Contribution ID: **211** Type: **Talk**

Inhibitor screening and structural characterization of virulence factors from SARS-CoV-2

Thursday, 17 March 2022 09:20 (20 minutes)

Our work focuses on the identification of novel therapeutics against SARS-CoV-2. Using a HT screening approach, compound libraries of approved drugs are used for the discovery of inhibitors for enzymes of the coronavirus replication-transcription complex, followed by the structural determination of the enzyme-inhibitor complexes, revealing their binding mode. This approach is cost efficient, HT compatible, allowing direct identification of potent inhibitors and optimization of beamtime use.

Primary author: Dr CHATZIEFTHYMIOU, Spyros (Photon Science, DESY)

Co-authors: Mrs KUZIKOV, Maria (Fraunhofer ITMP ScreeningPort); Mrs AFANDI, Sara (Helmholtz-Center for Infection Research (HZI)); Dr CROSAS, Eva (ITT DESY); Dr POMPIDOR, Guillaume (Photon Science, DESY); Dr TABERMAN, Helena (Photon Science, DESY); Mr AHMED, Rizvee (Helmholtz-Center for Infection Research (HZI)); Prof. WINDSCHÜGEL, Björg (Fraunhofer ITMP ScreeningPort); Prof. LABAHN, Jörg (Forschungszentrum Jülich, Institute of Complex Systems (ICS-6)); Prof. KOLBE, Michael (Department of Structural Infection Biology, Center for Structural Systems Biology (CSSB), Helmholtz-Center for Infection Research (HZI)); Dr HAKANPÄÄ, Johanna (Photon Science, DESY)

Presenter: Dr CHATZIEFTHYMIOU, Spyros (Photon Science, DESY)

Session Classification: COVID-19 Research

Track Classification: Main conference: Covid-19