



Universitat
Pompeu Fabra
Barcelona

Departament
de Medicina
i Ciències de la Vida



Convocatòria: MELIS-INV-INDF-2024-22

Expedient: X2024042927.

Job title: Post-Doc Offer at the Department of Medicine and Life Sciences of the UPF (<https://www.upf.edu/web/biomed>) located in the PRBB (<http://www.prbb.org/>) (Barcelona, Spain) ref. MELIS-INV-INDF-2024-22

Job description

The Integrative Biomedical Materials and Nanomedicine Lab are seeking for a Post-doctoral researcher to work on the development of plasmonic-silica nanomaterials for biomedical applications.

Candidates should have background training and experience in synthesis of gold and silica nanoparticles as well as on drug conjugation, loading and release. Specifically, on loading nanoparticles with paclitaxel, their subsequent coating, surface modification with antibodies, *in vivo* tumor release characterization and on the characterization of antibody coating with super-resolution fluorescence microscopy.

The project has a strong translational character and therefore fulfilment of the objective within the deadlines is mandatory. The position will provide opportunities to gain experience in technology transfer activities, mentoring students, managing research teams, disseminating research results, and scientific writing.

Project and Institution that finance the contract:

Project: "Adding therapeutic value to PDAC treatment by nanoencapsulation and targeting." (NanoTarg-ther)

Institution: Agencia Estatal de Investigación (AEI)

Official number reference:

CNS2023-143700

Information on the minimum requirements

PhD degree in science or engineering (nanoscience, chemistry, pharmacy, biophysics, chemical or biomedical engineering) with extensive experience in synthesis and characterization of plasmonic (gold)/silica nanostructured materials and their surface modification with antibodies. Knowledge on drug conjugation for controlled release and on super-resolution fluorescence microscopy is required.

Ability to work successfully as part of a team and to supervise students.

Track record of first-authored publications in high impact journals.



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The candidate must show high motivation, commitment to the project and must be result oriented. It is a technological project and therefore highly focused on fulfilling the objectives.

Fluent in English.

Benefits of the opening

The candidate will receive a 12-month postdoc contract with possibility for extension.

Dedication and working time: 37,5 hours/week (full time)

Retribution: annual gross salary of 25.688,04 € (2140 €/month)

Information on the application process: They can be submitted by email to the e-mail address recruitment.melis@upf.edu indicating the position for which they are applying (**MELIS-INV-INDF-2024-22**), the candidate's DNI/NIE number or passport of the candidate, proof of the requirements and with the documents signed with digital certificate.

Contact recruitment.melis@upf.edu ; nanomed@upf.edu

Deadline to submit applications: 10 calendar days from the day after publication