



# BIOSIMILAR WORKSHOP DIGITAL EDITION

## ADVANCES IN DIAGNOSIS, THERAPEUTIC INTERVENTIONS AND ANALYTICAL CHARACTERIZATION OF SARS-CoV-2 VIRUS

04-08  
OCTOBER 2021

The outbreak of global pandemic due to SARS-CoV-2 brought unprecedented changes to the world. This workshop will facilitate the emerging biotechnology's capabilities-biological engineering, advanced analytical techniques in fight against COVID 19 through talks and interactions and highlight work in these domains. The objective is to deliberate on crucial and the most relevant topics to enlighten the bio-pharma professionals in this domain.

### AGENDA **FOUR PART WEBINAR SERIES OVER 5 DAYS**

DAY1

#### Ultrastructure analysis of SARS-CoV-2 spike proteins

- Focus on the 3D structural analysis of SARS-CoV-2 with special emphasis on spike proteins and its interactions for entry in human cells, expression and purification.
- Technologies for structural analysis of corona virus-related proteins and complexes to support the structure-based design of vaccines and antiviral drugs will be highlighted.

DAY2

#### Glycopeptide identification, Mapping and analysis of SARS-CoV-2 spike proteins

- Analyse the spike protein glycan shield and its role in immune recognition.
- Latest trends and challenges in glycopeptide identification and analysis.

DAY3

#### Novel SARS-CoV-2 detection methods

- Introduction to novel diagnostic solutions that are simpler, provide higher throughput and/or faster turnaround times.
- Discussion on tools successfully applied to detect COVID19 due to their selectivity, specificity, and sensitivity.

DAY4&5

#### Understanding covid-19 vaccines and therapies : Overview and update

- Trusted updates on the vaccine by the leaders, updates on scientific innovation and vaccine manufacturing.
- Global research to recognise and characterise emerging novel variants of the virus and their impact on transmission, susceptibility to treatments and whether our existing testing methods will be effective in the future.