

Eastern Mediterranean Health Genomics & Biotechnology Network



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EMGEN newsletter (Special Issue-116 on COVID-19 and Monkeypox)

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Novel Coronavirus (COVID-19) Research and EMRO countries

Row	Article	link	Country
1	The protective effect of xanthenone against LPS-induced COVID-19 acute respiratory distress syndrome (ARDS) by modulating the ACE2/Ang-1-7 signaling pathway	https://pubmed.ncbi.nlm.nih.gov/35916829	Egypt

2	Protective and therapeutic potentials of HDL and ApoA1 in COVID-19 elderly and chronic illness patients	https://pubmed.ncbi.nlm.nih.gov/35915785	Egypt
3	Prevalence of peripheral neuropathy and myopathy in patients post-COVID-19 infection	https://pubmed.ncbi.nlm.nih.gov/35915515	Egypt
4	Coagulation parameters abnormalities and their relation to clinical outcomes in hospitalized and severe COVID-19 patients: prospective study	https://pubmed.ncbi.nlm.nih.gov/35915103	Egypt
5	Ligand-based design, synthesis, computational insights, and <i>in vitro</i> studies of novel <i>N</i> -(5-Nitrothiazol-2-yl)-carboxamido derivatives as potent inhibitors of SARS-CoV-2 main protease	https://pubmed.ncbi.nlm.nih.gov/35912578	Egypt, Saudi Arabia
6	Antimicrobial alkaloids from marine-derived fungi as drug leads versus COVID-19 infection: a computational approach to explore their anti-COVID-19 activity and ADMET properties	https://pubmed.ncbi.nlm.nih.gov/35911157	Egypt, Saudi Arabia
7	Effects of awake-prone positioning on oxygenation and physiological outcomes in non-intubated patients with COVID-19: a randomized controlled trial	https://pubmed.ncbi.nlm.nih.gov/35909384	Egypt
8	Chest CT total severity score on admission to predict in-hospital mortality in COVID-19 patients with acute and chronic renal impairment	https://pubmed.ncbi.nlm.nih.gov/35885435	Egypt

9	COVID-19 and liver diseases	https://pubmed.ncbi.nlm.nih.gov/35880136	Egypt
10	Eco-friendly spectrophotometric evaluation of triple-combination therapies in the treatment strategy of patients suffering from hypertension during coronavirus pandemic - spectralprint recognition study	https://pubmed.ncbi.nlm.nih.gov/35759933	Egypt
11	IL-17A)rs2275913; G197A) gene polymorphism as predictor for disease severity and its correlation with IL-17 serum levels in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/35758972	Egypt
12	Inetrleukin-6 and C-reactive protein as predictors of mortality among critically ill COVID-19 patients in Assiut university hospitals (ICUs)	https://pubmed.ncbi.nlm.nih.gov/35758968	Egypt
13	Analyzing delay in referral of pregnant women and children under five years old during the COVID-19 pandemic: Fars Province, Iran	https://pubmed.ncbi.nlm.nih.gov/35917555	Iran
14	Short-term effect of meteorological factors on COVID-19 mortality in Qom, Iran	https://pubmed.ncbi.nlm.nih.gov/35917482	Iran
15	Alteration of plasma amino acid concentrations in Iranian children with COVID-19	https://pubmed.ncbi.nlm.nih.gov/35915604	Iran
16	Intention to receive COVID-19 vaccine among healthcare workers: a comparison between two surveys	https://pubmed.ncbi.nlm.nih.gov/35915483	Iran

17	Evaluation of hematologic parameters in patients with COVID-19 following mesenchymal stem cell therapy	https://pubmed.ncbi.nlm.nih.gov/35914059	Iran
18	Are lipid ratios and triglyceride-glucose index associated with critical care outcomes in COVID-19 patients?	https://pubmed.ncbi.nlm.nih.gov/35913952	Iran
19	Influence of disease deverity and gender on HLA-C methylation in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/35912367	Iran
20	A review on headaches due to COVID-19 infection	https://pubmed.ncbi.nlm.nih.gov/35911910	Iran
21	Susceptibility and severity of COVID-19 are both associated with lower overall viral-peptide binding repertoire of HLA class I molecules, especially in younger people	https://pubmed.ncbi.nlm.nih.gov/35911710	Iran
22	Improvement of the inactivated SARS-CoV-2 vaccine potency through formulation in alum/naloxone adjuvant; robust T cell and anti-RBD IgG responses	https://pubmed.ncbi.nlm.nih.gov/35911642	Iran
23	Tripartite communication in COVID-19 infection: SARS-CoV-2 pathogenesis, gut microbiota and ACE2	https://pubmed.ncbi.nlm.nih.gov/35910851	Iran
24	A comprehensive review of the protein subunit vaccines against COVID-19	https://pubmed.ncbi.nlm.nih.gov/35910658	Iran

25	COVID-19-induced new-onset psychosis: a possible correlate with human leukocyte antigens	https://pubmed.ncbi.nlm.nih.gov/35915756	Iraq
26	Effects of COVID-19 vaccination on different semen parameters	https://pubmed.ncbi.nlm.nih.gov/35915409	Iraq
27	Pharmacovigilance regulatory actions by national pharmacovigilance centres in Arab countries following COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/35915555	Jordan, Iraq, Saudi Arabia
28	Lived experience of Jordanian front-line healthcare workers amid the COVID-19 pandemic: a qualitative study	https://pubmed.ncbi.nlm.nih.gov/35914915	Jordan
29	Perspectives on COVID-19 vaccines and its hesitancy among Jordanian population	https://pubmed.ncbi.nlm.nih.gov/35911329	Jordan
30	Weight change-related factors during the COVID-19 pandemic: a population-based cross-sectional study using social cognitive theory	https://pubmed.ncbi.nlm.nih.gov/35915751	Lebanon
31	Displacement ventilation to avoid COVID-19 transmission through offices	https://pubmed.ncbi.nlm.nih.gov/35911865	Lebanon, United Arab Emirates
32	Pulmonary barotrauma in COVID-19 patients: experience from a secondary care hospital in Oman	https://pubmed.ncbi.nlm.nih.gov/35911291	Oman
33	Psychological strain and suicidal ideation in young university students during COVID-19	https://pubmed.ncbi.nlm.nih.gov/35915773	Pakistan

	outbreak: the mediating roles of rumination and depression		
34	Structural, genomic information and computational analysis of emerging coronavirus (SARS-CoV-2)	https://pubmed.ncbi.nlm.nih.gov/35729950	Pakistan
35	Knowledge, attitude, and behavior of dentists working during the COVID-19 pandemic: a cross-sectional survey	https://pubmed.ncbi.nlm.nih.gov/35723151	Pakistan, Saudi Arabia
36	Post-acute COVID-19 syndrome and its prolonged effects: an updated systematic review	https://pubmed.ncbi.nlm.nih.gov/35721785	Pakistan
37	The COVID long-haulers: a letter to the Editor	https://pubmed.ncbi.nlm.nih.gov/35713087	Pakistan
38	Burden and factors associated with perceived stress amidst COVID-19: a population web-based study in Pakistan	https://pubmed.ncbi.nlm.nih.gov/35705331	Pakistan
39	The association between SARS-CoV-2 vaccines and transverse myelitis: a review	https://pubmed.ncbi.nlm.nih.gov/35702684	Pakistan
40	Senna makki and other active phytochemicals: myths and realities behind COVID-19 therapeutic interventions	https://pubmed.ncbi.nlm.nih.gov/35700199	Pakistan
41	Comparison of sleep quality among COVID-19 patients and non-COVID-19 population in Pakistan: a cross sectional study during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/35693099	Pakistan

42	Post-COVID-19 vaccine-associated menstrual cycle changes: a multifaceted problem for Pakistan	https://pubmed.ncbi.nlm.nih.gov/35578607	Pakistan
43	Pre-procedural SARS-CoV-2 PCR testing in the pulmonary function laboratory at a tertiary government hospital in Qatar: a clinical audit	https://pubmed.ncbi.nlm.nih.gov/35909393	Qatar
44	Severity and outcome of COVID-19 disease in patients with allergic rhinitis during the pandemic in Qatar - a preliminary report	https://pubmed.ncbi.nlm.nih.gov/35909408	Qatar
45	Hypopigmentation following intradermal allergy skin testing performed as part of mRNA COVID-19 vaccine allergy evaluation	https://pubmed.ncbi.nlm.nih.gov/35909405	Qatar
46	Myths, misconceptions, and hesitancy in people residing in Qatar toward mRNA COVID-19 vaccines: an experience exchange from Qatar University health center	https://pubmed.ncbi.nlm.nih.gov/35909397	Qatar
47	Association of periodontal therapy, with inflammatory biomarkers and complications in COVID-19 patients: a case control study	https://pubmed.ncbi.nlm.nih.gov/35906340	Qatar
48	Oleuropein as a potent compound against neurological complications linked with COVID-19: a computational biology approach	https://pubmed.ncbi.nlm.nih.gov/35885104	Saudi Arabia, Egypt
49	Nano-treatment of HEPA filters in COVID-19 isolation rooms in an academic medical center in Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/35914357	Saudi Arabia

50	Machine learning decision tree algorithm role for predicting mortality in critically ill adult COVID-19 patients admitted to the ICU	https://pubmed.ncbi.nlm.nih.gov/35759808	Saudi Arabia, Egypt
51	Investigation of antibiotic resistome in hospital wastewater during the COVID-19 pandemic: is the initial phase of the pandemic contributing to antimicrobial resistance?	https://pubmed.ncbi.nlm.nih.gov/35918059	Saudi Arabia
52	Association between inflammatory cytokines/chemokines, clinical laboratory parameters, disease severity and in-hospital mortality in critical and mild COVID-19 patients without comorbidities or immune-mediated diseases	https://pubmed.ncbi.nlm.nih.gov/35915975	Saudi Arabia
53	Association between periodontitis and COVID-19 severity in a tertiary hospital: a retrospective cohort study	https://pubmed.ncbi.nlm.nih.gov/35915835	Saudi Arabia
54	Demographic characteristics, comorbidities, and length of stay of COVID-19 patients admitted into intensive care units in Saudi Arabia: a nationwide retrospective study	https://pubmed.ncbi.nlm.nih.gov/35911421	Saudi Arabia
55	Prevalence and associated factors of mask-induced acne (Maskne) in the general population of Jeddah during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/35911348	Saudi Arabia
56	The association between vitamin D serum level and COVID-19 patients' outcomes in a tertiary	https://pubmed.ncbi.nlm.nih.gov/35911321	Saudi Arabia

center in Saudi Arabia: a retrospective cohort study

- 57 Peritoneal dialysis in the era of COVID-19: experience of a Tunisian center <https://pubmed.ncbi.nlm.nih.gov/35913609> Tunisia
- 58 Deep content information retrieval for COVID-19 detection from chromatic CT scans <https://pubmed.ncbi.nlm.nih.gov/35910043> Tunisia

Monkey pox articles

- 1 Clinical characteristics of human monkeypox laboratory confirmed cases: lessons from observational studies <https://pubmed.ncbi.nlm.nih.gov/35918005> Iran
- 2 The global human monkeypox outbreak in 2022: An overview <https://pubmed.ncbi.nlm.nih.gov/35918003> Iraq, 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

Dynamic travel restrictions can prevent rapid dispersion of new COVID-19 variants

A study of COVID-19 variant transmission into and across Canada shows that international travel restrictions were a key intervention for reducing or slowing spread.

The lining of children's noses may provide protection from SARS-CoV-2 infection

SARS-CoV-2 causes a broad range of clinical symptoms, including potentially fatal acute respiratory distress syndrome (ARDS). A study suggests the nasal epithelium (the lining of the nose) of children inhibits infection and replication of the ancestral strain of the SARS-CoV-2 virus and the Delta variant, but not the Omicron variant.

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