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11:00 AM



Prof. Agustina Portu

National Atomic Energy Commission,
Argentina

BACKGROUND

Agustina Portu is a Biomedical Engineer and PhD in Science and Technology from San Martin University (UNSAM, Argentina). She performed her PhD and postdoctoral studies at the Radiobiology Department of the National Atomic Energy Commission (CNEA), working in the development of neutron autoradiography technique and its application to the spatial distribution of boron in the frame of the Boron Neutron Capture Therapy.

She obtained grants from the National Research Council (CONICET), the National Agency for the Promotion of Science and Technology, the International Atomic Energy Agency (IAEA) and the Consorzio Universitario Italiano per l'Argentina.

She is currently a researcher of CNEA and CONICET, where she continues working in developing ion detection techniques in order to increase spatial resolution. At UNSAM, she is a regular professor at the Science and Technology School and the Director of the Biomedical Engineering Program.

The National Pre-Clinical Imaging Laboratory and other Nuclear Applications to Health at Argentina's National Atomic Energy Commission

Abstract

The National Pre-Clinical Imaging Laboratory (LANAIP) was established within the framework of the Research and Development activities in human health carried out by the National Atomic Energy Commission (CNEA). Its mission is to support the development of scientific protocols related to cancer and other human diseases by providing high-resolution preclinical imaging services to national laboratories.

As LANAIP aims to become a regional center of excellence and reference for translational studies, the National Cooperation Project ARG 60-23 seeks to strengthen national capabilities for preclinical research and to establish collaborations with leading centers, with a view to the development of theragnostic agents and new radiopharmaceuticals for nuclear medicine.

LANAIP is currently operational, and its first results will be presented.

Regarding the development of advanced therapies for cancer treatment, CNEA has extensive experience in research and development of Boron Neutron Capture Therapy (BNCT). In addition, the first Proton Therapy Center in Latin America is under construction. An overview of these hadrontherapy approaches will also be presented.

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