

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

Belgium — concerns about coronavirus contact-tracing apps. *Nature* [10.1038/d41586-020-01552-w](https://doi.org/10.1038/d41586-020-01552-w)

Type III interferons disrupt the lung epithelial barrier upon viral recognition. Now published in *Science* [10.1126/science.abc3545](https://doi.org/10.1126/science.abc3545)

COVID-19 severity correlates with airway epithelium-immune cell interactions identified by single-cell analysis. Now published in *Nat Biotechnol* [10.1038/s41587-020-0602-4](https://doi.org/10.1038/s41587-020-0602-4)

A Prospect on the Use of Antiviral Drugs to Control Local Outbreaks of COVID-19. Now published in *BMC Med* [10.1186/s12916-020-01636-4](https://doi.org/10.1186/s12916-020-01636-4)

SARS-CoV-2 Phylogenetic Analysis, Lazio Region, Italy, February–March 2020. *Emerg Infect Dis* [10.3201/eid2608.201525](https://doi.org/10.3201/eid2608.201525)

SARS-CoV-2 Infection in Farmed Minks, the Netherlands, April and May 2020. *Euro Surveill* [10.2807/1560-7917.ES.2020.25.23.2001005](https://doi.org/10.2807/1560-7917.ES.2020.25.23.2001005)

Multicentre Comparison of Quantitative PCR-based Assays to Detect SARS-CoV-2, Germany, March 2020. *Euro Surveill* [10.2807/1560-7917.ES.2020.25.24.2001057](https://doi.org/10.2807/1560-7917.ES.2020.25.24.2001057)

Temperature-dependent Surface Stability of SARS-CoV-2. *J Infect* [10.1016/j.jinf.2020.05.074](https://doi.org/10.1016/j.jinf.2020.05.074)

Interferon- β 1a Inhibits SARS-CoV-2 *in Vitro* When Administered After Virus Infection. *J Infect Dis* [10.1093/infdis/jiaa350](https://doi.org/10.1093/infdis/jiaa350)

CORDITE: The Curated CORona Drug InTERactions Database for SARS-CoV-2. *iScience* [10.1016/j.isci.2020.101297](https://doi.org/10.1016/j.isci.2020.101297)

Inhibition of SARS-CoV-2 by Type I and Type III Interferons. *J Biol Chem* [10.1074/jbc.AC120.013788](https://doi.org/10.1074/jbc.AC120.013788)

Pitfalls in SARS-CoV-2 PCR diagnostics. *Transbound Emerg Dis* [10.1111/tbed.13684](https://doi.org/10.1111/tbed.13684)

Studying the Pathophysiology of Coronavirus Disease 2019: A Protocol for the Berlin Prospective COVID-19 Patient Cohort (Pa-COVID-19). *Infection* [10.1007/s15010-020-01464-x](https://doi.org/10.1007/s15010-020-01464-x)

Preprints

Olfactory transmucosal SARS-CoV-2 invasion as port of Central Nervous System entry in COVID-19 patients. *bioRxiv* [10.1101/2020.06.04.135012](https://doi.org/10.1101/2020.06.04.135012)

Suppressive myeloid cells are a hallmark of severe COVID-19. *medRxiv* [10.1101/2020.06.03.20119818](https://doi.org/10.1101/2020.06.03.20119818)

An analysis of SARS-CoV-2 viral load by patient age. *medRxiv* [10.1101/2020.06.08.20125484](https://doi.org/10.1101/2020.06.08.20125484)

Age-dependent progression of SARS-CoV-2 infection in Syrian hamsters. *bioRxiv* [10.1101/2020.06.10.144188](https://doi.org/10.1101/2020.06.10.144188)

Genomic epidemiology of SARS-CoV-2 spread in Scotland highlights the role of European travel in COVID-19 emergence. *medRxiv* [10.1101/2020.06.08.20124834](https://doi.org/10.1101/2020.06.08.20124834)

Longitudinal isolation of potent near-germline SARS-CoV-2-neutralizing antibodies from COVID-19 patients. *bioRxiv* [10.1101/2020.06.12.146290](https://doi.org/10.1101/2020.06.12.146290)

Genome-wide mapping of therapeutically-relevant SARS-CoV-2 RNA structures. *bioRxiv* [10.1101/2020.06.15.151647](https://doi.org/10.1101/2020.06.15.151647)

Evolution and epidemic spread of SARS-CoV-2 in Brazil. *medRxiv* [10.1101/2020.06.11.20128249](https://doi.org/10.1101/2020.06.11.20128249)

CoV-GLUE: A Web Application for Tracking SARS-CoV-2 Genomic Variation. *Preprints* [10.20944/preprints202006.0225.v1](https://doi.org/10.20944/preprints202006.0225.v1)

COVID-19-related coagulopathy – Is transferrin a missing link? *bioRxiv* [10.1101/2020.06.11.147025](https://doi.org/10.1101/2020.06.11.147025)

Multi-level proteomics reveals host-perturbation strategies of SARS-CoV-2 and SARS-CoV. *bioRxiv* [10.1101/2020.06.17.156455](https://doi.org/10.1101/2020.06.17.156455)

Holder Pasteurization Inactivates SARS-CoV-2 in Human Breast Milk. *bioRxiv* [10.1101/2020.06.17.155689](https://doi.org/10.1101/2020.06.17.155689)

CoronaHiT: large scale multiplexing of SARS-CoV-2 genomes using Nanopore sequencing. *bioRxiv* [10.1101/2020.06.24.162156](https://doi.org/10.1101/2020.06.24.162156)

Accommodating individual travel history, global mobility, and unsampled diversity in phylogeography: a SARS-CoV-2 case study. *bioRxiv* [10.1101/2020.06.22.165464](https://doi.org/10.1101/2020.06.22.165464)

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.

- [RNACentral Betacoronavirus sequence similarity search](#) to find similar betacoronavirus sequences.
- [CORDITE](#) aggregates all available knowledge on potential drugs for SARS-CoV-2.
- [CoV-GLUE](#) for the analysis of SARS-CoV-2 virus genome sequences with focus on amino acid sequence variation.
- [coronapp](#) is a web application to annotate and monitor SARS-CoV-2 mutations, both worldwide and in user-selected countries.
- [Covid-19 trajectories](#) is a monitoring tool which enables inspection of the dynamic state of the epidemic using trajectories.

News and Announcements

Send cat and dog samples to test for SARS-CoV-2. MRC-University of Glasgow Centre for Virus Research intends to investigate natural SARS-CoV-2 infections in domestic cats and dogs and is seeking the assistance of colleagues in practice to provide respiratory and/or faecal samples where they have a clinical suspicion of SARS-CoV-2 infection. [10.1136/vr.m2019](https://doi.org/10.1136/vr.m2019)

