Francisco Javier Falcó Maltí

Graduated in Biotechnology, with a Master in Biophysics and Quantitative Biotechnology at BIFI, where he completed his TFM which addresses Machine Learning and Thermal Liquid Biopsy research for presurgical diagnosis of ovarian malignant tumors. He is currently developing his doctoral thesis PhD Program in Biochemistry and Molecular Biology, in the research lines "Protein stability and folding" and "Drug discovery".

Researcher profile

Currently, he is an R1 level researcher. His lines of research focus on the one hand, the integration of Machine Learning and Thermal Liquid Biopsy (TLB) algorithms, together with patient data, for the early diagnosis of diseases, such as ovarian cancer and pancreatic ductal adenocarcinoma. On the other hand, it studies the stability of proteins of biomedical interest and performs computational analysis of bioactive molecules, scaling their interaction with target proteins to optimize their therapeutic use.

Importance of his research

His research in bioinformatics applied to biomedicine facilitates advances in clinical diagnostics and drug development. It combines Machine Learning and Thermal Liquid Biopsy (TLB) to improve early disease detection, and studies the stability of proteins and bioactive molecules to optimize drug identification. These advances drive biomedical innovation and offer diagnostic and therapeutic resources that improve patient outcomes.