

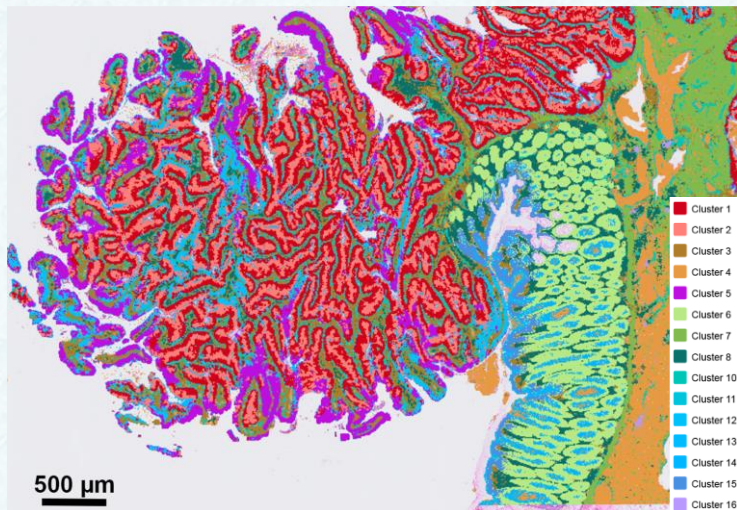
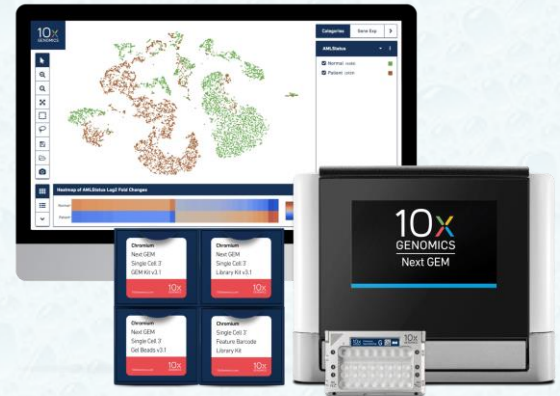


10x Genomics 分析方案總覽

解鎖細胞空間與基因表現的秘密。10x Genomics 提供三大旗艦平台，精準描繪細胞和組織的分子圖譜。

Chromium Single Cell

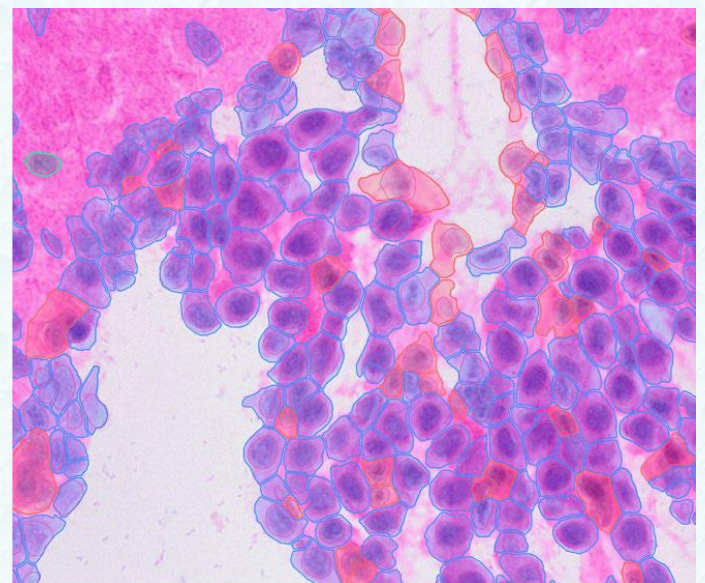
Chromium Single Cell 單細胞分析平台使用專利GEM-X技術，可一次分析成千上萬顆單細胞個別的細胞類型、基因表現、免疫受體序列、染色質結構和蛋白質表型等，實現高通量且高解析度的單細胞分析。



Visium HD Spatial Gene Expression

Visium HD Spatial Gene Expression 將傳統組織學的H&E及免疫螢光染色

(Immunofluorescence) 與高通量RNA定序技術相結合，能在新鮮冷凍切片和石蠟包埋樣品上檢測全轉錄體 (whole transcriptome)，並精準描繪組織中單細胞級的位置及基因表現。



Xenium In Situ

Xenium 是結合10x Genomics在單細胞與空間技術所推出的創新高階原位分析方案，能在組織切片中針對每顆細胞同步檢測數百種 RNA 表現量，建立單細胞解析度的空間基因表現地圖，幫助實驗室深入解析組織內細胞之間的相互關聯。

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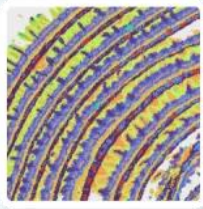
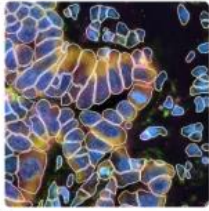
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平台特色：

Platform	 Chromium Single Cell	 Visium Spatial	 Xenium In Situ
When to use	Comprehensive single cell data Ideal for deep characterization of cell populations and states.	High-resolution spatial gene expression Understand complex tissues, neighborhoods, and cell to cell interactions. Integration with other spatial-omics, histology, and morphology.	
Why to use	Unbiased single cell discovery High per-gene sensitivity	Unbiased spatial discovery	Targeted spatial exploration High per-gene sensitivity
Applications	Whole transcriptome gene expression Protein TCR, BCR CRISPR ATAC	Whole transcriptome gene expression	Targeted gene expression (up to 5,000 genes)
Resolution	Single cell	Transcripts assigned to 2-µm areas	Single cell
Data readout	NGS-based	NGS-based	Imaging-based
Sample compatibility	Single cell or nuclei suspensions from fresh, frozen, or FFPE samples	FFPE Fresh frozen Fixed frozen	Fresh frozen FFPE