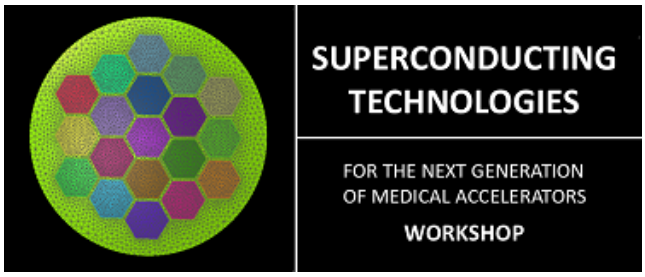

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Medical imaging

Thursday 24 November 2016 17:50 (20 minutes)

Radiotracers labeled with positron and gamma emitters can be tracked non-invasively after administration to a living organism. This is the basics of nuclear imaging, which has been traditionally used in the clinical setting for the early diagnose/evaluation of the response to treatment of a variety of diseases. With the widespread installation of cyclotrons around the world and the implementation of effective networks for the production and distribution of radiotracers, nuclear imaging has gained relevance in other fields, including the pre-clinical and clinical evaluation of new drug candidates and the investigation of mechanistic aspects of physiological, biological and/or medical problems.
In this session, the fundamentals of Positron Emission Tomography (PET) and Single Photon Emission Computerized Tomography (SPECT) will be briefly introduced. Illustrative examples of the application of nuclear imaging both in the clinical and the pre-clinical settings will be presented and discussed.

Presenter: LLOP, Jordi (CIC BiomaGUNE)

Session Classification: Radioisotope production