

HaemaTONIC, a media cocktail and 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

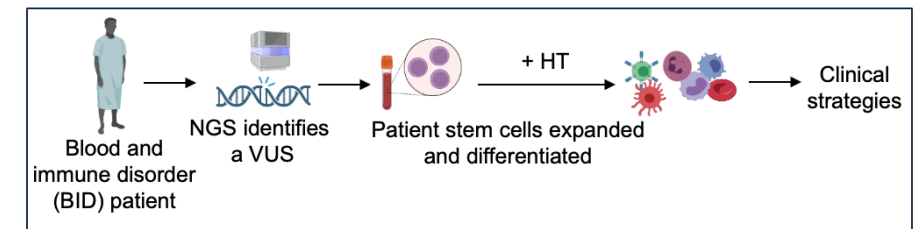
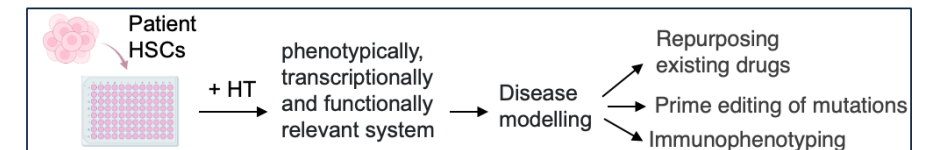
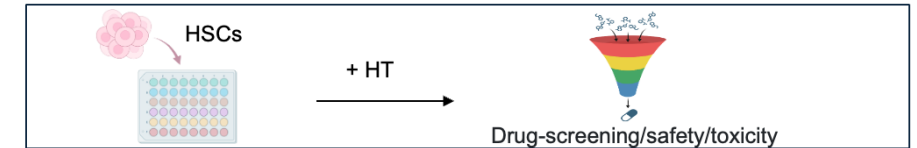
- We have developed HaemaTONIC (haematopoiesis using cyTokes and Optimised Niches In Culture), a media cocktail and culture system
- HaemaTONIC can generate monocytes, neutrophils, eosinophils, mast cells, megakaryocytes, erythroid cells, B cells, T cells, NK cells, plasmacytoid DC, cDC1, cDC2, DC3 and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

Our Program

Progress: We are developing a stromal-free system, currently funded by WEHI Ventures

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

Prof Shalin Naik, Immunology, Haematopoiesis

Dr Sara Tomei, Immunology, Haematopoiesis

Onisha Patel, PhD, Business Development,
patel.o@wehi.edu.au