# MojoSort™ Dead Cell Removal CITE-Seq Effectively Improved Data Quality

細胞活性 (cell viability) 的重要性

細胞樣本的活力 (cell viability) 對於單細胞定序 (CITE-seq)的分析結果至關重要！
MojoSort™ Dead Cell Removal Kit，以不依賴 Ca2+ 的方式去除凋亡和死亡細胞，
與 Annexin V-based dead cell removal kits 相比，可有效的提升20%細胞回收率，
同時提高細胞的純度 (90%-95%)

品名	規格	型號
MojoSort™ Human Dead Cell Removal Kit	50 tests	480159
MojoSort™ Mouse Dead Cell Removal Kit	50 tests	480157

使用 MojoSort™ 去除死細胞，增加 CITE-Seq 數據分析品質
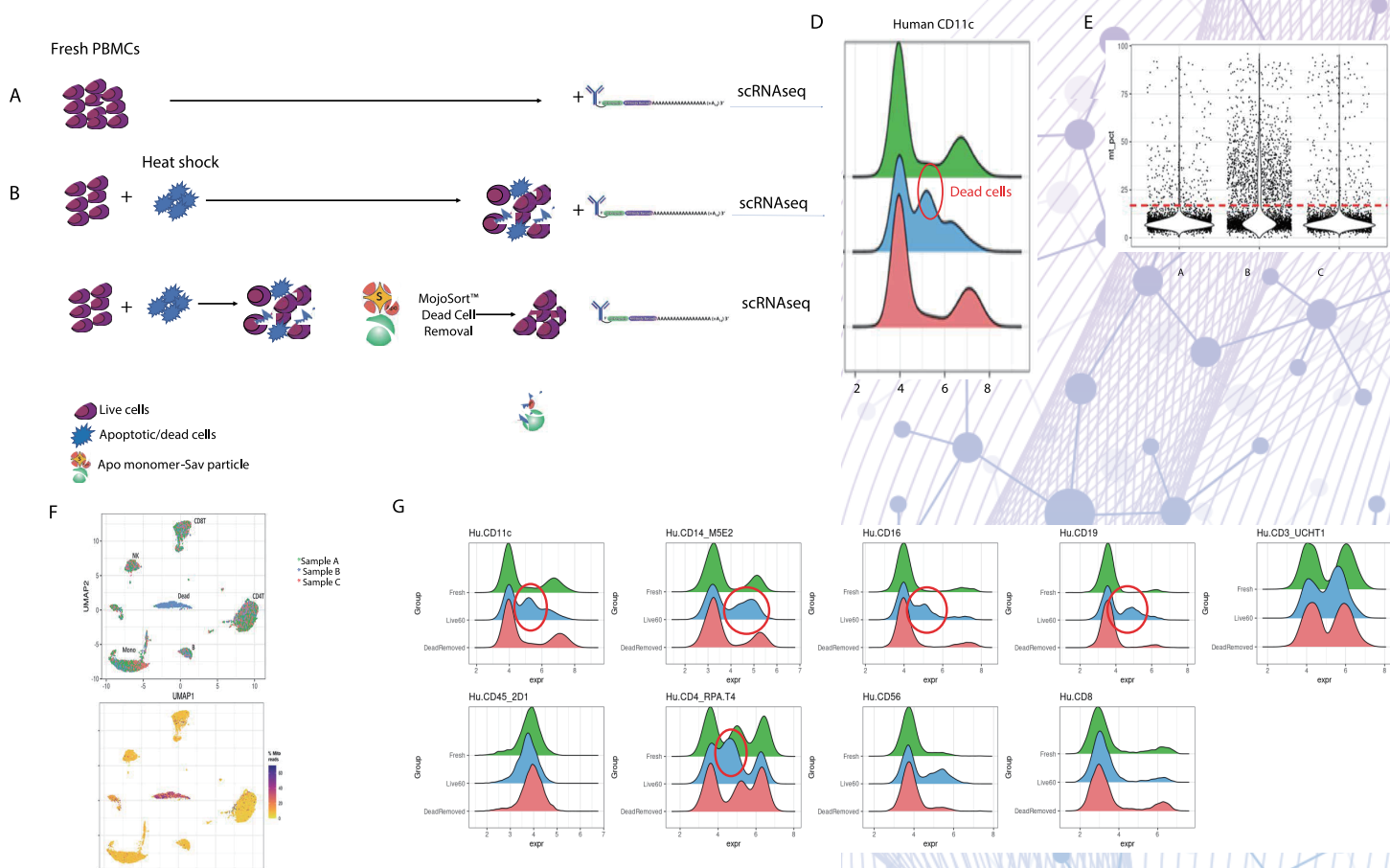
(A) Sample of fresh isolated PBMCs with 98% live cells, (B) sample of fresh isolated PBMCs spiked to have 40% heat-shocked dead cells, and (C) a sample with spiked-in heat-shocked PBMCs treated with the MojoSort™ Human Dead Cell Removal Kit were stained using TotalSeq™ TBNK lineage antibodies. All cells from samples A, B, and C were collected and pooled for one CITE-Seq experiment. Ridge plots showed a small CD11c peak in all samples with the exception of a middle peak from sample B. This unexpected peak (circled in red) can be eliminated after dead cell removal. (E) Cells with higher percent mitochondrial reads were considered dead and dying cells. These apoptotic and dead cells are abundant in sample B, and can be eliminated by the use of Dead Cell Removal Kit as in sample C. (F) UMAP based on TBNK lineage protein marker expression showed that common PBMC cell types can be detected from all three samples, with the exception of a dead cell cluster in the center that consists of mostly cells from the artial dead cell sample B. (G) Ridge plots showed that sample C preserved all the common lineages in PBMCs after dead cell removal, and the expression levels of the lineage markers were mostly identical when comparing to samples A and C.