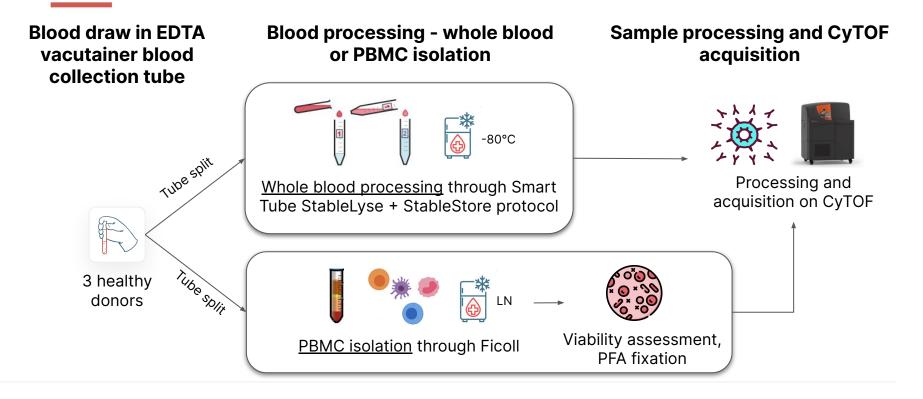


Whole Blood or PBMCs?

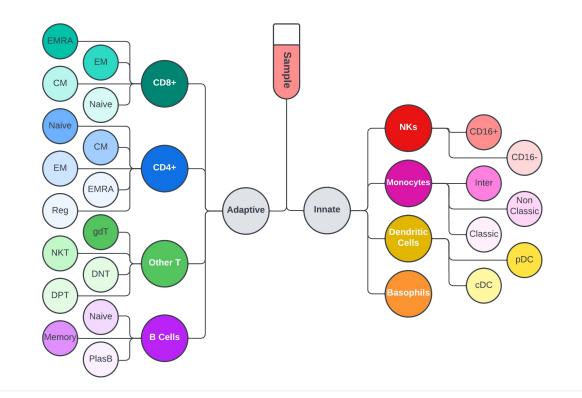
How mass cytometry immune profiling data from whole blood compares to data from cryopreserved PBMCs.

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Methodology



CyTOF Panel with 43 markers



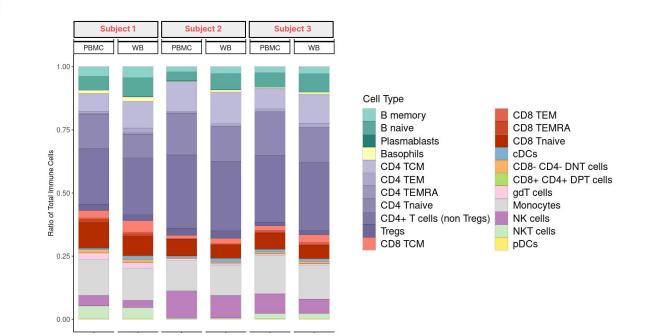
Summary Whole Blood vs. PBMC

Comparable immune cell frequencies observed in whole blood and PBMCs processed with identical 43-marker CyTOF panel.

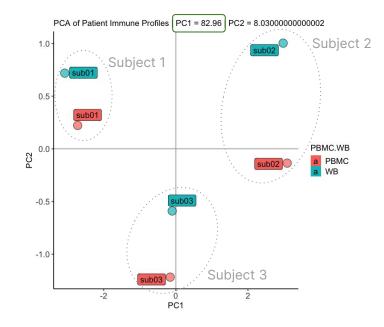
3 Subjects - 1 whole blood & 1 PBMC sample per subject 1 CyTOF panel

- Comparable immune cell compositions between whole blood and PBMCs, with greater variability observed between subjects.
- Immune population frequencies in whole blood and PBMCs are highly correlated.

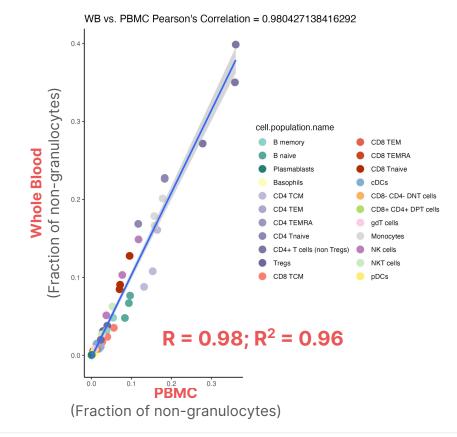
Comparable immune cell compositions between sample types, with greater variability observed between subjects

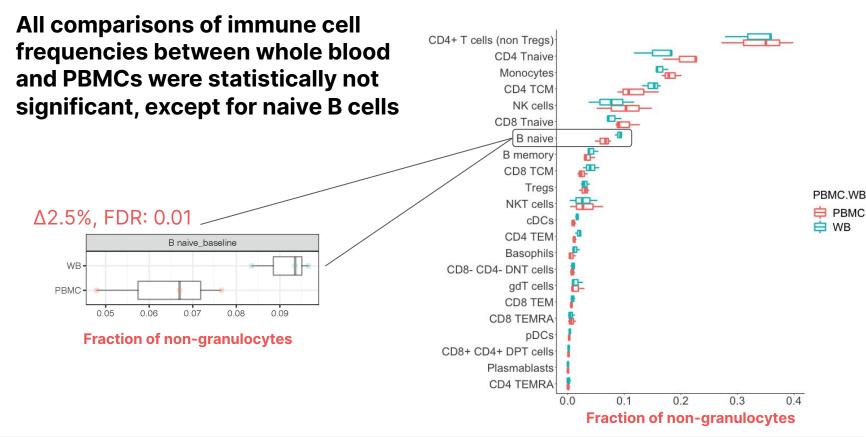


Separation between samples driven primarily by differences in immune cell composition between subjects (PC1: 83%), compared to sample type (PC2: 8%)



Highly correlated immune cell frequencies in whole blood and PBMC

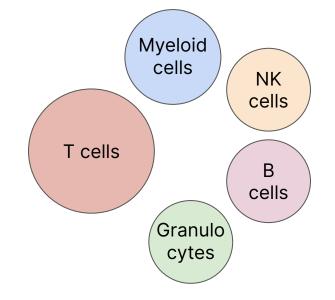




Other differences between PBMCs and whole blood

PMBCs

- Good quality data
- Cryopreservation → stable for years



Whole Blood

- Similar quality data
- Additional information on granulocytes
- Preserves fragile cell types
- Easy isolation protocol

Teiko's whole blood rapid onsite protocol makes blood collection easy



Teiko can supply TokuKits that contain materials needed for sites to perform all protocol steps.

Our whole blood protocol takes ~20 minutes and requires:

- (1) A Stable-Lyse buffer step
- (2) A 15-minute incubation period
- (3) A Stable-Store buffer step

Samples can then be stored in -80C for 6+ months before shipment.

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Want to learn more? Teiko.bio/contact