UNIVERSITAT DE BARCELONA

Facultat de Farmàcia
i Ciències de l'Alimentació

FACULTAT DE FARMÀCIA I CIÈNCIES DE L'ALIMENTACIÓ

CONTRACT OFFER JUNIOR RESEARCHER

Scientific background

Molecular glues are bioactive molecules able to selectively stabilize protein-protein interactions. Antitumoral drugs such as Paclitaxel and Lenalidomide leverage this mechanism of action, but there is a scarcity of tools that are useful to pursue a rational design of this type of molecules. In this context, the objective of the project is to shed light into the molecular determinants underlying the mechanism of action of molecular glues and to develop new computational tools to aid in the development of this class of drugs, moving away from trial and error and into a rational and knowledge-based approach.

Your role

The successful candidate will contribute to the project development combining computational structure-based techniques (Virtual Screening, Molecular Dynamics, etc.) and data science approaches (support vector machines, neural networks). Specific tasks will match the interests and abilities of the candidate.

Profile of the candidate

Required:

- Bachelor in Pharmacy, Chemistry, Biology, Physics, Math or a closely related subject.
- Ability to work within a team
- Curiosity and ingenuity driven.

Desirable:

- To have successfully passed 300 ECTS at the pre-PhD stage or to fulfil the equivalent requirements to enrol in a PhD program at the University of Barcelona.
- EEC or Swiss nationality. (Applicants from other nationalities will be considered, but they will need to obtain a valid work permit by their own means, there is no financial help available for this call.)

The offer

- Contract duration: 1 year (extensions are possible)
- Salary: Similar to Spanish PhD fellowships at a similar level (gross salary ca. 15000€ p.a.)
- Possibility to enrol in a PhD programme from the University of Barcelona.
- Support to apply for PhD fellowships will be provided.
- Start date: Final quarter 2021

Application procedure

Please send a complete CV (including academic transcripts) and a motivation letter to jordi.juarez@ub.edu. Applications from women and underrepresented minorities are specially encouraged.