



Life Sciences Seminar

Towards quantitative structural cell biology: in situ experiments and simulations discover flexible hinges in SARS-CoV-2 Spike protein.

Mateusz Sikora (Max Planck Institute, Frankfurt)

Host: Leonid Sazanov

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike protein mediates viral entry to the host cells and initiates the infection. As the only exposed surface protein, it is a primary target for vaccine development. We combined cryo-electron tomography, subtomogram averaging, and molecular dynamics simulations to visualise and structurally characterise spike proteins on the surface of intact virions. We discover three hinges in the stalk of S protein that endow it with surprising flexibility and can be relevant in the process of binding to the surface of the host cell.

Tuesday, October 20, 2020 02:00pm - 03:00pm

IST Austria Campus via Zoom



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.