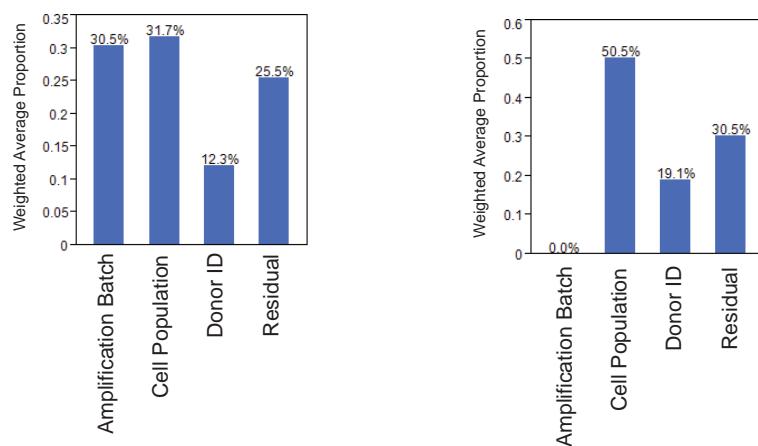


## Before CombatR Correction      After CombatR Correction

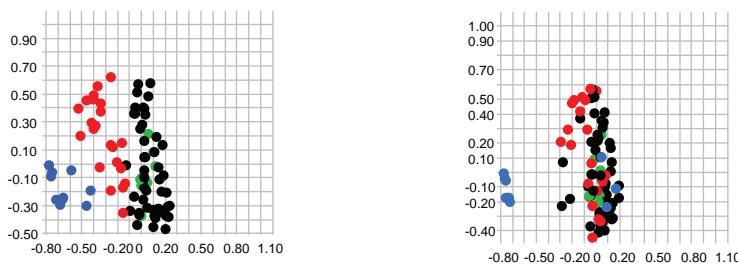
**a**

### Principal Variance Component Analysis (PVCA)



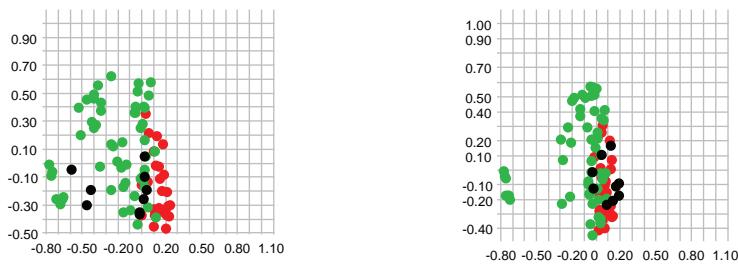
**b**

### Amplification Batch



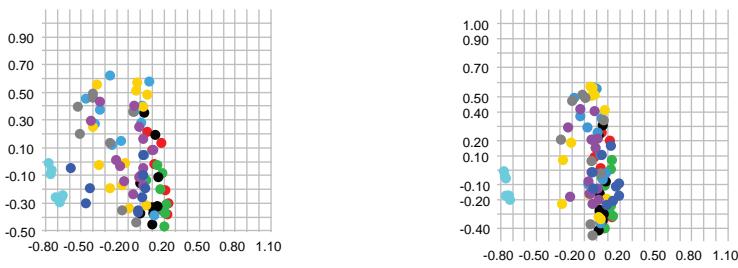
- B1
- B2
- B3
- B4

### Tissue



- Skin
- Vagina
- Blood

### Cell Population



- Vaginal LC
- Vaginal CD14-DC
- Vaginal CD14+ DC
- Vaginal MF
- Vaginal HLA-DR-
- Epidermal LC
- Dermal CD14- DC
- Dermal CD14+
- Blood mDC

**Figure S17 - Batch correction analysis.** **a.** Principal variance component analysis (PVCA) before and after batch correction. **b.** Principal component analysis (PCA) before and after batch correction. Samples are colored by amplification batch, tissue or cell population.