

Researcher position in Chemical Biology at the University of Barcelona

The group *Light-activatable molecules for bioimaging and therapeutic applications* at the Section of Organic Chemistry of the Department of Inorganic and Organic Chemistry of the University of Barcelona (UB) is looking for a highly motivated researcher to join our team, preferably with interest in conducting a PhD within the Organic Chemistry Doctoral Program at the University of Barcelona.

Offered Position Description and Tasks:

We offer a position for 18 months supported by the Producte project “Next generation of photosensitizers for the PDT treatment of highly aggressive hypoxic tumors” (2024 PROD 00005), funded by AGAUR, to work on the development of innovative light-activated drugs for therapeutic applications, with a special emphasis on photodynamic therapy (PDT).

The successful candidate will:

- Synthesize new drug candidates and conjugate them with receptor-binding peptides.
- Conduct *in vitro* and *in vivo* biological evaluations of these compounds.

The position offers comprehensive training in areas including organic synthesis, medicinal chemistry, spectroscopic techniques, and chemical biology, and access to state-of-the-art scientific equipment and facilities at the UB and the Institute of Biomedicine of the University of Barcelona (IBUB).

Requirements:

Education:

Bachelor's degree in Chemistry, Pharmacy or Biochemistry.

Master's degree in Organic Chemistry, Biochemistry, or a related field
Competitive academic marks.

Knowledge & Professional experience:

Fluent English

Strong background in medicinal chemistry and/or chemical biology is highly recommended.

Experience in cell viability studies, ROS assays and confocal microscopy will be highly valued.

How to apply:

If you are a motivated, enthusiastic and committed person with strong communication skills wishing to work in a multidisciplinary project focused on the development of new anticancer drugs, please send your updated CV, academic record and a letter of motivation, along with the contact details of a referee to Dr. Vicente Marchán (vmarchan@ub.edu).

Job Starting Date (estimation): January-February, 2025

Number of Positions offered: 1

Funding Source: Project 2024 PROD 00005 (Ajut Producte, AGAUR)

For further information, you may contact vmarchan@ub.edu