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Selected Publications on SARS-CoV-2 by EVBC Members

Durability of omicron-neutralising serum activity after mRNA booster immunisation in older adults. (Lancet Infect Dis: [10.1016/S1473-3099\(22\)00135-9](https://doi.org/10.1016/S1473-3099(22)00135-9))

Nanopore ReCappable sequencing maps SARS-CoV-2 5' capping sites and provides new insights into the structure of sgRNAs. (Nucleic Acids Res: [10.1093/nar/gkac144](https://doi.org/10.1093/nar/gkac144))

Selection analysis identifies clusters of unusual mutational changes in Omicron lineage BA.1 that likely impact Spike function. (Mol Biol Evol: [10.1093/molbev/msac061](https://doi.org/10.1093/molbev/msac061))

Need for continued global monitoring of novel lineages because of the independent evolution of new escape mutations. (Nat Commun: [10.1038/s41467-022-28766-y](https://doi.org/10.1038/s41467-022-28766-y))

Rapid, straightforward, and cost-effective detection of SARS-CoV-2 with immediate classification of the examined sample as Alpha, Delta, non-Alpha, or non-Delta variant. (Microbiol Spectr: [10.1128/spectrum.02176-21](https://doi.org/10.1128/spectrum.02176-21))

Digital PCR assays targeting signature mutations in wastewater offer near real-time monitoring of SARS-CoV-2 VOCs and potentially earlier detection and inference on transmission fitness advantage than clinical sequencing. (Euro Surveill: [10.2807/1560-7917.ES.2022.27.10.2100806](https://doi.org/10.2807/1560-7917.ES.2022.27.10.2100806))

Identifying Country-Level Risk Factors for the Spread of COVID-19 in

Europe Using Machine Learning. (Viruses: [10.3390/v14030625](https://doi.org/10.3390/v14030625))

The Easy-to-Use SARS-CoV-2 Assembler for Genome Sequencing (JMIR Bioinform Biotech: [10.2196/31536](https://doi.org/10.2196/31536))

Covidex: An ultrafast and accurate tool for SARS-CoV-2 subtyping (Infect Genet Evol: [10.1016/j.meegid.2022.105261](https://doi.org/10.1016/j.meegid.2022.105261))

Reviews / Commentaries

MALDI-TOF-MS-Based Identification of Monoclonal Murine Anti-SARS-CoV-2 Antibodies Within One Hour. (Preprints: [10.20944/preprints202203.0229.v1](https://doi.org/10.20944/preprints202203.0229.v1))

Preprints

Inconsistent directions of change in case severity across successive SARS-CoV-2 variant waves suggests an unpredictable future. (medRxiv: [10.1101/2022.03.24.22272915](https://doi.org/10.1101/2022.03.24.22272915))

SARS-CoV-2 Omicron potentially neutralized by a novel antibody with unique Spike binding properties. (bioRxiv: [10.1101/2022.03.18.484873](https://doi.org/10.1101/2022.03.18.484873))

A mRNA vaccine encoding for a RBD 60-mer nanoparticle elicits neutralizing antibodies and protective immunity against the SARS-CoV-2 delta variant in transgenic K18-hACE2 mice. (bioRxiv: [10.1101/2022.03.21.485224](https://doi.org/10.1101/2022.03.21.485224))

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