

**To:** M. Ryan (interim Vice Provost, Research and Enterprise)  
**From:** K. Long (Director, Centre for the Clinical Application of Particles)

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25<sup>th</sup> November 2021

## Centre for the Clinical Application of Partices; activity report August 2021

Two highlights of the progress being made in the development of the Centre's programme over the period from August 2021 are:

- LhARA, the Laser-hybrid Accelerator for Radiobiological Applications, has been reviewed by the UKRI's Infrastructure Advisory Committee (IAC) in the context of the proposal to establish the "Ion Therapy Research Facility" (ITRF) which was highlighted in the CCAP's June and August 2021 reports.

The IAC has met and its recommendations are being considered by UKRI. CCAP personnel are working with STFC staff and the wider LhARA collaboration to develop the Preliminary Phase activity that will be executed from April 2022 should the bid be successful.

- CCAP personnel from the Department of Radiation Physics & Radiobiology at Imperial College Healthcare NHS Trust have identified the opportunity to re-purpose a clinical linac (clinac) to provide photon and electron beams for radiobiological research. The clinac will be capable of delivering ultra-high dose rate, "FLASH", irradiations using electron beams.

The opportunity to repurpose the clinac is being developed in collaboration by CCAP personnel from the Imperial NHS Healthcare Trust, the Department of Surgery and Cancer and the Department of Physics. CCAP personnel from the Oxford Institute of Radiation Biology and personnel from the Liverpool Institute of Systems, Molecular and Integrative Biology have expressed interest in exploiting the beams that could be provided.