="https://pubmed.ncbi.nlm.nih.gov/34987435">https://pubmed.ncbi.nlm.nih.gov/34987435</a>	Kuwait
<b>31</b>	Isolated thrombosis after COVID-19 vaccination: case series	<a href="https://pubmed.ncbi.nlm.nih.gov/34993889">https://pubmed.ncbi.nlm.nih.gov/34993889</a>	Kuwait
<b>32</b>	Response to and outcomes of the Pfizer BNT162B2 vaccine in hemodialysis patients-a prospective observational study	<a href="https://pubmed.ncbi.nlm.nih.gov/34989097">https://pubmed.ncbi.nlm.nih.gov/34989097</a>	Kuwait
<b>33</b>	SARS-CoV-2 in hospital air as revealed by comprehensive respiratory viral panel sequencing	<a href="https://pubmed.ncbi.nlm.nih.gov/34977533">https://pubmed.ncbi.nlm.nih.gov/34977533</a>	Kuwait
<b>34</b>	Inverse lichen planus post Oxford-AstraZeneca COVID-19 vaccine	<a href="https://pubmed.ncbi.nlm.nih.gov/34997985">https://pubmed.ncbi.nlm.nih.gov/34997985</a>	Lebanon, Iraq
<b>35</b>	Mitigating COVID-19 in the face of emerging virus variants, breakthrough infections and vaccine hesitancy	<a href="https://pubmed.ncbi.nlm.nih.gov/34995958">https://pubmed.ncbi.nlm.nih.gov/34995958</a>	Lebanon

36	Determining levels of nurse burnout during the COVID-19 pandemic and Lebanon's political and financial collapse	<a href="https://pubmed.ncbi.nlm.nih.gov/34983519">https://pubmed.ncbi.nlm.nih.gov/34983519</a>	Lebanon, United Arab Emirates
37	Manifestation of paroxysmal nocturnal hemoglobinuria after COVID-19 mRNA vaccination	<a href="https://pubmed.ncbi.nlm.nih.gov/34980554">https://pubmed.ncbi.nlm.nih.gov/34980554</a>	Lebanon
38	Repurposing of Hydroxyurea against COVID-19: a promising immunomodulatory role	<a href="https://pubmed.ncbi.nlm.nih.gov/34990284">https://pubmed.ncbi.nlm.nih.gov/34990284</a>	Libya
39	Cardiogenic shock revealing myocarditis after mRNA vaccination against COVID-19: case report and brief review for the first case in Morocco	<a href="https://pubmed.ncbi.nlm.nih.gov/34980975">https://pubmed.ncbi.nlm.nih.gov/34980975</a>	Morocco
40	Phytochemicals from <i>Anvillea radiata</i> as promising anti-COVID-19 drugs: <i>in silico</i> studies and <i>in vivo</i> safety assessment	<a href="https://pubmed.ncbi.nlm.nih.gov/34978275">https://pubmed.ncbi.nlm.nih.gov/34978275</a>	Morocco
41	Distant education in Moroccan medical schools following COVID-19 outbreak at the early phase of lockdown: were the students really engaged?	<a href="https://pubmed.ncbi.nlm.nih.gov/34977441">https://pubmed.ncbi.nlm.nih.gov/34977441</a>	Morocco
42	Turnover intention and coronaphobia among frontline nurses during the second surge of COVID-19: the mediating role of social support and coping skills	<a href="https://pubmed.ncbi.nlm.nih.gov/34989437">https://pubmed.ncbi.nlm.nih.gov/34989437</a>	Oman
43	Synthesis, characterization, antioxidant, antileishmanial, anticancer, DNA and	<a href="https://pubmed.ncbi.nlm.nih.gov/34980930">https://pubmed.ncbi.nlm.nih.gov/34980930</a>	Pakistan, Bahrain, Saudi Arabia

theoretical SARS-CoV-2 interaction studies of copper(II) carboxylate complexes

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| 44 | Acute respiratory distress syndrome and COVID-19: a literature review  | <a href="https://pubmed.ncbi.nlm.nih.gov/34992415">https://pubmed.ncbi.nlm.nih.gov/34992415</a> | Pakistan, Saudi Arabia |
| 45 | Mental health status of COVID-19 survivors: a cross sectional study  | <a href="https://pubmed.ncbi.nlm.nih.gov/34991632">https://pubmed.ncbi.nlm.nih.gov/34991632</a> | Pakistan               |
| 46 | The importance of community midwives in Pakistan: looking at existing evidence and their need during the COVID-19 pandemic                                 | <a href="https://pubmed.ncbi.nlm.nih.gov/34990996">https://pubmed.ncbi.nlm.nih.gov/34990996</a> | Pakistan               |
| 47 | Early fall in C-reactive protein (CRP) level predicts response to Tocilizumab in rapidly progressing COVID-19: experience in a single-arm Pakistani center | <a href="https://pubmed.ncbi.nlm.nih.gov/34987916">https://pubmed.ncbi.nlm.nih.gov/34987916</a> | Pakistan               |
| 48 | COVID-19 in a dermatologist's clinic: a case from Pakistan   | <a href="https://pubmed.ncbi.nlm.nih.gov/34987888">https://pubmed.ncbi.nlm.nih.gov/34987888</a> | Pakistan               |
| 49 | Multidimensional impacts of coronavirus pandemic in adolescents in Pakistan: a cross sectional research  | <a href="https://pubmed.ncbi.nlm.nih.gov/34986208">https://pubmed.ncbi.nlm.nih.gov/34986208</a> | Pakistan, Qatar        |
| 50 | COVID-19 in heart transplant patients: is there a cause for concern?   | <a href="https://pubmed.ncbi.nlm.nih.gov/34984448">https://pubmed.ncbi.nlm.nih.gov/34984448</a> | Pakistan               |
| 51 | Maternal mortality with SARS-COV-2 during its 4th wave in Pakistan: The vaccine paradox and pregnancy  | <a href="https://pubmed.ncbi.nlm.nih.gov/34983164">https://pubmed.ncbi.nlm.nih.gov/34983164</a> | Pakistan               |

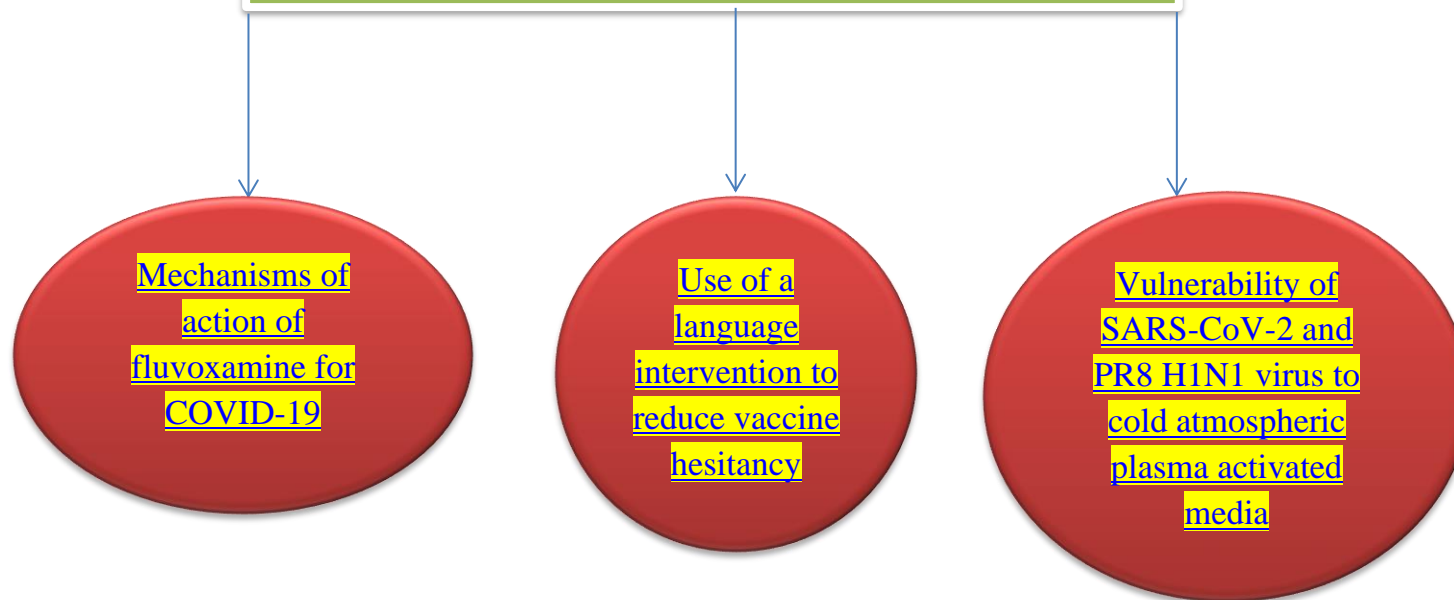
52	Mortality in patients of COVID-19 infection: biochemical markers and its cut-off values for predicting outcome	<a href="https://pubmed.ncbi.nlm.nih.gov/34983145">https://pubmed.ncbi.nlm.nih.gov/34983145</a>	Pakistan
53	BEMD-3DCNN-based method for COVID-19 detection	<a href="https://pubmed.ncbi.nlm.nih.gov/34998222">https://pubmed.ncbi.nlm.nih.gov/34998222</a>	Qatar
54	Prevalence of elevated anxiety symptoms among children in quarantine with COVID-19 infection in the State of Qatar: a cross-sectional study	<a href="https://pubmed.ncbi.nlm.nih.gov/34984196">https://pubmed.ncbi.nlm.nih.gov/34984196</a>	Qatar
55	The impact of simulation-based education on nurses' perceived predeployment anxiety during the COVID-19 pandemic within the cultural context of a Middle Eastern country	<a href="https://pubmed.ncbi.nlm.nih.gov/34869904">https://pubmed.ncbi.nlm.nih.gov/34869904</a>	Qatar
56	One year of SARS-CoV-2: genomic characterization of COVID-19 outbreak in Qatar	<a href="https://pubmed.ncbi.nlm.nih.gov/34869069">https://pubmed.ncbi.nlm.nih.gov/34869069</a>	Qatar
57	Beware of the ambiguous enemy of multisystem inflammatory syndrome in adult (MIS-A) following COVID-19 infection or vaccination	<a href="https://pubmed.ncbi.nlm.nih.gov/34868588">https://pubmed.ncbi.nlm.nih.gov/34868588</a>	Qatar
58	Monoclonal antibodies and their target specificity against SARS-CoV-2 infections: perspectives and challenges short title: monoclonal antibodies and SARS-CoV-2 infections	<a href="https://pubmed.ncbi.nlm.nih.gov/34994337">https://pubmed.ncbi.nlm.nih.gov/34994337</a>	Saudi Arabia
59	Essential metals, vitamins and antioxidant enzyme activities in COVID-19 patients and	<a href="https://pubmed.ncbi.nlm.nih.gov/34993712">https://pubmed.ncbi.nlm.nih.gov/34993712</a>	Saudi Arabia



	their potential associations with the disease severity		
60	Comparison between healthcare professionals and the general population on parameters related to natural remedies used during the COVID-19 pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/34992379">https://pubmed.ncbi.nlm.nih.gov/34992379</a>	Saudi Arabia
61	COVID-19 pandemic and physiotherapy practice: the efficacy of a telephone-based therapeutic program for people with knee osteoarthritis	<a href="https://pubmed.ncbi.nlm.nih.gov/34991425">https://pubmed.ncbi.nlm.nih.gov/34991425</a>	Saudi Arabia
62	Regional differences in COVID-19 mortality rates in the Kingdom of Saudi Arabia: a simulation of the new model of care	<a href="https://pubmed.ncbi.nlm.nih.gov/34987945">https://pubmed.ncbi.nlm.nih.gov/34987945</a>	Saudi Arabia
63	The impact of COVID-19 pandemic on obsession and compulsion symptoms in Saudi Arabia	<a href="https://pubmed.ncbi.nlm.nih.gov/34987909">https://pubmed.ncbi.nlm.nih.gov/34987909</a>	Saudi Arabia
64	Prevalence and factors associated with mental health problems in Saudi general population during the coronavirus disease 2019 pandemic: a systematic review and meta-analysis	<a href="https://pubmed.ncbi.nlm.nih.gov/34986503">https://pubmed.ncbi.nlm.nih.gov/34986503</a>	Saudi Arabia
65	Confusion and hallucination: a case report of an unusual presentation of COVID-19	<a href="https://pubmed.ncbi.nlm.nih.gov/34984107">https://pubmed.ncbi.nlm.nih.gov/34984107</a>	Saudi Arabia
66	Omicron SARS-CoV-2 new variant: global prevalence and biological and clinical characteristics	<a href="https://pubmed.ncbi.nlm.nih.gov/34982465">https://pubmed.ncbi.nlm.nih.gov/34982465</a>	Saudi Arabia

67	Photodynamic therapy procedures in coronavirus (COVID-19) outbreak: perception of health risks among clinical dental faculty and dental students	<a href="https://pubmed.ncbi.nlm.nih.gov/34982464">https://pubmed.ncbi.nlm.nih.gov/34982464</a>	Saudi Arabia
68	Efficacy of colchicine and budesonide in improvement outcomes of patients with coronavirus infection 2019 in Damascus, Syria: a randomized control trial	<a href="https://pubmed.ncbi.nlm.nih.gov/34984065">https://pubmed.ncbi.nlm.nih.gov/34984065</a>	Syria
69	COVID-19 vaccine hesitancy among indigenous people in Yemen: an incipient crisis	<a href="https://pubmed.ncbi.nlm.nih.gov/34976393">https://pubmed.ncbi.nlm.nih.gov/34976393</a>	Syria, Yemen
70	A generalized mechanistic model for assessing and forecasting the spread of the COVID-19 pandemic	<a href="https://pubmed.ncbi.nlm.nih.gov/34976570">https://pubmed.ncbi.nlm.nih.gov/34976570</a>	Tunisia
71	Candida pneumonia with lung abscess as a complication of severe COVID-19 pneumonia	<a href="https://pubmed.ncbi.nlm.nih.gov/34992473">https://pubmed.ncbi.nlm.nih.gov/34992473</a>	United Arab Emirates
72	Digital health technology for remote care in primary care during the COVID-19 pandemic: experience from Dubai	<a href="https://pubmed.ncbi.nlm.nih.gov/34981953">https://pubmed.ncbi.nlm.nih.gov/34981953</a>	United Arab Emirates
73	Impact of COVID 19 lockdown on glycemic control in patients with type 2 diabetes mellitus in Dubai	<a href="https://pubmed.ncbi.nlm.nih.gov/34879807">https://pubmed.ncbi.nlm.nih.gov/34879807</a>	United Arab Emirates

## Websites to get Coronavirus updates/reports



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

## New Findings

### [SARS-CoV-2 Omicron less pathogenic in hamsters](#)

A new research paper posted as a preprint to the bioRxiv\* server attempts to throw some light on this question by studying viral pathogenicity in golden hamsters, a valuable model for severe COVID-19 due to the development of reproducible weight loss and pneumonia after infection with the virus.

### [COVID-19 survivors found to have elevated levels of self-attacking antibodies](#)

There is mounting evidence that people who contracted COVID-19 and recovered developed antibodies that could attack their organs and tissues in the long run.

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