EVBC Newsletter

Special Issue • SARS-CoV-2 • April 2020

European VIRUS BIOINFORMATICS Center

IVBM 2020 has been postponed to 08-09 October 2020.

We are happy to announce that the International Virus Bioinformatics Meeting 2020 has been rescheduled to **8-9 October 2020**. The venue remains the same: Eventforum, Fabrikstrasse 12, Bern, Switzerland. Most of the speakers have already approved the new date.
Registrations remain valid. Please cancel your registration at some point, if you cannot make it to the meeting.
Further, the submission deadline of the special issue "Virus Bioinformatics 2020" in Viruses has been extended to **31 October 2020**.

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

The species Severe acute respiratory syndrome-related coronavirus: classifying 2019-nCoV and naming it SARS-CoV-2. *Nat Microbiol* **10.1038/s41564-020-0695-z**

SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor. *Cell* **10.1016/j.cell.2020.02.052**

A potential role for integrins in host cell entry by SARS-CoV-2. *Antiviral Res* **10.1016/j.antiviral.2020.104759**

Is the Africa prepared for tackling the COVID-19 (SARS-CoV-2) epidemic? - lessons from past outbreaks, ongoing pan-African public health efforts, and implications for the future. *Int J Infect Dis* **10.1016/j.ijid.2020.02.049**

A Sequence Homology and Bioinformatic Approach Can Predict Candidate Targets for Immune Responses to SARS-CoV-2. *Cell Host Microbe* **10.1016/j.chom.2020.03.002**

Crystal structure of SARS-CoV-2 main protease provides a basis for design of improved α-ketoamide inhibitors. *Science* **10.1126/science.abb3405**

Full-genome evolutionary analysis of the novel corona virus (2019-nCoV) rejects the hypothesis of emergence as a result of a recent recombination event. *Infect Genet Evol* **10.1016/j.meegid.2020.104212**

Preprints

LY6E impairs coronavirus fusion and confers immune control of viral disease. *bioRxiv* **10.1101/2020.03.05.979260**

Clinical presentation and virological assessment of hospitalized cases of coronavirus disease 2019 in a travel-associated transmission cluster. *medRxiv* **10.1101/2020.03.05.20030502**

Comparative Pathogenesis Of COVID-19, MERS And SARS In A Non-Human Primate Model. *bioRxiv* **10.1101/2020.03.17.995639**

Efficient inactivation of SARS-CoV-2 by WHO-recommended hand rub formulations and alcohols. *bioRxiv* **10.1101/2020.03.10.986711**

SARS-CoV-2 specific antibody responses in COVID-19 patients. *medRxiv* **10.1101/2020.03.18.20038059**

A prospect on the use of antiviral drugs to control local outbreaks of COVID-19. *medRxiv* **10.1101/2020.03.19.20038182**

SARS-CoV-2 launches a unique transcriptional signature from in vitro, ex vivo, and in vivo systems. *bioRxiv* **10.1101/2020.03.24.004655**

SARS-CoV-2 asymptomatic and symptomatic patients and risk for transfusion transmission. *medRxiv* **10.1101/2020.03.29.20039529**

For more frequent updates on publications, please follow us on Twitter EVirusBioinfC or check our publications website.

News and Announcements

Database and analysis resource for COVID-19: Iman Almansour is looking for a cooperation partner to establish a comprehensive bioinformatics database and analysis resource for COVID-19, including complete sequences retrieval and curation of SARS-CoV-2, user-friendly search interfaces, several analytic tools (alignment, phylogeny) and download of sequences and analysis results.
For more details, please contact Iman Almansour: ikAlmansour@iau.edu.sa.

Resource for SARS-CoV-19 genomes: https://4virology.net/organisms/coronaviridae/

FRIEDRICH-SCHILLER-UNIVERSITÄT JENA

evbc@uni-jena.de
+49-3641-9-46482
http://evbc.uni-jena.de/
Leutragraben 1, 07743 Jena