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

Want to track pandemic variants faster? Fix the bioinformatics bottleneck. *Nature* [10.1038/d41586-021-00525-x](https://doi.org/10.1038/d41586-021-00525-x)

SARS-CoV-2 spike D614G change enhances replication and transmission. Now published in *Nature* [10.1038/s41586-021-03361-1](https://doi.org/10.1038/s41586-021-03361-1)

SARS-CoV-2 within-host diversity and transmission. *Science* [10.1126/science.abg0821](https://doi.org/10.1126/science.abg0821)

Circulating SARS-CoV-2 spike N439K variants maintain fitness while evading antibody-mediated immunity. Now published in *Cell* [10.1016/j.cell.2021.01.037](https://doi.org/10.1016/j.cell.2021.01.037)

SARS-CoV-2 infection of the oral cavity and saliva. *Nat Med* [10.1038/s41591-021-01296-8](https://doi.org/10.1038/s41591-021-01296-8)

Hallmarks of Alpha- and Betacoronavirus non-structural protein 7+8 complexes. *Sci Adv* [10.1126/sciadv.abf1004](https://doi.org/10.1126/sciadv.abf1004)

SARS-CoV-2 mutations in MHC-I-restricted epitopes evade CD8⁺ T cell responses. *Sci Immunol* [10.1126/sciimmunol.abg6461](https://doi.org/10.1126/sciimmunol.abg6461)

A plasmid DNA-launched SARS-CoV-2 reverse genetics system and coronavirus toolkit for COVID-19 research. *PLoS Biol* [10.1371/journal.pbio.3001091](https://doi.org/10.1371/journal.pbio.3001091)

Can shellfish be used to monitor SARS-CoV-2 in the coastal environment? *Sci Total Environ* [10.1016/j.scitotenv.2021.146270](https://doi.org/10.1016/j.scitotenv.2021.146270)

Natural selection in the evolution of SARS-CoV-2 in bats created a generalist virus and highly capable human pathogen. *PLoS Biol* [10.1371/journal.pbio.3001115](https://doi.org/10.1371/journal.pbio.3001115)

SARS-CoV-2 variants reveal features critical for replication in primary human cells. Now published in *PLoS Biol* [10.1371/journal.pbio.3001006](https://doi.org/10.1371/journal.pbio.3001006)

The evolutionary dynamics of endemic human coronaviruses. *Virus Evol* [10.1093/ve/veab020](https://doi.org/10.1093/ve/veab020)

Experimental SARS-CoV-2 Infection of Bank Voles. *Emerg Infect Dis* [10.3201/eid2704.204945](https://doi.org/10.3201/eid2704.204945)

SARS-CoV-2 causes severe epithelial inflammation and barrier dysfunction. *J Virol* [10.1128/JVI.00110-21](https://doi.org/10.1128/JVI.00110-21)

Berberine and Obatoclox Inhibit SARS-Cov-2 Replication in Primary Human Nasal Epithelial Cells In Vitro. Now published in *Viruses* [10.3390/v13020282](https://doi.org/10.3390/v13020282)

Investigation of Nasal/Oropharyngeal Microbial Community of COVID-19 Patients by 16S rDNA Sequencing. *Int J Environ Res Public Health* [10.3390/ijerph18042174](https://doi.org/10.3390/ijerph18042174)

Conflicting and ambiguous names of overlapping ORFs in the SARS-CoV-2 genome: A homology-based resolution. *Virology* [10.1016/j.virol.2021.02.013](https://doi.org/10.1016/j.virol.2021.02.013)

Reviews

The role of A-to-I RNA editing in infections by RNA viruses: Possible implications for SARS-CoV-2 infection. *Clin Immunol* [10.1016/j.clim.2021.108699](https://doi.org/10.1016/j.clim.2021.108699)

Preprints

Negligible impact of SARS-CoV-2 variants on CD4⁺ and CD8⁺ T cell reactivity in COVID-19 exposed donors and vaccinees. *bioRxiv* [10.1101/2021.02.27.433180](https://doi.org/10.1101/2021.02.27.433180)

Genomics and epidemiology of a novel SARS-CoV-2 lineage in Manaus, Brazil. *medRxiv* [10.1101/2021.02.26.21252554](https://doi.org/10.1101/2021.02.26.21252554)

The emergence and ongoing convergent evolution of the N501Y lineages coincides with a major global shift in the SARS-CoV-2 selective landscape. *medRxiv* [10.1101/2021.02.23.21252268](https://doi.org/10.1101/2021.02.23.21252268)

How One Pandemic Led To Another: Asfv, the Disruption Contributing To Sars-Cov-2 Emergence in Wuhan. *Preprints* [10.20944/preprints202102.0590.v1](https://doi.org/10.20944/preprints202102.0590.v1)

Bamlanivimab does not neutralize two SARS-CoV-2 variants carrying E484K in vitro. *medRxiv* [10.1101/2021.02.24.21252372](https://doi.org/10.1101/2021.02.24.21252372)

Drug development of an affinity enhanced, broadly neutralizing heavy chain-only antibody that restricts SARS-CoV-2 in rodents. *bioRxiv* [10.1101/2021.03.08.433449](https://doi.org/10.1101/2021.03.08.433449)

CVnCoV protects human ACE2 transgenic mice from ancestral B BavPat1 and emerging B.1.351 SARS-CoV-2. *bioRxiv* [10.1101/2021.03.22.435960](https://doi.org/10.1101/2021.03.22.435960)

Quantification of the spread of SARS-CoV-2 variant B.1.1.7 in Switzerland. *medRxiv* [10.1101/2021.03.05.21252520](https://doi.org/10.1101/2021.03.05.21252520)

Virological and serological characterization of critically ill patients with COVID-19 in the UK: a special focus on variant detection. *bioRxiv* [10.1101/2021.02.24.21251989](https://doi.org/10.1101/2021.02.24.21251989)

Deploying an Artificial Intelligence System for COVID-19 Testing at the Greek Border. *SSRN* [10.2139/ssrn.3789038](https://doi.org/10.2139/ssrn.3789038)

Maturation signatures of conventional dendritic cells in COVID-19 reflect direct viral sensing. *bioRxiv* [10.1101/2021.03.03.433597](https://doi.org/10.1101/2021.03.03.433597)

A genome-wide CRISPR screen identifies interactors of the autophagy pathway as conserved coronavirus targets. *bioRxiv* [10.1101/2021.02.24.432634](https://doi.org/10.1101/2021.02.24.432634)

CD47 as a potential biomarker for the early diagnosis of severe COVID-19. *bioRxiv* [10.1101/2021.03.01.433404](https://doi.org/10.1101/2021.03.01.433404)

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