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

Transmission of SARS-CoV-2 on mink farms between humans and mink and back to humans. *Science*

[10.1126/science.abe5901](https://doi.org/10.1126/science.abe5901)

Characterization of pre-existing and induced SARS-CoV-2-specific CD8⁺ T cells. *Nat Med*

[10.1038/s41591-020-01143-2](https://doi.org/10.1038/s41591-020-01143-2)

Genome-wide mapping of SARS-CoV-2 RNA structures identifies therapeutically-relevant elements. Now published in *Nucleic Acids Res* [10.1093/nar/gkaa1053](https://doi.org/10.1093/nar/gkaa1053)

STAT2 signaling restricts viral dissemination but drives severe pneumonia in SARS-CoV-2 infected hamsters. Now published in *Nat Commun* [10.1038/s41467-020-19684-y](https://doi.org/10.1038/s41467-020-19684-y)

SARS-CoV-2-induced gastrointestinal inflammation. *Aliment Pharmacol Ther* [10.1111/apt.16087](https://doi.org/10.1111/apt.16087)

Antibody response using six different serological assays in a completely PCR-tested community after a COVID-19 outbreak - The CoNAN study. Now published in *Clin Microbiol Infect* [10.1016/j.cmi.2020.11.009](https://doi.org/10.1016/j.cmi.2020.11.009)

Aprotinin Inhibits SARS-CoV-2 Replication. *Cells* [10.3390/cells9112377](https://doi.org/10.3390/cells9112377)

A case of psoriatic arthritis triggered by SARS-CoV-2 infection. *Rheumatology* [10.1093/rheumatology/keaa691](https://doi.org/10.1093/rheumatology/keaa691)

Aerosol persistence in relation to possible transmission of SARS-CoV-2. *Phys Fluids* [10.1063/5.0027844](https://doi.org/10.1063/5.0027844)

Daily Viral Kinetics and Innate and Adaptive Immune Response Assessment in COVID-19: a Case Series. Now published in *mSphere* [10.1128/mSphere.00827-20](https://doi.org/10.1128/mSphere.00827-20)

Multi-species ELISA for the detection of antibodies against SARS-CoV-2 in animals. *Transbound Emerg Dis* [10.1111/tbed.13926](https://doi.org/10.1111/tbed.13926)

Case report of a neonate with high viral SARSCoV-2 loads and long-term virus shedding. *J Infect Public Health*

[10.1016/j.jiph.2020.10.013](https://doi.org/10.1016/j.jiph.2020.10.013)

Reviews

Computational strategies to combat COVID-19: useful tools to accelerate SARS-CoV-2 and coronavirus research. Now published in *Brief Bioinform* [10.1093/bib/bbaa232](https://doi.org/10.1093/bib/bbaa232)

Preprints

The circulating SARS-CoV-2 spike variant N439K maintains fitness while evading antibody-mediated immunity. *bioRxiv* [10.1101/2020.11.04.355842](https://doi.org/10.1101/2020.11.04.355842)

Comparison of seven commercial SARS-CoV-2 rapid Point-of-Care Antigen tests. *medRxiv* [10.1101/2020.11.12.20230292](https://doi.org/10.1101/2020.11.12.20230292)

SARS-CoV-2 spike D614G variant confers enhanced replication and transmissibility. *bioRxiv* [10.1101/2020.10.27.357558](https://doi.org/10.1101/2020.10.27.357558)

Susceptibility of well-differentiated airway epithelial cell cultures from domestic and wildlife animals to SARS-CoV-2. *bioRxiv* [10.1101/2020.11.10.374587](https://doi.org/10.1101/2020.11.10.374587)


COVIDStrategyCalculator: A standalone software to assess testing- and quarantine strategies for incoming travelers, contact person management and de-isolation. *medRxiv* [10.1101/2020.11.18.20233825](https://doi.org/10.1101/2020.11.18.20233825)

Quantifying SARS-CoV-2 spread in Switzerland based on genomic sequencing data. *medRxiv* [10.1101/2020.10.14.20212621](https://doi.org/10.1101/2020.10.14.20212621)

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

SARS-CoV-2 Bioinformatics Tools and Resources

- **coronaSPAdes**: coronavirus assembly mode for SPAdes assembler which allows to assemble full-length coronaviridae genomes from transcriptomic and metatranscriptomic data.
- **COVIDStrategyCalculator**: to assess testing- and quarantine strategies for incoming travelers, contact person management and de-isolation.
- **hCoronavirusesDB**: genetic and proteomic database for the human coronaviruses SARS-CoV, MERS-CoV, and SARS-CoV-2.
- **Rfam**: comprehensive annotation of viral RNA families starting with Flavivirus and Coronaviridae RNAs.
- **SARS-CoV-2 Genome Assembly and Annotation Service**: streamlined “meta-service” that accepts raw reads and performs genome assembly, annotation, and variation analysis

 [Coronavirus tools website](#)
(currently under maintenance)