

Spatial Transcriptomics

Visium Technology

10X spatial - 55µm spots, whole transcriptome

MERFISH Principles

Multiplexed error-robust FISH, subcellular resolution

seqFISH Evolution

Sequential FISH with barcoding, 10,000+ genes

Slide-seq Methods

Bead-based spatial barcoding, 10µm resolution

Resolution Trade-offs

Gene coverage vs spatial resolution vs throughput

💡 Spatial context reveals tissue architecture and cell-cell interactions

