EVBC Newsletter
Volume 22 ● March 2019

European
VIRUS BIOINFORMATICS
─ Center

Upcoming Events

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

7th Meeting of The European Society for Virology (ESV) — European Congress of Virology 2019
28 April – 01 May 2019, Rotterdam, the Netherlands
ECV 2019 aims to convene scientists from across the Virosphere, ranging from basic to clinical virology, mixing medical, veterinary, wildlife, invertebrate and plant virology. Throughout the ECV program, basic, clinical, and diagnostic virologists will feel at home.
Early registration deadline: 24 March 2019

24th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology (VEME)
04–09 August 2019, The University of Hong Kong, Hong Kong, China
The VEME workshop will provide both theoretical and practical training in phylogenetic inference and evolutionary hypothesis testing as applied in virology and molecular epidemiology. This covers sequence analysis, phylogenetics, phylodynamics methods, and large scale methods for next-generation sequencing (NGS) analytics.
Abstract and application deadline: 31 March 2019

ScanVir2019 conference
03–05 June 2019, Turku City Theatre, Turku, Finland
The meeting will bring together Scandinavian and other international virologists, and creates opportunities for fruitful collaboration. The topics include all aspects of virology and viral immunology – basic, applied and clinical virology.
Registration deadline: 31 March 2019

Recent Selected Publications by EVBC Members

Ferreting out viral pathogenesis. *Nat Microbiol* **10.1038/s41564-019-0390-0**

VIpower: Simulation-based tool for estimating power of viral integration detection via high-throughput sequencing. *Genomics* **10.1016/j.ygeno.2019.01.015**

CAMISIM: simulating metagenomes and microbial communities. *Microbiome* **10.1186/s40168-019-0633-6**

A method to identify respiratory virus infections in clinical samples using next-generation sequencing. *Sci Rep* **10.1038/s41598-018-37483-w**

A signal processing method for alignment-free metagenomic binning: multi-resolution genomic binary patterns. *Sci Rep* **10.1038/s41598-018-38197-9**

Network controllability analysis of intracellular signalling reveals viruses are actively controlling molecular systems. *Sci Rep* **10.1038/s41598-018-38224-9**

Relative Principal Components Analysis: Application to Analyzing Biomolecular Conformational Changes. *J Chem Theory Comput* **10.1021/acs.jctc.8b01074**

QuantIF: An ImageJ Macro to Automatically Determine the Percentage of Infected Cells after Immunofluorescence. *Viruses* Special Issue *Virus Bioinformatics* **10.3390/v11020165**

A Needle in A Haystack: Tracing Bivalve-Associated Viruses in High-Throughput Transcriptomic Data. *Viruses* Special Issue *Virus Bioinformatics* **10.3390/v11030205**

Vacancies

Assistant/Associate Professor in Integrative Virus-Host Bioinformatics. The Hannover Medical School is looking for an individual with a proven research track record in bioinformatics and viral systems biology and with a focus on human pathogenic viruses to complement the research programme of the Institute of Experimental Virology at TWINCORE and contribute to the research program of the RESIST cluster of excellence. Application to Hannover Medical School; deadline: March 28, 2019

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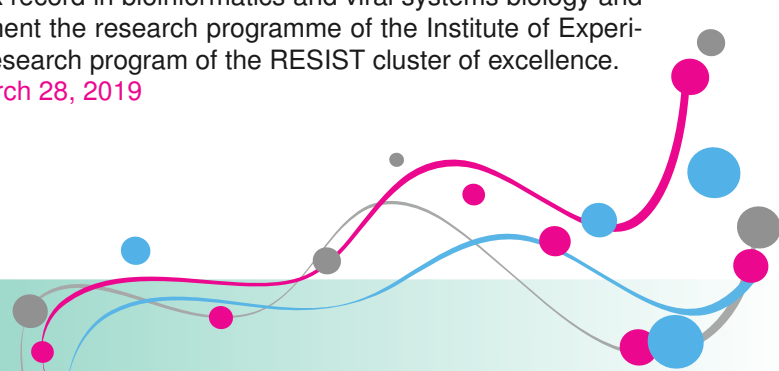
PhD position for High-throughput virus discovery in next generation sequencing data related to human cancer and other diseases   The Department of Infectious Diseases, Heidelberg University is looking for a highly motivated PhD student to search for unknown human viruses in NGS data related to cancer, as well as some other specified diseases that might be linked to infectious agents, such as autoimmune and neuro-inflammatory disorders.

Application via ➤ Hector Fellow Academy application portal; deadline: March 31, 2019