

HaemaTONIC, a culture system for in vitro human haematopoiesis

The Problem

- Published *in vitro* haematopoiesis systems do not replicate the full diversity of human blood lineages.
- Humanised models are expensive and cumbersome.
- A lack of comprehensive disease models of human haematopoiesis.
- Uncertainty in blood and immune disorders.

The Solution

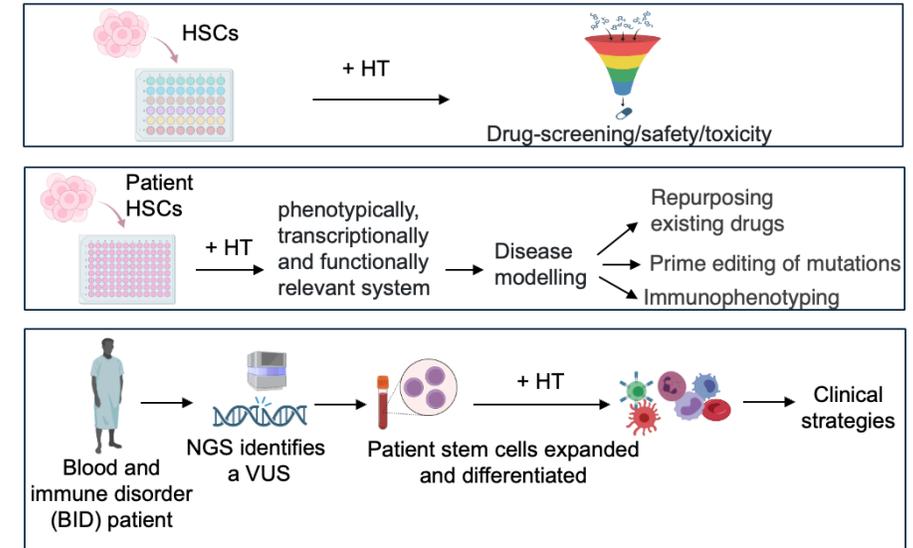
- We have developed HaemaTONIC (Haematopoiesis using cytokines and optimised niches in culture), a media cocktail and culture system.
- HaemaTONIC can generate monocytes, neutrophils, eosinophils, mast cells, megakaryocytes, erythroid cells, B cells, T cells, NK cells, plasmacytoid DC, cDC1, cDC2, DC3 and others.
- HaemaTONIC addresses unmet needs in drug development, stem cell function, disease modelling, and diagnostics.

Our Program

Progress: We have developed a stromal-free culture system (funded by WEHI Ventures) and are currently validating this system

Seeking **partnerships** to exploit different applications:

- Increasing efficiency of drug screening/tox/safety
- Better diagnosis of blood and immune disorders
- *In vitro* disease modelling



Our Team

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