OVERVIEW

Our Laboratory focuses on elucidating the crosstalk between tumours and their microenvironment throughout metastatic progression. Currently, we are examining the relationship between extracellular vesicles (EVs) and DNA damage responses (DDR). This project aims to uncover the potential role of EVs in controlling intrinsic/extrinsic DDR and their impact on tumour evolution and metastasis. Additionally, we are investigating the influence of obesity on pre-metastatic niche formation in breast cancer, with a specific emphasis on its adverse outcomes in triple-negative breast cancer patients. This study will help us to understand the relationship between obesity and the progression of breast cancer. Lastly, we are analysing the role of the nerve growth factor receptor (NGFR) in metastasis and therapy resistance in melanoma and head and neck cancer. We are interested in exploring the use of NGFR inhibitors in combination with immunotherapy and chemotherapy to enhance therapeutic responses and reduce metastasis. Metastatic drugs and the combination with immunotherapy in melanoma. Moreover, we are studying the significance of NGFR in tumour development and metastasis in head and neck cancer, aiming to define its relevance in chemotherapy resistance.

"We are investigating the dynamic interplay between systemic factors and the tumour microenvironment in metastasis progression and therapy resistance."

PUBLICATIONS