

Eastern Mediterranean Health Genomics & Biotechnology Network



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EMGEN newsletter (Special Issue-127 on COVID-19 and Monkeypox)

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Novel Coronavirus (COVID-19) Research and EMRO countries

Row	Article	link	Country
1	Smart stability indicating spectrophotometric methods for determination of modafinil: the promising treatment for post-COVID neurological syndrome	https://pubmed.ncbi.nlm.nih.gov/36271411	Egypt
2	Impact of COVID-19 on medical students around the globe	https://pubmed.ncbi.nlm.nih.gov/36262896	Egypt

3	Violence against healthcare workers during coronavirus (COVID-19) pandemic in Egypt: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36259083	Egypt
4	Sanitizer-associated systemic side effects in the era of COVID-19: a pharmacovigilance study	https://pubmed.ncbi.nlm.nih.gov/35730011	Egypt
5	<i>In silico</i> study to identify novel potential thiadiazole-based molecules as anti-COVID-19 candidates by hierarchical virtual screening and molecular dynamics simulations	https://pubmed.ncbi.nlm.nih.gov/35729938	Egypt
6	COVID-19 associated mucormycosis in Assiut University Hospitals: a multidisciplinary dilemma	https://pubmed.ncbi.nlm.nih.gov/35729170	Egypt
7	Detection of abnormal lymphocytes in the peripheral blood of COVID-19 cancer patients: diagnostic and prognostic possibility	https://pubmed.ncbi.nlm.nih.gov/35724413	Egypt
8	Crisis, ethical leadership and moral courage: ethical climate during COVID-19	https://pubmed.ncbi.nlm.nih.gov/35724327	Egypt
9	Association between thrombocytopenia and the severity of Covid-19 infection among hospitalized Egyptian patients	https://pubmed.ncbi.nlm.nih.gov/35721787	Egypt
10	Exenterate or not: a simple proposed management algorithm for mucormycosis during the era of COVID-19 in a tertiary eye care center in Egypt	https://pubmed.ncbi.nlm.nih.gov/35720737	Egypt

11	Eco-friendly stability-indicating HPTLC micro-determination of the first FDA approved SARS-CoV-2 antiviral prodrug Remdesivir: study of degradation kinetics and structural elucidation of the degradants using HPTLC-MS	https://pubmed.ncbi.nlm.nih.gov/35720509	Egypt
12	The impact of clinical pharmacist implemented education on the incidence of prescribing errors in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/35719834	Egypt
13	Analysis and comparison of anti-RBD neutralizing antibodies from AZD-1222, Sputnik V, Sinopharm and Covaxin vaccines and its relationship with gender among health care workers	https://pubmed.ncbi.nlm.nih.gov/36273175	Iran
14	A systematic review and meta-analysis of the epidemiological characteristics of COVID-19 in children	https://pubmed.ncbi.nlm.nih.gov/36273121	Iran
15	Study of sympathetic skin response in patients with COVID-19 infection	https://pubmed.ncbi.nlm.nih.gov/36273112	Iran
16	COVID-19 death rates in Iran and Iraq: possible relations between Iraq's pre-COVID-19 mass gatherings and its low death rate	https://pubmed.ncbi.nlm.nih.gov/36269497	Iran
17	Self-care behavior prevention of COVID-19 in the general population based on Pender Health Promotion Model: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36268460	Iran

18	Risk factors, thromboembolic events, and clinical course of new-onset atrial fibrillation among COVID-19 hospitalized patients: a multicenter cross-sectional analysis in Iran	https://pubmed.ncbi.nlm.nih.gov/36268459	Iran
19	The effect of selective serotonin and norepinephrine reuptake inhibitors on clinical outcome of COVID-19 patients: a systematic review and meta-analysis	https://pubmed.ncbi.nlm.nih.gov/36268458	Iran
20	Cancer patients and targeted therapy during COVID-19 pandemic: a descriptive case series study	https://pubmed.ncbi.nlm.nih.gov/36267821	Iran
21	Investigation of SARS-CoV-2 genome in the indoor air and high-touch surfaces	https://pubmed.ncbi.nlm.nih.gov/36267501	Iran
22	Post COVID-19 neuropsychiatric complications and therapeutic role for TNF- α inhibitors: a case series study	https://pubmed.ncbi.nlm.nih.gov/36267491	Iran
23	A review of routine laboratory biomarkers for the detection of severe COVID-19 disease	https://pubmed.ncbi.nlm.nih.gov/36267156	Iran
24	The role of SARS-CoV-2 accessory proteins in immune evasion	https://pubmed.ncbi.nlm.nih.gov/36265309	Iran
25	Post COVID-19 pulmonary mass: case report and review of literatures	https://pubmed.ncbi.nlm.nih.gov/36261211	Iraq
26	COVID-19-related rhino-orbital-cerebral mucormycosis	https://pubmed.ncbi.nlm.nih.gov/36258686	Iraq

27	Genome sequence of an early imported case of SARS-CoV-2 Delta variant (B.1.617.2 AY.122) in Iraq in April 2021	https://pubmed.ncbi.nlm.nih.gov/36250864	Iraq
28	Clinical outcomes and direct medical expenditures associated with intensive care unit admission for inpatients with COVID-19 in Jordan: a retrospective cohort study	https://pubmed.ncbi.nlm.nih.gov/36270104	Jordan
29	Use of traditional and complementary medicine for COVID-19 prophylaxis among healthcare professionals and students in Jordan: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36264917	Jordan
30	Detection of COVID-19 using deep learning on x-ray lung images	https://pubmed.ncbi.nlm.nih.gov/36262134	Jordan
31	Determinants of missed nursing care in Jordanian hospitals during COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36250917	Jordan
32	Physiotherapy interventions and profile of practice for COVID-19 patients in Jordan	https://pubmed.ncbi.nlm.nih.gov/36245354	Jordan
33	Navigating patients with atopic dermatitis or chronic spontaneous urticaria during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36267954	Lebanon
34	Observational study of factors associated with morbidity and mortality from COVID-19 in Lebanon, 2020-2021	https://pubmed.ncbi.nlm.nih.gov/36260598	Lebanon

35	Fetal supraventricular tachycardia and maternal COVID-19 vaccination: is there any relationship?	https://pubmed.ncbi.nlm.nih.gov/36248062	Lebanon
36	Impact of government policy responses of COVID-19 pandemic on stock market liquidity for Australian companies	https://pubmed.ncbi.nlm.nih.gov/36246775	Lebanon
37	Has the "COVIDd-19" lockdown an impact on beach faunal communities? the central Atlantic coast of Morocco as a case study	https://pubmed.ncbi.nlm.nih.gov/36279727	Morocco
38	Thermoplasmonics decontamination of respirators face masks using silver nanoparticles: a new weapon in the fight against COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36276844	Morocco
39	COVID-19 pneumonia was incidentally detected on 18F-fluorocholine PET/CT in a work-up for prostate cancer	https://pubmed.ncbi.nlm.nih.gov/36268898	Morocco
40	ENT emergencies during the first wave of the COVID-19 pandemic at the Mohammed VI Hospital in Marrakech: comparative study between pre-and during COVID pandemic in ENT Department	https://pubmed.ncbi.nlm.nih.gov/36267487	Morocco
41	Cancer patients and COVID-19 vaccination, from safety to protocol adherence: a real-life setting report	https://pubmed.ncbi.nlm.nih.gov/36263207	Morocco

42	Acquired pure red cell aplasia after severe acute respiratory syndrome corona virus 2 infection: a case report	https://pubmed.ncbi.nlm.nih.gov/36258221	Morocco
43	Factors affecting nursing and health technician students' satisfaction with distance learning during the COVID-19 pandemic in Morocco: a survey-based observational study	https://pubmed.ncbi.nlm.nih.gov/36252991	Morocco
44	C-reactive protein, ferritin, and procalcitonin in 300 Moroccan patients with COVID-19	https://pubmed.ncbi.nlm.nih.gov/36250844	Morocco
45	Impact of COVID-19 pandemic on pediatric meningitis incidence in central Morocco	https://pubmed.ncbi.nlm.nih.gov/36248769	Morocco
46	Multiple ischemic stroke with pulmonary embolism revealing severe COVID-19 infection in a young healthy patient	https://pubmed.ncbi.nlm.nih.gov/36247700	Morocco
47	Factors associated with loss of motivation and hesitation to work amongst frontline health care providers during the COVID-19 pandemic: a cross-sectional survey from a developing country	https://pubmed.ncbi.nlm.nih.gov/36281276	Pakistan
48	Myocarditis following administration of COVID-19 Vaccine: should we be worried?	https://pubmed.ncbi.nlm.nih.gov/36281007	Pakistan
49	Association of candida species with novel SARS-CoV-2 and biomarkers for fungal premalignant oral lesions	https://pubmed.ncbi.nlm.nih.gov/36280984	Pakistan

50	Pulmonary physical therapy techniques for the management of COVID-19 patients: a systematic review	https://pubmed.ncbi.nlm.nih.gov/36280983	Pakistan
51	Impact of age, gender, post infection and post vaccination status on antibody response in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/36280980	Pakistan
52	The second wave of COVID-19 disease in haemodialysis patients: an experience of a dialysis center from Pakistan	https://pubmed.ncbi.nlm.nih.gov/36280979	Pakistan
53	Association of Chest Xray (CXR) findings with outcomes in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/36280968	Pakistan
54	Can polycystic ovary syndrome render middle-aged females vulnerable to severe COVID-19 infection?	https://pubmed.ncbi.nlm.nih.gov/36280955	Pakistan
55	COVID-19 vaccine related menstrual irregularities: a cause of vaccine hesitation?	https://pubmed.ncbi.nlm.nih.gov/36280954	Pakistan
56	COVID-19 association with anterior uveitis (post-COVID acute anterior uveitis)	https://pubmed.ncbi.nlm.nih.gov/36280936	Pakistan
57	Impact of COVID-19 on ECT practice in Qatar	https://pubmed.ncbi.nlm.nih.gov/36257005	Qatar
58	The impact of data management on the achievable dose and efficiency of computed tomography during the COVID-19 era: a facility-based ambispective study	https://pubmed.ncbi.nlm.nih.gov/36281342	Saudi Arabia

59	Differential expression of carcinoembryonic antigen-related cell adhesion molecule-5 (CEACAM5) and dipeptidyl peptidase-4 (DPP4) with detection of Middle East respiratory syndrome-coronavirus in peripheral blood	https://pubmed.ncbi.nlm.nih.gov/36279687	Saudi Arabia
60	Mucormycosis an added burden to COVID-19 patients: an in-depth systematic review	https://pubmed.ncbi.nlm.nih.gov/36279686	Saudi Arabia, Sudan
61	State-of-the-art tools to elucidate the therapeutic potential of TAT-peptide (TP) conjugated repurposing drug against SARS-CoV-2 spike glycoproteins	https://pubmed.ncbi.nlm.nih.gov/36278465	Saudi Arabia
62	Evaluation of short-term symptoms associated with COVID-19 vaccines used among adolescents in Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/36277554	Saudi Arabia
63	Prevalence of hair loss after COVID-19 infection in Makkah Region, Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/36277546	Saudi Arabia
64	Microwave assisted synthesis of 2-amino-4-chloro-pyrimidine derivatives: anticancer and computational study on potential inhibitory action against COVID-19	https://pubmed.ncbi.nlm.nih.gov/36276298	Saudi Arabia
65	Prevalence of side-effects associated with the booster dose of Pfizer-BioNTech (BNT162b2) of COVID-19 vaccine among vaccinated adults in the eastern province of Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/36276167	Saudi Arabia

66	Epidemiological and molecular description of nosocomial outbreak of COVID-19 Alpha (B.1.1.7) variant in Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/36274368	Saudi Arabia
67	Central diabetes insipidus revealing a hypophysitis induced by SARS-CoV-2 vaccine	https://pubmed.ncbi.nlm.nih.gov/36280400	Tunisia
68	Parsonage-Turner syndrome of the brachial plexus secondary to COVID-19 vaccine: a case report	https://pubmed.ncbi.nlm.nih.gov/36276907	Tunisia
69	The diagnosing of pediatric SARS-CoV-2 associated myocarditis requires validated criteria	https://pubmed.ncbi.nlm.nih.gov/36269205	Tunisia
70	Case series of chronic spontaneous urticaria following COVID-19 vaccines: an unusual skin manifestation	https://pubmed.ncbi.nlm.nih.gov/36255482	Tunisia
71	Effects of the COVID-19 lockdown and recovery on people's mobility and air quality in the United Arab Emirates using satellite and ground observations	https://pubmed.ncbi.nlm.nih.gov/36281297	United Arab Emirates
72	Durability of antibodies post vaccination with two doses of inactivated BBIBP-CorV vaccine	https://pubmed.ncbi.nlm.nih.gov/36274640	United Arab Emirates
73	Vitamin D enhances type I IFN signaling in COVID-19 patients	https://pubmed.ncbi.nlm.nih.gov/36273032	United Arab Emirates

74	Detection of SARS-CoV-2 in clinical and environmental samples using highly sensitive reduced graphene oxide (rGO)-based biosensor	https://pubmed.ncbi.nlm.nih.gov/36267422	United Arab Emirates
Monkeypox articles			
1	Poxviruses and the immune system: implications for monkeypox virus	https://pubmed.ncbi.nlm.nih.gov/36283221	Iran
2	human monkeypox (hMPXV) re-emergence: host immunity status and current vaccines landscape	https://pubmed.ncbi.nlm.nih.gov/36271768	Iran
3	A systematic review and clinical atlas on mucocutaneous presentations of monkeypox: with a comprehensive approach to all aspects of the new and previous monkeypox outbreaks	https://pubmed.ncbi.nlm.nih.gov/36254380	Iran
4	Monkeypox treatment: current evidence and future perspectives	https://pubmed.ncbi.nlm.nih.gov/36253931	Iran
5	Comprehensive literature review of monkeypox	https://pubmed.ncbi.nlm.nih.gov/36263798	Jordan
6	Monkeypox treatment: is tecovirimat the answer?	https://pubmed.ncbi.nlm.nih.gov/36274371	Pakistan, Qatar
7	Monkeypox virus: future role in Human population	https://pubmed.ncbi.nlm.nih.gov/36272392	Saudi Arabia
8	Monkeypox: is it the time for autopsy?	https://pubmed.ncbi.nlm.nih.gov/36282449	Sudan

Websites to get Coronavirus updates/reports

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graph TD; A[Websites to get Coronavirus updates/reports] --> B[Volcano charges, Omicron boosters and wandering elephants]; A --> C[APOE genotype linked to COVID-19 severity]; A --> D[COVID-19 and the amplification of cardiovascular risk by psychological distress];
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[Omicron boosters](#)
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[severity](#)

[COVID-19 and the](#)
[amplification of](#)
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[by psychological](#)
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Note: You may click on each of the circles to get access to data.

New Findings

[Intranasal COVID vaccine that works against variants in animals](#)

An intranasal vaccine against SARS-CoV-2 could quickly get to the respiratory tract, where the virus most commonly causes symptoms. And a spray or droplets could be a more palatable option for people who fear needles. But so far, only a few countries have approved COVID nasal vaccines. Now researchers report that they've developed one that can fight off the original virus and two variants in hamsters.

[Study uncovers mechanisms necessary for SARS-CoV-2 infection in macrophages](#)

Researchers have identified a receptor, CD169 (also called Siglec1), that is exclusively expressed on macrophages and contributes to the hyper-inflammatory response of macrophages upon infection with SARS-CoV-2. These findings, they believe, may provide an explanation of how SARS-CoV-2 infection of macrophages in lungs of COVID-19 patients promote inflammatory responses.

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