

An ERC-funded postdoctoral **indefinite-term contract** is available from June 2024 at the New Approaches in Radiotherapy (NARA) lab at the Center for Research in Molecular Medicine and Chronic diseases (CIMUS) at Santiago de Compostela (Spain) in the field of innovative radiotherapy methods (proton minibeam radiation therapy and proton FLASH therapy).

CIMUS and NARA laboratory

The Center for Research in Molecular Medicine and Chronic diseases (<https://cimus.usc.gal/>) is a member of the network of singular research centres with a new model of scientific organization, which constitutes one of the R&D strategic pillars of the CAMPUS VIDA project (Campus of International Excellence, MEC-MICINN, 2009). CiMUS has *CIGUS* recognition from the Xunta de Galicia, which accredits the quality and impact of its research. CIMUS has cutting-edge technology for biomedical research. It is an inclusive, equal opportunity employer, and is dedicated to the highest standards of research integrity.

Radiation therapy (RT) is one of the pillars of cancer treatment. However, normal tissue tolerances continue compromising an efficient treatment of radioresistant tumors or pediatric cancer. The “New approaches in radiotherapy (NARA)” team is pioneering the conception and development of innovative RT techniques which are able to drastically reduce normal tissue toxicities providing an equal or superior tumor control as compared with standard RT. NARA is an interdisciplinary team composed of physicists, biologists, bioinformaticians and medical doctors, with a translational vision. Our research is based on an upstream expertise in simulation, medical physics, and radiobiology, linked to a rich collaborative and international network.

Profile and duties

We are seeking an enthusiast fellow with interest in radiobiology who will work on the investigation of the biological mechanisms of proton minibeam radiation therapy and proton FLASH therapy, two techniques that have showed a significant increase of the therapeutic ratio in radioresistant tumors. He/She will help with the experimental design and coordinate the experiments (both in vivo and/or in vitro). The candidate should hold a PhD in (radio)biology, neurobiology, veterinary or medicine. Experience in animal experimentation and cell culture will be an asset.

Job offer

We offer indefinite-term contract working within an interdisciplinary, international and dynamic lab in the outstanding environment of CIMUS, with access to state-of-the art infrastructures. The postdoctoral fellow will also have the opportunity to spend some time at the Institut Curie (France) and perform experiments at the Orsay proton therapy center.

If you are interested, please send us a copy of your CV, motivation letter and the contact of two professional references to yolanda.prezado@usc.es