Reveal the full complexity of cellular diversity, cell by cell

Chromium

Chromium Single Cell Gene Expression은 단일 세포 단위에서 유전자 발현량 및 변화를 분석하는 플랫폼입니다.

Cellular heterogeneity, rare cell type detection, response to therapeutic interventions, mechanisms of cellular differentiation 등을 세포 단위에서 확인이 가능하며 면역학, 암, 신경계 연구 등에서 활용됩니다.



How does Visium provide Insights in Research



Single Cell Resolution

Bulk RNA Seq 대비 cell-to-cell differences를 확인하는 정밀한 데이터



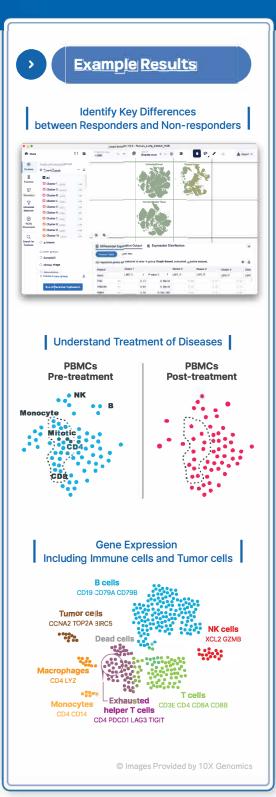
Multiomic profiling

Immune Mapping



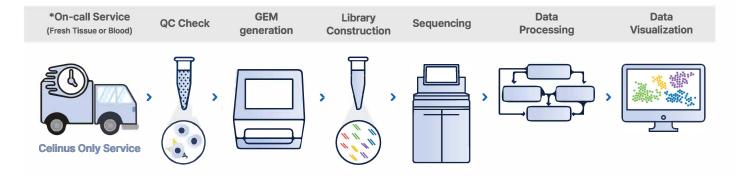
Discovery & Validation

새로운 바이오마커를 찾거나, 특정 cell의 activation state 등을 확인





Workflow



Comparison of Single Cell Platform

	Cell Gene Expression	Nuclei Gene Expression	Immune Profiling
특징	전반적인 gene expression 확인	Single Cell 분리가 어려운 근육, 신경, biopsy 샘플에 특화	면역세포 발현 확인에 특화
캡쳐 방식	Detect RNA near 3' end of genes	Detect Nuclei's RNA near 3' end of genes	Detect RNA near 5' end of genes and T/B-cell receptors
분석 가능 조직	Human, Mouse, Rat, Non-Human Primate, Organoid, Marine	Human, Mouse, Rat, Non-Human Primate, Organoid, Marine	Human, Mouse, Rat, Non-Human Primate, Organoid
샘플 형태	Cell Suspension Fresh Tissue	Cell Suspension Fresh Tissue Frozen Tissue	Cell Suspension Fresh Tissue
샘플 양	Total Cell count ≥ 10 ⁶ Viability ≥ 80%	Total Nuclei count ≥ 10⁵ Volume : 0.2g 이상/vial	Total Cell count ≥ 10 ⁶ Viability ≥ 80%

Data Analysis

