



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

Sonia Hermoso Durán

She did her thesis on thermal liquid biopsy and machine learning for the diagnosis and prognosis of pancreatic and colorectal cancer, at the University of Zaragoza, with stays at the Cancer Research Center in Marseille and Kolling Institute in Sydney. She joined BIFI in 2019 as a predoctoral student, although she is currently an external member of BIFI, due to the fact that at the end of 2024, she started a postdoctoral contract at Oslo University Hospital.



Researcher profile

She is currently an R2 level researcher. Her research is mainly based on the study of prostate cancer, specifically in the study and understanding of the mechanisms of hypoxia that develop in this pathology, which leads to resistance to radiotherapy. She works in the Clinical Radiation Biology group, led by Dr. Heidi Lyng, analyzing prostate tissue samples using spatial transcriptomics techniques.

Importance of her research

Currently, she studies prostate cancer focusing on identifying patients at risk of metastasis and progression to incurable disease. Hypoxia is a risk factor associated with worse prognosis of these patients, and it is necessary to identify therapeutic targets that help cancer cells to survive in hypoxic tumors. Spatial genetic analysis of histological sections allows the study of interactions between cancer cells and the general environment that promotes cancer progression, which could lead to new treatments for these patients.

