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

Spread of a SARS-CoV-2 variant through Europe in the summer of 2020. *Nature* [10.1038/s41586-021-03677-y](https://doi.org/10.1038/s41586-021-03677-y)

SARS-CoV-2 Variants of Interest and Concern naming scheme conducive for global discourse. *Nat Microbiol* [10.1038/s41564-021-00932-w](https://doi.org/10.1038/s41564-021-00932-w)

Emergence and spread of a SARS-CoV-2 lineage A variant (A.23.1) with altered spike protein in Uganda. Now published in *Nat Microbiol* [10.1038/s41564-021-00933-9](https://doi.org/10.1038/s41564-021-00933-9)

Association Between SARS-CoV-2 Infection and Immune-Mediated Myopathy in Patients Who Have Died. *JAMA Neurol* [10.1001/jamaneuro.2021.2004](https://doi.org/10.1001/jamaneuro.2021.2004)

Simeprevir Potently Suppresses SARS-CoV-2 Replication and Synergizes with Remdesivir. *ACS Cent Sci* [10.1021/acscentsci.0c01186](https://doi.org/10.1021/acscentsci.0c01186)

The COVID-19 Data Portal: accelerating SARS-CoV-2 and COVID-19 research through rapid open access data sharing. *Nucleic Acids Res* [10.1093/nar/gkab417](https://doi.org/10.1093/nar/gkab417)

Mild COVID-19 despite autoantibodies to type I IFNs in Autoimmune-Polyendocrine-Syndrome Type 1 (APS-1). *J Clin Invest* [10.1172/JCI150867](https://doi.org/10.1172/JCI150867)

Insights into household transmission of SARS-CoV-2 from a population-based serological survey. *Nat Commun* [10.1038/s41467-021-23733-5](https://doi.org/10.1038/s41467-021-23733-5)

SARS-CoV-2-mediated dysregulation of metabolism and autophagy uncovers host-targeting antivirals. *Nat Commun* [10.1038/s41467-021-24007-w](https://doi.org/10.1038/s41467-021-24007-w)

Targeting the m⁶A RNA modification pathway blocks SARS-CoV-2 and HCoV-OC43 replication. *Genes Dev* [10.1101/gad.348320.121](https://doi.org/10.1101/gad.348320.121)

Immunogenicity and efficacy of the COVID-19 candidate vector vaccine MVA-SARS-2-S in preclinical vaccination. Now published in *PNAS* [10.1073/pnas.2026207118](https://doi.org/10.1073/pnas.2026207118)

Recurrent emergence of SARS-CoV-2 spike deletion H69/V70 and its role in the Alpha variant B.1.1.7. *Cell Rep* [10.1016/j.celrep.2021.109292](https://doi.org/10.1016/j.celrep.2021.109292)

Moore swab performs equal to composite and outperforms grab sampling for SARS-CoV-2 monitoring in wastewater. *Sci Total Environ* [10.1016/j.scitotenv.2021.148205](https://doi.org/10.1016/j.scitotenv.2021.148205)

Delayed Antibody and T-Cell Response to BNT162b2 Vaccination in the Elderly, Germany. *Emerg Infect Dis* [10.3201/eid2708.211145](https://doi.org/10.3201/eid2708.211145)

A SARS-CoV-2 sequence submission tool for the European Nucleotide Archive. *Bioinformatics* [10.1093/bioinformatics/btab421](https://doi.org/10.1093/bioinformatics/btab421)

Manipulation of the unfolded protein response: A pharmacological strategy against coronavirus infection. *PLoS Pathog* [10.1371/journal.ppat.1009644](https://doi.org/10.1371/journal.ppat.1009644)

Virological and serological characterization of critically ill patients with COVID-19 in the UK: Interactions of viral load, antibody status and B.1.1.7 variant infection. Now published in *J Infect Dis* [10.1093/infdis/jiab283](https://doi.org/10.1093/infdis/jiab283)

The Second Wave of SARS-CoV-2 Circulation-Antibody Detection in the Domestic Cat Population in Germany. *Viruses* [10.3390/v13061009](https://doi.org/10.3390/v13061009)

Reviews / Commentaries

SARS-CoV-2 variants, spike mutations and immune escape. *Nat Rev Microbiol* [10.1038/s41579-021-00573-0](https://doi.org/10.1038/s41579-021-00573-0)

Rising to the challenge of COVID-19: Working on SARS-CoV-2 during the pandemic. *Mol Cell* [10.1016/j.molcel.2021.05.021](https://doi.org/10.1016/j.molcel.2021.05.021)

SARS-CoV-2 Infection and Guillain-Barré Syndrome: A Review on Potential Pathogenic Mechanisms. *Front Immunol* [10.3389/fimmu.2021.674922](https://doi.org/10.3389/fimmu.2021.674922)

Quantitative measures of within-host viral genetic diversity. *Curr Opin Virol* [10.1016/j.coviro.2021.06.002](https://doi.org/10.1016/j.coviro.2021.06.002)

Preprints

S1Enhanced Fc γ RIII/CD16 activation by discrete ligands as independent correlates of disease severity in COVID-19 patients. *bioRxiv* [10.1101/2021.06.25.449893](https://doi.org/10.1101/2021.06.25.449893)

A tale of two variants: Spread of SARS-CoV-2 variants Alpha in Geneva, Switzerland, and Beta in South Africa. *medRxiv* [10.1101/2021.06.10.21258468](https://doi.org/10.1101/2021.06.10.21258468)

Predicting the mutational drivers of future SARS-CoV-2 variants of concern. *medRxiv* [10.1101/2021.06.21.21259286](https://doi.org/10.1101/2021.06.21.21259286)

Generation and transmission of inter-lineage recombinants in the SARS-CoV-2 pandemic. *medRxiv* [10.1101/2021.06.18.21258689](https://doi.org/10.1101/2021.06.18.21258689)
COVID-eVax, an electroporated plasmid DNA vaccine candidate encoding the SARS-CoV-2 Receptor Binding Domain, elicits protective immune responses in animal models of COVID-19. *bioRxiv* [10.1101/2021.06.14.448343](https://doi.org/10.1101/2021.06.14.448343)

The Nucleotide Addition Cycle of the SARS-CoV-2 Polymerase. *SSRN* [10.2139/ssrn.3854701](https://doi.org/10.2139/ssrn.3854701)

Fatal COVID-19 Outcomes are Associated with an Antibody Response Targeting Epitopes Shared with Endemic Coronaviruses. *SSRN* [10.2139/ssrn.3858917](https://doi.org/10.2139/ssrn.3858917)

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SARS-CoV-2 Bioinformatics Tools and Resources

We are very happy to announce our revised and redesigned [collection of virus bioinformatics tools](#). Don't hesitate to contact us if you want a tool to be added or require any further features for this collection. We strongly encourage you to leave comments and/or send us feedback on the tools.

- **CLI ENA**: submitting raw sequencing reads of SARS-CoV-2 to ENA.
- **cov-lineages**: Global Report Investigating Novel Coronavirus Haplotypes.

 [Coronavirus tools website](#)