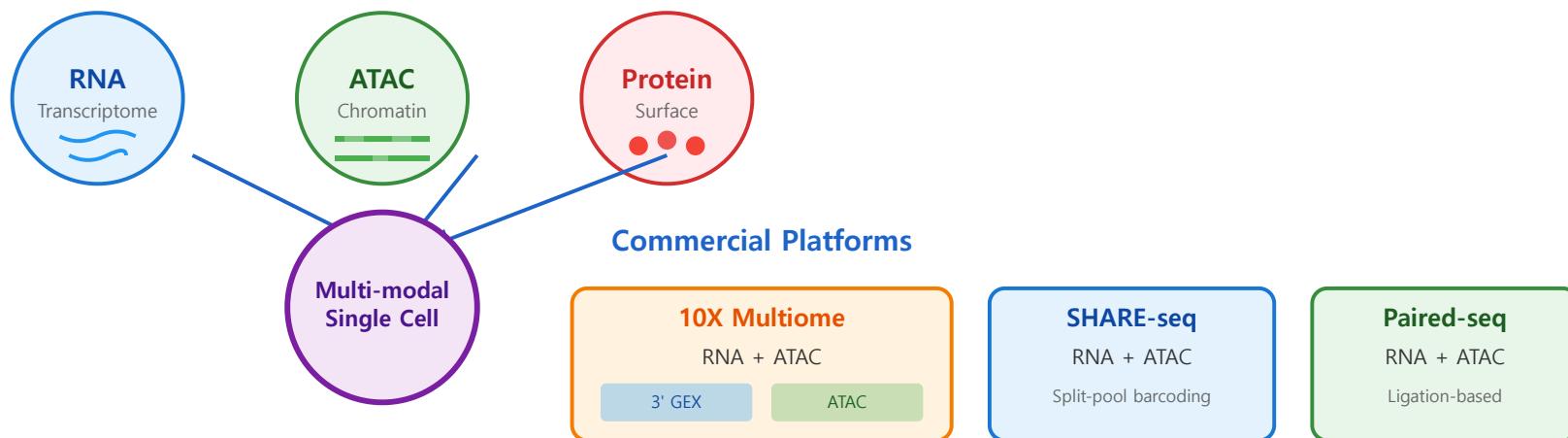


Multimodal Omics

Single-Cell Multimodal Technologies



Biological Insights from Multimodal Integration

Gene Regulation

Open chromatin → Transcription
Link enhancers to genes

Cell State

Chromatin precedes RNA
→ Transition

Development

Lineage commitment

Disease Mechanisms

Normal → Disease
Dysregulated networks



Multi-omics reveals regulatory mechanisms