

## Recent Selected Publications by EVBC Members

Comparative analyses of error handling strategies for next-generation sequencing in precision medicine. *Sci Rep* [10.1038/s41598-020-62675-8](#)

Characterization of HIV-1 genetic diversity and antiretroviral resistance in the state of Maranhão, Northeast Brazil. *PLOS One* [10.1371/journal.pone.0230878](#)

Geographical Variability Affects CCHFV Detection by RT-PCR: A Tool for In-Silico Evaluation of Molecular Assays. *Viruses* [10.3390/v11100953](#)

Specialist Laboratory Networks as Preparedness and Response Tool - The Emerging Viral Diseases-Expert Laboratory Network and the Chikungunya Outbreak, Thailand, 2019. *Euro Surveill* [10.2807/1560-7917.ES.2020.25.13.1900438](#)

Using Direct RNA Nanopore Sequencing to Deconvolute Viral Transcriptomes. *Curr Protoc Microbiol* [10.1002/cpmc.99](#)

Viromics and Infectivity Analysis Reveal the Release of Infective Plant Viruses From Wastewater Into the Environment. *Water Res* [10.1016/j.watres.2020.115628](#)

Bats reveal the true power of influenza A virus adaptability. *PLoS Pathog* [10.1371/journal.ppat.1008384](#)

A Comprehensive Annotation and Differential Expression Analysis of Short and Long Non-Coding RNAs in 16 Bat Genomes. *NAR Genom Bioinform* [10.1093/nargab/lqz006](#)

Phylogenetics Helps to Evaluate the Impact of an HIV Prevention Intervention. *Viruses* [10.3390/v12040469](#)

Safety and Immunogenicity of a Candidate Middle East Respiratory Syndrome Coronavirus Viral-Vectored Vaccine: A Dose-Escalation, Open-Label, Non-Randomised, Uncontrolled, Phase 1 Trial. *Lancet Infect Dis* [10.1016/S1473-3099\(20\)30160-2](#)

Safety and Immunogenicity of a Modified Vaccinia Virus Ankara Vector Vaccine Candidate for Middle East Respiratory Syndrome: An Open-Label, Phase 1 Trial. *Lancet Infect Dis* [10.1016/S1473-3099\(20\)30248-6](#)

Re-circulation of Schmallenberg Virus, Germany, 2019. *Transbound Emerg Dis* [10.1111/tbed.13592](#)

### Preprints

Comprehensive single cell analysis of pandemic influenza A virus infection in the human airways uncovers cell-type specific host transcriptional signatures relevant for disease progression and pathogenesis. *bioRxiv* [10.1101/2020.04.03.014282](#)

Bats Possess Unique Variants of the Antiviral Restriction Factor Tetherin. *bioRxiv* [10.1101/2020.04.08.031203](#)

Primate phageomes are structured by superhost phylogeny and environment. *bioRxiv* [10.1101/2020.04.06.011684](#)

PriSeT: Efficient De Novo Primer Discovery. *bioRxiv* [10.1101/2020.04.06.027961](#)

An environment for sustainable research software in Germany and beyond: current state, open challenges, and call for action. *F1000Res* [10.12688/f1000research.23224.1](#)

### Special Issue Virus Bioinformatics 2020

The In Silico Prediction of Hotspot Residues that Contribute to the Structural Stability of Subunit Interfaces of a Picornavirus Capsid. *Viruses* [10.3390/v12040387](#)

Synonymous Dinucleotide Usage: A Codon-Aware Metric for Quantifying Dinucleotide Representation in Viruses. *Viruses* [10.3390/v12040462](#)

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## Virus Bioinformatics Tools and Resources

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

- **PriSeT** finds a primer set for DNA metabarcoding that matches to a broad evolutionary range of taxa while at the same time, the DNA barcodes between primer pairs are different to allow you to distinguish between species.

News related to SARS-CoV-2 are covered in our [Special Issue Newsletter](#).

