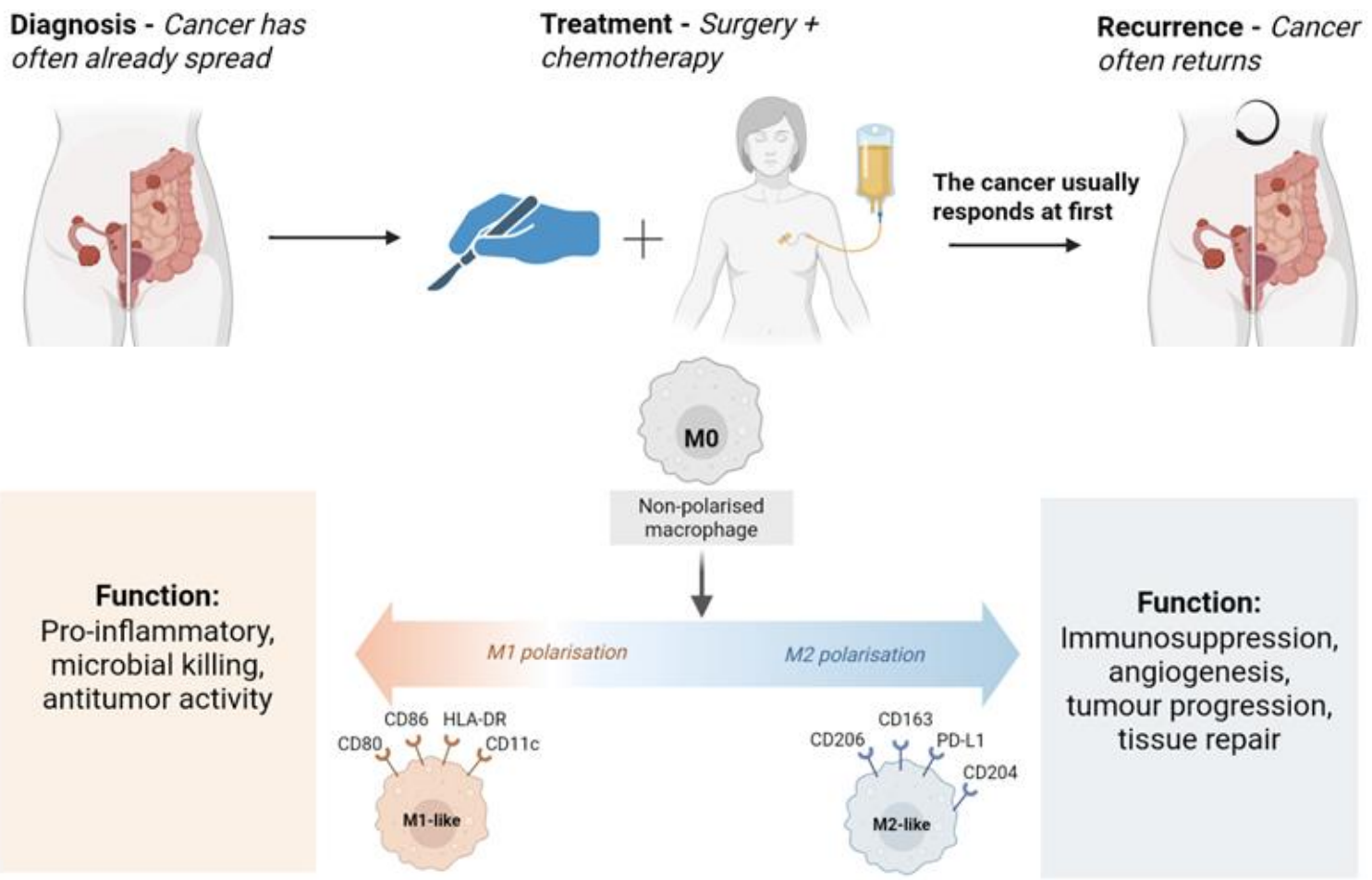
How does ovarian cancer build its hidden defences?

Michael Sanders & Joshua Leslie

Background



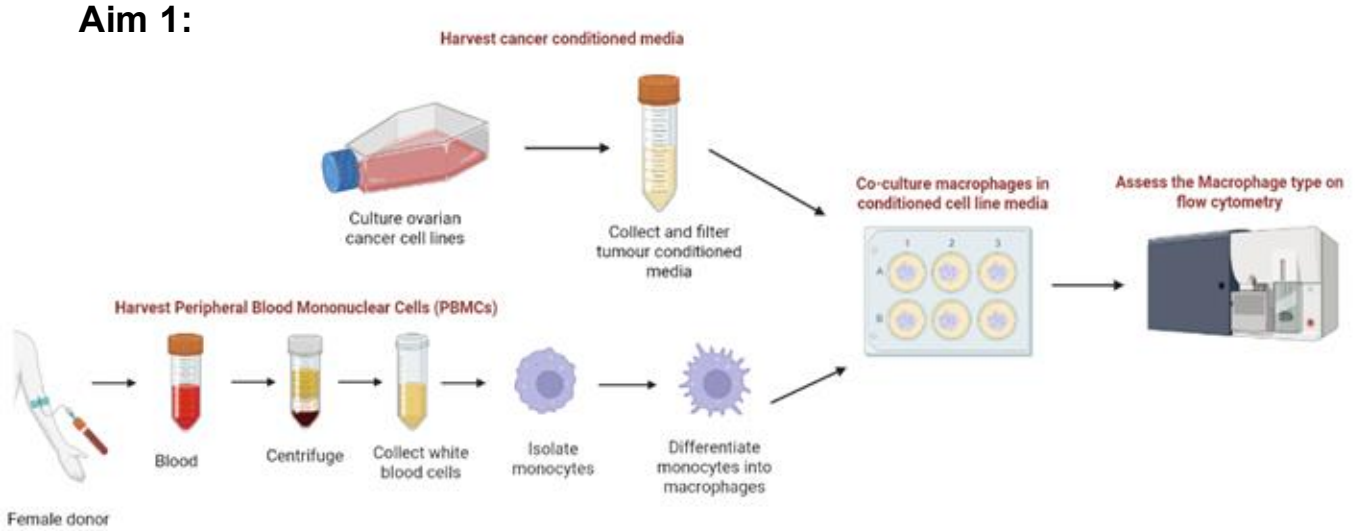
Aim & Hypothesis

Aim 1: To understand if ovarian cancer cells influence the Macrophages (immune cells) to their benefit.
Aim 2: To understand if we can counteract the influence of the cancer cells and convert these Macrophages from being "pro-cancer" to "anti-cancer".

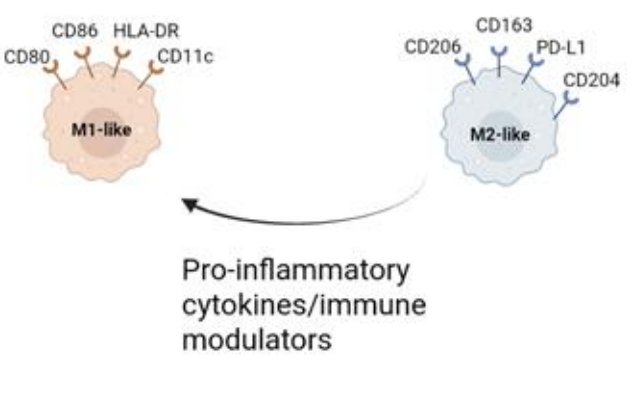
Hypothesis: We hypothesis that the cancer produces certain proteins which influence macrophage response to the benefit of the cancer.

Methods, Results & Future Directions

Aim 1:



Aim 2:



Key Takeaways

Traditionally, cancer research has largely focused on T cells (adaptive immune system), and while T cells have an important part in the cancer story, other immune cells which are potentially just as important and are being overlooked, which is being investigated in this project for future therapies.