

# 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

#### ESRF (European Synchrotron Radiation Facility)

The ESRF is the world's most intense X-ray source and a centre of excellence for fundamental and innovation-driven research in condensed and living matter science. Located in Grenoble, France, the ESRF owes its success to the international cooperation of 22 partner nations, of which 13 are Members and 9 are Associates.

#### SERVICE/S IMPLEMENTED

The ESRF is ready to provide rapid access to its facilities for COVID-19 related research projects, including the Cryo-EM electron-microscopy platform, the MASSIF-1 macromolecular X-ray diffraction beamline, and Partnership for Structural Biology facilities. X-ray imaging experiments using the BM05 facilities are also under consideration. This exceptional access will be granted with the aim to contribute to the international scientific effort to overcome the COVID-19 pandemic.

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

Determination of structures of COVID-19 proteins and complexes

#### Instruments/databases involved:

The Cryo-EM electron-microscopy platform (CM01), the MASSIF-1 macromolecular X-ray diffraction beamline (ID30A-1), possibly other MX beamlines, and the Partnership for Structural Biology facilities. X-ray imaging experiments using the BM05 facilities are also under consideration.

#### How is the proposal submitted?

By email in the first instance - see <http://www.esrf.eu/home/news/general/content-news/general/covid-19-scientific-research.html>. If accepted, an MX rolling proposal (light version) must then be submitted to assign a proposal number.

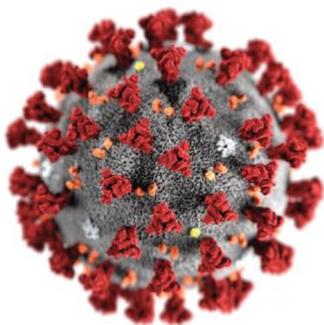
#### Who evaluates the proposal?

The facility (however consultation with the peer review panel remains easily possible if necessary).

#### Is the submission continuous, or linked to a deadline?

Continuous

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



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3 weeks

## CHARACTERISTICS OF THE ACCESS

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**Restrictions:** No, open to all researchers worldwide although member and associate member countries will be given preference.

**In the case of analytical facilities, modality of access allowed:** Remote access only, including our Mail-In service

**Comment for remote access only:** ESRF (European Synchrotron Radiation Facility)

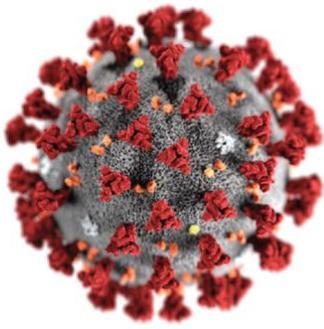
Analytical Facilities: If on-site access is allowed, is mobility support available?	
All RIs: Is the access free for non-proprietary research?	YES
All RIs: Is commercial access available at reduced prices?	MAY BE POSSIBLE
Analytical Facilities: Are there limitations regarding the type of samples?	YES
Analytical Facilities: Are there special requirements for shipment of the samples?	YES
Analytical Facilities: Are there specific requirements regarding the preparation or handling of the samples?	YES

**Additional comments related to the questions above:** Industrial clients can access the ESRF for COVID-19 research under the standard arrangements. Maximum biosafety level allowed is L2 (depends on instrument/platform used). All samples/shipments must be sent using the ISPyB database so they are tracked. For MASSIF-1 cryogenically cooled samples should be mounted on SPINE sample holders in SC3 pucks.

## ACCESSIBILITY OF THE PUBLICATION AND DATA

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Is there any requirement to publish in open access journals?	No, this is not obligatory but is recommended.
Is the data generated associated to metadata and is it publicly available?	YES
If yes, what is the embargo period?	3 years
Where is the data or metadata published? (e.g. in the institution's catalogue, in other open data repositories, etc).	In the ESRF's ICAT catalogue ( <a href="https://icatproject.org/">https://icatproject.org/</a> for details and <a href="https://data.esrf.fr/">https://data.esrf.fr/</a> for access)



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Do you have further comments about data or metadata?

Publications related to data from experiments carried out at ESRF must cite the persistent identifier of the experiment and data in their publication.