

Recent Selected Publications by EVBC Members

Field-based sciences must transform in response to COVID-19. *Nat Ecol Evol* [10.1038/s41559-020-01317-8](#)

Bayesian Evaluation of Temporal Signal in Measurably Evolving Populations. *Mol Biol Evol* [10.1093/molbev/msaa163](#)

Improved reference genome of the arboviral vector *Aedes albopictus*. Now published in *Genome Biol* [10.1186/s13059-020-02141-w](#)

OGRE: Overlap Graph-based metagenomic Read clustEring. *Bioinformatics* [10.1093/bioinformatics/btaa760](#)

Discrete spatio-temporal regulation of tyrosine phosphorylation directs influenza A virus M1 protein towards its function in virion assembly. *PLoS Pathog* [10.1371/journal.ppat.1008775](#)

RNA secondary structure at the transcription start site influences EBOV transcription initiation and replication in a length- and stability-dependent manner. *RNA Biol* [10.1080/15476286.2020.1818459](#)

Recombination at the emergence of the pathogenic rabbit haemorrhagic disease virus *Lagovirus europaeus*/GI.2. *Sci Rep* [10.1038/s41598-020-71303-4](#)

Sequence Analysis of Egyptian Foot-and-Mouth Disease Virus Field and Vaccine Strains: Intertypic Recombination and Evidence for Accidental Release of Virulent Virus. Now published in *Viruses* [10.3390/v12090990](#)

Evolutionary Study of the crAssphage Virus at Gene Level. *Viruses* [10.3390/v12091035](#)

Rapid multiplex MinION nanopore sequencing workflow for Influenza A viruses. *BMC Infect Dis* [10.1186/s12879-020-05367-y](#)

Experimental infection of bumblebees with honeybee-associated viruses: no direct fitness costs but potential future threats to novel wild bee hosts. *R Soc Open Sci* [10.1098/rsos.200480](#)

2020 taxonomic update for phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. *Arch Virol* [10.1007/s00705-020-04731-2](#)

Reviews

Beyond Cytomegalovirus and Epstein-Barr Virus: a Review of Viruses Composing the Blood Virome of Solid Organ Transplant and Hematopoietic Stem Cell Transplant Recipients. *Clin Microbiol Rev* [10.1128/CMR.00027-20](#)

Mumps Vaccines: Current Challenges and Future Prospects. *Front Microbiol* [10.3389/fmicb.2020.01999](#)

Preprints

Hamiltonian Monte Carlo sampling to estimate past population dynamics using the skygrid coalescent model in a Bayesian phylogenetics framework. *Wellcome Open Res* [10.12688/wellcomeopenres.15770.1](#)

AnnapuRNA: a scoring function for predicting RNA-small molecule interactions. *bioRxiv* [10.1101/2020.09.08.287136](#)

CIAlign - A highly customisable command line tool to clean, interpret and visualise multiple sequence alignments. *bioRxiv* [10.1101/2020.09.14.291484](#)

High transmissibility and fetal pathogenicity of recent Zika virus strains from the African lineage. *bioRxiv* [10.1101/2020.09.01.277673](#)

For more frequent updates on publications, please follow us on Twitter [@EVirusBioinfC](#) or check our [publications website](#).

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.

- **OGRE (Overlap Graph-based metagenomic Read clustEring)** for clustering reads in species-specific clusters for large metagenomic datasets.
- **AnnapuRNA** is a scoring function for predicting RNA-small molecule interactions.
- **CIAlign** effectively removes poorly aligned regions and sequences from MSAs and provides novel visualisation options.

Upcoming Events

EVBC does not endorse any of the listings and is only involved in events marked as **EVBC Events** ★.

[Subscribe to EVBC Event Calendar](#) 📅

★ **International Virus Bioinformatics Meeting 2020**
08-09 October 2020 [online | free of charge](#)

Join us for our annual meeting focussing on bioinformatics approaches in virology. Drop us an [email](#) to receive access information.

Vacancies

15 PhD positions in VIROINF Network

The EU funded MSCA-ITN VIROINF (Understanding (harmful) virus-host interactions by linking virology and bioinformatics) will recruit fifteen early stage researchers at fifteen institutes in eight countries. Check out the [list of projects](#) and [application details](#).

Application deadline: [21 October 2020](#)

News and Announcements

The Special Issue **The Complex Roles of Viruses in Agroecosystems in Agronomy** is guest edited by EVBC member Laura Miozzi and welcomes contributions that improve the understanding of plant-virus interactions and explore the complex role of viruses in agroecosystems, with the ultimate aim of improving the sustainability of agronomic practices.

Submission deadline: [30 June 2021](#)

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

