

## **Cancer Targets and Therapeutics Group**

UNSW Centre for Childhood Cancer Research Children's Cancer Institute University of New South Wales



Dissecting the role of endoplasmic reticulum stress in cancer cell progression and metastasis in the tumour microenvironment

## **Endoplasmic Reticulum**





## Importance of the project:

- Cancer metastasis accounts for almost 90% of cancer-related deaths.
- This project aims to dissect the mechanism by which the Endoplasmic Reticulum and its chaperones modulates cancer progression and metastasis.
- These signals can be transmitted between cancer cells and cancerassociated helper cells, known as stromal or immune cells. Considering the importance of cancer-stromal/immune cross-talk in cancer development, we aim to elucidate the functional significance of this transmission for the first time and develop therapeutics.

## What the project will involve:

This study will use cell culture (a range of cells lines, including glioblastoma, pancreatic, etc.), molecular biology techniques, fluorescent/confocal microscopy, orthotopic mouse model, immunohistochemistry of patient samples, etc. Feel free to contact Dr. Angelica Merlot to have a chat about whether the project matches your interests.

