



# BD Rhapsody™ Single-Cell Analysis System

單細胞基因表現分析系統



獨家 Scanner 幫助流程 QC，視覺化確認細胞與磁珠回收數量

支援 Whole Transcriptome Analysis，Targeted Genes 與 VDJ 實驗

Seven Bridges Genomics 雲端及 SeqGeq 視覺化分析軟體配套



騰達行

UNIMED

0800-211-819

# BD Rhapsody™ System workflow

BD Rhapsody  
cell capture  
Beads

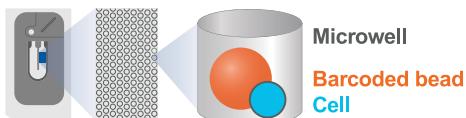
Univ CL UMI Poly-dT

88 萬組獨特 CL 標記單細胞

6 萬組 UMI 真實計算基因表現

20 萬個 micro-wells 與磁珠補獲細胞，  
可執行 100-10,000 顆單細胞實驗

## 1 Load Cells and Beads



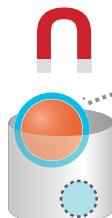
Pair ONE cell with ONE barcoded bead in microwell

## 2 Lyse Cells

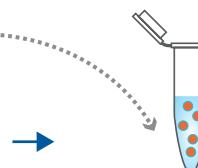


Lyse cell to hybridize mRNA onto barcoded capture oligos on bead

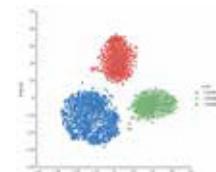
## 3 Retrieve Beads



## 4 Synthesize cDNA



## 5 Analyze Data



Library preparation , sequencing and data analysis

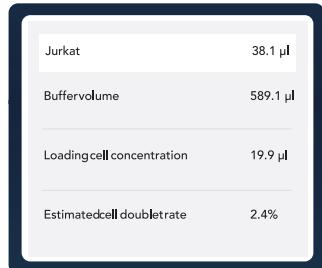
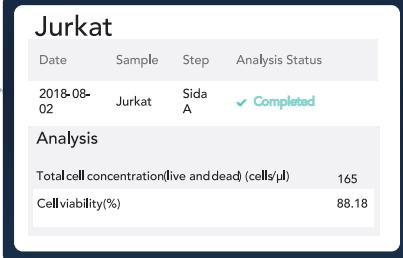
# BD Rhapsody Scanner

偵測上機前細胞濃度與存活率  
同時提供實驗流程中各步驟效率



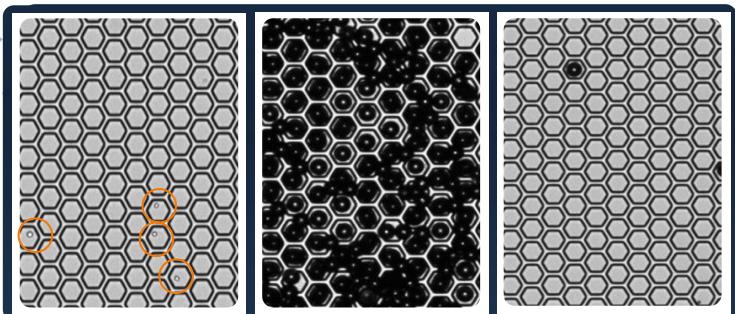
## Sample QC

- Cell count
- Cell viability



## QC Report

- Cell/Bead loading efficiency
- Cell retention rate
- Bead retrieval efficiency
- Number of retrieved beads with viable cells



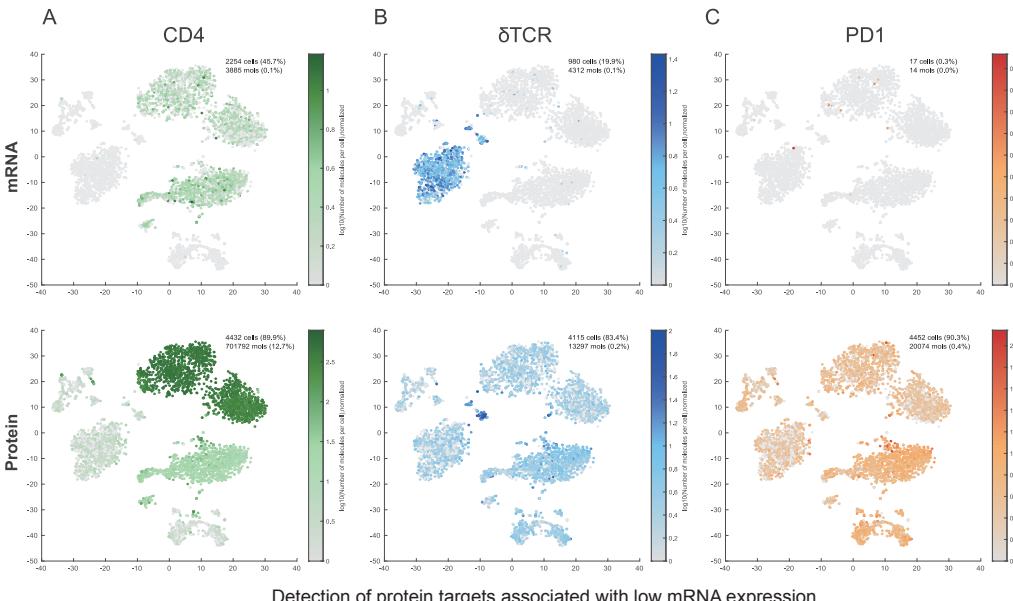


BD AbSeq™

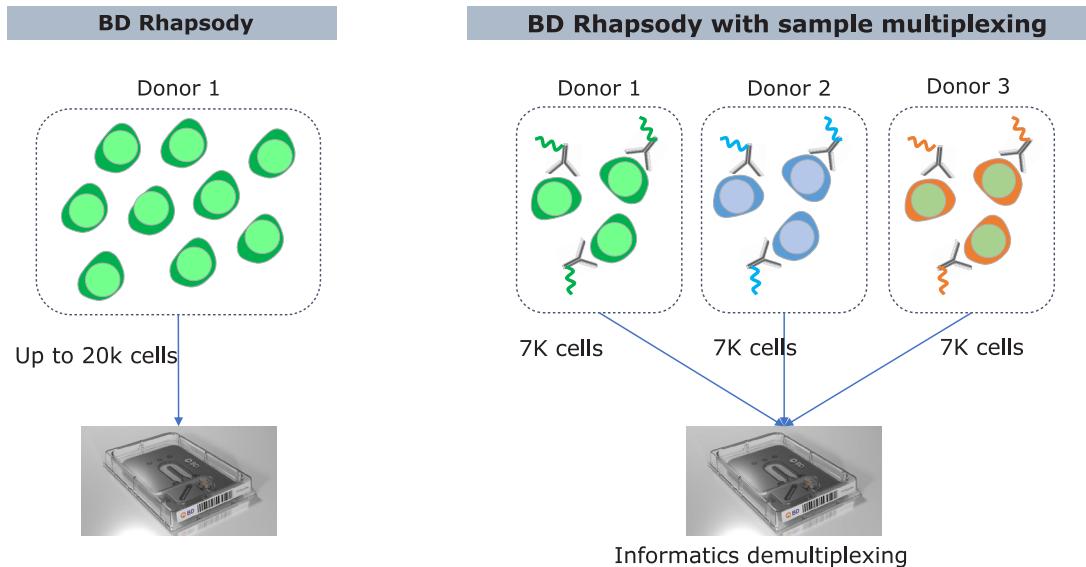
同時分析單細胞基因與表面蛋白

- 獨特 DNA barcode 序列結合抗體
- 不需考慮螢光補償

- 更簡單的抗體 panel 設計
- 支援複雜的多隻抗體實驗 (1-40 plex)



# BD Sample Multiplexing kit™ (SMK)



提供混樣上機，增加實驗彈性  
降低試劑成本減少 **technical errors** 產生

633781 Human Single Cell Sample Multiplexing Kit (12 samples)  
633793 Mouse Immune Single-Cell Multiplexing Kit (12 samples)



**SeqGeo™** is a desktop bioinformatics platform that makes complex scRNA-seq analysis accessible with an intuitive interface.

The screenshot shows the SeqGeo software interface. On the left, there's a tree view of sample files and a table of statistics. The main area features a 3D tSNE plot with colored clusters. Below it is a violin plot for 'Pseudotime\_X\_UMV' and a box plot for 'ViolinBox'. A separate window titled 'ICellR' is also visible.

These tools allow for the direct use of third party algorithms in the form of R scripts, or for very quick implementation of features once a requirement has been identified.

Quality Control

Dimensionality Reduction

Clustering

Differential Gene Expression

Gene Set Enrichment

FlowJo Exchange Plugins