

The science of COVID9

Evidence submission to the House of Lords Science & Technology Select Committee

This document presents a summary where the chemical sciences are ntributing to the science of COVID19. Contributions are described in relation to the problem they address and for each topicsome examples of research groups and companies who could speak to the science in more detailave been suggested. Our aim with submittible overview is to ensure that these contributions are considered ad appropriately covered in the nquiry. Note that this overview is not exhaustive.

Understanding the virus

To be able to effectively target a virus, withrugsor a vaccine understanding needed of properties that lend /# (. '1 . /* \$)/ -1)/\$*)) \$.-0+/\$*) *! /# 1\$-0.Z /\$*)N 0 # +-*+ -/\$ virus, its structural properties, and the way in which the virus interacts with cells in the human borders of chemistry that contribute to understanding of such viral properties include analytical tools, principles of organic biophysical and biomolecular chemistry, and molecular dynamics simulations.

- x Biochemistry for rapid sequencing of SARSCoV2-Oxford Nanopore

University of Southampton, uses mass spectrometric approaches to understand the structures of the varieglycans (sugar groups) in the