



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

Seasonal coronavirus protective immunity is short-lasting. Now published in *Nat Med* [10.1038/s41591-020-1083-1](https://doi.org/10.1038/s41591-020-1083-1)

SARS-CoV-2 Nsp1 binds the ribosomal mRNA channel to inhibit translation. *Nat Struct Mol Biol* [10.1038/s41594-020-0511-8](https://doi.org/10.1038/s41594-020-0511-8)

Rapid incorporation of Favipiravir by the fast and permissive viral RNA polymerase complex results in SARS-CoV-2 lethal mutagenesis. *Nat Commun* [10.1038/s41467-020-18463-z](https://doi.org/10.1038/s41467-020-18463-z)

Proximity Labeling for the Identification of Coronavirus-Host Protein Interactions. *Methods Mol Biol* [10.1007/978-1-0716-0900-2\\_14](https://doi.org/10.1007/978-1-0716-0900-2_14)

In-Yeast Assembly of Coronavirus Infectious cDNA Clones Using a Synthetic Genomics Pipeline. *Methods Mol Biol* [10.1007/978-1-0716-0900-2\\_13](https://doi.org/10.1007/978-1-0716-0900-2_13)

Making waves: Wastewater-based epidemiology for COVID-19 - approaches and challenges for surveillance and prediction. *Water Res* [10.1016/j.watres.2020.116404](https://doi.org/10.1016/j.watres.2020.116404)

SARS-CoV-2 ORF3b Is a Potent Interferon Antagonist Whose Activity Is Increased by a Naturally Occurring Elongation Variant. *Cell Rep* [10.1016/j.celrep.2020.108185](https://doi.org/10.1016/j.celrep.2020.108185)

Compartmentalized Replication of SARS-Cov-2 in Upper vs. Lower Respiratory Tract Assessed by Whole Genome Quasispecies Analysis. *Microorganisms* [10.3390/microorganisms8091302](https://doi.org/10.3390/microorganisms8091302)

Scenario-driven forecasting: modeling peaks and paths. Insights from the COVID-19 pandemic in Belgium. *Scientometrics* [10.1007/s11192-020-03591-6](https://doi.org/10.1007/s11192-020-03591-6)

The use of germicidal ultraviolet light, vaporized hydrogen peroxide and dry heat to decontaminate face masks and filtering respirators contaminated with a SARS-CoV-2 surrogate virus. *J Hosp Infect* [10.1016/j.jhin.2020.08.025](https://doi.org/10.1016/j.jhin.2020.08.025)

SAR of novel benzamides and isoindolines, designed as SARS-CoV protease inhibitors - effective against SARS-CoV-2. *ChemMedChem* [10.1002/cmdc.202000548](https://doi.org/10.1002/cmdc.202000548)

Two serological approaches for detection of antibodies to SARS-CoV-2 in different scenarios: a screening tool and a point-of-care test. *Diagn Microbiol Infect Dis* [10.1016/j.diagmicrobio.2020.115167](https://doi.org/10.1016/j.diagmicrobio.2020.115167)

SARS-CoV-2 in fruit bats, ferrets, pigs, and chickens: an experimental transmission study. *Lancet Microbe* [10.1016/S2666-5247\(20\)30089-6](https://doi.org/10.1016/S2666-5247(20)30089-6)

### Reviews

Animal models for COVID-19. *Nature* [10.1038/s41586-020-2787-6](https://doi.org/10.1038/s41586-020-2787-6)

### Preprints

Antisense oligonucleotides target a nearly invariant structural element from the SARS-CoV-2 genome and drive RNA degradation. *bioRxiv* [10.1101/2020.09.18.304139](https://doi.org/10.1101/2020.09.18.304139)

Genome-wide bioinformatic analyses predict key host and viral factors in SARS-CoV-2 pathogenesis. *Research Square* [10.21203/rs.3.rs-63136/v1](https://doi.org/10.21203/rs.3.rs-63136/v1)

Variation in SARS-CoV-2 seroprevalence in school-children across districts, schools and classes. *medRxiv* [10.1101/2020.09.18.20191254](https://doi.org/10.1101/2020.09.18.20191254)

Impact of universal masking in health care and community on SARS-CoV-2 spread. *medRxiv* [10.1101/2020.09.02.20187021](https://doi.org/10.1101/2020.09.02.20187021)

Respiratory disease in cats associated with human-to-cat transmission of SARS-CoV-2 in the UK. *bioRxiv* [10.1101/2020.09.23.309948](https://doi.org/10.1101/2020.09.23.309948)

For more frequent updates on SARS-CoV-2 publications, please follow us on Twitter [EVirusBioinfC](https://twitter.com/EVirusBioinfC) or check our [publications website](#).

## SARS-CoV-2 Bioinformatics Tools and Resources

We are curating a list of [bioinformatics tools specifically for coronaviruses](#). Please let us know about the tools you have developed to advance the field.

- **VODAN (Virus Outbreak Data Network) Implementation Network** to make the SARS CoV-2 virus data FAIR, meaning that they are Findable, Accessible, Interoperable and thus Reusable by both humans and machines.

## Events

EVBC does not endorse any of the listings and is only involved in events marked as **EVBC Events**.  
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**ETH D-BSSE eSymposium on: What do SARS-CoV-2 genomes tell us about their evolution and spread?**

13 October 2020 [online | free of charge](#)

In this symposium, researchers who are heavily involved in SARS-CoV-2 data analysis will report on the ways in which genomic data is shaping our view of this ongoing global health emergency.

