

Research Infrastructures and COVID-19 Research



ACCELERATE is funded by the European Union Framework Programme for Research and Innovation Horizon 2020, under grant agreement 731112



Research Infrastructures and COVID-19 Research

Responses to the questionnaire

CERIC-ERIC

CERIC is a European Research Infrastructure Consortium (ERIC) integrating and providing open access to some of the best facilities in Europe, to help science and industry advance in all fields of materials, biomaterials and nanotechnology

SERVICE/S IMPLEMENTED

COVID-19 research dedicated Fast Track Access to a selected number of Instruments, including NMR, Synchrotron beamlines, laboratory SAXS and Cryo Electron Microscope. Continuous submission with measurements scheduled within a month following the light evaluation by the facility. CERIC is implementing fast access to the data generated from the Fast Track access.

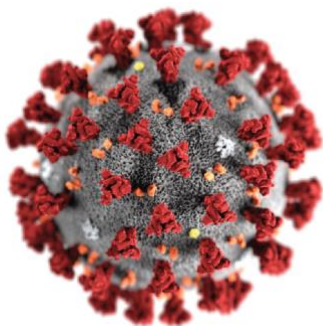
What stage in COVID-19 intervention your RI is addressing?

- Address basic virus function in relation to immune response (NMR).
- Study of basic virus function, structural characterization of basic virus molecular components (XRD1, XRD2, SAXS).
- Study interactions of viral proteins and cellular (surface) proteins (such as fragments of ACE2) (NMR).
- Study of the interaction of the membrane with the target protein and drugs (SAXS).
- Study of the possible target protein-drug interaction, especially if crystals are not available (SISSI, SAXS).
- Address challenges and opportunities related to potential treatments utilizing RNA oligonucleotides (NMR).
- Test the response of immune cells to drug candidates (SISSI).
- Structural characterization of drug candidates or other related solid state compounds. (MCX, XRD1, XRD2).

Instruments/databases involved:

NMR Spectrometers at the National Institute of Chemistry, Slovenia
Small angle X-ray Scattering (SAXS) Beamline at Elettra and SAXS laboratory, both of TU Graz, Austria
X-ray diffraction Beamlines of Elettra, Italy (XRD1, XRD2, MCX)
Synchrotron Infrared source for Spectroscopy and Imaging Beamline of Elettra, Italy (SISSI)
Cryo Electron Microscope at Solaris, Poland

How is the proposal submitted?



Research Infrastructures and COVID-19 Research



ACCELERATE is funded by the European Union Framework Programme for Research and Innovation Horizon 2020, under grant agreement 731112



Online through the Virtual Unified Office (VUO) at the link <https://vuo.elettra.trieste.it/pls/vuo/guest.startup> by selecting "Submit a new FAST TRACK CERIC proposal related to COVID-19 research" after registration

- **Who evaluates the proposal?**

Light evaluation by the facility.

- **Is the submission continuous, or linked to a deadline?**

Continuous submission

- **What is the estimated time from the submission to the access / service provision?**

Access to the selected facility within 1 month from the proposal submission

CHARACTERISTICS OF THE ACCESS

Restrictions: No restrictions

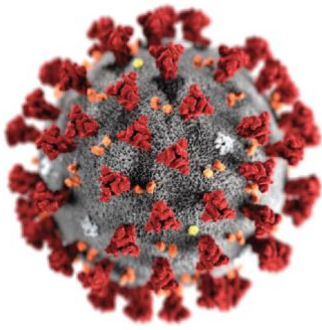
In the case of analytical facilities, modality of access allowed: Remote access

If on-site access is allowed, is mobility support available?	-
Is the access free for non-proprietary research?	YES
Is commercial access available at reduced prices?	NO
Are there limitations regarding the type of samples?	YES
Are there special requirements for shipment of the samples?	YES
Are there specific requirements regarding the preparation or handling of the samples?	YES

Additional comments related to the questions above: No bio-safety accreditation. Only samples guaranteed as non-harmful and with no ability to cause or transfer viral infection can be accepted for research

ACCESSIBILITY OF THE PUBLICATION AND DATA

Is there any requirement to publish in open access journals?	YES
Is the data generated associated to metadata and is it publicly available?	YES
If yes, what is the embargo period?	To be discussed
Where is the data or metadata published? (e.g. in the institution's catalogue, in other open data repositories, etc).	Open data repositories



Research Infrastructures and **COVID-19** Research



ACCELERATE is funded by the European Union Framework Programme for Research and Innovation Horizon 2020, under grant agreement 731112



Do you have further comments about data or metadata?

All scientific information generated must be available and reusable through online access that is free of charge to the end-user.

We are preparing a pilot rapid access to data resulting from COVID-19 fast track projects. The pilot is a part of the EU co-funded PaNOSC project.