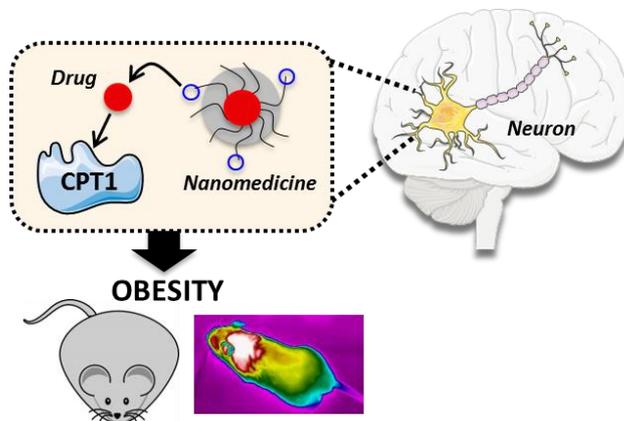


PREDOCTORAL POSITION IN BRAIN NANOMEDICINE



Project description: The project entitled “*Drug delivery targeting brain CPT1: a novel nanomedicine-based approach to fight obesity and cancer*” is a Joint Bilateral proposal between Spain and Japan. The Spanish team has expertise on lipid metabolism, obesity and CPT1, whereas the Japanese team provides expertise on brain nanomedicines and cancer. The Spanish team integrates researchers from the Universitat Internacional de Catalunya (UIC Barcelona) and the Universitat de Barcelona (UB). This consortium seeks for a highly motivated predoctoral student to work in this investigation.

The primary goal of this PhD project is to develop and characterize nanomedicines targeting CPT1 in specific brain cells with a final *in vivo* validation in animal models of obesity. The work package will include chemical drug synthesis and modifications for optimal encapsulation into the nanocarriers, *in vitro* validation and toxicity of the nanomedicines, and evaluation of the biodistribution and the effect of the nanomedicines in obese mice. The PhD student will be supervised by researchers of both the “Neurolipid Group” in UIC-Barcelona (www.uic.es/neurolipid-group) and the “Regulation of lipid metabolism in obesity and diabetes group” (<http://www.ub.edu/betaoxi/>) in UB. The position involves working with a multidisciplinary team of scientists in the areas of organic chemistry, biochemistry and pharmacology. As a bilateral project with Japan, the position will imply a close collaboration with the Japanese group during the PhD.

Contract type: PhD contract

Start date and duration: February-March 2019, three years (full-time)

Eligibility: Candidates with Bachelor degree in Chemistry, Biochemistry, Biotechnology, Pharmacy or similar, with a good academic expedient and highly motivated are invited to apply. Preference will be given to candidates with previous experience in research. Interested candidates should send a brief cover letter indicating his/her interest in the research, a CV and academic expedient by email to:

Dr. Rosalía Rodríguez (rrodriguez@uic.es)

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