

# Spatial Transcriptomics

## Visium Technology

10X spatial - 55 $\mu$ m 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, 10 $\mu$ m resolution

## Resolution Trade-offs

Gene coverage vs spatial resolution vs throughput

💡 Spatial context reveals tissue architecture and cell-cell interactions

