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Recent Selected Publications on SARS-CoV-2 by EVBC Members

Hypertension delays viral clearance and exacerbates airway hyperinflammation in patients with COVID-19. *Nat Biotechnol* [10.1038/s41587-020-00796-1](https://doi.org/10.1038/s41587-020-00796-1)

Prevalence of SARS-CoV-2 Infection in Children and Their Parents in Southwest Germany. *JAMA Pediatr* [10.1001/jamapediatrics.2021.0001](https://doi.org/10.1001/jamapediatrics.2021.0001)

Structural biology in the fight against COVID-19. *Nat Struct Mol Biol* [10.1038/s41594-020-00544-8](https://doi.org/10.1038/s41594-020-00544-8)

Coronavirus replication-transcription complex: Vital and selective NMPylation of a conserved site in nsp9 by the NiRAN-RdRp subunit. *PNAS* [10.1073/pnas.2022310118](https://doi.org/10.1073/pnas.2022310118)

Fast inactivation of SARS-CoV-2 by UV-C and ozone exposure on different materials. *Emerg Microbes Infect* [10.1080/22221751.2021.1872354](https://doi.org/10.1080/22221751.2021.1872354)

A review of the impact of weather and climate variables to COVID-19: In the absence of public health measures high temperatures cannot probably mitigate outbreaks. *Sci Total Environ* [10.1016/j.scitotenv.2020.144578](https://doi.org/10.1016/j.scitotenv.2020.144578)

Structure and Hierarchy of SARS-CoV-2 Infection Dynamics Models Revealed by Reaction Network Analysis. *Viruses* [10.3390/v13010014](https://doi.org/10.3390/v13010014)

Performance of a Point-of-Care Test for the Rapid Detection of SARS-CoV-2 Antigen. *Microorganisms* [10.3390/microorganisms9010058](https://doi.org/10.3390/microorganisms9010058)

The rocaglate CR-31-B (-) inhibits SARS-CoV-2 replication at non-cytotoxic, low nanomolar concentrations in vitro and ex vivo. *Antiviral Res* [10.1016/j.antiviral.2021.105012](https://doi.org/10.1016/j.antiviral.2021.105012)

Ruling out COVID-19 by chest CT at emergency admission when prevalence is low: the prospective, observational SCOUT study. *Respir Res* [10.1186/s12931-020-01611-w](https://doi.org/10.1186/s12931-020-01611-w)

Perceptions and Experiences of the University of Nottingham Pilot SARS-CoV-2 Asymptomatic Testing Service: A Mixed-Methods Study. *Int J Environ Res Public Health* [10.3390/ijerph18010188](https://doi.org/10.3390/ijerph18010188)

Evaluation of two rapid antigen tests to detect SARS-CoV-2 in a hospital setting. *Med Microbiol Immunol* [10.1007/s00430-020-00698-8](https://doi.org/10.1007/s00430-020-00698-8)

Bacterial but no SARS-CoV-2 contamination after terminal disinfection of tertiary care intensive care units treating COVID-19 patients. *Antimicrob Resist Infect Control* [10.1186/s13756-021-00885-z](https://doi.org/10.1186/s13756-021-00885-z)

Reviews

Insights to SARS-CoV-2 life cycle, pathophysiology, and rationalized treatments that target COVID-19 clinical complications. *J Biomed Sci* [10.1186/s12929-020-00703-5](https://doi.org/10.1186/s12929-020-00703-5)

A nidovirus perspective on SARS-CoV-2. *Biochem Biophys Res Commun* [10.1016/j.bbrc.2020.11.015](https://doi.org/10.1016/j.bbrc.2020.11.015)

The Global Response to the COVID-19 Pandemic. *Med* [10.1016/j.medj.2020.12.003](https://doi.org/10.1016/j.medj.2020.12.003)

Preprints

Detection of SARS-CoV-2 variants in Switzerland by genomic analysis of wastewater samples. *medRxiv* [10.1101/2021.01.08.21249379](https://doi.org/10.1101/2021.01.08.21249379)

Epidemic waves of COVID-19 in Scotland: a genomic perspective on the impact of the introduction and relaxation of lockdown on SARS-CoV-2. *medRxiv* [10.1101/2021.01.08.20248677](https://doi.org/10.1101/2021.01.08.20248677)

Occupational and environmental exposure to SARS-CoV-2 in and around infected mink farms. *medRxiv* [10.1101/2021.01.06.20248760](https://doi.org/10.1101/2021.01.06.20248760)

Immunogenicity and efficacy of the COVID-19 candidate vector vaccine MVA-SARS-2-S in preclinical vaccination *bioRxiv* [10.1101/2021.01.09.426032](https://doi.org/10.1101/2021.01.09.426032)

Meta-analysis of virus-induced host gene expression reveals unique signatures of immune dysregulation induced by SARS-CoV-2. *bioRxiv* [10.1101/2020.12.29.424739](https://doi.org/10.1101/2020.12.29.424739)

Exploring the natural origins of SARS-CoV-2. *bioRxiv* [10.1101/2021.01.22.427830](https://doi.org/10.1101/2021.01.22.427830)

From “don, doff, and discard” to “don, doff, and decontaminate” – determination of filtering facepiece respirator and surgical mask integrity and inactivation of a SARS-CoV-2 surrogate and a small non-enveloped virus following multiple-cycles of vaporised hydrogen peroxide, ultraviolet germicidal irradiation, and dry heat decontamination. *medRxiv* [10.1101/2021.01.15.21249866](https://doi.org/10.1101/2021.01.15.21249866)

 [EVBC publications on SARS-CoV-2](#)

News

Deutsche COVID-19 OMICS Initiative (DeCOI)

DeCOI is a national network founded in 3/2020 for the use of NGS-based omics data in COVID-19 research. The German Federal Ministry of Health has ordered to increase the number of sequenced SARS-CoV-2 samples. DeCOI will tell you where to send your samples (payment via health insurance).

Open sharing of SARS-CoV-2 sequence data

We need open data, especially open SARS-CoV-2 sequence data, and open science to beat COVID-19 and to prepare for future outbreaks. Take the time to sign this open letter and support your fellow scientists in promoting the good practice of open COVID-19 data by submitting to open, FAIR and connected databases like those of INSDC.

New section “SARS-CoV-2 and COVID-19” in *Viruses*

This section aims to cover all SARS-CoV-2- and COVID-19-related research and to provide a fast track for experts to publish their new results regarding SARS-CoV-2.