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

Belgium — concerns about coronavirus contact-tracing apps. Nature 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


SARS-CoV-2 Infection in Farmed Minks, the Netherlands, April and May 2020. Euro Surveill 10.2807/1560-7917.ESS.2020.25.23.2001055


Interferon-β 1a Inhibits SARS-CoV-2 in Vitro When Administered After Virus Infection. J Infect Dis 10.1093/infdis/jiaa350

CORDITE: The Curated CORona Drug InTERactions Database for SARS-CoV-2. (Science 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

Pitfalls in SARS-CoV-2 PCR diagnostics. Transbound Emerg Dis 10.1111/tbed.13684


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

Suppressive myeloid cells are a hallmark of severe COVID-19. medRxiv 10.1101/2020.06.03.20119818

An analysis of SARS-CoV-2 viral load by patient age. medRxiv 10.1101/2020.06.08.20125484

Age-dependent progression of SARS-CoV-2 infection in Syrian hamsters. bioRxiv 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


Genome-wide mapping of therapeutically-relevant SARS-CoV-2 RNA structures. bioRxiv 10.1101/2020.06.15.151647

Evolution and epidemic spread of SARS-CoV-2 in Brazil. medRxiv 10.1101/2020.06.11.20128249

CoV-GLUE: A Web Application for Tracking SARS-CoV-2 Genomic Variation. Preprints 10.20944/preprints202006.0225.v1

COVID-19-related coagulopathy – Is transferrin a missing link? bioRxiv 10.1101/2020.06.11.147025

Multi-level proteomics reveals host-perturbation strategies of SARS-CoV-2 and SARS-CoV. bioRxiv 10.1101/2020.06.17.156545

Holder Pasteurization Inactivates SARS-CoV-2 in Human Breast Milk. bioRxiv 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

Accommodating individual travel history, global mobility, and unsampled diversity in phylogeography: a SARS-CoV-2 case study. bioRxiv 10.1101/2020.06.22.165464

For more frequent updates on SARS-CoV-2 publications, please follow us on Twitter 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 Beta-coronavirus 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