

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



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Responses to the questionnaire

Deutsches Elektronen-Synchrotron DESY in Hamburg (Germany)

The national research centre DESY in Germany is operating and utilising the high brilliant X-ray synchrotron light source PETRA III and the soft X-ray free-electron laser FLASH. DESY develops and operates unique tools for more than 3000 users from over 40 countries every year and is a member of LEAPS.

SERVICE/S IMPLEMENTED

PETRA III is one of the worldwide most brilliant storage ring-based X-ray sources for high energy photons. Photon energies between 250 eV and 200 keV depending on the beamline are available for measurements and can be used for a broad range of applications.

PETRA III offers currently 22 beamlines with more than 60 instruments and experimental setups for user experiments. The beamlines are operated by DESY, the European Molecular Biology Laboratory (EMBL) and the Helmholtz-Zentrum Geesthacht (HZG).

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

X-ray based investigation are possible, like for instance Macromolecular Crystallography (MX) and related X-ray fluorescence measurements will and can be used to understand, e.g. the basic virus functions and the interaction with possible agents or for drug screening to inhibit viral proteins.

Instruments/databases involved:

All DESY beamlines at PETRA III at DESY can be used, except the EMBL beamlines, according to the present status (Update: 31 March 2020).

How is the proposal submitted?

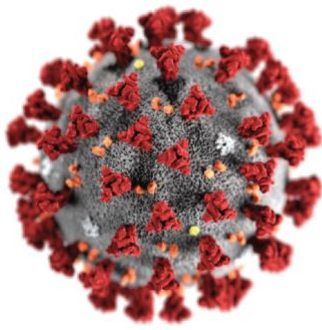
Via e-mail, a template and further information is available on this DESY website:

https://photon-science.desy.de/users_area/fast_track_access_for_covid_19/index_eng.html

Who evaluates the proposal?

The DESY management, together with scientists from the facility or from DESY research groups as well as further experts in the field if needed, will evaluate the proposals.

Is the submission continuous, or linked to a deadline?



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Continuous submission of proposals for research to combat the SARS-CoV-2 virus is still offered until further notice.

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

At present about 2-7 days depending on the proposed experiments.

CHARACTERISTICS OF THE ACCESS

Restrictions: In general, there are no access restrictions for scientific users from academia and industry. However, national and international travel restriction apply. All proposals for beamtime have to be in line with DESY mission and guidelines.

In the case of analytical facilities, modality of access allowed: Remote and on-site access

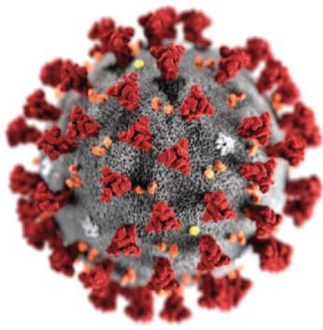
Comment for remote access only: Deutsches Elektronen-Synchrotron DESY in Hamburg (Germany)

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

Additional comments related to the questions above: DESY offers companies access to PETRA III for Corona related research (max. biosafety level S2) reduced prices and individual services depending on the specific requirements of the experiments. (Contact DESY ITT: https://innovation.desy.de/index_eng.html).

ACCESSIBILITY OF THE PUBLICATION AND DATA

Is there any requirement to publish in open access journals?	NO
Is the data generated associated to metadata and is it publicly available?	NO
If yes, what is the embargo period?	



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<p>Where is the data or metadata published? (e.g. in the institution's catalogue, in other open data repositories, etc).</p>	<p>Corona related research performed at DESY facilities shall be published as soon as possible. DESY aims at making all related data and metadata from these experiments also openly accessible, if this is feasible on short notice.</p>
<p>Do you have further comments about data or metadata?</p>	<p>According to the DESY bylaws all results of works carried out at DESY facilities have to be published or made available to the general public in any other way.</p>