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viruses *in silico* | EVBC Lectures

CIAlign, a tool to clean, interpret and visualise multiple sequence alignments, and its application to virus discovery.

26. April 2021 | 02–03pm CEST

[online](#)

Dr. Katy Brown, Cambridge University, UK

CIAlign targets four common features of complex multiple sequence alignments: low quality or incomplete ends of sequences leading to gaps and mismatches, insertions in a minority of sequences dominating the alignment, unexpectedly divergent sequences and very short sequences. It also provides a new type of alignment visualisation, which shows the whole alignment in a single, publication ready image. Katy will present CIAlign and how she uses this tool as part of a computational pipeline developed to identify, classify and characterise novel RNA viruses and cross-species transmissions in honey bees and the other arthropods they interact with, such as native pollinators, ants and mites.

[Register](#)

Upcoming Events

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

- **Taming the BEAST** | 07–11 June 2021 | [online](#)
Summer school focusing on the BEAST2 software: invited talks by experts, lectures and hands-on tutorial sessions.
Application deadline: **15 April 2021**
- **EMBL-EBI Summer school in bioinformatics** | 28 June – 02 July 2021 | [online](#)
Introduction to bioinformatics theory and practice, including best practices for undertaking bioinformatics analysis, data management and reproducibility.
Applications deadline: **13 April 2021**
- **ProkaGENOMICS** | 05.–08. September 2021 | Göttingen
8th European Conference on Prokaryotic and Fungal Genomics: From Small Viruses to Complex Communities
Abstract deadline: **29 April 2021**

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EVBC Special Issues

Ancient Viruses and their Impact on Host Species – Emerging Themes in Paleovirology.

This special issue in *Genes* is guest edited by EVBC member R. J. Gifford and is designed to provide an overview of the emerging themes and currently unanswered questions in paleovirology.

Deadline: **15 November 2021**

[More special issues by EVBC members](#)

Recent Selected Publications by EVBC Members

Want to track pandemic variants faster? Fix the bioinformatics bottleneck. *Nature* [10.1038/d41586-021-00525-x](#)

Discovery of novel herpes simplexviruses in wild gorillas, bonobos, and chimpanzees supports zoonotic origin of HSV-2. *Mol Biol Evol* [10.1093/molbev/msab072](#)

Limited Predictability of Amino Acid Substitutions in Seasonal Influenza Viruses. *Mol Biol Evol* [10.1093/molbev/msab065](#)

Conservation of the HBV RNA element epsilon in nakednaviruses reveals ancient origin of protein-primed reverse transcription. *PNAS* [10.1073/pnas.2022373118](#)

A library preparation optimized for metagenomics of RNA viruses. *Mol Ecol Resour* [10.1111/1755-0998.13378](#)

Combining viral genetic and animal mobility network data to unravel peste des petits ruminants transmission dynamics in West Africa. *PLoS Pathog* [10.1371/journal.ppat.1009397](#)

Recognizing species as a new focus of virus research. *PLoS Pathog* [10.1371/journal.ppat.1009318](#)

Ancient evolution of hepadnaviral paleoviruses and their impact on host genomes. *Virus Evol* [10.1093/ve/veab012](#)

The influence of human genetic variation on Epstein-Barr virus sequence diversity. *Sci Rep* [10.1038/s41598-021-84070-7](#)

viromeBrowser: A Shiny App for Browsing Virome Sequencing Analysis Results. *Viruses* [10.3390/v13030437](#)

Molecular epidemiology of peste des petits ruminants virus in Nigeria: an update. *Transbound Emerg Dis* [10.1111/tbed.14073](#)

Adapting the geno2pheno[coreceptor] tool to HIV-1 subtype CRF01_AE by phenotypic validation using clinical isolates from South-East Asia. *J Clin Virol* [10.1016/j.jcv.2021.104755](#)

Integrative Transkingdom Analysis of the Gut Microbiome in Antibiotic Perturbation and Critical Illness. *mSystems* [10.1128/mSystems.01148-20](#)

Reviews

Tutorial: assessing metagenomics software with the CAMI benchmarking toolkit. Now published in *Nat Protoc* [10.1038/s41596-020-00480-3](#)

African Swine Fever Virus Circulation between Tanzania and Neighboring Countries: A Systematic Review and Meta-Analysis. *Viruses* [10.3390/v13020306](#)

Preprints

Principles of RNA recruitment to viral ribonucleoprotein condensates in a segmented dsRNA virus. *bioRxiv* [10.1101/2021.03.22.435476](#)

Comparative viral metagenomics from chicken feces and farm dust in the Netherlands. *bioRxiv* [10.1101/2021.03.09.434704](#)

A previously undescribed highly prevalent phage identified in a Danish enteric virome catalogue. *Research Square* [10.21203/rs.3.rs-273865/v1](#)

[EVBC publications website](#)

News and Announcements

MDPI Viruses is offering 600 CHF discount to all EVBC Members, for papers submitted to Viruses before June!