



**Eötvös Loránd Research Network
Biological Research Centre Szeged
Institute of Biophysics**



**Szeged Regional Committee
Hungarian Academy of Sciences
Biological Committee
Biophysics Workgroup**

BRC-SZAB COVID19 scientific lecture series

20th May 2021, 10am

Single-particle virology of SARS-CoV-2

Prof. Miklós Kellermayer

Dean of the Faculty of Medicine, Head of the Theoretical and Translational Medicine
Doctoral School and Chairman of the Department of Biophysics and Radiation Biology
at Semmelweis University, Budapest, Hungary

Excerpts from the abstract: The extension of single-molecule methods to the investigation of particles such as viruses permits unprecedented insights into molecular mechanisms. By imaging and mechanically manipulating individual, native SARS-CoV-2 virions with atomic force microscopy, we have recently shown that their surface displays a dynamic brush owing to the flexibility and rapid motion of the spikes. The virions are highly compliant and able to recover from drastic mechanical perturbations. (The full abstract, CV of the speaker and selected references are attached to the circular mail.)

The talk will be in English. You are welcome to watch this talk on-line at:

Time: May 20, 2021 10:00 AM Budapest

<https://zoom.us/j/98893215153?pwd=TFZTN3RDSGt3VnJsdHptbjN0TXV0QT09>

Meeting ID: 988 9321 5153

Passcode: GP41sV6K

The talk will be recorded, and later it will be available on the youtube channel of SZAB at
https://www.youtube.com/playlist?list=PLIQe0gy_sNvr_TEhtXUCgdf7VebprhLOa .

Host: Dr. Tibor Páli, D.Sc
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