

Cancer Targets and Therapeutics Group

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

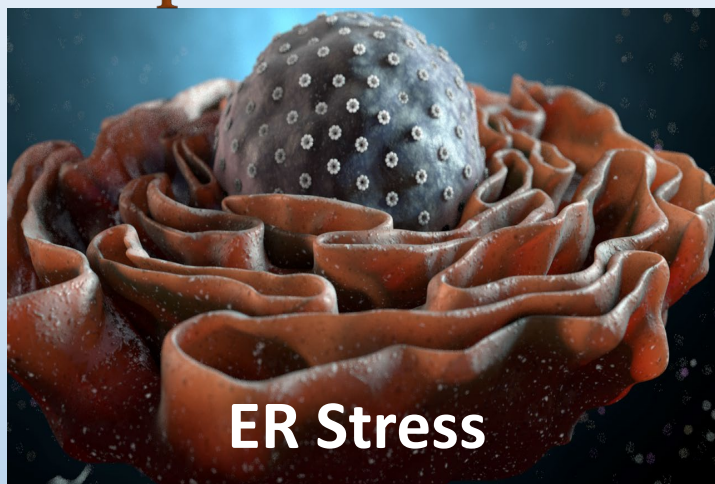


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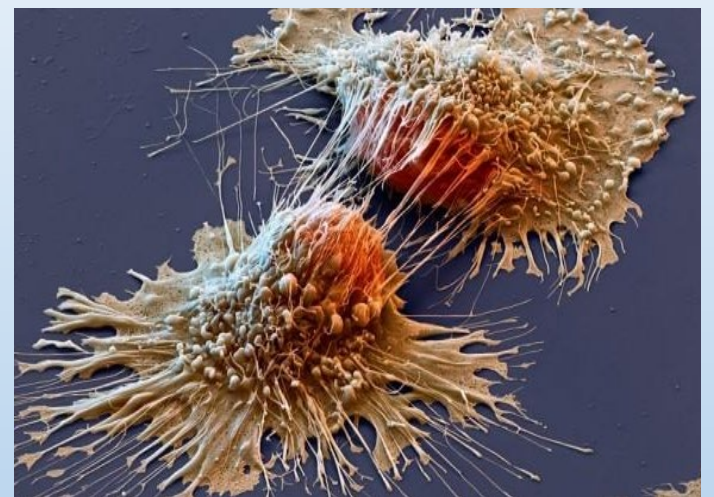


Dissecting the role of endoplasmic reticulum stress in cancer cell progression and metastasis in the tumour microenvironment

Endoplasmic Reticulum



Metastasis



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 cancer-associated 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.

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