Instituto Universitario de Investigación Biocomputación y Física de Sistemas Complejos Universidad Zaragoza

Gema Merino Loma

She studied Biotechnology at the University of Zaragoza, doing a one-year stay in the Molecular Medicine program at Trinity College (Dublin). She developed her TFG at BIFI, in Nunulo Cremades's group, investigating the amyloid aggregation of alphasynuclein and through an INVESTIGO grant she was hired in the group "Clinical Diagnostics and Drug Delivery". This 2025, also at BIFI, she has started her PhD thesis focused on the search for new therapies for neuroblastoma, based on the specific inhibition of CMYC and NMYC proteins.



Researcher profile

She is currently an R1 level researcher. Her work is focused on the search for new molecular therapies against neuroblastoma through the study of the partially disordered proteins CMYC and NMYC. The aim of her research is to find small molecules that can inhibit the nuclear translocation of these two transcription factors by using their nuclear localization sequences as targets.

Importance of her research

Neuroblastoma is one of the most common childhood cancers, with high clinical heterogeneity and poor prognosis. Despite recent advances in treatment, side effects, metastasis and the persistence of recurrent cases are aspects that point to the need to develop more specific targeted therapies.

