Recent Selected Publications by EVBC Members

The new scope of virus taxonomy: partitioning the virosphere into 15 hierarchical ranks. *Nat Microbiol.* 10.1038/s41564-020-0709-x

Honey-bee–associated protokaryotic viral communities reveal wide viral diversity and a profound metabolic coding potential. *Proc Natl Acad Sci USA* 10.1073/pnas.1921859117

Novel genome sequences of cell-fusing agent virus allow comparison of virus phylogeny with the genetic structure of *Aedes aegypti* populations. *Virus Evol.* 10.1093/virus/vzab054


Monkeypox Virus Emergence in Wild Chimpanzees Reveals Distinct Clinical Outcomes and Viral Diversity. *Nat Microbiol.* 10.1038/s41564-020-0706-0


Taxit: An Iterative Computational Pipeline for Untargeted Strain-Level Identification Using MS/MS Spectra From Pathogenic Single-Organism Samples. Now published in *J Proteome Res.* 10.1021/acs.jproteome.9b00714


Pervasive and non-random recombination in near full-length HIV genomes from Uganda. *Virus Evol.* 10.1093/virus/vzaa004


A Near Full-Length HIV-1 Genome From 1966 Recovered From Formalin-Fixed Paraffin-Embedded Tissue. *Proc Natl Acad Sci USA* 10.1073/pnas.1913682117

Reviews


Preprints

Type III interferons disrupt the lung epithelial barrier upon viral recognition. *bioRxiv.* 10.1101/2020.05.05.077867

Decoding the architecture of the varicella-zoster virus transcriptome. *bioRxiv.* 10.1101/2020.05.25.110965

EpiDope: A Deep neural network for linear B-cell epitope prediction. *bioRxiv.* 10.1101/2020.05.12.090019

PoSelDon: a Nextflow pipeline for the detection of evolutionary recombination events and positive selection. *bioRxiv.* 10.1101/2020.05.18.102731

We are happy to announce your research in our newsletter. Send your publications to evbc@uni-jena.de. For more frequent updates on publications, please follow us on Twitter EVirusBioinfC or check our publications website.

News related to SARS-CoV-2 are covered in our Special Issue Newsletter.

News and Announcements

Innovative Training Network VIROINF The European Commission has announced the successful applicants to Marie Skłodowska-Curie Actions (MSCA). We are very happy to announce that the EVBC together with 15 beneficiaries from 8 different countries will be recruiting 15 PhD students. Details will follow soon.

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

The following conferences have been postponed or cancelled due to the ongoing COVID-19 pandemic:

- RECOMB 2020 will be a virtual conference to be held on 22-25 June 2020.
- VEME 2020 is postponed until late August, early September.
- 7th ESWI Influenza Conference is postponed to 6-9 December 2020.
- HCV 2020 is rescheduled to 6-9 July 2021.
- ESCV 2020 is postponed to 15-18 September 2021.
- International Herpesvirus Workshop 2020 has been cancelled.
- ASV 2020 has been cancelled. Virtual workshops to be held on 13-17 June 2020.
- International Hepatitis E Symposium 2020 has been cancelled.

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.

- HSV-1 genome browser for easy accessibility of the complete viral transcriptome and translate of herpes simplex virus 1 (HSV-1), including 46 novel large ORFs.
- EpiDope uses a deep neural network to detect B-cell epitope regions on individual protein sequences.
- PoSelDon is an easy-to-use pipeline that helps researchers to find recombination events and sites under positive selection in protein-coding sequences.
- Taxit is an iterative workflow for untargeted accurate strain-level classification of a priori unidentified organisms using tandem mass spectrometry.
- VADR: validation and annotation of virus sequence submissions to GenBank.