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

A single-dose live-attenuated YF17D-vectored SARS-CoV-2 vaccine candidate. *Nature* [10.1038/s41586-020-3035-9](https://doi.org/10.1038/s41586-020-3035-9)

Evaluating the Effects of SARS-CoV-2 Spike Mutation D614G on Transmissibility and Pathogenicity. Now published in *Cell* [10.1016/j.cell.2020.11.020](https://doi.org/10.1016/j.cell.2020.11.020)

Olfactory transmucosal SARS-CoV-2 invasion as a port of central nervous system entry in individuals with COVID-19. Now published in *Nat Neurosci* [10.1038/s41593-020-00758-5](https://doi.org/10.1038/s41593-020-00758-5)

Genomic epidemiology of superspreading events in Austria reveals mutational dynamics and transmission properties of SARS-CoV-2. *Sci Transl Med* [10.1126/scitranslmed.abe2555](https://doi.org/10.1126/scitranslmed.abe2555)

The Short- and Long-Range RNA-RNA Interactome of SARS-CoV-2. Now published in *Mol Cell* [10.1016/j.molcel.2020.11.004](https://doi.org/10.1016/j.molcel.2020.11.004).

Genomic epidemiology reveals multiple introductions of SARS-CoV-2 from mainland Europe into Scotland. *Nat Microbiol* [10.1038/s41564-020-00838-z](https://doi.org/10.1038/s41564-020-00838-z)

The SARS-CoV-2 RNA-protein interactome in infected human cells. *Nat Microbiol* [10.1038/s41564-020-00846-z](https://doi.org/10.1038/s41564-020-00846-z)

The European Bioinformatics Institute: empowering cooperation in response to a global health crisis. *Nucleic Acids Res* [10.1093/nar/gkaa1077](https://doi.org/10.1093/nar/gkaa1077)

Head-to-head comparison of SARS-CoV-2 antigen-detecting rapid test with self-collected anterior nasal swab versus professional-collected nasopharyngeal swab. *Eur Respir J* [10.1183/13993003.03961-2020](https://doi.org/10.1183/13993003.03961-2020)

Phylogenetic analysis of SARS-CoV-2 data is difficult. *Mol Biol Evol* [10.1093/molbev/msaa314](https://doi.org/10.1093/molbev/msaa314)

A highly immunogenic and effective measles virus-based Th1-biased COVID-19 vaccine. *Proc Natl Acad Sci USA* [10.1073/pnas.2014468117](https://doi.org/10.1073/pnas.2014468117).

The Roborovski Dwarf Hamster Is A Highly Susceptible Model for a Rapid and Fatal Course of SARS-CoV-2 Infection. *Cell Rep* [10.1016/j.celrep.2020.108488](https://doi.org/10.1016/j.celrep.2020.108488)

Recovering coronavirus from large volumes of water. *Sci Total Environ* [10.1016/j.scitotenv.2020.143101](https://doi.org/10.1016/j.scitotenv.2020.143101)

Comparing analytical methods to detect SARS-CoV-2 in wastewater. *Sci Total Environ* [10.1016/j.scitotenv.2020.143870](https://doi.org/10.1016/j.scitotenv.2020.143870)

Temporal signal and the phylodynamic threshold of SARS-CoV-2. Now published in *Virus Evol* [10.1093/ve/veaa061](https://doi.org/10.1093/ve/veaa061)

Serology- and PCR-based cumulative incidence of SARS-CoV-2 infection in adults in a successfully contained early hotspot (CoMoLo study), Germany, May to June 2020. *Euro Surveill* [10.2807/1560-7917.ES.2020.25.47.2001752](https://doi.org/10.2807/1560-7917.ES.2020.25.47.2001752)

SARS-CoV-2 Inhibition by Sulfonated Compounds. *Microorganisms* [10.3390/microorganisms8121894](https://doi.org/10.3390/microorganisms8121894)

Immunoglobulin Deficiency as an Indicator of Disease Severity in Patients with COVID-19. *Am J Physiol Lung Cell Mol Physiol* [10.1152/ajplung.00359.2020](https://doi.org/10.1152/ajplung.00359.2020)

Does respiratory co-infection facilitate dispersal of SARS-CoV-2? Investigation of a super-spreading event in an open-space office. *Antimicrob Resist Infect Control* [10.1186/s13756-020-00861-z](https://doi.org/10.1186/s13756-020-00861-z)

Identification of an Antiviral Compound from the Pandemic Response Box that Efficiently Inhibits SARS-CoV-2 Infection In Vitro. Now published in *Microorganisms* [10.3390/microorganisms8121872](https://doi.org/10.3390/microorganisms8121872)

Biodistribution and serologic response in SARS-CoV-2 induced ARDS: A cohort study. *PLoS One* [10.1371/journal.pone.0242917](https://doi.org/10.1371/journal.pone.0242917)

Antibodies against SARS-CoV-2 among health care workers in a country with low burden of COVID-19. *PLoS One* [10.1371/journal.pone.0243025](https://doi.org/10.1371/journal.pone.0243025)

Occurrence of Antibodies against SARS-CoV-2 in the Domestic Cat Population of Germany. *Vaccines* [10.3390/vaccines8040772](https://doi.org/10.3390/vaccines8040772)

Understanding the outcomes of COVID-19 - does the current model of an acute respiratory infection really fit? *J Gen Virol* [10.1099/jgv.0.001545](https://doi.org/10.1099/jgv.0.001545)

Evaluation of a SARS-CoV-2 rapid antigen test: Potential to help reduce community spread? *J Clin Virol* [10.1016/j.jcv.2020.104713](https://doi.org/10.1016/j.jcv.2020.104713)

SARS-CoV-2 RNA detected in blood products from patients with COVID-19 is not associated with infectious virus. *Wellcome Open Res* [10.12688/wellcomeopenres.16002.2](https://doi.org/10.12688/wellcomeopenres.16002.2)

Reviews

Combining Antivirals and Immunomodulators to Fight COVID-19. *Trends Immunol* [10.1016/j.it.2020.11.003](https://doi.org/10.1016/j.it.2020.11.003)

Analytical methodologies for the detection of SARS-CoV-2 in wastewater: Protocols and future perspectives. *Trends Analyt Chem* [10.1016/j.trac.2020.116125](https://doi.org/10.1016/j.trac.2020.116125)

SARS coronavirus 2: from genome to infectome. *Respir Res* [10.1186/s12931-020-01581-z](https://doi.org/10.1186/s12931-020-01581-z)

Risk of human-to-wildlife transmission of SARS-CoV-2. *Mamm Rev* [10.1111/mam.12225](https://doi.org/10.1111/mam.12225)

Preprints

Large parallel screen of saliva and nasopharyngeal swabs in a test center setting proofs utility of saliva as alternate specimen for SARS-CoV-2 detection by RT-PCR. *medRxiv* [10.1101/2020.12.01.20241778](https://doi.org/10.1101/2020.12.01.20241778)

Estimation and worldwide monitoring of the effective reproductive number of SARS-CoV-2. *medRxiv* [10.1101/2020.11.26.20239368](https://doi.org/10.1101/2020.11.26.20239368)

Longitudinal omics in Syrian hamsters integrated with human data unravel complexity of moderate immune responses to SARS-CoV-2. *bioRxiv* [10.1101/2020.12.18.423524](https://doi.org/10.1101/2020.12.18.423524)

Amilorides inhibit SARS-CoV-2 replication in vitro by targeting RNA structures. *bioRxiv* [10.1101/2020.12.05.409821](https://doi.org/10.1101/2020.12.05.409821)

The newly introduced SARS-CoV-2 variant A222V is rapidly spreading in Lazio region, Italy. *medRxiv* [10.1101/2020.11.28.20237016](https://doi.org/10.1101/2020.11.28.20237016)


COVID-19 as cause of viral sepsis: A Systematic Review and Meta-Analysis. *medRxiv* [10.1101/2020.12.02.20242354](https://doi.org/10.1101/2020.12.02.20242354)

Conflicting and Ambiguous Names of Overlapping ORFs in SARS-CoV-2: A Homology-Based Resolution. *Preprints* [10.20944/preprints202012.0048.v1](https://doi.org/10.20944/preprints202012.0048.v1)

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

SARS-CoV-2 Bioinformatics Tools and Resources

– **COVID-19 R_e** : Near real time monitoring of the effective reproductive number.

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